Appendix B:
Health Risk Assessment

draft

THIS PAGE INTENTIONALLY LEFT BLANK

FIRSTCARBON SOLUTIONS™

Memo

Date: March 22, 2018

To: Ruben Hurin, Senior Planner, City of Burlingame

From: Vince Mirabella, Senior Air Quality Scientist, FirstCarbon Solutions

Subject: Health Risk Assessment for the California Drive Development Project

Purpose

The purpose of this report is to provide a health risk assessment to determine whether toxic air contaminant (TAC) emissions from the construction and operation of the 619–625 California Drive Development Project (project) would exceed health risk thresholds of significance recommended by the Bay Area Air Quality Management District (BAAQMD). This report relied upon the guidance and tools developed by the BAAQMD to assist in performing such health risk assessments. In accordance with BAAQMD guidance and tools, project-level impacts were estimates and all sources of TAC emissions located within 1,000 feet of the project were also identified and their potential cumulative health impacts along with those from the project were quantified.

Project Location and Description

The project site is located on 619–625 California Drive, at the southeast corner of the intersection of California Drive and Oak Grove Avenue near downtown Burlingame, San Mateo County, California. Currently, the parcel at 619 California Drive is vacant. The parcel at 621 California Drive has an automobile repair facility, and the parcel at 625 California Drive has two dwelling units. The adjacent land uses to the project site are an automobile service facility to the east, three-story multi-family residential buildings to the south, a retail building to the west, and a rail line (Caltrain/Freight) to the north.

The 0.45-acre project proposes to construct a new four-story, 26-unit live/work building with space for commercial occupancy, and would have a height of 54 feet 10 inches. The project would provide a parking garage with 34 spaces. The City's Zoning Code defines live/work as "a single unit consisting of both a commercial/office and a residential component that is occupied by the same resident. The live/work unit shall be the primary dwelling of the occupant." The Burlingame Downtown Specific Plan allows live/work units in the C-2 North California Commercial District, where the project site is located.

Project construction is expected to commence in the early 2019 and last for approximately 18 months. The project was assumed to be occupied beginning in July 2020 once the construction is completed. Existing sensitive residential receptors are located to the west, south and north of the project site.

Burlingame High School is located across the Caltrain/Freight line northeast from the project site. Burlingame Montessori School is located 260 feet east of the project site. Exhibit 1 provides the locations of nearby sensitive receptors.

Project Summary

This health risk assessment consisted of five principal components:

1. Quantify the TAC emissions from the construction activities of the project.
2. Identify the existing and reasonably foreseeable sources of TAC emissions and their emission levels located within a 1,000-foot radius from the project.
3. Estimate the health impacts to surrounding sensitive receptors such as residences and schools from the project-level construction emissions using a refined air dispersion modeling assessment and as part of the cumulative assessment of health risks from the identified sources of TAC emissions within 1,000 feet of the project.
4. Estimate the cumulative health impacts on future on-site residents from the identified sources of TAC emissions within 1,000 feet of the project.
5. Compare the resulting project-level and cumulative health impacts with health risk significance thresholds adopted by BAAQMD.

On the basis of the assessment provided herein:

- The project's construction and operation emissions would not exceed BAAQMD's project-level health risk thresholds of significance after project mitigation.
- The project's construction and operational emissions in combination with TAC emissions from existing sources of TAC emissions within 1,000 feet of the project would not expose nearby sensitive receptors and future on-site residents to cancer risks or hazard levels that exceed the BAAQMD's cumulative health risk thresholds of significance after project mitigation.
- Therefore, the construction and operation of the project would not result in a project-level or cumulatively significant health risk impact.

Mitigation Measure Applicable to the Project

MM AQ-1 The developer or Project Applicant shall ensure all off-road construction equipment in excess of 50 horsepower used on-site by the developer or contractors is equipped with engines meeting the EPA Tier IV off-road engine emission standards. The construction contractor shall maintain a log of equipment use at the construction site with make, model, serial number, and certification level of each piece of construction equipment that will be available for review by City building inspection staff.

Source:

FIRSTCARBON SOLUTIONS™

Exhibit 1
Locations of Sensitive Receptors

28030009 • 03/2018 | 1_sensitive_receptors.cdr

CITY OF BURLINGAME • 619-625 CALIFORNIA DRIVE DEVELOPMENT
TECHNICAL MEMORANDUM FOR HEALTH RISK ASSESSMENT

Toxics Air Contaminants of Concern

Toxic air contaminants (TACs) are air pollutants present in miniscule amounts in the air that, if a person is exposed to them, could increase the chances of experiencing health problems. Exposures to TAC emissions can have both chronic long-term (over a year or longer) and acute short-term (over a period of hours) health impacts. The TACs of greatest concern are those that cause serious health problems or affect many people. Health problems can include cancer, respiratory irritation, nervous system problems, and birth defects. Some health problems occur very soon after a person inhales a TAC. These immediate effects may be minor, such as watery eyes, or they may be serious, such as life-threatening lung damage. Other health problems may not appear until many months or years after a person's first exposure to the TAC. Cancer is one example of a delayed health problem.

This assessment focuses on particulate pollution, which is a mixture of microscopic solids and liquid droplets suspended in air. This type of air pollution, also known as fine particulate matter, is made up of a number of components, including acids (such as nitrates and sulfates), organic chemicals, metals, soil or dust particles, and allergens (such as fragments of pollen or mold spores).

Fine particle pollution or $PM_{2.5}$ describes particulate matter that is 2.5 micrometers in diameter and smaller—one-thirtieth the diameter of a human hair. Fine particle pollution can be emitted directly or formed secondarily in the atmosphere. $PM_{2.5}$ health impacts are important because their size can be deposited deeply in the lungs causing respiratory effects.

For purposes of this study, exhaust emissions of $PM_{2.5}$ are represented as diesel particulate matter exhaust (DPM), a major component of $PM_{2.5}$. Studies indicate that DPM poses the greatest health risk among airborne TACs. A 10-year research program (ARB 1998)[1] demonstrated that DPM from diesel-fueled engines is a human carcinogen and that chronic (long-term) inhalation exposure to DPM poses a chronic long-term health risk. Although DPM is emitted by diesel-fueled internal combustion engines, the composition of the emissions varies, depending on engine type, operating conditions, fuel composition, lubricating oil, and whether an emission control system is present. Unlike the other TACs, however, no ambient monitoring data are available for DPM because no routine measurement method currently exists. The California Air Resources Board (ARB) has made preliminary concentration estimates based on a DPM exposure method. This method uses the ARB emissions inventory's PM_{10} database, ambient $PM_{2.5}$ monitoring data, and the results from several studies to estimate concentrations of DPM.

Health Risk Significance Thresholds

The BAAQMD 2017 CEQA Thresholds of Significance provide quantitative thresholds for both project-level impacts and cumulative impacts.[2] The health risk thresholds of significance applicable for this assessment are provided in Table 1 for a project-level TAC emission source impact as well as the cumulative impacts of all TAC sources located within a 1,000-foot radius of the project.

---

[1] ARB. 1998. The Toxic Air Contaminant Identification Process: Toxic Air Contaminant Emissions from Diesel-fueled Engines. Website: www.arb.ca.gov/toxics/dieseltac/factsht1.pdf.

[2] BAAQMD. May 2017. The CEQA Guidelines. Website: http://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en.

Table 1: Health Risk Thresholds of Significance

Metric	Project-Level Source Impact	Cumulative Source Impact
Cancer Risk	10 in one million	100 in one million (sources within a 1,000-foot zone of influence)
Non-Cancer Hazard Index	1.0	10.0 (sources within a 1,000-foot zone of influence)
Annual $PM_{2.5}$	0.3 $\mu g/m^3$	0.8 $\mu g/m^3$(sources within a 1,000-foot zone of influence)
Note: $\mu g/m^3$ = microgram per cubic meter Source: BAAQMD 2017 CEQA Thresholds of Significance Guidelines.		

Health Risk Assessment and Methodology

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

- Identifying the TACs that may be present in the air;
- Estimating the amount of TACs released from all sources, or the source of particular concern, using air samples or emission models;
- Estimating concentrations of TACs in air in the geographic area of concern by using air dispersion models with information about emissions, source locations, weather, and other factors; and
- Estimating the potential health impacts from the estimated concentrations of the TACs.

Thus, an HRA identifies the TACs that could affect public health, identifies the sources of the TAC emissions and quantifies the emissions, estimates where and the level of the emissions that are transported by prevailing meteorological conditions, and determines the potential health exposures to individuals affected by the TACs.

Estimation of Project-Level Construction Emissions

The $PM_{2.5}$ construction emissions were estimated using the CalEEMod Land Use Emission Model (Version 2016.3.2). The CalEEMod model provides a consistent platform for estimating construction and operational emissions from a wide variety of land use projects and is the methodology recommended by the BAAQMD for estimating project emissions. The project's construction emissions were derived from the emission estimates contained in Attachment A. The construction assumed the default assumptions built into the CalEEMod model for the type of land uses specific to the project in terms of construction schedule and construction equipment inventory.

Table 2 summarizes the unmitigated annual construction emissions of DPM (as $PM_{2.5}$ exhaust).

Table 2: Project Annual DPM (as $PM_{2.5}$ exhaust) Construction Emissions—No Mitigation

Year	On-site DPM (as $PM_{2.5}$ Exhaust) (tons/year)	Off-site DPM[(1)] (as $PM_{2.5}$ Exhaust) (tons/year)	Total $PM_{2.5}$ (tons/year)
Annual Construction Emissions (Without Mitigation)[(1)]			
2019	5.80E-02	6.60E-04	5.87E-02
2020	1.97E-02	1.60E-04	1.99E-02

Note:
(1) The off-site emissions are estimated over the construction vehicle travel route from the project, north along California Drive for approximately 2,500 feet.
Source: Attachment A.

Air Dispersion Modeling—Construction

An air dispersion model is a mathematical formulation that is used to estimate the air quality impacts at specific locations (receptors) surrounding a source of emissions given the rate of emissions and prevailing meteorological conditions. The air dispersion model applied in this assessment was the United States Environmental Protection Agency (EPA) AERMOD air dispersion model that is approved by the BAAQMD for air dispersion assessments. Specifically, the AERMOD model was used to estimate levels of TACs at sensitive receptor locations from the project's construction $PM_{2.5}$ exhaust emissions.

Two emission sources were used to represent the project's $PM_{2.5}$ construction emissions. One source represented the generation of on-site construction DPM emissions (as $PM_{2.5}$ exhaust) from the off-road construction equipment and was assumed to cover the entire construction area of approximately 0.45 acre. The emissions from the exhaust source were assumed to be emitted at a height of 5 meters above ground—to account for (1) the height of the top of the equipment exhaust stack where the emissions are released into the atmosphere and (2) the increase in the height of the emissions due to its heated exhaust. A second emission sources included the off-site DPM (as $PM_{2.5}$ exhaust) emissions from worker, haul truck, and vendor truck vehicles. The off-site vehicle emissions were represented in the AERMOD model as line volume sources with a release height of 3.1 meters. The off-site construction vehicles were assumed to travel from the project along Oak Grove Avenue and California Drive. Construction was assumed to take place on an 8-hour-per-day, 5-day-per-week basis during the period from 2019 to 2020.

Estimation of Cancer Risks

The BAAQMD has developed a set of guidelines[3] for estimating cancer risks that provide adjustment factors that emphasize the increased sensitivities and susceptibility of young children to exposures to TACs. These adjustment factors include age-sensitivity weighting factors, age-specific daily breathing rates, and age-specific time-at-home factors. The recommend method for the estimation of cancer risk is shown in the following equations with the various cancer risk adjustment factors provided in Table 3 for sensitive/ residential receptors.

[3] BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines. Website: http://www.baaqmd.gov/~/media/files /planning-and-research/rules-and-regs/workshops/2016/reg-2-5/hra-guidelines_clean_jan_2016-pdf.pdf?la=en.

$$\text{Cancer Risk} = C_{DPM} \times \text{Inhalation Exposure Factor}$$

Where:

Cancer Risk = Total individual excess cancer risk defined as the cancer risk a hypothetical individual faces if exposed to carcinogenic emissions from a particular source for specified exposure durations; this risk is defined as an excess risk because it is above and beyond the background cancer risk to the population; cancer risk is expressed in terms of risk per million exposed individuals.

C_{DPM} = Period average DPM air concentration calculated from the air dispersion model in $\mu g/m^3$

Inhalation is the most important exposure pathway to impact human health from DPM and the inhalation exposure factor is defined as follows:

$$\text{Inhalation Exposure Factor} = CPF \times EF \times ED\ AAF/AT$$

Where:

CPF = Inhalation cancer potency factor for the TAC: 1.1 $(mg/kg\text{-}day)^{-1}$ for DPM
EF = Exposure frequency (days/year)
ED = Exposure duration (years)
AAF = set of age-specific adjustment factors that include age sensitivity factors (ASF), daily breathing rates (DBR), and time at home factors (TAH)—see Table 3.
AT = Averaging time period over which exposure is averaged (days)

Table 3: Exposure Assumptions for Cancer Risk

Receptor Type	Exposure Frequency		Exposure Duration (years)	Age Sensitivity Factors (ASF)	Time at Home Factor (TAH) (%)	Daily Breathing Rate (DBR) [1] (L/kg-day)
	Hours/day	Days/year				
Sensitive/Residential—Infant						
3rd Trimester	24	350	0.25	10	85	361
0 to 1 year	24	350	1	10	85	1,090
1 to 2 years	24	350	1	10	85	1,090
Sensitive Receptor—Child						
3 to 16 years	24	350	2	3	73	572
Sensitive Receptor—Adult						
> 16 years	24	350	2	1	72	261

Notes:
[1] The daily breathing rates recommended by the BAAQMD for sensitive/residential receptors assume the 95th percentile breathing rates for all individuals less than 2 years of age and 80th percentile breathing rates for all older individuals.
(L/kg-day) = liters per kilogram body weight per day
Source: BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines. Website: http://www.baaqmd.gov/~/media/files/planning-and-research/rules-and-regs/workshops/2016/reg-2-5/hra-guidelines_clean_jan_2016-pdf.pdf?la=en.

Note that in computing cancer risks during construction, the exposure duration is the length of the construction time which is approximately 18 months.

Estimation of Non-Cancer Hazards

An evaluation of the potential non-cancer effects of chronic chemical exposures was also conducted. Adverse health effects are evaluated by comparing the annual receptor concentration of each chemical compound with the appropriate reference exposure limit (REL). Available RELs promulgated by the California Office of Environmental health Hazards Assessment (OEHHA) were considered in the assessment.

To quantify non-carcinogenic impacts, the hazard index approach was used.

$$HI = C_{ann}/REL$$

Where:

HI = chronic hazard index
C_{nn} = annual average concentration of TAC as derived from the air dispersion model ($\mu g/m^3$)
REL = reference exposure level above which a significant impact is assumed to occur ($\mu g/m^3$)

The hazard index assumes that chronic sub-threshold exposures adversely affect a specific organ or organ system (toxicological endpoint). For each discrete chemical exposure, target organs presented in regulatory guidance were used. To calculate the hazard index, each chemical concentration or dose is divided by the appropriate toxicity reference exposure level. For compounds affecting the same toxicological endpoint, this ratio is summed. Where the total equals or exceeds 1, a health hazard is presumed to exist. For purposes of this assessment, the TAC of concern is DPM for which the OEHHA has defined a REL for DPM of 5 $\mu g/m^3$. The principal toxicological endpoint assumed in this assessment was through inhalation.

Estimation of $PM_{2.5}$ Hazards

The BAAQMD has included significance thresholds for $PM_{2.5}$ because of the recent studies that show health impacts from exposure to this pollutant. The construction emissions of $PM_{2.5}$ incorporated into this assessment included DPM (as $PM_{2.5}$ exhaust).

Estimates of Health Risks and Hazards from Project Construction

The estimated health and hazard impacts at the maximum impacted sensitive receptor from the project's construction emissions are provided in Table 4. The maximum impacted sensitive receptor (MIR) was found at an existing residence located approximately 22 feet southwest of the project along the Oak Grove Avenue. As noted from Table 4, prior to the application of mitigation, the project's construction DPM emissions would exceed the BAAQMD's cancer risk and annual $PM_{2.5}$ thresholds of significance at the maximum impacted receptor. Thus, project construction would result in a significant impact to nearby sensitive receptors. Mitigation Measure (MM) AQ-1 is necessary to reduce the project construction DPM emissions to levels less than the cancer risk significance threshold.

MM AQ-1 The developer or Project Applicant shall ensure all off-road construction equipment in excess of 50 horsepower used on-site by the developer or contractors is equipped with engines meeting the EPA Tier IV off-road engine emission standards. The construction contractor shall maintain a log of equipment use at the construction site with make, model, serial number, and certification level of each piece of construction equipment that will be available for review by City building inspection staff.

Table 5 provides the estimated health risks and hazards after application of MM AQ-1. As noted from Table 5, the project's mitigated construction impacts would not exceed any BAAQMD threshold of significance.

Table 4: Estimated Health Risks and Hazards: Project Construction—No Mitigation

Source	Cancer Risk (risk per million)	Chronic Non-Cancer Hazard Index[(2)]	Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)
Risks and Hazards at the Maximum Impacted Sensitive Receptor (MIR): Infant[(1)]	80.3	0.08	0.40
Risks and Hazards at the Maximum Impacted Sensitive Receptor (MIR): Child[(1)]	12.7	0.08	0.40
Risks and Hazards at the Maximum Impacted Sensitive Receptor (MIR): Adult[(1)]	2.0	0.08	0.40
BAAQMD Thresholds of Significance	10	1	0.30
Exceeds Individual Source Threshold?	**Yes**	No	**Yes**

Notes:
(1) Maximum impacted sensitive receptor is a residential building located approximately 22 feet southwest of the project at Oak Grove Ave.
(2) Chronic non-cancer hazard index was estimated by dividing the annual DPM concentration (as $PM_{2.5}$ exhaust) by the REL of 5 $\mu g/m^3$.
Source: Attachment A.

Table 5: Estimated Health Risks and Hazards: Project Construction—With Mitigation

Source	Cancer Risk (risk per million)	Chronic Non-Cancer Hazard Index[(2)]	Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)
Risks and Hazards at the Maximum Impacted Sensitive Receptor (MIR): Infant[(1)]	3.8	<0.01	0.02
Risks and Hazards at the Maximum Impacted Sensitive Receptor (MIR): Child[(1)]	0.7	<0.01	0.02
Risks and Hazards at the Maximum Impacted Sensitive Receptor (MIR): Adult[(1)]	0.1	<0.01	0.02
BAAQMD Thresholds of Significance	10	1	0.30

Table 5 (cont.): Estimated Health Risks and Hazards: Project Construction—With Mitigation

Source	Cancer Risk (risk per million)	Chronic Non-Cancer Hazard Index[(2)]	Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)
Exceeds Individual Source Threshold?	No	No	No

Notes:
(1) Maximum impacted sensitive receptor is a residential building located approximately 22 feet southwest of the project at Oak Grove Ave.
(2) Chronic non-cancer hazard index was estimated by dividing the annual DPM concentration (as $PM_{2.5}$ exhaust) by the REL of 5 $\mu g/m^3$.
Source: Attachment A.

Estimates of Health Risks and Hazards from Project Operations

The project proposes to develop a 26-unit live/work building which would generate 123 net trips per day, as provided by Transportation Analysis for 619–625 California Drive Live/Work Development in Burlingame, California. Trips are generated for residents and retail store. These trips are generated by automobiles, 99 percent of which are fueled by gasoline. Therefore, the project would not generate significant amounts of DPM emissions during operation. Thus, the project would not result in significant health impacts on nearby sensitive receptors during operation. Impacts would be less than significant.

Estimates of Cumulative Health Risks and Hazards

The BAAQMD also recommends assessing the potential cumulative health impacts from sources of TACs within 1,000 feet of a project. To implement this recommendation, a screening level assessment was conducted to determine cumulative health impacts during construction and operation. The screening analysis applied a series of screening tools developed by the BAAQMD to provide conservative estimates of how much existing TAC sources would contribute to cancer risk, chronic HI, and/or fine particulate matter ($PM_{2.5}$) concentrations in a community. For project construction, the individual health risks associated with each source are summed to find the cumulative impact at the location of the project construction MIR. Based on proximity to the project site, the MIR was assumed to be a resident located at Oak Grove Avenue approximately 22 feet southwest of the project site (see Exhibit 2).

The cumulative health risk assessment identified five existing stationary sources of TAC emissions within 1,000 feet of the MIR (Table 7 and Exhibit 2). Health risk screening values at the MIR from project construction from the cumulative TAC emission sources were determined using the following BAAQMD screening tools:

- **Surface Street Screening Tables.** BAAQMD pre-calculated potential cancer risks and $PM_{2.5}$ concentration increases for each county within their jurisdiction for roadways that meet BAAQMD's "major roadway" criteria of 10,000 vehicles or 1,000 trucks per day. Risks are assessed by roadway volume, roadway direction, and distance to sensitive receptors. City of Burlingame

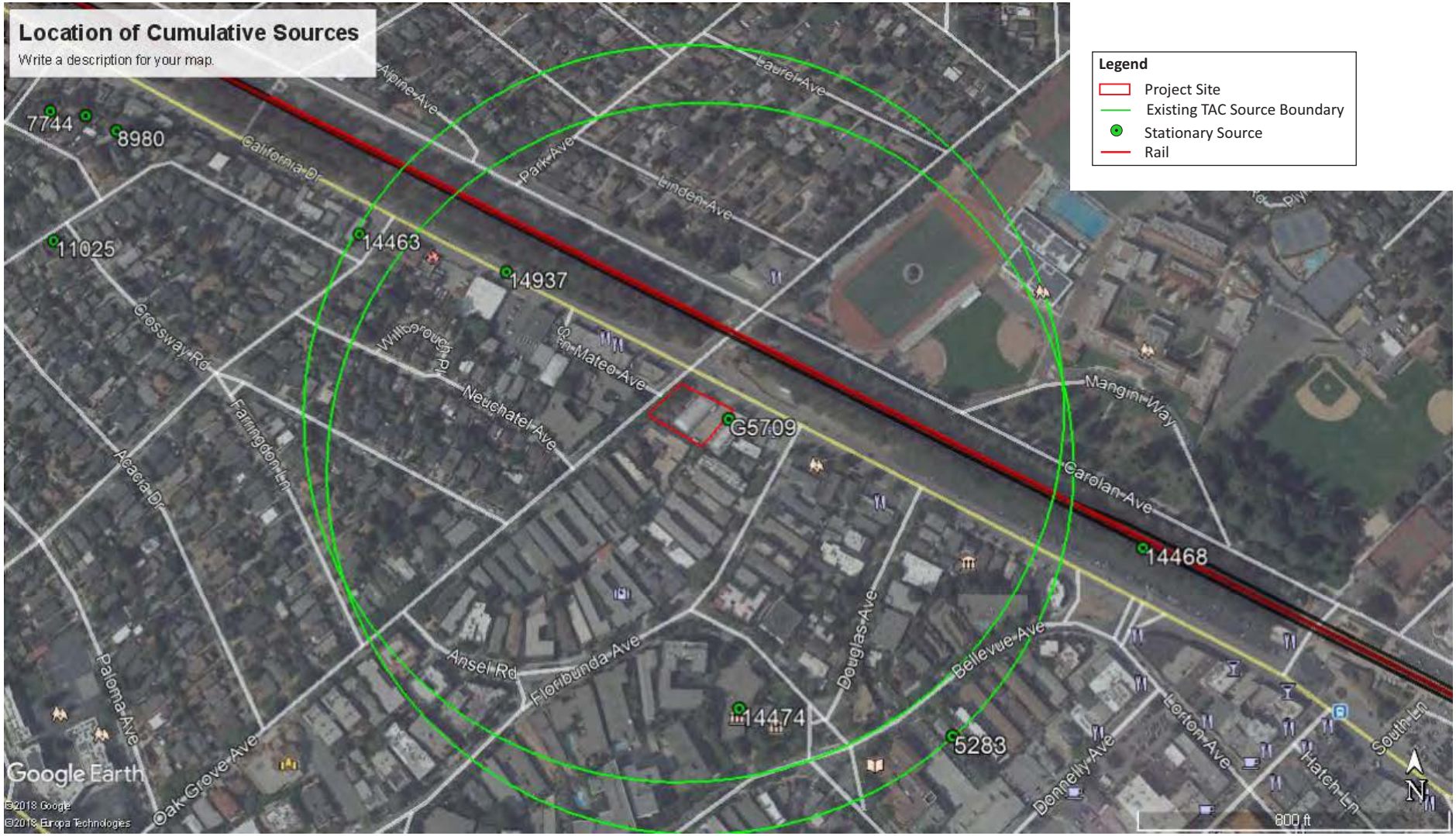
Traffic Engineering Department does not provide traffic counts for the California Drive and Oak Grove Avenue, which are located within 1,000 feet of the site boundary.

- **Freeway Screening Analysis Tool**. BAAQMD prepared a Google Earth file that contains pre-estimated cancer risk, hazard index, and $PM_{2.5}$ concentration increases for highways within the Bay Area. Risks are provided by roadway link and are estimated based on elevation and distance to the sensitive receptor. There is no freeway located within 1,000 feet of the site boundary.
- **Stationary Source Risk and Hazard Screening Tool**. BAAQMD prepared a Google Earth file that contains the locations of all stationary sources within the Bay Area that have BAAQMD permits. For each emissions source, BAAQMD provides conservative estimates of cancer risk, non-cancer hazards, and $PM_{2.5}$ concentrations. There are five existing stationary sources located within 1,000 feet of the site boundary, as listed in Table 6.

Table 6: Description Sources of TAC Emissions

Source Type	Source ID	Street Address	Distance from Project
Gasoline Station	G5709	601 California Drive	60 feet East
Dry Cleaner	14937	741 California Drive	680 feet Northwest
Diesel Generator	14463	799 California Drive	1000 feet Northwest
Diesel Generator	14474	501 Primrose Road	720 feet South
Dry Cleaner	5283	507 California Drive	950 feet Southeast
Source: BAAQMD. 2012. Tools and Methodologies. Website: http://www.baaqmd.gov/plans-and-climate/california-environmental-quality-act-ceqa/ceqa-tools. Accessed March 15, 2018.			

In addition to existing stationary TAC sources, a Caltrain/Freight rail line is located 180 feet north and northeast of the site boundary. Because of the proximity of the rail line to the proposed project, potential health risks to future residents at the proposed project from DPM emissions from the Caltrain/Freight diesel locomotive engines were evaluated for potential health impacts. Currently, all Caltrain's trains are using diesel locomotives. Based on the current Caltrain schedule, there are 92 passenger trains passing the project site during weekday and 26 trains during the weekend. In addition, there are two diesel freight trains from Union Pacific Railroad that also use this rail line on a daily basis. The passenger trains and freight trains are assumed to operate 24 hours a day and 7 days a week.



Source:

FIRSTCARBON SOLUTIONS™

Exhibit 2
Locations of Cumulative Sources

Development of the operating locomotive profiles for the Caltrain locomotives were obtained from Caltrain website[4] while operating profiles for the diesel freight locomotives was based on published data from the Union Pacific Railroad. The U.S. Department of Transportation Crossing Inventory Report[5] at the Oak Grove Avenue Crossing in Burlingame indicates a locomotive speed range of between 40 and 79 miles per hour (mph). Considering the distance from project site to the nearby Caltrain stations are 0.33 mile to the south and 0.75 mile to the north, this analysis assumed an average crossing speed for passenger trains of 40 mph and freight trains 60 mph. DPM emissions from diesel engines were calculated using emission factors obtained from Caltrain's Peninsula Corridor Electrification Project (PCEP) EIR adopted in January 2015[6] and EPA Emission Factors for Locomotive, 2009.[7] This HRA estimated the cancer risks assuming a base year of 2019. Detailed assumptions and data information are provided in Attachment B.

Caltrain is currently undergoing a comprehensive modernization program. The Caltrain Modernization Program (CalMod) includes electrification and other projects that will upgrade the performance, efficiency, capacity, safety and reliability of Caltrain's service. Electrification provides the foundation on which future CalMod improvements are based, including full conversion to an electric fleet, platform and station improvements, the extension of service to Downtown San Francisco, and other projects that allow Caltrain to grow and evolve with the Bay Area. The electrification improvements include converting diesel-hauled trains to Electric Multiple Unit (EMU) trains. Initially, Caltrain plans to replace approximately 75 percent of the diesel fleet with new EMUs by year 2022. Caltrain has also confirmed that Caltrain will operate a mixed fleet of electric and diesel trains after 2022. Caltrain's stated long-term goal is to fully electrify the fleet, but funding would need to be identified.

The analysis of potential health impacts from the Caltrain and diesel freight locomotives conservatively assumed (in terms of over-stating impacts) that the current fleet of diesel locomotive emissions would remain at their 2019 emission levels into the future. This is a conservative worst-case assumption from two important considerations:

- Diesel locomotive emissions are expected to decline in the future as a result of equipment turnover and the requirements to meet the current USEPA locomotive emission standards; and
- The implementation of the CalMod will result in substantial reductions in Caltrain locomotive emissions as a result of the replacement of diesel locomotives with electrified locomotives.

The cumulative health risk results are summarized in Table 7 during project construction and Table 8 during project operation. Note that the cancer risks estimated from the BAAQMD assessment tools (roadways and permitted stationary sources) are based on an older set of exposure parameters that do not reflect the current BAAQMD cancer risk parameters dealing with daily breathing rates, time at home factors, and exposure duration. The cancer risks estimated from the BAAQMD's assessment tools for

---

4 Caltrain Commute Fleet. Website: https://cumminsengines.com/cummins-qsk19r-to-power-nippon-sharyo-dmu.
5 Federal Railroad Administration Crossing Inventory. Website: http://safetydata.fra.dot.gov/officeofsafety/publicsite/crossing/xingqryloc.aspx.
6 Peninsula Corridor Electrification Project Final EIR. January 2015. Website: http://www.caltrain.com/Assets/Caltrain+Modernization+Program/FEIR/App+B+Air+Quality+and+Greenhouse.pdf.
7 EPA 2009. Emission Factors for Locomotives. EPA-420-F09-025.

these TAC emission sources, therefore, were increased by a value of 1.12 to incorporate the BAAQMD's newest cancer risk guidance. The scaling factor of 1.12 represents the ratio of the cancer risk estimated with the current BAAQMD cancer risk guidance to the previous BAAQMD cancer risk guidance.

As noted from Table 7, the cumulative impacts from the project construction and existing sources of TACs would be less than the BAAQMD's cumulative thresholds of significance.

Table 7: Summary of the Cumulative Health Impacts at the MIR during Construction

Source	Source Type	Distance from MIR[1] (feet)	Cancer Risk (per million)	Chronic HI	$PM_{2.5}$ Concentration ($\mu g/m^3$)
Project					
Construction (with mitigation)	Diesel Construction Equipment	22	3.8	<0.01	0.02
Existing Stationary Sources (BAAQMD Facility Number)[2],[3]					
G5709	Gas Station	164	2.5	0.02	ND
14937	Dry Cleaner	646	0.0	0.0	0.0
14463	Diesel Generator	1052	2.0	0.02	0.01
14474	Diesel Generator	730	3.6	<0.01	0.01
5283	Dry Cleaner	1099	10.5	0.03	0.0
Caltrain/Freight Railroad					
Caltrain/Freight[3]	Diesel Locomotives	344	9.1	<0.01	0.03
Cumulative Health Risks					
Cumulative Total with Project Construction			31.5	0.08	0.07
BAAQMD's Cumulative Thresholds of Significance			**100**	**10**	**0.8**
Threshold Exceedance?			No	No	No

Notes:
[1] The MIR is a resident adjacent to project site, 22 feet southwest of the site along Oak Grove Ave.
[2] Cancer risks reflect the current BAAQMD cancer risk guidance for diesel generators and gasoline stations
[3] Assumes emissions remain constant with time
ND = no data available
Source: Attachment B and E.

Table 8 shows the cumulative health impacts from the existing TAC sources for future project on-site residents would not exceed the BAAQMD's cumulative threshold of significance.

Table 8: Summary of the Cumulative Health Impacts for On-site Residents during Project Operation

Source	Source Type	Distance from MIR[1] (feet)	Cancer Risk (per million)	Chronic HI	$PM_{2.5}$ Concentration ($\mu g/m^3$)
Existing Stationary Sources (BAAQMD Facility Number)[2],[3]					
G5709	Gas Station	60	8.7	0.02	ND
14937	Dry Cleaner	680	0.0	0.0	0.0
14463	Diesel Generator	1000	2.0	0.02	0.01
14474	Diesel Generator	720	3.6	<0.01	0.01
5283	Dry Cleaner	950	10.5	0.03	0.0
Caltrain/Freight Railroad					
Caltrain/Freight[3]	Diesel Locomotives	180	16.9	<0.01	0.03
Cumulative Health Risks					
Cumulative Total with Project Construction			41.7	0.07	0.05
BAAQMD's Cumulative Thresholds of Significance			**100**	**10**	**0.8**
Threshold Exceedance?			No	No	No

Notes:
(1) MIR is the future on-site residents.
(2) Cancer risks reflect the current BAAQMD cancer risk guidance. The existing stationary sources within 1,000 feet of project boundary are included.
(3) Assumes emissions remain constant with time
ND = no data available
Source: Attachments B and E.

It should be noted that the cancer risks assuming the implementation of the CalMod Caltrain modernization program with a 75 percent replacement of diesel trains by electric trains by 2022 would result in a maximum cancer risk to the on-site project residences of 3.7 of one million.

Thus on the basis of the results provided in Table 7 and Table 8, the cumulative health risk impacts from project construction and operation would be less than significant.

Ruben Hurin
March 22, 2018

Attachment A:
DPM Emissions and Cancer Risks during Construction

Burlingame

No Mitigation

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Construction Scheduling **2019**

8	hours/day	
5	days/week	
52	weeks/year	*start from 1/1/2019
2080	hours/year	

Onsite Construction Area Source Size (m2): 1766.6 from AERMOD

Onsite Construction PM2.5 Emissions

2019

Construction Activity	Onsite Annual DPM Exhaust Emissions (tons/year)	Onsite Annual DPM Exhaust Emissions (g/sec)	Onsite DPM Source Exhaust Emissions (g/m2-sec)
Demolition	1.970E-03	2.389E-04	1.352E-07
Site Preparation	4.100E-03	4.972E-04	2.814E-07
Grading	1.530E-03	1.855E-04	1.050E-07
Building Construction	5.040E-02	6.112E-03	3.459E-06
Total	**5.800E-02**	**7.033E-03**	**3.981E-06**

Offsite Construction Vehicle PM2.5 Emissions

2019

Construction Activity	Offsite Hauling Annual DPM Exhaust Emissions (tons/year)	Offsite Vendor Annual DPM Exhaust Emissions (tons/year)	Offsite Workers Annual DPM Exhaust Emissions (tons/year)	
Demolition	3.000E-05	0.000E+00	0.000E+00	
Site Preparation	1.100E-04	0.000E+00	0.000E+00	
Grading	0.000E+00	0.000E+00	0.000E+00	
Building Construction	0.000E+00	4.000E-04	1.200E-04	
Total (tons/year)	**1.400E-04**	**4.000E-04**	**1.200E-04**	**6.600E-04**
Trip Distance assumed in CalEEMod (mi)	20.0	7.3	10.8	
Offsite Project Trip Distance Along Roadway Segment Project>California Drive (mi)	0.47	0.47	0.47	
Offsite Project Emissions Along Roadway Segment Project>California Drive (tons/year)	**3.276E-06**	**2.564E-05**	**5.200E-06**	

Offsite Emissions Along Roadway Segment Analyzed	
Total Offsite Project Exhaust Emissions (tons/year)	**3.412E-05**
Total Offsite Project Exhaust Emissions (grams/sec)	**4.137E-06**

Onsite Exhaust Emissions (tons/year)	**5.800E-02**
Total Onsite Emissions (tons/year)	**5.800E-02**
Onsite Exhaust Emissions (g/m2-sec)	**3.981E-06**

Total PM@2.5 Exhaust (tons/year)	5.803E-02

Burlingame

No Mitigation

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Construction Scheduling

2020		
8	hours/day	
5	days/week	**end at 6/4/2020
26	weeks/year	
1040	hours/year	

Onsite Construction Area Source Size (m2): 1766.60

Onsite Construction PM2.5 Emissions

2020		Onsite	Onsite	Onsite DPM
	Construction Activity	**Annual DPM**	**Annual DPM**	**Source Exhaust**
		Exhaust Emissions	**Exhaust Emissions**	**Emissions**
		(tons/year)	**(g/sec)**	**(g/m2-sec)**
	Building Construction	1.830E-02	4.438E-03	2.512E-06
	Paving	5.900E-04	1.431E-04	8.100E-08
	Architectural Coating	7.800E-04	1.892E-04	1.071E-07
	Total	**1.967E-02**	**4.770E-03**	**2.700E-06**

Offsite Construction Vehicle PM2.5 Emissions

2020		Offsite Hauling	Offsite Vendor	Offsite Workers	
		Annual DPM	**Annual DPM**	**Annual DPM**	
	Construction Activity	**Exhaust Emissions**	**Exhaust Emissions**	**Exhaust Emissions**	
		(tons/year)	**(tons/year)**	**(tons/year)**	
	Building Construction	0.000E+00	1.100E-04	5.000E-05	
	Paving	0.000E+00	0.000E+00	0.000E+00	
	Architectural Coating	0.000E+00	0.000E+00	0.000E+00	
	Total (tons/year)	**0.000E+00**	**1.100E-04**	**5.000E-05**	**1.600E-04**
	Trip Distance assumed in CalEEMod (mi)	20.0	7.3	10.8	
	Offsite Project Trip Distance Project>California Drive (mi)	0.47	0.47	0.47	
	Offsite Project Emissions Project>California Drive (tons/year)	**0.000E+00**	**7.051E-06**	**2.166E-06**	

Emissions Along Roadway Segment	
Offsite Project Exhaust Emissions (tons/year)	**9.218E-06**
Offsite Project Exhaust Emissions (grams/sec)	**2.236E-06**
Offsite Project Fugitive Emissions (tons/year)	**0.000E+00**
Offsite Project Fugitive Emissions (grams/sec)	**0.000E+00**

Onsite Exhaust Emissions (tons/year)	**1.967E-02**
Total Onsite Emissions (tons/year)	**1.967E-02**
Onsite Exhaust Emissions (g/m2-sec)	**2.700E-06**

Total PM@2.5 Exhaust (tons/year)	1.968E-02
Total PM2.5 (tons/year)	**1.968E-02**

Burlingame

2019 **No Mitigation** **Offsite Sensitive Receptors**

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate: 3.98116E-06
Annual Average Offsite DPM Exhaust Emission Rate: 4.13703E-06

X (m)	Y (m)	Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
557237.31	4159639.73	0.21944	0.08736	0.00004	1.65481E-05	0.08738
557240.38	4159649.39	0.20372	0.08110	0.00005	2.06852E-05	0.08112
557228.08	4159655.54	0.13189	0.05251	0.00005	2.06852E-05	0.05253
557218.42	4159660.81	0.09839	0.03917	0.00005	2.06852E-05	0.03919
557215.35	4159649.39	0.10625	0.04230	0.00004	1.65481E-05	0.04232
557208.76	4159636.66	0.10323	0.04110	0.00003	1.24111E-05	0.04111
557223.25	4159632.27	0.15557	0.06193	0.00003	1.24111E-05	0.06195
557213.15	4159625.24	0.12474	0.04966	0.00003	1.24111E-05	0.04967
557202.62	4159616.02	0.10082	0.04014	0.00002	8.27407E-06	0.04015
557192.08	4159607.68	0.08176	0.03255	0.00002	8.27407E-06	0.03256
557177.59	4159617.34	0.06041	0.02405	0.00002	8.27407E-06	0.02406
557186.81	4159625.24	0.06968	0.02774	0.00002	8.27407E-06	0.02775
557177.15	4159637.1	0.05523	0.02199	0.00002	8.27407E-06	0.02200
557187.69	4159641.05	0.06498	0.02587	0.00003	1.24111E-05	0.02588
557198.22	4159646.32	0.0763	0.03038	0.00003	1.24111E-05	0.03039
557205.25	4159662.13	0.07477	0.02977	0.00005	2.06852E-05	0.02979
557190.76	4159663.89	0.05704	0.02271	0.00004	1.65481E-05	0.02273
557168.36	4159641.05	0.04688	0.01866	0.00002	8.27407E-06	0.01867
557162.66	4159631.83	0.04477	0.01782	0.00002	8.27407E-06	0.01783
557155.19	4159640.17	0.03868	0.01540	0.00002	8.27407E-06	0.01541
557259.7	4159617.34	0.68173	0.27141	0.00003	1.24111E-05	0.27142
557267.17	4159612.07	0.85452	0.34020	0.00002	8.27407E-06	0.34021
557275.51	4159606.36	0.97169	0.38685	0.00002	8.27407E-06	0.38685
557285.17	4159601.53	1.00929	0.40181	0.00002	8.27407E-06	0.40182
557277.7	4159590.99	0.66885	0.26628	0.00002	8.27407E-06	0.26629
557268.92	4159582.21	0.43757	0.17420	0.00001	4.13703E-06	0.17421
557257.51	4159590.11	0.42566	0.16946	0.00002	8.27407E-06	0.16947
557268.04	4159596.26	0.64768	0.25785	0.00002	8.27407E-06	0.25786
557255.31	4159606.36	0.53878	0.21450	0.00002	8.27407E-06	0.21451
557245.21	4159600.65	0.34849	0.13874	0.00002	8.27407E-06	0.13875
557304.05	4159587.04	0.57257	0.22795	0.00001	4.13703E-06	0.22795
557313.27	4159582.21	0.41546	0.16540	0.00001	4.13703E-06	0.16541
557324.69	4159576.06	0.28428	0.11318	0.00001	4.13703E-06	0.11318
557335.23	4159568.16	0.19649	0.07823	0.00001	4.13703E-06	0.07823
557324.25	4159555.86	0.14957	0.05955	0.00001	4.13703E-06	0.05955
557308.88	4159565.96	0.23946	0.09533	0.00001	4.13703E-06	0.09534
557297.46	4159576.06	0.39992	0.15921	0.00001	4.13703E-06	0.15922
557287.37	4159568.16	0.3177	0.12648	0.00001	4.13703E-06	0.12649
557308.88	4159554.55	0.16829	0.06700	0.00001	4.13703E-06	0.06700
557332.93	4159544.45	0.11182	0.04452	0.00001	4.13703E-06	0.04452
557380.02	4159577.38	0.14321	0.05701	0.00001	4.13703E-06	0.05702
557388.8	4159572.55	0.11863	0.04723	0.00001	4.13703E-06	0.04723
557372.55	4159563.33	0.12373	0.04926	0.00001	4.13703E-06	0.04926
557377.38	4159554.11	0.09955	0.03963	0.00001	4.13703E-06	0.03964
557387.48	4159547.08	0.08145	0.03243	0.00001	4.13703E-06	0.03243
557397.14	4159542.69	0.07096	0.02825	0.00001	4.13703E-06	0.02825
557363.33	4159548.4	0.09727	0.03872	0.00001	4.13703E-06	0.03873
557370.36	4159541.81	0.08159	0.03248	0.00001	4.13703E-06	0.03249
557380.02	4159536.54	0.07043	0.02804	0.00001	4.13703E-06	0.02804
557387.04	4159530.39	0.06117	0.02435	0.00000	0.00000E+00	0.02435
557231.16	4159591.87	0.20949	0.08340	0.00002	8.27407E-06	0.08341
557240.38	4159585.28	0.25082	0.09986	0.00001	4.13703E-06	0.09986
557248.28	4159575.62	0.2577	0.10259	0.00001	4.13703E-06	0.10260
557255.31	4159567.28	0.24609	0.09797	0.00001	4.13703E-06	0.09798
557262.77	4159557.62	0.2152	0.08567	0.00001	4.13703E-06	0.08568
557278.58	4159554.98	0.21483	0.08553	0.00001	4.13703E-06	0.08553
557288.24	4159548.84	0.17555	0.06989	0.00001	4.13703E-06	0.06989
557296.15	4159541.81	0.13768	0.05481	0.00001	4.13703E-06	0.05482
557306.25	4159536.1	0.10859	0.04323	0.00001	4.13703E-06	0.04324
557315.03	4159528.2	0.08345	0.03322	0.00001	4.13703E-06	0.03323
557303.59	4159768.64	0.02659	0.01059	0.00001	4.13703E-06	0.01059
557313.32	4159775.93	0.02307	0.00918	0.00001	4.13703E-06	0.00919
557324.26	4159785.66	0.01937	0.00771	0.00001	4.13703E-06	0.00772
557335.2	4159777.76	0.01977	0.00787	0.00001	4.13703E-06	0.00787
557301.16	4159794.78	0.01962	0.00781	0.00001	4.13703E-06	0.00782
557280.5	4159805.11	0.01865	0.00742	0.00001	4.13703E-06	0.00743
557260.44	4159790.52	0.02232	0.00889	0.00001	4.13703E-06	0.00889
557268.34	4159811.19	0.01781	0.00709	0.00001	4.13703E-06	0.00709
557222.76	4159585.09	0.16011	0.06374	0.00001	4.13703E-06	0.06375
557233.7	4159575.97	0.18958	0.07547	0.00001	4.13703E-06	0.07548
557238.56	4159566.86	0.18434	0.07339	0.00001	4.13703E-06	0.07339
557246.46	4159557.13	0.17734	0.07060	0.00001	4.13703E-06	0.07061
557215.46	4159571.72	0.12303	0.04898	0.00001	4.13703E-06	0.04898
557230.05	4159553.49	0.13135	0.05229	0.00001	4.13703E-06	0.05230
557240.38	4159541.94	0.12676	0.05047	0.00001	4.13703E-06	0.05047
557270.16	4159539.51	0.14621	0.05821	0.00001	4.13703E-06	0.05821
557280.5	4159531	0.11921	0.04746	0.00001	4.13703E-06	0.04746
557291.44	4159520.06	0.08893	0.03540	0.00001	4.13703E-06	0.03541
557300.55	4159512.76	0.07165	0.02853	0.00001	4.13703E-06	0.02853
557268.34	4159526.74	0.11192	0.04456	0.00001	4.13703E-06	0.04456
557288.4	4159508.51	0.07322	0.02915	0.00001	4.13703E-06	0.02915
557200.88	4159563.82	0.08784	0.03497	0.00001	4.13703E-06	0.03497
557211.21	4159552.27	0.09568	0.03809	0.00001	4.13703E-06	0.03810
557220.33	4159540.72	0.09712	0.03867	0.00001	4.13703E-06	0.03867
557244.03	4159521.27	0.0939	0.03738	0.00001	4.13703E-06	0.03739
557261.65	4159513.98	0.08819	0.03511	0.00001	4.13703E-06	0.03511
557271.38	4159502.43	0.07156	0.02849	0.00001	4.13703E-06	0.02849
557244.64	4159509.12	0.0781	0.03109	0.00001	4.13703E-06	0.03110
557258.01	4159501.22	0.07127	0.02837	0.00001	4.13703E-06	0.02838
557283.53	4159491.49	0.05677	0.02260	0.00000	0.00000E+00	0.02260
557271.38	4159479.94	0.05036	0.02005	0.00000	0.00000E+00	0.02005
557355.86	4159534.04	0.07294	0.02904	0.00001	4.13703E-06	0.02904
557366.19	4159531	0.06625	0.02638	0.00001	4.13703E-06	0.02638
557377.13	4159525.53	0.05781	0.02302	0.00000	0.00000E+00	0.02302
557385.03	4159514.59	0.04661	0.01856	0.00000	0.00000E+00	0.01856
557353.43	4159518.84	0.05337	0.02125	0.00000	0.00000E+00	0.02125
557377.74	4159501.22	0.03722	0.01482	0.00000	0.00000E+00	0.01482
557343.71	4159507.9	0.04533	0.01805	0.00000	0.00000E+00	0.01805
557356.47	4159501.82	0.03886	0.01547	0.00000	0.00000E+00	0.01547
557369.23	4159492.1	0.03225	0.01284	0.00000	0.00000E+00	0.01284
557336.41	4159496.96	0.03961	0.01577	0.00000	0.00000E+00	0.01577
557353.43	4159479.94	0.02786	0.01109	0.00000	0.00000E+00	0.01109
557327.3	4159481.16	0.03366	0.01340	0.00000	0.00000E+00	0.01340
557338.84	4159472.65	0.02726	0.01085	0.00000	0.00000E+00	0.01085
557319.39	4159470.22	0.03096	0.01233	0.00000	0.00000E+00	0.01233
557333.98	4159459.28	0.02376	0.00946	0.00000	0.00000E+00	0.00946
557414.82	4159540.72	0.06079	0.02420	0.00000	0.00000E+00	0.02420
557409.35	4159527.35	0.05263	0.02095	0.00000	0.00000E+00	0.02095
557434.27	4159539.51	0.05163	0.02055	0.00000	0.00000E+00	0.02055
557444.6	4159533.43	0.04508	0.01795	0.00000	0.00000E+00	0.01795
557423.32	4159525.53	0.0476	0.01895	0.00000	0.00000E+00	0.01895
557436.09	4159520.06	0.04153	0.01653	0.00000	0.00000E+00	0.01653
557411.17	4159514.59	0.04351	0.01732	0.00000	0.00000E+00	0.01732
557421.5	4159504.86	0.03667	0.01460	0.00000	0.00000E+00	0.01460
557396.58	4159503.65	0.03806	0.01515	0.00000	0.00000E+00	0.01515
557389.9	4159491.49	0.0314	0.01250	0.00000	0.00000E+00	0.01250
557416.64	4159490.88	0.0305	0.01214	0.00000	0.00000E+00	0.01214
557407.52	4159478.73	0.02572	0.01024	0.00000	0.00000E+00	0.01024
557168.06	4159588.74	0.05295	0.02108	0.00001	4.13703E-06	0.02108
557148	4159602.72	0.0386	0.01537	0.00001	4.13703E-06	0.01537
557152.25	4159573.54	0.04093	0.01629	0.00001	4.13703E-06	0.01630
557141.31	4159563.82	0.03453	0.01375	0.00001	4.13703E-06	0.01375
557129.16	4159560.17	0.02928	0.01166	0.00001	4.13703E-06	0.01166
557187.5	4159554.7	0.06641	0.02644	0.00001	4.13703E-06	0.02644
557197.23	4159543.76	0.07176	0.02857	0.00001	4.13703E-06	0.02857
557209.99	4159532.82	0.07777	0.03096	0.00001	4.13703E-06	0.03097
557217.29	4159523.7	0.07688	0.03061	0.00001	4.13703E-06	0.03061
557208.78	4159513.98	0.06326	0.02518	0.00001	4.13703E-06	0.02519
557199.66	4159508.51	0.05466	0.02176	0.00001	4.13703E-06	0.02177
557171.7	4159541.33	0.04895	0.01949	0.00001	4.13703E-06	0.01949
557182.03	4159531.61	0.05337	0.02121	0.00001	4.13703E-06	0.02121
557189.94	4159523.7	0.05571	0.02218	0.00001	4.13703E-06	0.02218
557227.62	4159505.47	0.06746	0.02686	0.00001	4.13703E-06	0.02686
557234.91	4159497.57	0.06348	0.02527	0.00001	4.13703E-06	0.02528
557242.81	4159489.06	0.05823	0.02318	0.00000	0.00000E+00	0.02318
557248.89	4159481.77	0.05326	0.02120	0.00000	0.00000E+00	0.02120
557254.36	4159473.87	0.04787	0.01906	0.00000	0.00000E+00	0.01906
557248.89	4159465.36	0.04293	0.01709	0.00000	0.00000E+00	0.01709
557235.52	4159458.67	0.03922	0.01561	0.00000	0.00000E+00	0.01561
557232.48	4159471.43	0.04527	0.01802	0.00000	0.00000E+00	0.01802
557224.58	4159479.34	0.04828	0.01922	0.00000	0.00000E+00	0.01922
557216.68	4159487.84	0.05095	0.02028	0.00000	0.00000E+00	0.02028
557217.29	4159497.57	0.05704	0.02271	0.00001	4.13703E-06	0.02271
557410.56	4159576.58	0.09209	0.03666	0.00001	4.13703E-06	0.03667
557406.91	4159566.86	0.08852	0.03524	0.00001	4.13703E-06	0.03525
557402.66	4159559.56	0.08555	0.03406	0.00001	4.13703E-06	0.03406
557484.22	4159816.64	0.00659	0.00262	0.00000	0.00000E+00	0.00262
557496.09	4159831.48	0.00567	0.00226	0.00000	0.00000E+00	0.00226
557572.3	4159760.22	0.0076	0.00303	0.00000	0.00000E+00	0.00303
557586.15	4159749.34	0.00781	0.00311	0.00000	0.00000E+00	0.00311
557601.99	4159736.47	0.00801	0.00319	0.00000	0.00000E+00	0.00319
557576.26	4159804.76	0.00536	0.00213	0.00000	0.00000E+00	0.00213
557595.06	4159790.91	0.00559	0.00223	0.00000	0.00000E+00	0.00223
557608.92	4159776.06	0.00592	0.00236	0.00000	0.00000E+00	0.00236
557584.17	4159776.06	0.00644	0.00256	0.00000	0.00000E+00	0.00256
557598.03	4159762.2	0.00678	0.00270	0.00000	0.00000E+00	0.00270
557646.53	4159741.42	0.00645	0.00257	0.00000	0.00000E+00	0.00257
557635.64	4159723.61	0.00751	0.00299	0.00000	0.00000E+00	0.00299
557623.76	4159706.78	0.00875	0.00348	0.00000	0.00000E+00	0.00348
557615.84	4159692.93	0.00985	0.00392	0.00000	0.00000E+00	0.00392
557645.54	4159689.96	0.00861	0.00343	0.00000	0.00000E+00	0.00343
557670.28	4159681.05	0.00797	0.00317	0.00000	0.00000E+00	0.00317
557698.98	4159665.22	0.00743	0.00296	0.00000	0.00000E+00	0.00296
557737.58	4159684.02	0.00587	0.00234	0.00000	0.00000E+00	0.00234
557727.68	4159666.2	0.00652	0.00260	0.00000	0.00000E+00	0.00260
557720.75	4159646.41	0.00716	0.00285	0.00000	0.00000E+00	0.00285
557682.15	4159704.8	0.00678	0.00270	0.00000	0.00000E+00	0.00270
557662.36	4159772.1	0.00506	0.00201	0.00000	0.00000E+00	0.00201
557717.78	4159753.3	0.00468	0.00186	0.00000	0.00000E+00	0.00186
557759.35	4159751.32	0.00411	0.00164	0.00000	0.00000E+00	0.00164
557754.4	4159713.71	0.00491	0.00195	0.00000	0.00000E+00	0.00195
557691.06	4159793.87	0.00411	0.00164	0.00000	0.00000E+00	0.00164
557718.77	4159784.97	0.00396	0.00158	0.00000	0.00000E+00	0.00158
557736.59	4159778.04	0.00389	0.00155	0.00000	0.00000E+00	0.00155
CONCUNIT ug	/m^3	0	0.00000	0.00000	0.00000E+00	0.00000
DEPUNIT g/m	^2	0	0.00000	0.00000	0.00000E+00	0.00000
0	0	0	0.00000	0.00000	0.00000E+00	0.00000

Burlingame **2020** **No Mitigation** **at Sensitive Receptors**

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate: 2.70033E-06 grams/m2/sec

Annual Average Offsite DPM Exhaust Emission Rate: 2.23554E-06 grams/sec

X (m)	Y (m)	Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
557237.31	4159639.73	0.21944	0.05926	0.00004	8.94217E-06	0.05926
557240.38	4159649.39	0.20372	0.05501	0.00005	1.11777E-05	0.05502
557228.08	4159655.54	0.13189	0.03561	0.00005	1.11777E-05	0.03563
557218.42	4159660.81	0.09839	0.02657	0.00005	1.11777E-05	0.02658
557215.35	4159649.39	0.10625	0.02869	0.00004	8.94217E-06	0.02870
557208.76	4159636.66	0.10323	0.02788	0.00003	6.70662E-06	0.02788
557223.25	4159632.27	0.15557	0.04201	0.00003	6.70662E-06	0.04202
557213.15	4159625.24	0.12474	0.03368	0.00003	6.70662E-06	0.03369
557202.62	4159616.02	0.10082	0.02722	0.00002	4.47108E-06	0.02723
557192.08	4159607.68	0.08176	0.02208	0.00002	4.47108E-06	0.02208
557177.59	4159617.34	0.06041	0.01631	0.00002	4.47108E-06	0.01632
557186.81	4159625.24	0.06968	0.01882	0.00002	4.47108E-06	0.01882
557177.15	4159637.1	0.05523	0.01491	0.00002	4.47108E-06	0.01492
557187.69	4159641.05	0.06498	0.01755	0.00003	6.70662E-06	0.01755
557198.22	4159646.32	0.0763	0.02060	0.00003	6.70662E-06	0.02061
557205.25	4159662.13	0.07477	0.02019	0.00005	1.11777E-05	0.02020
557190.76	4159663.89	0.05704	0.01540	0.00004	8.94217E-06	0.01541
557168.36	4159641.05	0.04688	0.01266	0.00002	4.47108E-06	0.01266
557162.66	4159631.83	0.04477	0.01209	0.00002	4.47108E-06	0.01209
557155.19	4159640.17	0.03868	0.01044	0.00002	4.47108E-06	0.01045
557259.7	4159617.34	0.68173	0.18409	0.00003	6.70662E-06	0.18410
557267.17	4159612.07	0.85452	0.23075	0.00002	4.47108E-06	0.23075
557275.51	4159606.36	0.97169	0.26239	0.00002	4.47108E-06	0.26239
557285.17	4159601.53	1.00929	0.27254	0.00002	4.47108E-06	0.27255
557277.7	4159590.99	0.66885	0.18061	0.00002	4.47108E-06	0.18062
557268.92	4159582.21	0.43757	0.11816	0.00001	2.23554E-06	0.11816
557257.51	4159590.11	0.42566	0.11494	0.00002	4.47108E-06	0.11495
557268.04	4159596.26	0.64768	0.17489	0.00002	4.47108E-06	0.17490
557255.31	4159606.36	0.53878	0.14549	0.00002	4.47108E-06	0.14549
557245.21	4159600.65	0.34849	0.09410	0.00002	4.47108E-06	0.09411
557304.05	4159587.04	0.57257	0.15461	0.00001	2.23554E-06	0.15461
557311.27	4159582.21	0.41546	0.11219	0.00001	2.23554E-06	0.11219
557324.69	4159576.06	0.28428	0.07676	0.00001	2.23554E-06	0.07677
557335.23	4159568.16	0.19649	0.05306	0.00001	2.23554E-06	0.05306
557334.25	4159555.86	0.14957	0.04039	0.00001	2.23554E-06	0.04039
557308.88	4159565.96	0.23946	0.06466	0.00001	2.23554E-06	0.06466
557297.46	4159576.06	0.39992	0.10799	0.00001	2.23554E-06	0.10799
557287.37	4159568.16	0.3177	0.08579	0.00001	2.23554E-06	0.08579
557308.88	4159554.55	0.16829	0.04544	0.00001	2.23554E-06	0.04545
557322.93	4159544.45	0.11182	0.03020	0.00001	2.23554E-06	0.03020
557380.02	4159577.38	0.14321	0.03867	0.00001	2.23554E-06	0.03867
557388.8	4159572.55	0.11863	0.03203	0.00001	2.23554E-06	0.03204
557372.55	4159563.33	0.12373	0.03341	0.00001	2.23554E-06	0.03341
557377.38	4159554.11	0.09955	0.02688	0.00001	2.23554E-06	0.02688
557387.48	4159547.08	0.08145	0.02199	0.00001	2.23554E-06	0.02200
557397.14	4159542.69	0.07096	0.01916	0.00001	2.23554E-06	0.01916
557363.33	4159548.4	0.09727	0.02627	0.00001	2.23554E-06	0.02627
557370.36	4159541.81	0.08159	0.02203	0.00001	2.23554E-06	0.02203
557380.02	4159536.54	0.07043	0.01902	0.00001	2.23554E-06	0.01902
557387.04	4159530.39	0.06117	0.01652	0.00000	0.00000E+00	0.01652
557231.16	4159591.87	0.20949	0.05657	0.00002	4.47108E-06	0.05657
557240.38	4159585.28	0.25082	0.06773	0.00001	2.23554E-06	0.06773
557248.28	4159575.62	0.2577	0.06959	0.00001	2.23554E-06	0.06959
557255.31	4159567.28	0.24609	0.06645	0.00001	2.23554E-06	0.06645
557262.77	4159557.62	0.2152	0.05811	0.00001	2.23554E-06	0.05811
557278.58	4159554.98	0.21483	0.05801	0.00001	2.23554E-06	0.05801
557288.24	4159548.84	0.17555	0.04740	0.00001	2.23554E-06	0.04741
557296.15	4159541.81	0.13768	0.03718	0.00001	2.23554E-06	0.03718
557306.25	4159536.1	0.10859	0.02932	0.00001	2.23554E-06	0.02933
557315.03	4159528.2	0.08345	0.02253	0.00001	2.23554E-06	0.02254
557301.59	4159768.64	0.02659	0.00718	0.00001	2.23554E-06	0.00718
557313.32	4159775.93	0.02307	0.00623	0.00001	2.23554E-06	0.00623
557324.26	4159785.66	0.01937	0.00523	0.00001	2.23554E-06	0.00523
557335.2	4159777.76	0.01977	0.00534	0.00001	2.23554E-06	0.00534
557301.16	4159794.78	0.01962	0.00530	0.00001	2.23554E-06	0.00530
557280.5	4159805.11	0.01865	0.00504	0.00001	2.23554E-06	0.00504
557260.44	4159790.52	0.02232	0.00603	0.00001	2.23554E-06	0.00603
557268.34	4159811.19	0.01781	0.00481	0.00001	2.23554E-06	0.00481
557222.76	4159585.09	0.16011	0.04323	0.00001	2.23554E-06	0.04324
557233.7	4159575.97	0.18958	0.05119	0.00001	2.23554E-06	0.05120
557238.56	4159566.88	0.18434	0.04978	0.00001	2.23554E-06	0.04978
557246.46	4159557.13	0.17734	0.04789	0.00001	2.23554E-06	0.04789
557215.46	4159571.72	0.12303	0.03322	0.00001	2.23554E-06	0.03322
557230.05	4159553.49	0.13135	0.03547	0.00001	2.23554E-06	0.03547
557240.38	4159541.94	0.12676	0.03423	0.00001	2.23554E-06	0.03423
557270.16	4159539.51	0.14621	0.03948	0.00001	2.23554E-06	0.03948
557280.5	4159531	0.11921	0.03219	0.00001	2.23554E-06	0.03219
557291.44	4159520.06	0.08893	0.02401	0.00001	2.23554E-06	0.02402
557300.55	4159512.76	0.07165	0.01935	0.00001	2.23554E-06	0.01935
557268.34	4159526.74	0.11192	0.03022	0.00001	2.23554E-06	0.03022
557288.4	4159508.51	0.07322	0.01977	0.00001	2.23554E-06	0.01977
557200.88	4159563.82	0.08784	0.02372	0.00001	2.23554E-06	0.02372
557211.21	4159552.27	0.09568	0.02584	0.00001	2.23554E-06	0.02584
557220.33	4159540.72	0.09712	0.02623	0.00001	2.23554E-06	0.02623
557244.03	4159521.27	0.0939	0.02536	0.00001	2.23554E-06	0.02536
557261.65	4159513.98	0.08819	0.02381	0.00001	2.23554E-06	0.02382
557271.38	4159502.43	0.07156	0.01932	0.00001	2.23554E-06	0.01933
557244.64	4159509.12	0.0781	0.02109	0.00001	2.23554E-06	0.02109
557258.01	4159501.22	0.07127	0.01925	0.00001	2.23554E-06	0.01925
557283.53	4159491.49	0.05677	0.01533	0.00000	0.00000E+00	0.01533
557271.38	4159479.94	0.05036	0.01360	0.00000	0.00000E+00	0.01360
557355.86	4159534.04	0.07294	0.01970	0.00001	2.23554E-06	0.01970
557366.19	4159531	0.06625	0.01789	0.00001	2.23554E-06	0.01789
557377.13	4159525.53	0.05781	0.01561	0.00000	0.00000E+00	0.01561
557385.03	4159534.59	0.04661	0.01259	0.00000	0.00000E+00	0.01259
557353.43	4159518.84	0.05337	0.01441	0.00000	0.00000E+00	0.01441
557377.74	4159501.22	0.03722	0.01005	0.00000	0.00000E+00	0.01005
557343.71	4159507.9	0.04533	0.01224	0.00000	0.00000E+00	0.01224
557356.47	4159501.82	0.03886	0.01049	0.00000	0.00000E+00	0.01049
557369.23	4159492.1	0.03225	0.00871	0.00000	0.00000E+00	0.00871
557336.41	4159496.96	0.03961	0.01070	0.00000	0.00000E+00	0.01070
557353.43	4159479.94	0.02786	0.00752	0.00000	0.00000E+00	0.00752
557327.3	4159481.16	0.03366	0.00909	0.00000	0.00000E+00	0.00909
557338.84	4159472.65	0.02726	0.00736	0.00000	0.00000E+00	0.00736
557319.39	4159470.22	0.03096	0.00836	0.00000	0.00000E+00	0.00836
557333.98	4159459.28	0.02376	0.00642	0.00000	0.00000E+00	0.00642
557414.82	4159540.72	0.06079	0.01642	0.00000	0.00000E+00	0.01642
557409.35	4159527.35	0.05263	0.01421	0.00000	0.00000E+00	0.01421
557434.27	4159539.51	0.05163	0.01394	0.00000	0.00000E+00	0.01394
557444.6	4159533.43	0.04508	0.01217	0.00000	0.00000E+00	0.01217
557423.32	4159525.53	0.0476	0.01285	0.00000	0.00000E+00	0.01285
557436.09	4159520.06	0.04153	0.01121	0.00000	0.00000E+00	0.01121
557411.17	4159514.59	0.04351	0.01175	0.00000	0.00000E+00	0.01175
557421.5	4159504.86	0.03667	0.00990	0.00000	0.00000E+00	0.00990
557396.58	4159503.65	0.03806	0.01028	0.00000	0.00000E+00	0.01028
557389.9	4159491.49	0.0314	0.00848	0.00000	0.00000E+00	0.00848
557416.64	4159490.88	0.0305	0.00824	0.00000	0.00000E+00	0.00824
557407.52	4159478.73	0.02572	0.00695	0.00000	0.00000E+00	0.00695
557168.06	4159588.74	0.05295	0.01430	0.00001	2.23554E-06	0.01430
557148	4159602.72	0.0386	0.01042	0.00001	2.23554E-06	0.01043
557152.25	4159573.54	0.04093	0.01105	0.00001	2.23554E-06	0.01105
557141.31	4159563.82	0.03453	0.00932	0.00001	2.23554E-06	0.00933
557129.16	4159560.17	0.02928	0.00791	0.00001	2.23554E-06	0.00791
557187.5	4159554.7	0.06641	0.01793	0.00001	2.23554E-06	0.01794
557197.23	4159543.76	0.07176	0.01938	0.00001	2.23554E-06	0.01938
557209.99	4159532.82	0.07777	0.02100	0.00001	2.23554E-06	0.02100
557217.29	4159523.7	0.07688	0.02076	0.00001	2.23554E-06	0.02076
557208.78	4159513.98	0.06326	0.01708	0.00001	2.23554E-06	0.01708
557199.66	4159508.51	0.05466	0.01476	0.00001	2.23554E-06	0.01476
557171.7	4159541.33	0.04895	0.01322	0.00001	2.23554E-06	0.01322
557182.03	4159531.61	0.05327	0.01438	0.00001	2.23554E-06	0.01439
557189.94	4159523.7	0.05571	0.01504	0.00001	2.23554E-06	0.01505
557227.62	4159505.47	0.06746	0.01822	0.00001	2.23554E-06	0.01822
557234.91	4159497.57	0.06348	0.01714	0.00001	2.23554E-06	0.01714
557242.81	4159489.06	0.05823	0.01572	0.00000	0.00000E+00	0.01572
557248.89	4159481.77	0.05326	0.01438	0.00000	0.00000E+00	0.01438
557254.36	4159473.87	0.04787	0.01293	0.00000	0.00000E+00	0.01293
557248.89	4159465.36	0.04293	0.01159	0.00000	0.00000E+00	0.01159
557235.52	4159458.67	0.03922	0.01059	0.00000	0.00000E+00	0.01059
557232.48	4159471.43	0.04527	0.01222	0.00000	0.00000E+00	0.01222
557224.58	4159479.34	0.04828	0.01304	0.00000	0.00000E+00	0.01304
557216.68	4159487.84	0.05095	0.01376	0.00000	0.00000E+00	0.01376
557217.29	4159497.57	0.05704	0.01540	0.00001	2.23554E-06	0.01540
557410.56	4159576.58	0.09209	0.02487	0.00001	2.23554E-06	0.02487
557406.91	4159566.86	0.08852	0.02390	0.00001	2.23554E-06	0.02391
557402.66	4159559.56	0.08555	0.02310	0.00001	2.23554E-06	0.02310
557484.22	4159816.64	0.00659	0.00178	0.00000	0.00000E+00	0.00178
557496.09	4159831.48	0.00567	0.00153	0.00000	0.00000E+00	0.00153
557572.3	4159760.22	0.0076	0.00205	0.00000	0.00000E+00	0.00205
557586.15	4159749.34	0.00781	0.00211	0.00000	0.00000E+00	0.00211
557601.99	4159736.47	0.00801	0.00216	0.00000	0.00000E+00	0.00216
557576.26	4159804.76	0.00536	0.00145	0.00000	0.00000E+00	0.00145
557595.06	4159790.91	0.00559	0.00151	0.00000	0.00000E+00	0.00151
557608.92	4159776.06	0.00592	0.00160	0.00000	0.00000E+00	0.00160
557584.17	4159776.06	0.00644	0.00174	0.00000	0.00000E+00	0.00174
557598.03	4159762.2	0.00678	0.00183	0.00000	0.00000E+00	0.00183
557646.53	4159741.42	0.00645	0.00174	0.00000	0.00000E+00	0.00174
557635.64	4159723.61	0.00751	0.00203	0.00000	0.00000E+00	0.00203
557623.76	4159706.78	0.00875	0.00236	0.00000	0.00000E+00	0.00236
557615.84	4159692.93	0.00985	0.00266	0.00000	0.00000E+00	0.00266
557645.54	4159689.96	0.00861	0.00232	0.00000	0.00000E+00	0.00232
557670.28	4159681.05	0.00797	0.00215	0.00000	0.00000E+00	0.00215
557698.98	4159665.22	0.00743	0.00201	0.00000	0.00000E+00	0.00201
557737.58	4159644.02	0.00587	0.00159	0.00000	0.00000E+00	0.00159
557727.68	4159666.2	0.00652	0.00176	0.00000	0.00000E+00	0.00176
557720.75	4159646.41	0.00716	0.00193	0.00000	0.00000E+00	0.00193
557682.15	4159704.8	0.00678	0.00183	0.00000	0.00000E+00	0.00183
557662.36	4159772.1	0.00506	0.00137	0.00000	0.00000E+00	0.00137
557717.78	4159753.3	0.00468	0.00126	0.00000	0.00000E+00	0.00126
557759.35	4159751.32	0.00411	0.00111	0.00000	0.00000E+00	0.00111
557754.4	4159713.71	0.00491	0.00133	0.00000	0.00000E+00	0.00133
557691.06	4159793.87	0.00411	0.00111	0.00000	0.00000E+00	0.00111
557718.77	4159784.97	0.00396	0.00107	0.00000	0.00000E+00	0.00107
557736.59	4159778.04	0.00389	0.00105	0.00000	0.00000E+00	0.00105
CONCUNIT -ug	/m^3	0	0.00000	0.00000	0.00000E+00	0.00000
DEPUNIT g/m	^2	0	0.00000	0.00000	0.00000E+00	0.00000
0	0	0	0.00000	0.00000	0.00000E+00	0.00000

Burlingame

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Infant

Cancer Potency Factor: 1.1 $(mg/kg\text{-}day)^{-1}$

Averaging Period 25550 days

Year	Unit DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Frequency days/year	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
3rd Trimester	1	10	361	0.85	350	0.25	11.6
1	1	10	1090	0.85	350	1	139.6
2	1	10	1090	0.85	360	0.5	71.8

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Burlingame **No Mitigation** **Offsite Sensitive Receptors**

Estimated Cancer Risks from Construction DPM - Infant Receptors

X (m)	Y (m)	InfantCancer Risk (3rd Trimester) 2019 (/million)	Infant Cancer Risk (year 1) 2019 (/million)	Infant Cancer Risk (year 2) 2020 (/million)	Total Cancer Risk (/million)
557237.31	4159639.73	1.010	12.199	4.255	17.46419
557240.38	4159649.39	0.938	11.326	3.951	16.21412
557228.08	4159655.54	0.607	7.333	2.558	10.49854
557218.42	4159660.81	0.453	5.471	1.908	7.83292
557215.35	4159649.39	0.489	5.908	2.061	8.45756
557208.76	4159636.66	0.475	5.739	2.002	8.21647
557223.25	4159632.27	0.716	8.648	3.017	12.38121
557213.15	4159625.24	0.574	6.935	2.419	9.92804
557202.62	4159616.02	0.464	5.605	1.955	8.02391
557192.08	4159607.68	0.376	4.545	1.585	6.50729
557177.59	4159617.34	0.278	3.359	1.172	4.80845
557186.81	4159625.24	0.321	3.874	1.351	5.54608
557177.15	4159637.1	0.254	3.071	1.071	4.39628
557187.69	4159641.05	0.299	3.613	1.260	5.17288
557198.22	4159646.32	0.351	4.243	1.480	6.07362
557205.25	4159662.13	0.344	4.159	1.450	5.95345
557190.76	4159663.89	0.263	3.173	1.107	4.54187
557168.36	4159641.05	0.216	2.607	0.909	3.73186
557162.66	4159631.83	0.206	2.490	0.868	3.56396
557155.19	4159640.17	0.178	2.151	0.750	3.07938
557259.7	4159617.34	3.137	37.893	13.218	54.24826
557267.17	4159612.07	3.933	47.496	16.568	67.99654
557275.51	4159606.36	4.472	54.008	18.840	77.31987
557285.17	4159601.53	4.645	56.098	19.569	80.31173
557277.7	4159590.99	3.078	37.176	12.968	53.22260
557268.92	4159582.21	2.014	24.321	8.484	34.81865
557257.51	4159590.11	1.959	23.660	8.253	33.87174
557268.04	4159596.26	2.981	36.000	12.558	51.53808
557255.31	4159606.36	2.480	29.947	10.446	42.87281
557245.21	4159600.65	1.604	19.371	6.757	27.73125
557304.05	4159587.04	2.635	31.824	11.101	45.56072
557313.27	4159582.21	1.912	23.092	8.055	33.05933
557324.69	4159576.06	1.308	15.801	5.512	22.62121
557335.23	4159568.16	0.904	10.922	3.810	15.63568
557324.25	4159555.86	0.688	8.314	2.900	11.90221
557308.88	4159565.96	1.102	13.310	4.643	19.05485
557297.46	4159576.06	1.840	22.228	7.754	31.82280
557287.37	4159568.16	1.462	17.659	6.160	25.28048
557308.88	4159554.55	0.775	9.354	3.263	13.39178
557322.93	4159544.45	0.515	6.216	2.168	8.89841
557380.02	4159577.38	0.659	7.960	2.777	11.39614
557388.8	4159572.55	0.546	6.594	2.300	9.44029
557372.55	4159563.33	0.569	6.878	2.399	9.84610
557377.38	4159554.11	0.458	5.534	1.930	7.92207
557387.48	4159547.08	0.375	4.528	1.579	6.48184
557397.14	4159542.69	0.327	3.945	1.376	5.64714
557363.33	4159548.4	0.448	5.407	1.886	7.74065
557370.36	4159541.81	0.376	4.535	1.582	6.49298
557380.02	4159536.54	0.324	3.915	1.366	5.60497
557387.04	4159530.39	0.282	3.400	1.186	4.86735
557231.16	4159591.87	0.964	11.645	4.062	16.67089
557240.38	4159585.28	1.154	13.941	4.863	19.95877
557248.28	4159575.62	1.186	14.324	4.996	20.50622
557255.31	4159567.28	1.133	13.678	4.771	19.58240
557262.77	4159557.62	0.990	11.962	4.172	17.12445
557278.58	4159554.98	0.989	11.941	4.165	17.09501
557288.24	4159548.84	0.808	9.758	3.404	13.96947
557296.15	4159541.81	0.634	7.653	2.670	10.95611
557306.25	4159536.1	0.500	6.036	2.106	8.64140
557315.03	4159528.2	0.384	4.639	1.618	6.64098
557303.59	4159768.64	0.122	1.478	0.516	2.11658
557313.32	4159775.93	0.106	1.283	0.447	1.83649
557324.26	4159785.66	0.089	1.077	0.376	1.54208
557335.2	4159777.76	0.091	1.099	0.383	1.57390
557301.16	4159794.78	0.090	1.091	0.381	1.56197
557280.5	4159805.11	0.086	1.037	0.362	1.48478
557260.44	4159790.52	0.103	1.241	0.433	1.77681
557268.34	4159811.19	0.082	0.990	0.345	1.41794
557222.76	4159585.09	0.737	8.900	3.104	12.74089
557233.7	4159575.97	0.872	10.538	3.676	15.08585
557238.56	4159566.86	0.848	10.246	3.574	14.66889
557246.46	4159557.13	0.816	9.857	3.438	14.11190
557215.46	4159571.72	0.566	6.839	2.385	9.79040
557230.05	4159553.49	0.605	7.301	2.547	10.45243
557240.38	4159541.94	0.583	7.046	2.458	10.08720
557270.16	4159539.51	0.673	8.127	2.835	11.63485
557280.5	4159531	0.549	6.626	2.311	9.48644
557291.44	4159520.06	0.409	4.943	1.724	7.07703
557300.55	4159512.76	0.330	3.983	1.389	5.70204
557268.34	4159526.74	0.515	6.221	2.170	8.90637
557288.4	4159508.51	0.337	4.070	1.420	5.82697
557200.88	4159563.82	0.404	4.883	1.703	6.99030
557211.21	4159552.27	0.440	5.319	1.855	7.61413
557220.33	4159540.72	0.447	5.399	1.883	7.72872
557244.03	4159521.27	0.432	5.220	1.821	7.47250
557261.65	4159513.98	0.406	4.902	1.710	7.01815
557271.38	4159502.43	0.329	3.978	1.388	5.69488
557244.64	4159509.12	0.359	4.341	1.514	6.21528
557258.01	4159501.22	0.328	3.962	1.382	5.67181
557283.53	4159491.49	0.261	3.155	1.101	4.51724
557271.38	4159479.94	0.232	2.799	0.976	4.00719
557355.86	4159534.04	0.336	4.055	1.414	5.80469
557366.19	4159531	0.305	3.683	1.285	5.27236
557377.13	4159525.53	0.266	3.213	1.121	4.60000
557385.03	4159514.59	0.214	2.591	0.904	3.70880
557353.43	4159518.84	0.246	2.966	1.035	4.24670
557377.74	4159501.22	0.171	2.069	0.722	2.96163
557343.71	4159507.9	0.209	2.519	0.879	3.60695
557356.47	4159501.82	0.179	2.160	0.753	3.09213
557369.23	4159492.1	0.148	1.792	0.625	2.56616
557336.41	4159496.96	0.182	2.202	0.768	3.15181
557353.43	4159479.94	0.128	1.548	0.540	2.21685
557327.3	4159481.16	0.155	1.871	0.653	2.67836
557338.84	4159472.65	0.125	1.515	0.529	2.16910
557319.39	4159470.22	0.142	1.721	0.600	2.46352
557333.98	4159459.28	0.109	1.321	0.461	1.89061
557414.82	4159540.72	0.280	3.379	1.179	4.83712
557409.35	4159527.35	0.242	2.925	1.020	4.18782
557434.27	4159539.51	0.238	2.870	1.001	4.10825
557444.6	4159533.43	0.207	2.506	0.874	3.58706
557423.32	4159525.53	0.219	2.646	0.923	3.78758
557436.09	4159520.06	0.191	2.308	0.805	3.30458
557411.17	4159514.59	0.200	2.418	0.844	3.46213
557421.5	4159504.86	0.169	2.038	0.711	2.91787
557396.58	4159503.65	0.175	2.115	0.738	3.02847
557389.9	4159491.49	0.145	1.745	0.609	2.49853
557416.64	4159490.88	0.140	1.695	0.591	2.42691
557407.52	4159478.73	0.118	1.430	0.499	2.04656
557168.06	4159588.74	0.244	2.944	1.027	4.21407
557148	4159602.72	0.178	2.146	0.749	3.07232
557152.25	4159573.54	0.188	2.276	0.794	3.25762
557141.31	4159563.82	0.159	1.920	0.670	2.74837
557129.16	4159560.17	0.135	1.628	0.568	2.33062
557187.5	4159554.7	0.306	3.692	1.288	5.28509
557197.23	4159543.76	0.330	3.989	1.391	5.71080
557209.99	4159532.82	0.358	4.323	1.508	6.18902
557217.29	4159523.7	0.354	4.274	1.491	6.11820
557208.78	4159513.98	0.291	3.517	1.227	5.03444
557199.66	4159508.51	0.252	3.039	1.060	4.35013
557171.7	4159541.33	0.225	2.721	0.949	3.89578
557182.03	4159531.61	0.245	2.961	1.033	4.23953
557189.94	4159523.7	0.256	3.097	1.080	4.43368
557227.62	4159505.47	0.310	3.750	1.308	5.36864
557234.91	4159497.57	0.292	3.529	1.231	5.05195
557242.81	4159489.06	0.268	3.236	1.129	4.63342
557248.89	4159481.77	0.245	2.960	1.033	4.23795
557254.36	4159473.87	0.220	2.661	0.928	3.80906
557248.89	4159465.36	0.198	2.386	0.832	3.41598
557235.52	4159458.67	0.180	2.180	0.760	3.12077
557232.48	4159471.43	0.208	2.516	0.878	3.60218
557224.58	4159479.34	0.222	2.683	0.936	3.84169
557216.68	4159487.84	0.234	2.832	0.988	4.05414
557217.29	4159497.57	0.263	3.171	1.106	4.53951
557410.56	4159576.58	0.424	5.119	1.786	7.32847
557406.91	4159566.86	0.407	4.921	1.716	7.04441
557402.66	4159559.56	0.394	4.756	1.659	6.80808
557484.22	4159816.64	0.030	0.366	0.128	0.52437
557496.09	4159831.48	0.026	0.315	0.110	0.45117
557572.3	4159760.22	0.035	0.422	0.147	0.60474
557586.15	4159749.34	0.036	0.434	0.151	0.62145
557601.99	4159736.47	0.037	0.445	0.155	0.63736
557576.26	4159804.76	0.025	0.298	0.104	0.42650
557595.06	4159790.91	0.026	0.311	0.108	0.44480
557608.92	4159776.06	0.027	0.329	0.115	0.47106
557584.17	4159776.06	0.030	0.358	0.125	0.51244
557598.03	4159762.2	0.031	0.377	0.131	0.53949
557646.53	4159741.42	0.030	0.358	0.125	0.51323
557635.64	4159723.61	0.035	0.417	0.146	0.59758
557623.76	4159706.78	0.040	0.486	0.170	0.69625
557615.84	4159692.93	0.045	0.547	0.191	0.78377
557645.54	4159689.96	0.040	0.479	0.167	0.68511
557670.28	4159681.05	0.037	0.443	0.155	0.63418
557698.98	4159665.22	0.034	0.413	0.144	0.59121
557737.58	4159684.02	0.027	0.326	0.114	0.46708
557727.68	4159666.2	0.030	0.362	0.126	0.51880
557720.75	4159646.41	0.033	0.398	0.139	0.56973
557682.15	4159704.8	0.031	0.377	0.131	0.53949
557662.36	4159772.1	0.023	0.281	0.098	0.40263
557717.78	4159753.3	0.022	0.260	0.091	0.37239
557759.35	4159751.32	0.019	0.228	0.080	0.32704
557754.4	4159713.71	0.023	0.273	0.095	0.39069
557691.06	4159793.87	0.019	0.228	0.080	0.32704
557718.77	4159784.97	0.018	0.220	0.077	0.31510
557736.59	4159778.04	0.018	0.216	0.075	0.30953
CONCUNIT ug	/m^3	0.000	0.000	0.000	0.00000
DEPUNIT g/m	^2	0.000	0.000	0.000	0.00000

Maximum Caner Risk	80.31
BAAQMD threshold of significance	10
Exceed thresholds?	Yes

Burlingame

No Mitigation

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Child
UTM: (565046,4185977)

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	350	days/year
Averaging Period	25550	days

Year	DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	1	3	572	0.73	1	18.9
2	1	3	572	0.73	1	18.9

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Burlingame **No Mitigation** **at Sensitive Receptors**

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Child Cancer Risk (year 1) 2017 (/million)	Child Cancer Risk (year 2) 2017 (/million)	Total Cancer Risk (/million)
557237.31	4159639.73	1.649	1.119	2.76805
557240.38	4159649.39	1.531	1.039	2.56991
557228.08	4159655.54	0.992	0.672	1.66399
557218.42	4159660.81	0.740	0.502	1.24149
557215.35	4159649.39	0.799	0.542	1.34050
557208.76	4159636.66	0.776	0.526	1.30230
557223.25	4159632.27	1.169	0.793	1.96241
557213.15	4159625.24	0.938	0.636	1.57358
557202.62	4159616.02	0.758	0.514	1.27178
557192.08	4159607.68	0.615	0.417	1.03140
557177.59	4159617.34	0.454	0.308	0.76213
557186.81	4159625.24	0.524	0.355	0.87904
557177.15	4159637.1	0.415	0.282	0.69680
557187.69	4159641.05	0.489	0.331	0.81989
557198.22	4159646.32	0.574	0.389	0.96265
557205.25	4159662.13	0.562	0.381	0.94360
557190.76	4159663.89	0.429	0.291	0.71987
557168.36	4159641.05	0.352	0.239	0.59149
557162.66	4159631.83	0.337	0.228	0.56488
557155.19	4159640.17	0.291	0.197	0.48807
557259.7	4159617.34	5.123	3.475	8.59832
557267.17	4159612.07	6.422	4.356	10.77743
557275.51	4159606.36	7.302	4.953	12.25517
557285.17	4159601.53	7.585	5.145	12.72938
557277.7	4159590.99	5.026	3.409	8.43576
557268.92	4159582.21	3.288	2.230	5.51874
557257.51	4159590.11	3.199	2.170	5.36865
557268.04	4159596.26	4.867	3.301	8.16876
557255.31	4159606.36	4.049	2.746	6.79532
557245.21	4159600.65	2.619	1.776	4.39539
557304.05	4159587.04	4.303	2.919	7.22136
557313.27	4159582.21	3.122	2.118	5.23989
557324.69	4159576.06	2.136	1.449	3.58545
557335.23	4159568.16	1.477	1.002	2.47825
557324.25	4159555.86	1.124	0.762	1.88649
557308.88	4159565.96	1.800	1.221	3.02018
557297.46	4159576.06	3.005	2.038	5.04390
557287.37	4159568.16	2.388	1.619	4.00694
557308.88	4159554.55	1.265	0.858	2.12259
557322.93	4159544.45	0.840	0.570	1.41039
557380.02	4159577.38	1.076	0.730	1.80628
557388.8	4159572.55	0.892	0.605	1.49628
557372.55	4159563.33	0.930	0.631	1.56060
557377.38	4159554.11	0.748	0.507	1.25564
557387.48	4159547.08	0.612	0.415	1.02737
557397.14	4159542.69	0.533	0.362	0.89507
557363.33	4159548.4	0.731	0.496	1.22689
557370.36	4159541.81	0.613	0.416	1.02913
557380.02	4159536.54	0.529	0.359	0.88838
557387.04	4159530.39	0.460	0.312	0.77147
557231.16	4159591.87	1.574	1.068	2.64232
557240.38	4159585.28	1.885	1.279	3.16346
557248.28	4159575.62	1.937	1.314	3.25023
557255.31	4159567.28	1.849	1.254	3.10380
557262.77	4159557.62	1.617	1.097	2.71422
557278.58	4159554.98	1.614	1.095	2.70955
557288.24	4159548.84	1.319	0.895	2.21415
557296.15	4159541.81	1.035	0.702	1.73654
557306.25	4159536.1	0.816	0.554	1.36965
557315.03	4159528.2	0.627	0.425	1.05259
557303.59	4159768.64	0.200	0.136	0.33547
557313.32	4159775.93	0.173	0.118	0.29108
557324.26	4159785.66	0.146	0.099	0.24441
557335.2	4159777.76	0.149	0.101	0.24946
557301.16	4159794.78	0.148	0.100	0.24757
557280.5	4159805.11	0.140	0.095	0.23533
557260.44	4159790.52	0.168	0.114	0.28162
557268.34	4159811.19	0.134	0.091	0.22474
557222.76	4159585.09	1.203	0.816	2.01942
557233.7	4159575.97	1.425	0.966	2.39110
557238.56	4159566.86	1.385	0.940	2.32501
557246.46	4159557.13	1.333	0.904	2.23673
557215.46	4159571.72	0.925	0.627	1.55177
557230.05	4159553.49	0.987	0.670	1.65670
557240.38	4159541.94	0.953	0.646	1.59881
557270.16	4159539.51	1.099	0.745	1.84412
557280.5	4159531	0.896	0.608	1.50359
557291.44	4159520.06	0.668	0.453	1.12170
557300.55	4159512.76	0.539	0.365	0.90377
557268.34	4159526.74	0.841	0.571	1.41165
557288.4	4159508.51	0.550	0.373	0.92357
557200.88	4159563.82	0.660	0.448	1.10796
557211.21	4159552.27	0.719	0.488	1.20683
557220.33	4159540.72	0.730	0.495	1.22500
557244.03	4159521.27	0.706	0.479	1.18438
557261.65	4159513.98	0.663	0.450	1.11237
557271.38	4159502.43	0.538	0.365	0.90263
557244.64	4159509.12	0.587	0.398	0.98512
557258.01	4159501.22	0.536	0.363	0.89898
557283.53	4159491.49	0.427	0.289	0.71598
557271.38	4159479.94	0.378	0.257	0.63514
557355.86	4159534.04	0.548	0.372	0.92004
557366.19	4159531	0.498	0.338	0.83566
557377.13	4159525.53	0.434	0.295	0.72910
557385.03	4159514.59	0.350	0.238	0.58784
557353.43	4159518.84	0.401	0.272	0.67310
557377.74	4159501.22	0.280	0.190	0.46942
557343.71	4159507.9	0.341	0.231	0.57170
557356.47	4159501.82	0.292	0.198	0.49010
557369.23	4159492.1	0.242	0.164	0.40674
557336.41	4159496.96	0.298	0.202	0.49956
557353.43	4159479.94	0.209	0.142	0.35137
557327.3	4159481.16	0.253	0.172	0.42452
557338.84	4159472.65	0.205	0.139	0.34380
557319.39	4159470.22	0.233	0.158	0.39047
557333.98	4159459.28	0.179	0.121	0.29966
557414.82	4159540.72	0.457	0.310	0.76668
557409.35	4159527.35	0.396	0.268	0.66377
557434.27	4159539.51	0.388	0.263	0.65116
557444.6	4159533.43	0.339	0.230	0.56855
557423.32	4159525.53	0.358	0.243	0.60033
557436.09	4159520.06	0.312	0.212	0.52378
557411.17	4159514.59	0.327	0.222	0.54875
557421.5	4159504.86	0.276	0.187	0.46248
557396.58	4159503.65	0.286	0.194	0.48001
557389.9	4159491.49	0.236	0.160	0.39602
557416.64	4159490.88	0.229	0.155	0.38467
557407.52	4159478.73	0.193	0.131	0.32438
557168.06	4159588.74	0.398	0.270	0.66792
557148	4159602.72	0.290	0.197	0.48694
557152.25	4159573.54	0.308	0.209	0.51633
557141.31	4159563.82	0.260	0.176	0.43561
557129.16	4159560.17	0.220	0.149	0.36940
557187.5	4159554.7	0.499	0.339	0.83768
557197.23	4159543.76	0.539	0.366	0.90516
557209.99	4159532.82	0.585	0.396	0.98095
557217.29	4159523.7	0.578	0.392	0.96973
557208.78	4159513.98	0.475	0.322	0.79795
557199.66	4159508.51	0.411	0.279	0.68949
557171.7	4159541.33	0.368	0.250	0.61748
557182.03	4159531.61	0.400	0.272	0.67196
557189.94	4159523.7	0.419	0.284	0.70273
557227.62	4159505.47	0.507	0.344	0.85092
557234.91	4159497.57	0.477	0.324	0.80073
557242.81	4159489.06	0.438	0.297	0.73440
557248.89	4159481.77	0.400	0.271	0.67171
557254.36	4159473.87	0.360	0.244	0.60374
557248.89	4159465.36	0.323	0.219	0.54143
557235.52	4159458.67	0.295	0.200	0.49464
557232.48	4159471.43	0.340	0.231	0.57094
557224.58	4159479.34	0.363	0.246	0.60891
557216.68	4159487.84	0.383	0.260	0.64258
557217.29	4159497.57	0.429	0.291	0.71951
557410.56	4159576.58	0.692	0.469	1.16156
557406.91	4159566.86	0.665	0.451	1.11653
557402.66	4159559.56	0.643	0.436	1.07907
557484.22	4159816.64	0.050	0.034	0.08311
557496.09	4159831.48	0.043	0.029	0.07151
557572.3	4159760.22	0.057	0.039	0.09585
557586.15	4159749.34	0.059	0.040	0.09850
557601.99	4159736.47	0.060	0.041	0.10102
557576.26	4159804.76	0.040	0.027	0.06760
557595.06	4159790.91	0.042	0.028	0.07050
557608.92	4159776.06	0.044	0.030	0.07466
557584.17	4159776.06	0.048	0.033	0.08122
557598.03	4159762.2	0.051	0.035	0.08551
557646.53	4159741.42	0.048	0.033	0.08135
557635.64	4159723.61	0.056	0.038	0.09472
557623.76	4159706.78	0.066	0.045	0.11035
557615.84	4159692.93	0.074	0.050	0.12423
557645.54	4159689.96	0.065	0.044	0.10859
557670.28	4159681.05	0.060	0.041	0.10052
557698.98	4159665.22	0.056	0.038	0.09371
557737.58	4159684.02	0.044	0.030	0.07403
557727.68	4159666.2	0.049	0.033	0.08223
557720.75	4159646.41	0.054	0.036	0.09030
557682.15	4159704.8	0.051	0.035	0.08551
557662.36	4159772.1	0.038	0.026	0.06382
557717.78	4159753.3	0.035	0.024	0.05902
557759.35	4159751.32	0.031	0.021	0.05184
557754.4	4159713.71	0.037	0.025	0.06192
557691.06	4159793.87	0.031	0.021	0.05184
557718.77	4159784.97	0.030	0.020	0.04994
557736.59	4159778.04	0.029	0.020	0.04906
CONCUNIT ug	/m^3	0.000	0.000	0.00000
DEPUNIT g/m	^2	0.000	0.000	0.00000

Maximum Caner Risk
12.7
BAAQMD threshold of significance
10
Exceed thresholds?
Yes

Burlingame

No Mitigation

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Adult

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	350	days/year
Averaging Period	25550	days

Year	DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	1	1	261	0.72	1	2.8
2	1	1	261	0.72	1	2.8

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Burlingame **No Mitigation** **at Sensitive Receptors**

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Adult Cancer Risk (year 1) 2017 (/million)	Adult Cancer Risk (year 2) 2018 (/million)	Total Cancer Risk (/million)
557237.31	4159639.73	0.247	0.168	0.41525
557240.38	4159649.39	0.230	0.156	0.38552
557228.08	4159655.54	0.149	0.101	0.24962
557218.42	4159660.81	0.111	0.075	0.18624
557215.35	4159649.39	0.120	0.081	0.20109
557208.76	4159636.66	0.116	0.079	0.19536
557223.25	4159632.27	0.175	0.119	0.29439
557213.15	4159625.24	0.141	0.095	0.23606
557202.62	4159616.02	0.114	0.077	0.19079
557192.08	4159607.68	0.092	0.063	0.15472
557177.59	4159617.34	0.068	0.046	0.11433
557186.81	4159625.24	0.079	0.053	0.13187
557177.15	4159637.1	0.062	0.042	0.10453
557187.69	4159641.05	0.073	0.050	0.12299
557198.22	4159646.32	0.086	0.058	0.14441
557205.25	4159662.13	0.084	0.057	0.14155
557190.76	4159663.89	0.064	0.044	0.10799
557168.36	4159641.05	0.053	0.036	0.08873
557162.66	4159631.83	0.050	0.034	0.08474
557155.19	4159640.17	0.044	0.030	0.07322
557259.7	4159617.34	0.769	0.521	1.28987
557267.17	4159612.07	0.963	0.653	1.61677
557275.51	4159606.36	1.095	0.743	1.83845
557285.17	4159601.53	1.138	0.772	1.90959
557277.7	4159590.99	0.754	0.511	1.26549
557268.92	4159582.21	0.493	0.335	0.82789
557257.51	4159590.11	0.480	0.325	0.80538
557268.04	4159596.26	0.730	0.495	1.22543
557255.31	4159606.36	0.607	0.412	1.01940
557245.21	4159600.65	0.393	0.266	0.65937
557304.05	4159587.04	0.645	0.438	1.08331
557313.27	4159582.21	0.468	0.318	0.78606
557324.69	4159576.06	0.320	0.217	0.53787
557335.23	4159568.16	0.222	0.150	0.37177
557324.25	4159555.86	0.169	0.114	0.28300
557308.88	4159565.96	0.270	0.183	0.45307
557297.46	4159576.06	0.451	0.306	0.75666
557287.37	4159568.16	0.358	0.243	0.60110
557308.88	4159554.55	0.190	0.129	0.31842
557322.93	4159544.45	0.126	0.086	0.21158
557380.02	4159577.38	0.161	0.110	0.27097
557388.8	4159572.55	0.134	0.091	0.22446
557372.55	4159563.33	0.139	0.095	0.23411
557377.38	4159554.11	0.112	0.076	0.18836
557387.48	4159547.08	0.092	0.062	0.15412
557397.14	4159542.69	0.080	0.054	0.13427
557363.33	4159548.4	0.110	0.074	0.18405
557370.36	4159541.81	0.092	0.062	0.15438
557380.02	4159536.54	0.079	0.054	0.13327
557387.04	4159530.39	0.069	0.047	0.11573
557231.16	4159591.87	0.236	0.160	0.39639
557240.38	4159585.28	0.283	0.192	0.47456
557248.28	4159575.62	0.291	0.197	0.48758
557255.31	4159567.28	0.277	0.188	0.46561
557262.77	4159557.62	0.243	0.165	0.40717
557278.58	4159554.98	0.242	0.164	0.40647
557288.24	4159548.84	0.198	0.134	0.33215
557296.15	4159541.81	0.155	0.105	0.26051
557306.25	4159536.1	0.122	0.083	0.20547
557315.03	4159528.2	0.094	0.064	0.15790
557303.59	4159768.64	0.030	0.020	0.05033
557313.32	4159775.93	0.026	0.018	0.04367
557324.26	4159785.66	0.022	0.015	0.03667
557335.2	4159777.76	0.022	0.015	0.03742
557301.16	4159794.78	0.022	0.015	0.03714
557280.5	4159805.11	0.021	0.014	0.03530
557260.44	4159790.52	0.025	0.017	0.04225
557268.34	4159811.19	0.020	0.014	0.03371
557222.76	4159585.09	0.181	0.122	0.30294
557233.7	4159575.97	0.214	0.145	0.35870
557238.56	4159566.86	0.208	0.141	0.34879
557246.46	4159557.13	0.200	0.136	0.33554
557215.46	4159571.72	0.139	0.094	0.23279
557230.05	4159553.49	0.148	0.100	0.24853
557240.38	4159541.94	0.143	0.097	0.23985
557270.16	4159539.51	0.165	0.112	0.27664
557280.5	4159531	0.134	0.091	0.22556
557291.44	4159520.06	0.100	0.068	0.16827
557300.55	4159512.76	0.081	0.055	0.13558
557268.34	4159526.74	0.126	0.086	0.21177
557288.4	4159508.51	0.083	0.056	0.13855
557200.88	4159563.82	0.099	0.067	0.16621
557211.21	4159552.27	0.108	0.073	0.18104
557220.33	4159540.72	0.109	0.074	0.18377
557244.03	4159521.27	0.106	0.072	0.17767
557261.65	4159513.98	0.099	0.067	0.16687
557271.38	4159502.43	0.081	0.055	0.13541
557244.64	4159509.12	0.088	0.060	0.14778
557258.01	4159501.22	0.080	0.055	0.13486
557283.53	4159491.49	0.064	0.043	0.10741
557271.38	4159479.94	0.057	0.039	0.09528
557355.86	4159534.04	0.082	0.056	0.13802
557366.19	4159531	0.075	0.051	0.12536
557377.13	4159525.53	0.065	0.044	0.10938
557385.03	4159514.59	0.053	0.036	0.08819
557353.43	4159518.84	0.060	0.041	0.10097
557377.74	4159501.22	0.042	0.028	0.07042
557343.71	4159507.9	0.051	0.035	0.08576
557356.47	4159501.82	0.044	0.030	0.07352
557369.23	4159492.1	0.036	0.025	0.06102
557336.41	4159496.96	0.045	0.030	0.07494
557353.43	4159479.94	0.031	0.021	0.05271
557327.3	4159481.16	0.038	0.026	0.06368
557338.84	4159472.65	0.031	0.021	0.05158
557319.39	4159470.22	0.035	0.024	0.05858
557333.98	4159459.28	0.027	0.018	0.04495
557414.82	4159540.72	0.069	0.046	0.11501
557409.35	4159527.35	0.059	0.040	0.09957
557434.27	4159539.51	0.058	0.039	0.09768
557444.6	4159533.43	0.051	0.034	0.08529
557423.32	4159525.53	0.054	0.036	0.09006
557436.09	4159520.06	0.047	0.032	0.07857
557411.17	4159514.59	0.049	0.033	0.08232
557421.5	4159504.86	0.041	0.028	0.06938
557396.58	4159503.65	0.043	0.029	0.07201
557389.9	4159491.49	0.035	0.024	0.05941
557416.64	4159490.88	0.034	0.023	0.05771
557407.52	4159478.73	0.029	0.020	0.04866
557168.06	4159588.74	0.060	0.040	0.10020
557148	4159602.72	0.044	0.030	0.07305
557152.25	4159573.54	0.046	0.031	0.07746
557141.31	4159563.82	0.039	0.026	0.06535
557129.16	4159560.17	0.033	0.022	0.05542
557187.5	4159554.7	0.075	0.051	0.12566
557197.23	4159543.76	0.081	0.055	0.13579
557209.99	4159532.82	0.088	0.059	0.14716
557217.29	4159523.7	0.087	0.059	0.14547
557208.78	4159513.98	0.071	0.048	0.11970
557199.66	4159508.51	0.062	0.042	0.10343
557171.7	4159541.33	0.055	0.037	0.09263
557182.03	4159531.61	0.060	0.041	0.10080
557189.94	4159523.7	0.063	0.043	0.10542
557227.62	4159505.47	0.076	0.052	0.12765
557234.91	4159497.57	0.072	0.049	0.12012
557242.81	4159489.06	0.066	0.045	0.11017
557248.89	4159481.77	0.060	0.041	0.10077
557254.36	4159473.87	0.054	0.037	0.09057
557248.89	4159465.36	0.048	0.033	0.08122
557235.52	4159458.67	0.044	0.030	0.07420
557232.48	4159471.43	0.051	0.035	0.08565
557224.58	4159479.34	0.054	0.037	0.09134
557216.68	4159487.84	0.057	0.039	0.09640
557217.29	4159497.57	0.064	0.044	0.10794
557410.56	4159576.58	0.104	0.070	0.17425
557406.91	4159566.86	0.100	0.068	0.16750
557402.66	4159559.56	0.096	0.065	0.16188
557484.22	4159816.64	0.007	0.005	0.01247
557496.09	4159831.48	0.006	0.004	0.01073
557572.3	4159760.22	0.009	0.006	0.01438
557586.15	4159749.34	0.009	0.006	0.01478
557601.99	4159736.47	0.009	0.006	0.01515
557576.26	4159804.76	0.006	0.004	0.01014
557595.06	4159790.91	0.006	0.004	0.01058
557608.92	4159776.06	0.007	0.005	0.01120
557584.17	4159776.06	0.007	0.005	0.01218
557598.03	4159762.2	0.008	0.005	0.01283
557646.53	4159741.42	0.007	0.005	0.01220
557635.64	4159723.61	0.008	0.006	0.01421
557623.76	4159706.78	0.010	0.007	0.01655
557615.84	4159692.93	0.011	0.008	0.01864
557645.54	4159689.96	0.010	0.007	0.01629
557670.28	4159681.05	0.009	0.006	0.01508
557698.98	4159665.22	0.008	0.006	0.01406
557737.58	4159684.02	0.007	0.004	0.01111
557727.68	4159666.2	0.007	0.005	0.01234
557720.75	4159646.41	0.008	0.005	0.01355
557682.15	4159704.8	0.008	0.005	0.01283
557662.36	4159772.1	0.006	0.004	0.00957
557717.78	4159753.3	0.005	0.004	0.00885
557759.35	4159751.32	0.005	0.003	0.00778
557754.4	4159713.71	0.006	0.004	0.00929
557691.06	4159793.87	0.005	0.003	0.00778
557718.77	4159784.97	0.004	0.003	0.00749
557736.59	4159778.04	0.004	0.003	0.00736
CONCUNIT ug	/m^3	0.000	0.000	0.00000
DEPUNIT g/m	^2	0.000	0.000	0.00000

Maximum Caner Risk

1.9

BAAQMD threshold of significance

10

Exceed thresholds?

No

Burlingame

No Mitigation
at Sensitive Receptors

Chronic Non-Cancer Hazard Index

Reference Exposure Level (REL) for DPM: 5 ug/m3

CNCHI = DPM/REL

X (m)	Y (m)	2019 DPM (ug/m3)	2020 DPM (ug/m3)	Max DPM (ug/m3)	CNCHI
557237.31	4159639.73	0.087379	0.059265	0.087379	0.01748
557240.38	4159649.39	0.081125	0.055022	0.081125	0.01622
557228.08	4159655.54	0.052528	0.035626	0.052528	0.01051
557218.42	4159660.81	0.039191	0.02658	0.039191	0.00784
557215.35	4159649.39	0.042316	0.0287	0.042316	0.00846
557208.76	4159636.66	0.04111	0.027882	0.04111	0.00822
557223.25	4159632.27	0.061947	0.042016	0.061947	0.01239
557213.15	4159625.24	0.049673	0.033691	0.049673	0.00993
557202.62	4159616.02	0.040146	0.027229	0.040146	0.00803
557192.08	4159607.68	0.032558	0.022082	0.032558	0.00651
557177.59	4159617.34	0.024058	0.016317	0.024058	0.00481
557186.81	4159625.24	0.027749	0.01882	0.027749	0.00555
557177.15	4159637.1	0.021996	0.014918	0.021996	0.00440
557187.69	4159641.05	0.025882	0.017553	0.025882	0.00518
557198.22	4159646.32	0.030389	0.02061	0.030389	0.00608
557205.25	4159662.13	0.029788	0.020202	0.029788	0.00596
557190.76	4159663.89	0.022725	0.015412	0.022725	0.00455
557168.36	4159641.05	0.018672	0.012664	0.018672	0.00373
557162.66	4159631.83	0.017832	0.012094	0.017832	0.00357
557155.19	4159640.17	0.015407	0.010449	0.015407	0.00308
557359.7	4159617.34	0.27142	0.184096	0.27142	0.05428
557267.17	4159612.07	0.340206	0.230753	0.340206	0.06804
557275.51	4159606.36	0.386854	0.262392	0.386854	0.07737
557285.17	4159601.53	0.401823	0.272546	0.401823	0.08036
557277.7	4159590.99	0.266288	0.180616	0.266288	0.05326
557268.92	4159582.21	0.174208	0.11816	0.174208	0.03484
557257.51	4159590.11	0.16947	0.114947	0.16947	0.03389
557268.04	4159596.26	0.25786	0.174899	0.25786	0.05157
557255.31	4159606.36	0.214505	0.145493	0.214505	0.04290
557245.21	4159600.65	0.138748	0.094108	0.138748	0.02775
557304.05	4159587.04	0.227953	0.154615	0.227953	0.04559
557313.27	4159582.21	0.165405	0.11219	0.165405	0.03308
557324.69	4159576.06	0.113181	0.076767	0.113181	0.02264
557335.23	4159568.16	0.07823	0.053061	0.07823	0.01565
557324.25	4159555.86	0.05955	0.040391	0.05955	0.01191
557308.88	4159565.96	0.095337	0.064664	0.095337	0.01907
557297.46	4159576.06	0.159219	0.107994	0.159219	0.03184
557287.37	4159568.16	0.126486	0.085792	0.126486	0.02530
557308.88	4159554.55	0.067003	0.045446	0.067003	0.01340
557322.93	4159544.45	0.044521	0.030197	0.044521	0.00890
557380.02	4159577.38	0.057018	0.038674	0.057018	0.01140
557388.8	4159572.55	0.047233	0.032036	0.047233	0.00945
557372.55	4159563.33	0.049263	0.033413	0.049263	0.00985
557377.38	4159554.11	0.039637	0.026884	0.039637	0.00793
557387.48	4159547.08	0.032431	0.021996	0.032431	0.00649
557397.14	4159542.69	0.028254	0.019164	0.028254	0.00565
557363.33	4159548.4	0.038729	0.026268	0.038729	0.00775
557370.36	4159541.81	0.032486	0.022034	0.032486	0.00650
557380.02	4159536.54	0.028043	0.019021	0.028043	0.00561
557387.04	4159530.39	0.024353	0.016518	0.024353	0.00487
557231.16	4159591.87	0.08341	0.056574	0.08341	0.01668
557240.38	4159585.28	0.09986	0.067732	0.09986	0.01997
557248.28	4159575.62	0.102599	0.06959	0.102599	0.02052
557255.31	4159567.28	0.097977	0.066455	0.097977	0.01960
557262.77	4159557.62	0.085679	0.058113	0.085679	0.01714
557278.58	4159554.98	0.085531	0.058013	0.085531	0.01711
557288.24	4159548.84	0.069893	0.047406	0.069893	0.01398
557296.15	4159541.81	0.054817	0.03718	0.054817	0.01096
557306.25	4159536.1	0.043236	0.029325	0.043236	0.00865
557315.03	4159528.2	0.033227	0.022536	0.033227	0.00665
557303.59	4159768.64	0.01059	0.007182	0.01059	0.00212
557313.32	4159775.93	0.009189	0.006232	0.009189	0.00184
557324.26	4159785.66	0.007716	0.005233	0.007716	0.00154
557335.2	4159777.76	0.007875	0.005341	0.007875	0.00157
557301.16	4159794.78	0.007815	0.0053	0.007815	0.00156
557280.5	4159805.11	0.007429	0.005038	0.007429	0.00149
557260.44	4159790.52	0.00889	0.006029	0.00889	0.00178
557268.34	4159811.19	0.007095	0.004812	0.007095	0.00142
557222.76	4159585.09	0.063747	0.043237	0.063747	0.01275
557233.7	4159575.97	0.075479	0.051195	0.075479	0.01510
557238.56	4159566.86	0.073393	0.04978	0.073393	0.01468
557246.46	4159557.13	0.070606	0.04789	0.070606	0.01412
557215.46	4159571.72	0.048984	0.033224	0.048984	0.00980
557230.05	4159553.49	0.052297	0.035471	0.052297	0.01046
557240.38	4159541.94	0.050469	0.034232	0.050469	0.01009
557270.16	4159539.51	0.058213	0.039484	0.058213	0.01164
557280.5	4159531	0.047464	0.032193	0.047464	0.00949
557291.44	4159520.06	0.035409	0.024016	0.035409	0.00708
557300.55	4159512.76	0.028529	0.01935	0.028529	0.00571
557268.34	4159526.74	0.044561	0.030224	0.044561	0.00891
557288.4	4159508.51	0.029154	0.019774	0.029154	0.00583
557200.88	4159563.82	0.034975	0.023722	0.034975	0.00699
557211.21	4159552.27	0.038096	0.025839	0.038096	0.00762
557220.33	4159540.72	0.038669	0.026228	0.038669	0.00773
557244.03	4159521.27	0.037387	0.025358	0.037387	0.00748
557261.65	4159513.98	0.035114	0.023816	0.035114	0.00702
557271.38	4159502.43	0.028493	0.019326	0.028493	0.00570
557244.64	4159509.12	0.031097	0.021092	0.031097	0.00622
557258.01	4159501.22	0.028378	0.019247	0.028378	0.00568
557283.53	4159491.49	0.022601	0.01533	0.022601	0.00452
557271.38	4159479.94	0.020049	0.013599	0.020049	0.00401
557355.86	4159534.04	0.029043	0.019698	0.029043	0.00581
557366.19	4159531	0.026379	0.017892	0.026379	0.00528
557377.13	4159525.53	0.023015	0.015611	0.023015	0.00460
557385.03	4159514.59	0.018556	0.012586	0.018556	0.00371
557353.43	4159518.84	0.021247	0.014412	0.021247	0.00425
557377.74	4159501.22	0.014818	0.010051	0.014818	0.00296
557343.71	4159507.9	0.018047	0.012241	0.018047	0.00361
557356.47	4159501.82	0.015471	0.010493	0.015471	0.00309
557369.23	4159492.1	0.012839	0.008709	0.012839	0.00257
557336.41	4159496.96	0.015769	0.010696	0.015769	0.00315
557353.43	4159479.94	0.011092	0.007523	0.011092	0.00222
557327.3	4159481.16	0.013401	0.009089	0.013401	0.00268
557338.84	4159472.65	0.010853	0.007361	0.010853	0.00217
557319.39	4159470.22	0.012326	0.00836	0.012326	0.00247
557333.98	4159459.28	0.009459	0.006416	0.009459	0.00189
557414.82	4159540.72	0.024201	0.016415	0.024201	0.00484
557409.35	4159527.35	0.020953	0.014212	0.020953	0.00419
557434.27	4159539.51	0.020555	0.013942	0.020555	0.00411
557444.6	4159533.43	0.017947	0.012173	0.017947	0.00359
557423.32	4159525.53	0.01895	0.012854	0.01895	0.00379
557436.09	4159520.06	0.016534	0.011214	0.016534	0.00331
557411.17	4159514.59	0.017322	0.011749	0.017322	0.00346
557421.5	4159504.86	0.014599	0.009902	0.014599	0.00292
557396.58	4159503.65	0.015152	0.010277	0.015152	0.00303
557389.9	4159491.49	0.012501	0.008479	0.012501	0.00250
557416.64	4159490.88	0.012143	0.008236	0.012143	0.00243
557407.52	4159478.73	0.01024	0.006945	0.01024	0.00205
557168.06	4159588.74	0.021084	0.0143	0.021084	0.00422
557148	4159602.72	0.015371	0.010425	0.015371	0.00307
557152.25	4159573.54	0.016299	0.011055	0.016299	0.00326
557141.31	4159563.82	0.013751	0.009326	0.013751	0.00275
557129.16	4159560.17	0.011661	0.007909	0.011661	0.00233
557187.5	4159554.7	0.026443	0.017935	0.026443	0.00529
557197.23	4159543.76	0.028573	0.01938	0.028573	0.00571
557209.99	4159532.82	0.030966	0.021003	0.030966	0.00619
557217.29	4159523.7	0.030611	0.020762	0.030611	0.00612
557208.78	4159513.98	0.025189	0.017084	0.025189	0.00504
557199.66	4159508.51	0.021765	0.014762	0.021765	0.00435
557171.7	4159541.33	0.019492	0.01322	0.019492	0.00390
557182.03	4159531.61	0.021212	0.014387	0.021212	0.00424
557189.94	4159523.7	0.022183	0.015046	0.022183	0.00444
557227.62	4159505.47	0.026861	0.018219	0.026861	0.00537
557234.91	4159497.57	0.025277	0.017144	0.025277	0.00506
557242.81	4159489.06	0.023182	0.015724	0.023182	0.00464
557248.89	4159481.77	0.021204	0.014382	0.021204	0.00424
557254.36	4159473.87	0.019058	0.012926	0.019058	0.00381
557248.89	4159465.36	0.017091	0.011592	0.017091	0.00342
557235.52	4159458.67	0.015614	0.010591	0.015614	0.00312
557232.48	4159471.43	0.018023	0.012224	0.018023	0.00360
557224.58	4159479.34	0.019221	0.013037	0.019221	0.00384
557216.68	4159487.84	0.020284	0.013758	0.020284	0.00406
557217.29	4159497.57	0.022713	0.015405	0.022713	0.00454
557410.56	4159576.58	0.036667	0.02487	0.036667	0.00733
557406.91	4159566.86	0.035245	0.023906	0.035245	0.00705
557402.66	4159559.56	0.034063	0.023104	0.034063	0.00681
557484.22	4159816.64	0.002624	0.00178	0.002624	0.00052
557496.09	4159831.48	0.002257	0.001531	0.002257	0.00045
557572.3	4159760.22	0.003026	0.002052	0.003026	0.00061
557586.15	4159749.34	0.003109	0.002109	0.003109	0.00062
557601.99	4159736.47	0.003189	0.002163	0.003189	0.00064
557576.26	4159804.76	0.002134	0.001447	0.002134	0.00043
557595.06	4159790.91	0.002225	0.001509	0.002225	0.00045
557608.92	4159776.06	0.002357	0.001599	0.002357	0.00047
557584.17	4159776.06	0.002564	0.001739	0.002564	0.00051
557598.03	4159762.2	0.002699	0.001831	0.002699	0.00054
557646.53	4159741.42	0.002568	0.001742	0.002568	0.00051
557635.64	4159723.61	0.00299	0.002028	0.00299	0.00060
557623.76	4159706.78	0.003484	0.002363	0.003484	0.00070
557615.84	4159692.93	0.003921	0.00266	0.003921	0.00078
557645.54	4159689.96	0.003428	0.002325	0.003428	0.00069
557670.28	4159681.05	0.003173	0.002152	0.003173	0.00063
557698.98	4159665.22	0.002958	0.002006	0.002958	0.00059
557737.58	4159684.02	0.002337	0.001585	0.002337	0.00047
557727.68	4159666.2	0.002596	0.001761	0.002596	0.00052
557720.75	4159646.41	0.002851	0.001933	0.002851	0.00057
557682.15	4159704.8	0.002699	0.001831	0.002699	0.00054
557662.36	4159772.1	0.002014	0.001366	0.002014	0.00040
557717.78	4159753.3	0.001863	0.001264	0.001863	0.00037
557759.35	4159751.32	0.001636	0.00111	0.001636	0.00033
557754.4	4159713.71	0.001955	0.001326	0.001955	0.00039
557691.06	4159793.87	0.001636	0.00111	0.001636	0.00033
557718.77	4159784.97	0.001577	0.001069	0.001577	0.00032
557736.59	4159778.04	0.001549	0.00105	0.001549	0.00031
CONCUNIT ug /m^3		0	0	0	0.00000
DEPUNIT g/m ^2		0	0	0	0.00000

Maximum Caner Risk
0.08
BAAQMD threshold of significance
1
Exceed thresholds?
No

Burlingame

No Mitigation
at Sensitive Receptors

Annual Average PM2.5 (Exhaust)

X (m)	Y (m)	2019 PM2.5 (ug/m3)	2020 PM2.5 (ug/m3)	Max PM2.5 (ug/m3)
557237.31	4159639.73	0.087379	0.059265	0.08738
557240.38	4159649.39	0.081125	0.055022	0.08112
557228.08	4159655.54	0.052528	0.035626	0.05253
557218.42	4159660.81	0.039191	0.02658	0.03919
557215.35	4159649.39	0.042316	0.0287	0.04232
557208.76	4159636.66	0.04111	0.027882	0.04111
557223.25	4159632.27	0.061947	0.042016	0.06195
557213.15	4159625.24	0.049673	0.033691	0.04967
557202.62	4159616.02	0.040146	0.027229	0.04015
557192.08	4159607.68	0.032558	0.022082	0.03256
557177.59	4159617.34	0.024058	0.016317	0.02406
557186.81	4159625.24	0.027749	0.01882	0.02775
557177.15	4159637.1	0.021996	0.014918	0.02200
557187.69	4159641.05	0.025882	0.017553	0.02588
557198.22	4159646.32	0.030389	0.02061	0.03039
557205.25	4159662.13	0.029788	0.020202	0.02979
557190.76	4159663.89	0.022725	0.015412	0.02273
557168.36	4159641.05	0.018672	0.012664	0.01867
557162.66	4159631.83	0.017832	0.012094	0.01783
557155.19	4159640.17	0.015407	0.010449	0.01541
557259.7	4159617.34	0.27142	0.184096	0.27142
557267.17	4159612.07	0.340206	0.230753	0.34021
557275.51	4159606.36	0.386854	0.262392	0.38685
557285.17	4159601.53	0.401823	0.272546	0.40182
557277.7	4159590.99	0.266288	0.180616	0.26629
557268.92	4159582.21	0.174208	0.11816	0.17421
557257.51	4159590.11	0.16947	0.114947	0.16947
557268.04	4159596.26	0.25786	0.174899	0.25786
557255.31	4159606.36	0.214505	0.145493	0.21451
557245.21	4159600.65	0.138748	0.094108	0.13875
557304.05	4159587.04	0.227953	0.154615	0.22795
557313.27	4159582.21	0.165405	0.11219	0.16541
557324.69	4159576.06	0.113181	0.076767	0.11318
557335.23	4159568.16	0.07823	0.053061	0.07823
557324.25	4159555.86	0.05955	0.040391	0.05955
557308.88	4159565.96	0.095337	0.064664	0.09534
557297.46	4159576.06	0.159219	0.107994	0.15922
557287.37	4159568.16	0.126486	0.085792	0.12649
557308.88	4159554.55	0.067003	0.045446	0.06700
557322.93	4159544.45	0.044521	0.030197	0.04452
557380.02	4159577.38	0.057018	0.038674	0.05702
557388.8	4159572.55	0.047233	0.032036	0.04723
557372.55	4159563.33	0.049263	0.033413	0.04926
557377.38	4159554.11	0.039637	0.026884	0.03964
557387.48	4159547.08	0.032431	0.021996	0.03243
557397.14	4159542.69	0.028254	0.019164	0.02825
557363.33	4159548.4	0.038729	0.026268	0.03873
557370.36	4159541.81	0.032486	0.022034	0.03249
557380.02	4159536.54	0.028043	0.019021	0.02804
557387.04	4159530.39	0.024353	0.016518	0.02435
557231.16	4159591.87	0.08341	0.056574	0.08341
557240.38	4159585.28	0.09986	0.067732	0.09986
557248.28	4159575.62	0.102599	0.06959	0.10260
557255.31	4159567.28	0.097977	0.066455	0.09798
557262.77	4159557.62	0.085679	0.058113	0.08568
557278.58	4159554.98	0.085531	0.058013	0.08553
557288.24	4159548.84	0.069893	0.047406	0.06989
557296.15	4159541.81	0.054817	0.03718	0.05482
557306.25	4159536.1	0.043236	0.029325	0.04324
557315.03	4159528.2	0.033227	0.022536	0.03323
557303.59	4159768.64	0.01059	0.007182	0.01059
557313.32	4159775.93	0.009189	0.006232	0.00919
557324.26	4159785.66	0.007716	0.005233	0.00772
557335.2	4159777.76	0.007875	0.005341	0.00787
557301.16	4159794.78	0.007815	0.0053	0.00782
557280.5	4159805.11	0.007429	0.005038	0.00743
557260.44	4159790.52	0.00889	0.006029	0.00889
557268.34	4159811.19	0.007095	0.004812	0.00709
557222.76	4159985.09	0.063747	0.043237	0.06375
557233.7	4159575.97	0.075479	0.051195	0.07548
557238.56	4159566.86	0.073393	0.04978	0.07339
557246.46	4159557.13	0.070606	0.04789	0.07061
557215.46	4159571.72	0.048984	0.033224	0.04898
557230.05	4159553.49	0.052297	0.035471	0.05230
557240.38	4159541.94	0.050469	0.034232	0.05047
557270.16	4159539.51	0.058213	0.039484	0.05821
557280.5	4159531	0.047464	0.032193	0.04746
557291.44	4159520.06	0.035409	0.024016	0.03541
557300.55	4159512.76	0.028529	0.01935	0.02853
557268.34	4159526.74	0.044561	0.030224	0.04456
557288.4	4159508.51	0.029154	0.019774	0.02915
557200.88	4159563.82	0.034975	0.023722	0.03497
557211.21	4159552.27	0.038096	0.025839	0.03810
557220.33	4159540.72	0.038669	0.026228	0.03867
557244.03	4159521.27	0.037387	0.025358	0.03739
557261.65	4159513.98	0.035114	0.023816	0.03511
557271.38	4159502.43	0.028493	0.019326	0.02849
557244.64	4159509.12	0.031097	0.021092	0.03110
557258.01	4159501.22	0.028378	0.019247	0.02838
557283.53	4159491.49	0.022601	0.01533	0.02260
557271.38	4159479.94	0.020049	0.013599	0.02005
557355.86	4159534.04	0.029043	0.019698	0.02904
557366.19	4159531	0.026379	0.017892	0.02638
557377.13	4159525.53	0.023015	0.015611	0.02302
557385.03	4159514.59	0.018556	0.012586	0.01856
557353.43	4159518.84	0.021247	0.014412	0.02125
557377.74	4159501.22	0.014818	0.010051	0.01482
557343.71	4159507.9	0.018047	0.012241	0.01805
557356.47	4159501.82	0.015471	0.010493	0.01547
557369.23	4159492.1	0.012839	0.008709	0.01284
557336.41	4159496.96	0.015769	0.010696	0.01577
557353.43	4159479.94	0.011092	0.007523	0.01109
557327.3	4159481.16	0.013401	0.009089	0.01340
557338.84	4159472.65	0.010853	0.007361	0.01085
557319.39	4159470.22	0.012326	0.00836	0.01233
557333.98	4159459.28	0.009459	0.006416	0.00946
557414.82	4159540.72	0.024201	0.016415	0.02420
557409.35	4159527.35	0.020953	0.014212	0.02095
557434.27	4159539.51	0.020555	0.013942	0.02055
557444.6	4159533.43	0.017947	0.012173	0.01795
557423.32	4159525.53	0.01895	0.012854	0.01895
557436.09	4159520.06	0.016534	0.011214	0.01653
557411.17	4159514.59	0.017322	0.011749	0.01732
557421.5	4159504.86	0.014599	0.009902	0.01460
557396.58	4159503.65	0.015152	0.010277	0.01515
557389.9	4159491.49	0.012501	0.008479	0.01250
557416.64	4159490.88	0.012143	0.008236	0.01214
557407.52	4159478.73	0.01024	0.006945	0.01024
557168.06	4159588.74	0.021084	0.0143	0.02108
557148	4159602.72	0.015371	0.010425	0.01537
557152.25	4159573.54	0.016299	0.011055	0.01630
557141.31	4159563.82	0.013751	0.009326	0.01375
557129.16	4159560.17	0.011661	0.007909	0.01166
557187.5	4159554.7	0.026443	0.017935	0.02644
557197.23	4159543.76	0.028573	0.01938	0.02857
557209.99	4159532.82	0.030966	0.021003	0.03097
557217.29	4159523.7	0.030611	0.020762	0.03061
557208.78	4159513.98	0.025189	0.017084	0.02519
557199.66	4159508.51	0.021765	0.014762	0.02177
557171.7	4159541.33	0.019492	0.01322	0.01949
557182.03	4159531.61	0.021212	0.014387	0.02121
557189.94	4159523.7	0.022183	0.015046	0.02218
557227.62	4159505.47	0.026861	0.018219	0.02686
557234.91	4159497.57	0.025277	0.017144	0.02528
557242.81	4159489.06	0.023182	0.015724	0.02318
557244.89	4159481.77	0.021204	0.014382	0.02120
557254.36	4159473.87	0.019058	0.012926	0.01906
557248.89	4159465.36	0.017091	0.011592	0.01709
557235.52	4159458.67	0.015614	0.010591	0.01561
557232.48	4159471.43	0.018023	0.012224	0.01802
557224.58	4159479.34	0.019221	0.013037	0.01922
557216.68	4159487.84	0.020284	0.013758	0.02028
557217.29	4159497.57	0.022713	0.015405	0.02271
557410.56	4159576.58	0.036667	0.02487	0.03667
557406.91	4159566.86	0.035245	0.023906	0.03525
557402.66	4159559.56	0.034063	0.023104	0.03406
557484.22	4159816.64	0.002624	0.00178	0.00262
557496.09	4159831.48	0.002257	0.001531	0.00226
557572.3	4159760.22	0.003026	0.002052	0.00303
557586.15	4159749.34	0.003109	0.002109	0.00311
557601.99	4159736.47	0.003189	0.002163	0.00319
557576.26	4159804.76	0.002134	0.001447	0.00213
557595.06	4159790.91	0.002225	0.001509	0.00223
557608.92	4159776.06	0.002357	0.001599	0.00236
557584.17	4159776.06	0.002564	0.001739	0.00256
557598.03	4159762.2	0.002699	0.001831	0.00270
557646.53	4159741.42	0.002568	0.001742	0.00257
557635.64	4159723.61	0.00299	0.002028	0.00299
557623.76	4159706.78	0.003484	0.002363	0.00348
557615.84	4159692.93	0.003921	0.00266	0.00392
557645.54	4159689.96	0.003428	0.002325	0.00343
557670.28	4159681.05	0.003173	0.002152	0.00317
557698.98	4159665.22	0.002958	0.002006	0.00296
557737.58	4159684.02	0.002337	0.001585	0.00234
557727.68	4159666.2	0.002596	0.001761	0.00260
557720.75	4159646.41	0.002851	0.001933	0.00285
557682.15	4159704.8	0.002699	0.001831	0.00270
557662.36	4159772.1	0.002014	0.001366	0.00201
557717.78	4159753.3	0.001863	0.001264	0.00186
557759.35	4159751.32	0.001636	0.00111	0.00164
557754.4	4159713.71	0.001955	0.001326	0.00195
557691.06	4159793.87	0.001636	0.00111	0.00164
557718.77	4159784.97	0.001577	0.001069	0.00158
557736.59	4159778.04	0.001549	0.00105	0.00155
CONCUNIT ug	/m^3	0	0	0.00000
DEPUNIT g/m	^2	0	0	0.00000

Maximum PM2.5	0.40
BAAQMD threshold of significance	0.3
Exceed thresholds?	Yes

Burlingame

With Mitigation

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Construction Scheduling

2019		
8	hours/day	
5	days/week	
52	weeks/year	*start from 1/1/2019
2080	hours/year	

Onsite Construction Area Source Size (m2): 1766.6 from AERMOD

Onsite Construction PM2.5 Emissions

2019	Construction Activity	Onsite Annual DPM Exhaust Emissions (tons/year)	Onsite Annual DPM Exhaust Emissions (g/sec)	Onsite DPM Source Exhaust Emissions (g/m2-sec)
	Demolition	1.000E-04	1.213E-05	6.864E-09
	Site Preparation	3.100E-04	3.759E-05	2.128E-08
	Grading	6.000E-05	7.276E-06	4.118E-09
	Building Construction	1.690E-03	2.049E-04	1.160E-07
	Total	**2.160E-03**	**2.619E-04**	**1.483E-07**

Offsite Construction Vehicle PM2.5 Emissions

2019	Construction Activity	Offsite Hauling Annual DPM Exhaust Emissions (tons/year)	Offsite Vendor Annual DPM Exhaust Emissions (tons/year)	Offsite Workers Annual DPM Exhaust Emissions (tons/year)	
	Demolition	3.000E-05	0.000E+00	0.000E+00	
	Site Preparation	1.000E-04	0.000E+00	0.000E+00	
	Grading	0.000E+00	0.000E+00	0.000E+00	
	Building Construction	0.000E+00	4.000E-04	1.200E-04	
	Total (tons/year)	**1.300E-04**	**4.000E-04**	**1.200E-04**	**6.500E-04**
	Trip Distance assumed in CalEEMod (mi)	20.0	7.3	10.8	
	Offsite Project Trip Distance Along Roadway Segment Project>California Drive (mi)	0.47	0.47	0.47	
	Offsite Project Emissions Along Roadway Segment Project>California Drive (tons/year)	**3.042E-06**	**2.564E-05**	**5.200E-06**	

Offsite Emissions Along Roadway Segment Analyzed	
Total Offsite Project Exhaust Emissions (tons/year)	**3.388E-05**
Total Offsite Project Exhaust Emissions (grams/sec)	**4.109E-06**

Onsite Exhaust Emissions (tons/year)	**2.160E-03**
Total Onsite Emissions (tons/year)	**2.160E-03**
Onsite Exhaust Emissions (g/m2-sec)	**1.483E-07**

Total PM@2.5 Exhaust (tons/year)	2.194E-03

Burlingame

With Mitigation

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Construction Scheduling

	2020	
	8 hours/day	
	5 days/week	**end at 6/4/2020
	26 weeks/year	
	1040 hours/year	

Onsite Construction Area Source Size (m2): 1766.60

Onsite Construction PM2.5 Emissions

2020		**Onsite**	**Onsite**	**Onsite DPM**
	Construction Activity	**Annual DPM**	**Annual DPM**	**Source Exhaust**
		Exhaust Emissions	**Exhaust Emissions**	**Emissions**
		(tons/year)	**(g/sec)**	**(g/m2-sec)**
	Building Construction	7.100E-04	1.722E-04	9.747E-08
	Paving	9.000E-05	2.183E-05	1.236E-08
	Architectural Coating	7.800E-04	1.892E-04	1.071E-07
	Total	**1.580E-03**	**3.832E-04**	**2.169E-07**

Offsite Construction Vehicle PM2.5 Emissions

2020		**Offsite Hauling**	**Offsite Vendor**	**Offsite Workers**	
		Annual DPM	**Annual DPM**	**Annual DPM**	
	Construction Activity	**Exhaust Emissions**	**Exhaust Emissions**	**Exhaust Emissions**	
		(tons/year)	**(tons/year)**	**(tons/year)**	
	Building Construction	0.000E+00	1.100E-04	5.000E-05	
	Paving	0.000E+00	0.000E+00	0.000E+00	
	Architectural Coating	0.000E+00	0.000E+00	0.000E+00	
	Total (tons/year)	**0.000E+00**	**1.100E-04**	**5.000E-05**	**1.600E-04**
	Trip Distance assumed in CalEEMod (mi)	20.0	7.3	10.8	
	Offsite Project Trip Distance Project>California Drive (mi)	0.47	0.47	0.47	
	Offsite Project Emissions Project>California Drive (tons/year)	**0.000E+00**	**7.051E-06**	**2.166E-06**	

Emissions Along Roadway Segment	
Offsite Project Exhaust Emissions (tons/year)	**9.218E-06**
Offsite Project Exhaust Emissions (grams/sec)	**2.236E-06**
Offsite Project Fugitive Emissions (tons/year)	**0.000E+00**
Offsite Project Fugitive Emissions (grams/sec)	**0.000E+00**

Onsite Exhaust Emissions (tons/year)	**1.580E-03**
Total Onsite Emissions (tons/year)	**1.580E-03**
Onsite Exhaust Emissions (g/m2-sec)	**2.169E-07**

Total PM@2.5 Exhaust (tons/year)	1.589E-03
Total PM2.5 (tons/year)	**1.589E-03**

Burlingame

2019 **With Mitigation** **Offsite Sensitive Receptors**

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate: 1.4826E-07
Annual Average Offsite DPM Exhaust Emission Rate: 4.1086E-06

X (m)	Y (m)	Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
557237.31	4159639.73	0.21944	0.00325	0.00004	1.6434E-05	0.00327
557240.38	4159649.39	0.20372	0.00302	0.00005	2.0543E-05	0.00304
557228.08	4159655.54	0.13189	0.00196	0.00005	2.0543E-05	0.00198
557218.42	4159660.81	0.09839	0.00146	0.00005	2.0543E-05	0.00148
557215.35	4159648.39	0.10625	0.00158	0.00004	1.6434E-05	0.00159
557208.76	4159636.66	0.10323	0.00153	0.00003	1.2330E-05	0.00154
557223.25	4159632.27	0.15557	0.00231	0.00003	1.2330E-05	0.00232
557213.15	4159625.24	0.13474	0.00185	0.00003	1.2330E-05	0.00186
557202.62	4159616.02	0.10082	0.00149	0.00002	8.2172E-06	0.00150
557192.08	4159607.68	0.08176	0.00121	0.00002	8.2172E-06	0.00122
557177.59	4159617.34	0.06041	0.00090	0.00002	8.2172E-06	0.00090
557186.81	4159625.24	0.06968	0.00103	0.00002	8.2172E-06	0.00104
557177.15	4159637.1	0.05523	0.00082	0.00002	8.2172E-06	0.00083
557187.69	4159641.05	0.06408	0.00096	0.00003	1.2330E-05	0.00098
557198.22	4159646.32	0.0763	0.00113	0.00003	1.2330E-05	0.00114
557205.25	4159662.13	0.07477	0.00111	0.00005	2.0543E-05	0.00113
557190.76	4159663.89	0.05704	0.00085	0.00004	1.6434E-05	0.00086
557168.36	4159641.05	0.04688	0.00070	0.00002	8.2172E-06	0.00070
557162.66	4159631.83	0.04477	0.00066	0.00002	8.2172E-06	0.00067
557155.19	4159640.17	0.03868	0.00057	0.00002	8.2172E-06	0.00058
557259.7	4159617.34	0.68173	0.01011	0.00003	1.2330E-05	0.01012
557267.17	4159612.07	0.85452	0.01267	0.00002	8.2172E-06	0.01268
557275.51	4159606.36	0.97169	0.01441	0.00002	8.2172E-06	0.01441
557285.17	4159601.53	1.00929	0.01496	0.00002	8.2172E-06	0.01497
557277.7	4159590.99	0.66885	0.00992	0.00002	8.2172E-06	0.00992
557268.92	4159582.21	0.43757	0.00649	0.00001	4.1086E-06	0.00649
557257.51	4159590.11	0.42566	0.00631	0.00002	8.2172E-06	0.00632
557268.04	4159596.26	0.64768	0.00960	0.00002	8.2172E-06	0.00961
557255.31	4159606.36	0.53878	0.00799	0.00002	8.2172E-06	0.00800
557245.21	4159600.65	0.34849	0.00517	0.00002	8.2172E-06	0.00518
557304.05	4159587.04	0.57257	0.00849	0.00001	4.1086E-06	0.00849
557313.27	4159582.21	0.41546	0.00616	0.00001	4.1086E-06	0.00616
557324.69	4159576.06	0.28428	0.00421	0.00001	4.1086E-06	0.00422
557335.23	4159568.16	0.19649	0.00291	0.00001	4.1086E-06	0.00292
557324.25	4159555.86	0.14957	0.00222	0.00001	4.1086E-06	0.00222
557308.88	4159555.96	0.23946	0.00355	0.00001	4.1086E-06	0.00355
557297.46	4159576.06	0.39992	0.00593	0.00001	4.1086E-06	0.00593
557287.37	4159568.16	0.3177	0.00471	0.00001	4.1086E-06	0.00471
557308.88	4159554.55	0.16829	0.00250	0.00001	4.1086E-06	0.00250
557322.93	4159544.45	0.11182	0.00166	0.00001	4.1086E-06	0.00166
557380.02	4159577.38	0.14321	0.00212	0.00001	4.1086E-06	0.00213
557388.8	4159572.55	0.11863	0.00176	0.00001	4.1086E-06	0.00176
557372.55	4159563.33	0.12373	0.00183	0.00001	4.1086E-06	0.00184
557377.38	4159544.11	0.09955	0.00148	0.00001	4.1086E-06	0.00148
557387.48	4159547.08	0.08145	0.00121	0.00001	4.1086E-06	0.00121
557397.14	4159542.69	0.07096	0.00105	0.00001	4.1086E-06	0.00106
557363.33	4159548.4	0.09727	0.00144	0.00001	4.1086E-06	0.00145
557370.36	4159541.81	0.08159	0.00121	0.00001	4.1086E-06	0.00121
557380.02	4159536.54	0.07043	0.00104	0.00001	4.1086E-06	0.00105
557387.04	4159530.39	0.06117	0.00091	0.00000	0.0000E+00	0.00091
557231.16	4159591.87	0.20949	0.00311	0.00002	8.2172E-06	0.00311
557240.38	4159585.28	0.25082	0.00372	0.00001	4.1086E-06	0.00372
557248.28	4159575.62	0.2577	0.00382	0.00001	4.1086E-06	0.00382
557255.31	4159567.28	0.24609	0.00365	0.00001	4.1086E-06	0.00365
557262.77	4159557.62	0.2152	0.00319	0.00001	4.1086E-06	0.00319
557278.58	4159554.98	0.21483	0.00319	0.00001	4.1086E-06	0.00319
557288.24	4159548.84	0.17555	0.00260	0.00001	4.1086E-06	0.00261
557296.15	4159541.81	0.13768	0.00204	0.00001	4.1086E-06	0.00205
557306.25	4159536.1	0.10859	0.00161	0.00001	4.1086E-06	0.00161
557315.03	4159528.2	0.08345	0.00124	0.00001	4.1086E-06	0.00124
557303.59	4159768.64	0.02659	0.00039	0.00001	4.1086E-06	0.00040
557313.32	4159775.93	0.02307	0.00034	0.00001	4.1086E-06	0.00035
557324.26	4159785.66	0.01937	0.00029	0.00001	4.1086E-06	0.00029
557335.2	4159777.76	0.01977	0.00029	0.00001	4.1086E-06	0.00030
557301.16	4159794.78	0.01962	0.00029	0.00001	4.1086E-06	0.00030
557280.5	4159805.11	0.01865	0.00028	0.00001	4.1086E-06	0.00028
557260.44	4159790.52	0.02232	0.00033	0.00001	4.1086E-06	0.00034
557268.34	4159811.19	0.01781	0.00026	0.00001	4.1086E-06	0.00027
557222.76	4159585.09	0.16011	0.00237	0.00001	4.1086E-06	0.00238
557233.7	4159575.97	0.18958	0.00281	0.00001	4.1086E-06	0.00281
557238.56	4159566.86	0.18434	0.00273	0.00001	4.1086E-06	0.00274
557246.46	4159557.13	0.17734	0.00263	0.00001	4.1086E-06	0.00263
557215.46	4159571.72	0.12303	0.00182	0.00001	4.1086E-06	0.00183
557230.05	4159553.49	0.13135	0.00195	0.00001	4.1086E-06	0.00195
557240.38	4159541.94	0.12676	0.00188	0.00001	4.1086E-06	0.00188
557270.16	4159539.51	0.14623	0.00217	0.00001	4.1086E-06	0.00217
557280.5	4159531	0.11921	0.00177	0.00001	4.1086E-06	0.00177
557291.44	4159535.06	0.08893	0.00132	0.00001	4.1086E-06	0.00132
557300.55	4159532.76	0.07165	0.00106	0.00001	4.1086E-06	0.00107
557308.34	4159526.74	0.11191	0.00166	0.00001	4.1086E-06	0.00166
557288.4	4159508.51	0.07322	0.00109	0.00001	4.1086E-06	0.00109
557200.88	4159563.82	0.08784	0.00130	0.00001	4.1086E-06	0.00131
557211.21	4159552.27	0.09568	0.00142	0.00001	4.1086E-06	0.00142
557220.33	4159540.72	0.09712	0.00144	0.00001	4.1086E-06	0.00144
557244.03	4159521.27	0.0939	0.00139	0.00001	4.1086E-06	0.00140
557261.65	4159513.98	0.08819	0.00131	0.00001	4.1086E-06	0.00131
557271.38	4159502.43	0.07156	0.00106	0.00001	4.1086E-06	0.00107
557244.64	4159508.12	0.0781	0.00116	0.00001	4.1086E-06	0.00116
557258.01	4159501.22	0.07127	0.00106	0.00001	4.1086E-06	0.00106
557283.53	4159491.49	0.05677	0.00084	0.00000	0.0000E+00	0.00084
557271.38	4159479.94	0.05036	0.00075	0.00000	0.0000E+00	0.00075
557355.86	4159534.04	0.07294	0.00108	0.00001	4.1086E-06	0.00109
557366.19	4159531	0.06625	0.00098	0.00001	4.1086E-06	0.00099
557377.13	4159525.53	0.05781	0.00086	0.00000	0.0000E+00	0.00086
557385.03	4159514.59	0.04661	0.00069	0.00000	0.0000E+00	0.00069
557353.43	4159518.84	0.05337	0.00079	0.00000	0.0000E+00	0.00079
557377.74	4159501.22	0.03722	0.00055	0.00000	0.0000E+00	0.00055
557343.71	4159507.9	0.04533	0.00067	0.00000	0.0000E+00	0.00067
557356.47	4159501.82	0.03886	0.00058	0.00000	0.0000E+00	0.00058
557369.23	4159492.1	0.03225	0.00048	0.00000	0.0000E+00	0.00048
557336.41	4159496.96	0.03961	0.00059	0.00000	0.0000E+00	0.00059
557353.43	4159479.94	0.02786	0.00041	0.00000	0.0000E+00	0.00041
557327.3	4159481.16	0.03366	0.00050	0.00000	0.0000E+00	0.00050
557338.84	4159472.65	0.02726	0.00040	0.00000	0.0000E+00	0.00040
557319.39	4159470.22	0.03096	0.00046	0.00000	0.0000E+00	0.00046
557333.98	4159459.28	0.02376	0.00035	0.00000	0.0000E+00	0.00035
557414.82	4159540.72	0.06079	0.00090	0.00000	0.0000E+00	0.00090
557409.35	4159527.35	0.05263	0.00078	0.00000	0.0000E+00	0.00078
557434.27	4159539.51	0.05163	0.00077	0.00000	0.0000E+00	0.00077
557444.6	4159533.43	0.04508	0.00067	0.00000	0.0000E+00	0.00067
557423.32	4159525.53	0.0476	0.00071	0.00000	0.0000E+00	0.00071
557436.09	4159520.06	0.04153	0.00062	0.00000	0.0000E+00	0.00062
557411.17	4159514.59	0.04351	0.00065	0.00000	0.0000E+00	0.00065
557421.5	4159504.86	0.03667	0.00054	0.00000	0.0000E+00	0.00054
557396.58	4159503.65	0.03806	0.00056	0.00000	0.0000E+00	0.00056
557389.9	4159491.49	0.0314	0.00047	0.00000	0.0000E+00	0.00047
557416.64	4159490.88	0.0305	0.00045	0.00000	0.0000E+00	0.00045
557407.12	4159478.73	0.02572	0.00038	0.00000	0.0000E+00	0.00038
557168.06	4159588.74	0.05295	0.00079	0.00001	4.1086E-06	0.00079
557148	4159602.72	0.0386	0.00057	0.00001	4.1086E-06	0.00058
557152.25	4159573.54	0.04093	0.00061	0.00001	4.1086E-06	0.00061
557141.31	4159563.82	0.03453	0.00051	0.00001	4.1086E-06	0.00052
557129.16	4159560.17	0.02928	0.00043	0.00001	4.1086E-06	0.00044
557187.5	4159554.7	0.06641	0.00098	0.00001	4.1086E-06	0.00099
557197.23	4159543.76	0.07176	0.00106	0.00001	4.1086E-06	0.00107
557209.99	4159532.82	0.07777	0.00115	0.00001	4.1086E-06	0.00116
557217.29	4159523.7	0.07688	0.00114	0.00001	4.1086E-06	0.00114
557208.78	4159513.98	0.06326	0.00094	0.00001	4.1086E-06	0.00094
557199.66	4159508.51	0.05466	0.00081	0.00001	4.1086E-06	0.00081
557171.7	4159541.33	0.04895	0.00073	0.00001	4.1086E-06	0.00073
557182.03	4159531.63	0.05327	0.00079	0.00001	4.1086E-06	0.00079
557189.94	4159523.7	0.05571	0.00083	0.00001	4.1086E-06	0.00083
557227.62	4159505.47	0.06746	0.00100	0.00001	4.1086E-06	0.00100
557234.91	4159497.57	0.06348	0.00094	0.00001	4.1086E-06	0.00095
557242.81	4159489.06	0.05823	0.00086	0.00000	0.0000E+00	0.00086
557248.89	4159481.77	0.05326	0.00079	0.00000	0.0000E+00	0.00079
557254.36	4159473.87	0.04787	0.00071	0.00000	0.0000E+00	0.00071
557248.89	4159465.36	0.04293	0.00064	0.00000	0.0000E+00	0.00064
557235.52	4159458.67	0.03922	0.00058	0.00000	0.0000E+00	0.00058
557232.48	4159471.43	0.04527	0.00067	0.00000	0.0000E+00	0.00067
557224.58	4159479.34	0.04828	0.00072	0.00000	0.0000E+00	0.00072
557216.68	4159487.84	0.05095	0.00076	0.00000	0.0000E+00	0.00076
557217.29	4159497.57	0.05704	0.00085	0.00001	4.1086E-06	0.00085
557410.56	4159576.58	0.09209	0.00137	0.00001	4.1086E-06	0.00137
557406.91	4159566.86	0.08852	0.00131	0.00001	4.1086E-06	0.00132
557402.66	4159559.56	0.08555	0.00127	0.00001	4.1086E-06	0.00127
557484.22	4159816.64	0.00659	0.00010	0.00000	0.0000E+00	0.00010
557496.09	4159811.48	0.00567	0.00008	0.00000	0.0000E+00	0.00008
557572.3	4159760.22	0.0076	0.00011	0.00000	0.0000E+00	0.00011
557586.15	4159744.34	0.00781	0.00012	0.00000	0.0000E+00	0.00012
557601.99	4159736.47	0.00801	0.00012	0.00000	0.0000E+00	0.00012
557576.26	4159804.76	0.00536	0.00008	0.00000	0.0000E+00	0.00008
557595.06	4159790.91	0.00559	0.00008	0.00000	0.0000E+00	0.00008
557608.92	4159776.06	0.00592	0.00009	0.00000	0.0000E+00	0.00009
557594.17	4159776.06	0.00644	0.00010	0.00000	0.0000E+00	0.00010
557598.03	4159762.2	0.00678	0.00010	0.00000	0.0000E+00	0.00010
557646.53	4159741.42	0.00645	0.00010	0.00000	0.0000E+00	0.00010
557635.64	4159723.61	0.00751	0.00011	0.00000	0.0000E+00	0.00011
557623.76	4159736.78	0.00875	0.00013	0.00000	0.0000E+00	0.00013
557615.84	4159692.93	0.00985	0.00015	0.00000	0.0000E+00	0.00015
557645.54	4159689.96	0.00861	0.00013	0.00000	0.0000E+00	0.00013
557670.28	4159681.05	0.00797	0.00012	0.00000	0.0000E+00	0.00012
557698.98	4159665.22	0.00743	0.00011	0.00000	0.0000E+00	0.00011
557737.58	4159684.02	0.00587	0.00009	0.00000	0.0000E+00	0.00009
557727.68	4159666.2	0.00652	0.00010	0.00000	0.0000E+00	0.00010
557720.75	4159646.41	0.00716	0.00011	0.00000	0.0000E+00	0.00011
557682.15	4159734.8	0.00678	0.00010	0.00000	0.0000E+00	0.00010
557662.36	4159772.1	0.00506	0.00008	0.00000	0.0000E+00	0.00008
557717.78	4159753.3	0.00468	0.00007	0.00000	0.0000E+00	0.00007
557759.35	4159751.32	0.00411	0.00006	0.00000	0.0000E+00	0.00006
557754.4	4159713.71	0.00491	0.00007	0.00000	0.0000E+00	0.00007
557691.06	4159793.87	0.00411	0.00006	0.00000	0.0000E+00	0.00006
557718.77	4159784.97	0.00396	0.00006	0.00000	0.0000E+00	0.00006
557736.59	4159784.04	0.00389	0.00006	0.00000	0.0000E+00	0.00006
CONCUNIT ug	/m^3	0	0.00000	0.00000	0.0000E+00	0.00000
DEPUNIT g/m	^2	0	0.00000	0.00000	0.0000E+00	0.00000

Burlingame **2020** **With Mitigation** **at Sensitive Receptors**

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate: 2.16905E-07 grams/m2/sec

Annual Average Offsite DPM Exhaust Emission Rate: 2.23554E-06 grams/sec

X (m)	Y (m)	Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
557237.31	4159639.73	0.21944	0.00476	0.00004	8.94217E-06	0.00477
557240.38	4159649.39	0.20372	0.00442	0.00005	1.11777E-05	0.00443
557228.08	4159655.54	0.13189	0.00286	0.00005	1.11777E-05	0.00287
557218.42	4159660.81	0.09839	0.00213	0.00005	1.11777E-05	0.00215
557215.35	4159649.39	0.10625	0.00230	0.00004	8.94217E-06	0.00231
557208.76	4159636.66	0.10323	0.00224	0.00003	6.70662E-06	0.00225
557223.25	4159632.27	0.15557	0.00337	0.00003	6.70662E-06	0.00338
557213.15	4159625.24	0.12474	0.00271	0.00003	6.70662E-06	0.00271
557202.62	4159616.02	0.10082	0.00219	0.00002	4.47108E-06	0.00219
557192.08	4159607.68	0.08176	0.00177	0.00002	4.47108E-06	0.00178
557177.59	4159617.34	0.06041	0.00131	0.00002	4.47108E-06	0.00131
557186.81	4159625.24	0.06968	0.00151	0.00002	4.47108E-06	0.00152
557177.15	4159637.1	0.05523	0.00120	0.00002	4.47108E-06	0.00120
557187.69	4159641.05	0.06498	0.00141	0.00003	6.70662E-06	0.00142
557198.22	4159646.32	0.0763	0.00165	0.00003	6.70662E-06	0.00166
557205.25	4159662.13	0.07477	0.00162	0.00005	1.11777E-05	0.00163
557190.76	4159663.89	0.05704	0.00124	0.00004	8.94217E-06	0.00125
557168.36	4159641.05	0.04688	0.00102	0.00002	4.47108E-06	0.00102
557162.66	4159631.83	0.04477	0.00097	0.00002	4.47108E-06	0.00098
557155.19	4159640.17	0.03868	0.00084	0.00002	4.47108E-06	0.00084
557259.7	4159617.34	0.68173	0.01479	0.00003	6.70662E-06	0.01479
557267.17	4159612.07	0.85452	0.01853	0.00002	4.47108E-06	0.01854
557275.51	4159606.36	0.97169	0.02108	0.00002	4.47108E-06	0.02108
557285.17	4159601.53	1.00929	0.02189	0.00002	4.47108E-06	0.02190
557277.7	4159590.99	0.66885	0.01451	0.00002	4.47108E-06	0.01451
557268.92	4159582.21	0.43757	0.00949	0.00001	2.23554E-06	0.00949
557257.51	4159590.11	0.42566	0.00923	0.00002	4.47108E-06	0.00924
557268.04	4159596.26	0.64768	0.01405	0.00002	4.47108E-06	0.01405
557255.31	4159606.36	0.53878	0.01169	0.00002	4.47108E-06	0.01169
557245.21	4159600.65	0.34849	0.00756	0.00002	4.47108E-06	0.00756
557304.05	4159587.04	0.57257	0.01242	0.00001	2.23554E-06	0.01242
557311.27	4159582.21	0.41546	0.00901	0.00001	2.23554E-06	0.00901
557324.69	4159576.06	0.28428	0.00617	0.00001	2.23554E-06	0.00617
557335.23	4159568.16	0.19649	0.00426	0.00001	2.23554E-06	0.00426
557324.25	4159555.86	0.14957	0.00324	0.00001	2.23554E-06	0.00325
557308.88	4159565.96	0.23946	0.00519	0.00001	2.23554E-06	0.00520
557297.46	4159576.06	0.39992	0.00867	0.00001	2.23554E-06	0.00868
557287.37	4159568.16	0.3177	0.00689	0.00001	2.23554E-06	0.00689
557308.88	4159554.55	0.16829	0.00365	0.00001	2.23554E-06	0.00365
557322.93	4159544.45	0.11182	0.00243	0.00001	2.23554E-06	0.00243
557380.02	4159577.38	0.14321	0.00311	0.00001	2.23554E-06	0.00311
557388.8	4159572.55	0.11863	0.00257	0.00001	2.23554E-06	0.00258
557372.55	4159563.33	0.12373	0.00268	0.00001	2.23554E-06	0.00269
557377.38	4159554.11	0.09955	0.00216	0.00001	2.23554E-06	0.00216
557387.48	4159547.08	0.08145	0.00177	0.00001	2.23554E-06	0.00177
557397.14	4159542.69	0.07096	0.00154	0.00001	2.23554E-06	0.00154
557363.33	4159548.4	0.09727	0.00211	0.00001	2.23554E-06	0.00211
557370.36	4159541.81	0.08159	0.00177	0.00001	2.23554E-06	0.00177
557380.02	4159536.54	0.07043	0.00153	0.00001	2.23554E-06	0.00153
557387.04	4159530.39	0.06117	0.00133	0.00000	0.00000E+00	0.00133
557231.16	4159591.87	0.20949	0.00454	0.00002	4.47108E-06	0.00455
557240.38	4159585.28	0.25082	0.00544	0.00001	2.23554E-06	0.00544
557248.28	4159575.62	0.2577	0.00559	0.00001	2.23554E-06	0.00559
557255.31	4159567.28	0.24609	0.00534	0.00001	2.23554E-06	0.00534
557262.77	4159557.62	0.2152	0.00467	0.00001	2.23554E-06	0.00467
557278.58	4159554.98	0.21483	0.00466	0.00001	2.23554E-06	0.00466
557288.24	4159548.84	0.17555	0.00381	0.00001	2.23554E-06	0.00381
557296.15	4159541.81	0.13768	0.00299	0.00001	2.23554E-06	0.00299
557306.25	4159536.1	0.10859	0.00236	0.00001	2.23554E-06	0.00236
557315.03	4159528.2	0.08345	0.00181	0.00001	2.23554E-06	0.00181
557301.59	4159768.64	0.02659	0.00058	0.00001	2.23554E-06	0.00058
557313.32	4159775.93	0.02307	0.00050	0.00001	2.23554E-06	0.00050
557324.26	4159785.66	0.01937	0.00042	0.00001	2.23554E-06	0.00042
557335.2	4159777.76	0.01977	0.00043	0.00001	2.23554E-06	0.00043
557301.16	4159794.78	0.01962	0.00043	0.00001	2.23554E-06	0.00043
557280.5	4159805.11	0.01865	0.00040	0.00001	2.23554E-06	0.00041
557260.44	4159790.52	0.02232	0.00048	0.00001	2.23554E-06	0.00049
557268.34	4159811.19	0.01781	0.00039	0.00001	2.23554E-06	0.00039
557222.76	4159585.09	0.16011	0.00347	0.00001	2.23554E-06	0.00348
557233.7	4159575.97	0.18958	0.00411	0.00001	2.23554E-06	0.00411
557238.56	4159566.88	0.18434	0.00400	0.00001	2.23554E-06	0.00400
557246.46	4159557.13	0.17734	0.00385	0.00001	2.23554E-06	0.00385
557215.46	4159571.72	0.12303	0.00267	0.00001	2.23554E-06	0.00267
557230.05	4159553.49	0.13135	0.00285	0.00001	2.23554E-06	0.00285
557240.38	4159541.94	0.12676	0.00275	0.00001	2.23554E-06	0.00275
557270.16	4159539.51	0.14621	0.00317	0.00001	2.23554E-06	0.00317
557280.5	4159531	0.11921	0.00259	0.00001	2.23554E-06	0.00259
557291.44	4159520.06	0.08893	0.00193	0.00001	2.23554E-06	0.00193
557300.55	4159512.76	0.07165	0.00155	0.00001	2.23554E-06	0.00156
557268.34	4159526.74	0.11192	0.00243	0.00001	2.23554E-06	0.00243
557288.4	4159508.51	0.07322	0.00159	0.00001	2.23554E-06	0.00159
557200.88	4159563.82	0.08784	0.00191	0.00001	2.23554E-06	0.00191
557211.21	4159552.27	0.09568	0.00208	0.00001	2.23554E-06	0.00208
557220.33	4159540.72	0.09712	0.00211	0.00001	2.23554E-06	0.00211
557244.03	4159521.27	0.0939	0.00204	0.00001	2.23554E-06	0.00204
557261.65	4159513.98	0.08819	0.00191	0.00001	2.23554E-06	0.00192
557271.38	4159502.43	0.07156	0.00155	0.00001	2.23554E-06	0.00155
557244.64	4159509.12	0.0781	0.00169	0.00001	2.23554E-06	0.00170
557258.01	4159501.22	0.07127	0.00155	0.00001	2.23554E-06	0.00155
557283.53	4159491.49	0.05677	0.00123	0.00000	0.00000E+00	0.00123
557271.38	4159479.94	0.05036	0.00109	0.00000	0.00000E+00	0.00109
557355.86	4159534.04	0.07294	0.00158	0.00001	2.23554E-06	0.00158
557366.19	4159531	0.06625	0.00144	0.00001	2.23554E-06	0.00144
557377.13	4159525.53	0.05781	0.00125	0.00000	0.00000E+00	0.00125
557385.03	4159534.59	0.04661	0.00101	0.00000	0.00000E+00	0.00101
557353.43	4159518.84	0.05337	0.00116	0.00000	0.00000E+00	0.00116
557377.74	4159501.22	0.03722	0.00081	0.00000	0.00000E+00	0.00081
557343.71	4159507.9	0.04533	0.00098	0.00000	0.00000E+00	0.00098
557356.47	4159501.82	0.03886	0.00084	0.00000	0.00000E+00	0.00084
557369.23	4159492.1	0.03225	0.00070	0.00000	0.00000E+00	0.00070
557336.41	4159496.96	0.03961	0.00086	0.00000	0.00000E+00	0.00086
557353.43	4159479.94	0.02786	0.00060	0.00000	0.00000E+00	0.00060
557327.3	4159481.16	0.03366	0.00073	0.00000	0.00000E+00	0.00073
557338.84	4159472.65	0.02726	0.00059	0.00000	0.00000E+00	0.00059
557319.39	4159470.22	0.03096	0.00067	0.00000	0.00000E+00	0.00067
557333.98	4159459.28	0.02376	0.00052	0.00000	0.00000E+00	0.00052
557414.82	4159540.72	0.06079	0.00132	0.00000	0.00000E+00	0.00132
557409.35	4159527.35	0.05263	0.00114	0.00000	0.00000E+00	0.00114
557434.27	4159539.51	0.05163	0.00112	0.00000	0.00000E+00	0.00112
557444.6	4159533.43	0.04508	0.00098	0.00000	0.00000E+00	0.00098
557423.32	4159525.53	0.0476	0.00103	0.00000	0.00000E+00	0.00103
557436.09	4159520.06	0.04153	0.00090	0.00000	0.00000E+00	0.00090
557411.17	4159514.59	0.04351	0.00094	0.00000	0.00000E+00	0.00094
557421.5	4159504.86	0.03667	0.00080	0.00000	0.00000E+00	0.00080
557396.58	4159503.65	0.03806	0.00083	0.00000	0.00000E+00	0.00083
557389.9	4159491.49	0.0314	0.00068	0.00000	0.00000E+00	0.00068
557416.64	4159490.88	0.0305	0.00066	0.00000	0.00000E+00	0.00066
557407.52	4159478.73	0.02572	0.00056	0.00000	0.00000E+00	0.00056
557168.06	4159588.74	0.05295	0.00115	0.00001	2.23554E-06	0.00115
557148	4159602.72	0.0386	0.00084	0.00001	2.23554E-06	0.00084
557152.25	4159573.54	0.04093	0.00089	0.00001	2.23554E-06	0.00089
557141.31	4159563.82	0.03453	0.00075	0.00001	2.23554E-06	0.00075
557129.16	4159560.17	0.02928	0.00064	0.00001	2.23554E-06	0.00064
557187.5	4159554.7	0.06641	0.00144	0.00001	2.23554E-06	0.00144
557197.23	4159543.76	0.07176	0.00156	0.00001	2.23554E-06	0.00156
557209.99	4159532.82	0.07777	0.00169	0.00001	2.23554E-06	0.00169
557217.29	4159523.7	0.07688	0.00167	0.00001	2.23554E-06	0.00167
557208.78	4159513.98	0.06326	0.00137	0.00001	2.23554E-06	0.00137
557199.66	4159508.51	0.05466	0.00119	0.00001	2.23554E-06	0.00119
557171.7	4159541.33	0.04895	0.00106	0.00001	2.23554E-06	0.00106
557182.03	4159531.61	0.05327	0.00116	0.00001	2.23554E-06	0.00116
557189.94	4159523.7	0.05571	0.00121	0.00001	2.23554E-06	0.00121
557227.62	4159505.47	0.06746	0.00146	0.00001	2.23554E-06	0.00147
557234.91	4159497.57	0.06348	0.00138	0.00001	2.23554E-06	0.00138
557242.81	4159489.06	0.05823	0.00126	0.00000	0.00000E+00	0.00126
557248.89	4159481.77	0.05326	0.00116	0.00000	0.00000E+00	0.00116
557254.36	4159473.87	0.04787	0.00104	0.00000	0.00000E+00	0.00104
557248.89	4159465.36	0.04293	0.00093	0.00000	0.00000E+00	0.00093
557235.52	4159458.67	0.03922	0.00085	0.00000	0.00000E+00	0.00085
557232.48	4159471.43	0.04527	0.00098	0.00000	0.00000E+00	0.00098
557224.58	4159479.34	0.04828	0.00105	0.00000	0.00000E+00	0.00105
557216.68	4159487.84	0.05095	0.00111	0.00000	0.00000E+00	0.00111
557217.29	4159497.57	0.05704	0.00124	0.00001	2.23554E-06	0.00124
557410.56	4159576.58	0.09209	0.00200	0.00001	2.23554E-06	0.00200
557406.91	4159566.86	0.08852	0.00192	0.00001	2.23554E-06	0.00192
557402.66	4159559.56	0.08555	0.00186	0.00001	2.23554E-06	0.00186
557484.22	4159816.64	0.00659	0.00014	0.00000	0.00000E+00	0.00014
557496.09	4159831.48	0.00567	0.00012	0.00000	0.00000E+00	0.00012
557572.3	4159760.22	0.0076	0.00016	0.00000	0.00000E+00	0.00016
557586.15	4159749.34	0.00781	0.00017	0.00000	0.00000E+00	0.00017
557601.99	4159736.47	0.00801	0.00017	0.00000	0.00000E+00	0.00017
557576.26	4159804.76	0.00536	0.00012	0.00000	0.00000E+00	0.00012
557595.06	4159790.91	0.00559	0.00012	0.00000	0.00000E+00	0.00012
557608.92	4159776.06	0.00592	0.00013	0.00000	0.00000E+00	0.00013
557584.17	4159776.06	0.00644	0.00014	0.00000	0.00000E+00	0.00014
557598.03	4159762.2	0.00678	0.00015	0.00000	0.00000E+00	0.00015
557646.53	4159741.42	0.00645	0.00014	0.00000	0.00000E+00	0.00014
557635.64	4159723.61	0.00751	0.00016	0.00000	0.00000E+00	0.00016
557623.76	4159706.78	0.00875	0.00019	0.00000	0.00000E+00	0.00019
557615.84	4159692.93	0.00985	0.00021	0.00000	0.00000E+00	0.00021
557645.54	4159689.96	0.00861	0.00019	0.00000	0.00000E+00	0.00019
557670.28	4159681.05	0.00797	0.00017	0.00000	0.00000E+00	0.00017
557698.98	4159665.22	0.00743	0.00016	0.00000	0.00000E+00	0.00016
557737.58	4159644.02	0.00587	0.00013	0.00000	0.00000E+00	0.00013
557727.68	4159666.2	0.00652	0.00014	0.00000	0.00000E+00	0.00014
557720.75	4159646.41	0.00716	0.00016	0.00000	0.00000E+00	0.00016
557682.15	4159704.8	0.00678	0.00015	0.00000	0.00000E+00	0.00015
557662.36	4159772.1	0.00506	0.00011	0.00000	0.00000E+00	0.00011
557717.78	4159753.3	0.00468	0.00010	0.00000	0.00000E+00	0.00010
557759.35	4159751.32	0.00411	0.00009	0.00000	0.00000E+00	0.00009
557754.4	4159713.71	0.00491	0.00011	0.00000	0.00000E+00	0.00011
557691.06	4159793.87	0.00411	0.00009	0.00000	0.00000E+00	0.00009
557718.77	4159784.97	0.00396	0.00009	0.00000	0.00000E+00	0.00009
557736.59	4159778.04	0.00389	0.00008	0.00000	0.00000E+00	0.00008
CONCUNIT ug	/m^3	0	0.00000	0.00000	0.00000E+00	0.00000
DEPUNIT g/m	^2	0	0.00000	0.00000	0.00000E+00	0.00000

Burlingame

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Infant

Cancer Potency Factor: 1.1 $(mg/kg\text{-}day)^{-1}$

Averaging Period 25550 days

Year	Unit DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Frequency days/year	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
3rd Trimester	1	10	361	0.85	350	0.25	11.6
1	1	10	1090	0.85	350	1	139.6
2	1	10	1090	0.85	360	0.5	71.8

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Burlingame **With Mitigation** **Offsite Sensitive Receptors**

Estimated Cancer Risks from Construction DPM - Infant Receptors

X (m)	Y (m)	InfantCancer Risk (3rd Trimester) 2019 (/million)	Infant Cancer Risk (year 1) 2019 (/million)	Infant Cancer Risk (year 2) 2020 (/million)	Total Cancer Risk (/million)
557237.31	4159639.73	0.038	0.457	0.342	0.83670
557240.38	4159649.39	0.035	0.425	0.318	0.77777
557228.08	4159655.54	0.023	0.276	0.206	0.50491
557218.42	4159660.81	0.017	0.207	0.154	0.37766
557215.35	4159649.39	0.018	0.222	0.166	0.40673
557208.76	4159636.66	0.018	0.215	0.161	0.39448
557223.25	4159632.27	0.027	0.324	0.243	0.59330
557213.15	4159625.24	0.022	0.260	0.195	0.47619
557202.62	4159616.02	0.017	0.210	0.157	0.38454
557192.08	4159607.68	0.014	0.170	0.128	0.31214
557177.59	4159617.34	0.010	0.126	0.094	0.23104
557186.81	4159625.24	0.012	0.145	0.109	0.26625
557177.15	4159637.1	0.010	0.115	0.086	0.21136
557187.69	4159641.05	0.011	0.136	0.102	0.24918
557198.22	4159646.32	0.013	0.160	0.119	0.29218
557205.25	4159662.13	0.013	0.158	0.117	0.28793
557190.76	4159663.89	0.010	0.120	0.089	0.21980
557168.36	4159641.05	0.008	0.098	0.073	0.17964
557162.66	4159631.83	0.008	0.094	0.070	0.17163
557155.19	4159640.17	0.007	0.081	0.061	0.14849
557259.7	4159617.34	0.117	1.413	1.062	2.59200
557267.17	4159612.07	0.147	1.770	1.331	3.24759
557275.51	4159606.36	0.167	2.012	1.514	3.69267
557285.17	4159601.53	0.173	2.090	1.572	3.83550
557277.7	4159590.99	0.115	1.386	1.042	2.54229
557268.92	4159582.21	0.075	0.906	0.682	1.66296
557257.51	4159590.11	0.073	0.882	0.663	1.61850
557268.04	4159596.26	0.111	1.342	1.009	2.46187
557255.31	4159606.36	0.092	1.116	0.839	2.04820
557245.21	4159600.65	0.060	0.722	0.543	1.32535
557304.05	4159587.04	0.098	1.186	0.892	2.17577
557311.27	4159582.21	0.071	0.861	0.647	1.57897
557324.69	4159576.06	0.049	0.589	0.443	1.08066
557335.23	4159568.16	0.034	0.407	0.306	0.74718
557324.25	4159555.86	0.026	0.310	0.233	0.56895
557308.88	4159565.96	0.041	0.496	0.373	0.91041
557297.46	4159576.06	0.069	0.828	0.623	1.51994
557287.37	4159568.16	0.054	0.658	0.495	1.20761
557308.88	4159554.55	0.029	0.349	0.262	0.64006
557322.93	4159544.45	0.019	0.232	0.174	0.42555
557380.02	4159577.38	0.025	0.297	0.223	0.54479
557388.8	4159572.55	0.020	0.246	0.185	0.45142
557372.55	4159563.33	0.021	0.257	0.193	0.47079
557377.38	4159554.11	0.017	0.207	0.155	0.37894
557387.48	4159547.08	0.014	0.169	0.127	0.31018
557397.14	4159542.69	0.012	0.147	0.111	0.27033
557363.33	4159548.4	0.017	0.202	0.152	0.37028
557370.36	4159541.81	0.014	0.169	0.127	0.31071
557380.02	4159536.54	0.012	0.146	0.110	0.26832
557387.04	4159530.39	0.010	0.127	0.095	0.23236
557231.16	4159591.87	0.036	0.435	0.327	0.79734
557240.38	4159585.28	0.043	0.520	0.391	0.95356
557248.28	4159575.62	0.044	0.534	0.401	0.97969
557255.31	4159567.28	0.042	0.510	0.383	0.93559
557262.77	4159557.62	0.037	0.446	0.335	0.81825
557278.58	4159554.98	0.037	0.445	0.335	0.81685
557288.24	4159548.84	0.030	0.364	0.274	0.66763
557296.15	4159541.81	0.024	0.286	0.215	0.52378
557306.25	4159536.1	0.019	0.225	0.169	0.41328
557315.03	4159528.2	0.014	0.173	0.130	0.31778
557303.59	4159768.64	0.005	0.056	0.042	0.10179
557313.32	4159775.93	0.004	0.048	0.036	0.08842
557324.26	4159785.66	0.003	0.041	0.030	0.07436
557335.2	4159777.76	0.003	0.041	0.031	0.07588
557301.16	4159794.78	0.003	0.041	0.031	0.07531
557280.5	4159805.11	0.003	0.039	0.029	0.07163
557260.44	4159790.52	0.004	0.047	0.035	0.08557
557268.34	4159811.19	0.003	0.037	0.028	0.06844
557222.76	4159585.09	0.027	0.332	0.250	0.60898
557233.7	4159575.97	0.033	0.393	0.295	0.72093
557238.56	4159566.86	0.032	0.382	0.287	0.70102
557246.46	4159557.13	0.030	0.368	0.276	0.67443
557215.46	4159571.72	0.021	0.255	0.192	0.46813
557230.05	4159553.49	0.023	0.272	0.205	0.49973
557240.38	4159541.94	0.022	0.263	0.198	0.48230
557270.16	4159539.51	0.025	0.303	0.228	0.55618
557280.5	4159531	0.020	0.247	0.186	0.45362
557291.44	4159520.06	0.015	0.185	0.139	0.33860
557300.55	4159512.76	0.012	0.149	0.112	0.27295
557268.34	4159526.74	0.019	0.232	0.174	0.42593
557288.4	4159508.51	0.013	0.152	0.114	0.27892
557200.88	4159563.82	0.015	0.182	0.137	0.33446
557211.21	4159552.27	0.016	0.199	0.149	0.36424
557220.33	4159540.72	0.017	0.202	0.151	0.36971
557244.03	4159521.27	0.016	0.195	0.146	0.35747
557261.65	4159513.98	0.015	0.183	0.138	0.33578
557271.38	4159502.43	0.012	0.149	0.112	0.27261
557244.64	4159509.12	0.013	0.162	0.122	0.29746
557258.01	4159501.22	0.012	0.148	0.111	0.27151
557283.53	4159491.49	0.010	0.118	0.088	0.21565
557271.38	4159479.94	0.009	0.104	0.078	0.19130
557355.86	4159534.04	0.013	0.152	0.114	0.27786
557366.19	4159531	0.011	0.138	0.103	0.25244
557377.13	4159525.53	0.010	0.120	0.090	0.21960
557385.03	4159514.59	0.008	0.096	0.073	0.17706
557353.43	4159518.84	0.009	0.110	0.083	0.20273
557377.74	4159501.22	0.006	0.077	0.058	0.14139
557343.71	4159507.9	0.008	0.094	0.071	0.17219
557356.47	4159501.82	0.007	0.080	0.061	0.14762
557369.23	4159492.1	0.006	0.067	0.050	0.12251
557336.41	4159496.96	0.007	0.082	0.062	0.15046
557353.43	4159479.94	0.005	0.058	0.043	0.10583
557327.3	4159481.16	0.006	0.070	0.052	0.12786
557338.84	4159472.65	0.005	0.056	0.042	0.10355
557319.39	4159470.22	0.005	0.064	0.048	0.11761
557333.98	4159459.28	0.004	0.049	0.037	0.09026
557414.82	4159540.72	0.010	0.126	0.095	0.23092
557409.35	4159527.35	0.009	0.109	0.082	0.19992
557434.27	4159539.51	0.009	0.107	0.080	0.19612
557444.6	4159533.43	0.008	0.093	0.070	0.17124
557423.32	4159525.53	0.008	0.099	0.074	0.18082
557436.09	4159520.06	0.007	0.086	0.065	0.15776
557411.17	4159514.59	0.007	0.090	0.068	0.16528
557421.5	4159504.86	0.006	0.076	0.057	0.13930
557396.58	4159503.65	0.007	0.079	0.059	0.14458
557389.9	4159491.49	0.005	0.065	0.049	0.11928
557416.64	4159490.88	0.005	0.063	0.047	0.11586
557407.52	4159478.73	0.004	0.053	0.040	0.09770
557168.06	4159588.74	0.009	0.110	0.083	0.20192
557148	4159602.72	0.007	0.080	0.060	0.14741
557152.25	4159573.54	0.007	0.085	0.064	0.15626
557141.31	4159563.82	0.006	0.072	0.054	0.13195
557129.16	4159560.17	0.005	0.061	0.046	0.11201
557187.5	4159554.7	0.011	0.138	0.104	0.25305
557197.23	4159543.76	0.012	0.149	0.112	0.27337
557209.99	4159532.82	0.013	0.162	0.121	0.29620
557217.29	4159523.7	0.013	0.160	0.120	0.29282
557208.78	4159513.98	0.011	0.132	0.099	0.24108
557199.66	4159508.51	0.009	0.114	0.085	0.20842
557171.7	4159541.33	0.008	0.102	0.076	0.18673
557182.03	4159531.61	0.009	0.111	0.083	0.20314
557189.94	4159523.7	0.010	0.116	0.087	0.21240
557227.62	4159505.47	0.012	0.140	0.105	0.25704
557234.91	4159497.57	0.011	0.132	0.099	0.24192
557242.81	4159489.06	0.010	0.121	0.091	0.22120
557248.89	4159481.77	0.009	0.110	0.083	0.20232
557254.36	4159473.87	0.008	0.099	0.075	0.18184
557248.89	4159465.36	0.007	0.089	0.067	0.16308
557235.52	4159458.67	0.007	0.081	0.061	0.14898
557232.48	4159471.43	0.008	0.094	0.071	0.17196
557224.58	4159479.34	0.008	0.100	0.075	0.18340
557216.68	4159487.84	0.009	0.105	0.079	0.19354
557217.29	4159497.57	0.010	0.119	0.089	0.21746
557410.56	4159576.58	0.016	0.191	0.144	0.35060
557406.91	4159566.86	0.015	0.184	0.138	0.33704
557402.66	4159559.56	0.015	0.178	0.133	0.32576
557484.22	4159816.64	0.001	0.014	0.010	0.02503
557496.09	4159831.48	0.001	0.012	0.009	0.02154
557572.3	4159760.22	0.001	0.016	0.012	0.02887
557586.15	4159749.34	0.001	0.016	0.012	0.02967
557601.99	4159736.47	0.001	0.017	0.012	0.03043
557576.26	4159804.76	0.001	0.011	0.008	0.02036
557595.06	4159790.91	0.001	0.012	0.009	0.02123
557608.92	4159776.06	0.001	0.012	0.009	0.02249
557584.17	4159776.06	0.001	0.013	0.010	0.02446
557598.03	4159762.2	0.001	0.014	0.011	0.02575
557646.53	4159741.42	0.001	0.013	0.010	0.02450
557635.64	4159723.61	0.001	0.016	0.012	0.02853
557623.76	4159706.78	0.001	0.018	0.014	0.03324
557615.84	4159692.93	0.002	0.020	0.015	0.03742
557645.54	4159689.96	0.001	0.018	0.013	0.03271
557670.28	4159681.05	0.001	0.016	0.012	0.03028
557698.98	4159665.22	0.001	0.015	0.012	0.02822
557737.58	4159684.02	0.001	0.012	0.009	0.02230
557727.68	4159666.2	0.001	0.013	0.010	0.02477
557720.75	4159646.41	0.001	0.015	0.011	0.02720
557682.15	4159704.8	0.001	0.014	0.011	0.02575
557662.36	4159772.1	0.001	0.010	0.008	0.01922
557717.78	4159753.3	0.001	0.010	0.007	0.01778
557759.35	4159751.32	0.001	0.009	0.006	0.01561
557754.4	4159713.71	0.001	0.010	0.008	0.01865
557691.06	4159733.87	0.001	0.009	0.006	0.01561
557718.77	4159784.97	0.001	0.008	0.006	0.01504
557736.59	4159778.04	0.001	0.008	0.006	0.01478
CONCUNIT ug	/m^3	0.000	0.000	0.000	0.00000
DEPUNIT g/m	^2	0.000	0.000	0.000	0.00000

Maximum Caner Risk	3.84
BAAQMD threshold of significance	10
Exceed thresholds?	Yes

Burlingame

With Mitigation

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Child
UTM: (565046,4185977)

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	350	days/year
Averaging Period	25550	days

Year	DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	1	3	572	0.73	1	18.9
2	1	3	572	0.73	1	18.9

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Burlingame **With Mitigation** **at Sensitive Receptors**

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Child Cancer Risk (year 1) 2017 (/million)	Child Cancer Risk (year 2) 2017 (/million)	Total Cancer Risk (/million)
557237.31	4159639.73	0.062	0.090	0.15174
557240.38	4159649.39	0.057	0.084	0.14102
557228.08	4159655.54	0.037	0.054	0.09151
557218.42	4159660.81	0.028	0.040	0.06842
557215.35	4159649.39	0.030	0.044	0.07372
557208.76	4159636.66	0.029	0.042	0.07151
557223.25	4159632.27	0.044	0.064	0.10759
557213.15	4159625.24	0.035	0.051	0.08634
557202.62	4159616.02	0.028	0.041	0.06973
557192.08	4159607.68	0.023	0.034	0.05660
557177.59	4159617.34	0.017	0.025	0.04188
557186.81	4159625.24	0.020	0.029	0.04827
557177.15	4159637.1	0.016	0.023	0.03831
557187.69	4159641.05	0.018	0.027	0.04515
557198.22	4159646.32	0.022	0.031	0.05295
557205.25	4159662.13	0.021	0.031	0.05214
557190.76	4159663.89	0.016	0.024	0.03980
557168.36	4159641.05	0.013	0.019	0.03255
557162.66	4159631.83	0.013	0.018	0.03110
557155.19	4159640.17	0.011	0.016	0.02690
557259.7	4159617.34	0.191	0.279	0.47027
557267.17	4159612.07	0.239	0.350	0.58925
557275.51	4159606.36	0.272	0.398	0.67002
557285.17	4159601.53	0.283	0.413	0.69594
557277.7	4159590.99	0.187	0.274	0.46127
557268.92	4159582.21	0.123	0.179	0.30173
557257.51	4159590.11	0.119	0.174	0.29364
557268.04	4159596.26	0.181	0.265	0.44668
557255.31	4159606.36	0.151	0.221	0.37162
557245.21	4159600.65	0.098	0.143	0.24045
557304.05	4159587.04	0.160	0.234	0.39479
557313.27	4159582.21	0.116	0.170	0.28649
557324.69	4159576.06	0.080	0.116	0.19607
557335.23	4159568.16	0.055	0.080	0.13556
557324.25	4159555.86	0.042	0.061	0.10322
557308.88	4159565.96	0.067	0.098	0.16518
557297.46	4159576.06	0.112	0.164	0.27578
557287.37	4159568.16	0.089	0.130	0.21911
557308.88	4159554.55	0.047	0.069	0.11612
557322.93	4159544.45	0.031	0.046	0.07720
557380.02	4159577.38	0.040	0.059	0.09883
557388.8	4159572.55	0.033	0.049	0.08189
557372.55	4159563.33	0.035	0.051	0.08541
557377.38	4159554.11	0.028	0.041	0.06874
557387.48	4159547.08	0.023	0.033	0.05626
557397.14	4159542.69	0.020	0.029	0.04903
557363.33	4159548.4	0.027	0.040	0.06717
557370.36	4159541.81	0.023	0.033	0.05636
557380.02	4159536.54	0.020	0.029	0.04867
557387.04	4159530.39	0.017	0.025	0.04216
557231.16	4159591.87	0.059	0.086	0.14464
557240.38	4159585.28	0.070	0.103	0.17301
557248.28	4159575.62	0.072	0.106	0.17775
557255.31	4159567.28	0.069	0.101	0.16975
557262.77	4159557.62	0.060	0.088	0.14846
557278.58	4159554.98	0.060	0.088	0.14820
557288.24	4159548.84	0.049	0.072	0.12113
557296.15	4159541.81	0.039	0.056	0.09502
557306.25	4159536.1	0.030	0.045	0.07497
557315.03	4159528.2	0.023	0.034	0.05764
557303.59	4159768.64	0.008	0.011	0.01845
557313.32	4159775.93	0.007	0.009	0.01602
557324.26	4159785.66	0.005	0.008	0.01347
557335.2	4159777.76	0.006	0.008	0.01375
557301.16	4159794.78	0.006	0.008	0.01364
557280.5	4159805.11	0.005	0.008	0.01298
557260.44	4159790.52	0.006	0.009	0.01550
557268.34	4159811.19	0.005	0.007	0.01240
557222.76	4159585.09	0.045	0.066	0.11048
557233.7	4159575.97	0.053	0.078	0.13080
557238.56	4159566.86	0.052	0.076	0.12718
557246.46	4159557.13	0.050	0.073	0.12236
557215.46	4159571.72	0.035	0.050	0.08492
557230.05	4159553.49	0.037	0.054	0.09066
557240.38	4159541.94	0.036	0.052	0.08749
557270.16	4159539.51	0.041	0.060	0.10090
557280.5	4159531	0.033	0.049	0.08229
557291.44	4159520.06	0.025	0.036	0.06142
557300.55	4159512.76	0.020	0.029	0.04951
557268.34	4159526.74	0.031	0.046	0.07727
557288.4	4159508.51	0.021	0.030	0.05059
557200.88	4159563.82	0.025	0.036	0.06067
557211.21	4159552.27	0.027	0.039	0.06607
557220.33	4159540.72	0.027	0.040	0.06706
557244.03	4159521.27	0.026	0.038	0.06484
557261.65	4159513.98	0.025	0.036	0.06091
557271.38	4159502.43	0.020	0.029	0.04945
557244.64	4159509.12	0.022	0.032	0.05395
557258.01	4159501.22	0.020	0.029	0.04925
557283.53	4159491.49	0.016	0.023	0.03913
557271.38	4159479.94	0.014	0.021	0.03471
557355.86	4159534.04	0.020	0.030	0.05040
557366.19	4159531	0.019	0.027	0.04579
557377.13	4159525.53	0.016	0.024	0.03985
557385.03	4159514.59	0.013	0.019	0.03213
557353.43	4159518.84	0.015	0.022	0.03679
557377.74	4159501.22	0.010	0.015	0.02566
557343.71	4159507.9	0.013	0.019	0.03125
557356.47	4159501.82	0.011	0.016	0.02679
557369.23	4159492.1	0.009	0.013	0.02223
557336.41	4159496.96	0.011	0.016	0.02730
557353.43	4159479.94	0.008	0.011	0.01920
557327.3	4159481.16	0.009	0.014	0.02320
557338.84	4159472.65	0.008	0.011	0.01879
557319.39	4159470.22	0.009	0.013	0.02134
557333.98	4159459.28	0.007	0.010	0.01638
557414.82	4159540.72	0.017	0.025	0.04190
557409.35	4159527.35	0.015	0.022	0.03628
557434.27	4159539.51	0.014	0.021	0.03559
557444.6	4159533.43	0.013	0.018	0.03107
557423.32	4159525.53	0.013	0.019	0.03281
557436.09	4159520.06	0.012	0.017	0.02863
557411.17	4159514.59	0.012	0.018	0.02999
557421.5	4159504.86	0.010	0.015	0.02528
557396.58	4159503.65	0.011	0.016	0.02623
557389.9	4159491.49	0.009	0.013	0.02164
557416.64	4159490.88	0.009	0.012	0.02102
557407.52	4159478.73	0.007	0.011	0.01773
557168.06	4159588.74	0.015	0.022	0.03662
557148	4159602.72	0.011	0.016	0.02673
557152.25	4159573.54	0.012	0.017	0.02833
557141.31	4159563.82	0.010	0.014	0.02392
557129.16	4159560.17	0.008	0.012	0.02030
557187.5	4159554.7	0.019	0.027	0.04590
557197.23	4159543.76	0.020	0.029	0.04958
557209.99	4159532.82	0.022	0.032	0.05373
557217.29	4159523.7	0.022	0.032	0.05311
557208.78	4159513.98	0.018	0.026	0.04372
557199.66	4159508.51	0.015	0.022	0.03780
557171.7	4159541.33	0.014	0.020	0.03386
557182.03	4159531.61	0.015	0.022	0.03684
557189.94	4159523.7	0.016	0.023	0.03852
557227.62	4159505.47	0.019	0.028	0.04662
557234.91	4159497.57	0.018	0.026	0.04388
557242.81	4159489.06	0.016	0.024	0.04014
557248.89	4159481.77	0.015	0.022	0.03671
557254.36	4159473.87	0.013	0.020	0.03300
557248.89	4159465.36	0.012	0.018	0.02959
557235.52	4159458.67	0.011	0.016	0.02703
557232.48	4159471.43	0.013	0.019	0.03120
557224.58	4159479.34	0.014	0.020	0.03328
557216.68	4159487.84	0.014	0.021	0.03512
557217.29	4159497.57	0.016	0.023	0.03944
557410.56	4159576.58	0.026	0.038	0.06360
557406.91	4159566.86	0.025	0.036	0.06114
557402.66	4159559.56	0.024	0.035	0.05909
557484.22	4159816.64	0.002	0.003	0.00454
557496.09	4159831.48	0.002	0.002	0.00391
557572.3	4159760.22	0.002	0.003	0.00524
557586.15	4159749.34	0.002	0.003	0.00538
557601.99	4159736.47	0.002	0.003	0.00552
557576.26	4159804.76	0.002	0.002	0.00369
557595.06	4159790.91	0.002	0.002	0.00385
557608.92	4159776.06	0.002	0.002	0.00408
557584.17	4159776.06	0.002	0.003	0.00444
557598.03	4159762.2	0.002	0.003	0.00467
557646.53	4159741.42	0.002	0.003	0.00445
557635.64	4159723.61	0.002	0.003	0.00518
557623.76	4159706.78	0.002	0.004	0.00603
557615.84	4159692.93	0.003	0.004	0.00679
557645.54	4159689.96	0.002	0.004	0.00593
557670.28	4159681.05	0.002	0.003	0.00549
557698.98	4159665.22	0.002	0.003	0.00512
557737.58	4159684.02	0.002	0.002	0.00405
557727.68	4159666.2	0.002	0.003	0.00449
557720.75	4159646.41	0.002	0.003	0.00494
557682.15	4159704.8	0.002	0.003	0.00467
557662.36	4159772.1	0.001	0.002	0.00349
557717.78	4159753.3	0.001	0.002	0.00323
557759.35	4159751.32	0.001	0.002	0.00283
557754.4	4159713.71	0.001	0.002	0.00338
557691.06	4159793.87	0.001	0.002	0.00283
557718.77	4159784.97	0.001	0.002	0.00273
557736.59	4159778.04	0.001	0.002	0.00268
CONCUNIT ug	/m^3	0.000	0.000	0.00000
DEPUNIT g/m	^2	0.000	0.000	0.00000

Maximum Caner Risk
0.7
BAAQMD threshold of significance
10
Exceed thresholds?
No

Burlingame

With Mitigation

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Adult

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	350	days/year
Averaging Period	25550	days

Year	DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	1	1	261	0.72	1	2.8
2	1	1	261	0.72	1	2.8

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Burlingame **With Mitigation** **at Sensitive Receptors**

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Adult Cancer Risk (year 1) 2017 (/million)	Adult Cancer Risk (year 2) 2018 (/million)	Total Cancer Risk (/million)
557237.31	4159639.73	0.009	0.014	0.02276
557240.38	4159649.39	0.009	0.013	0.02116
557228.08	4159655.54	0.006	0.008	0.01373
557218.42	4159660.81	0.004	0.006	0.01026
557215.35	4159649.39	0.005	0.007	0.01106
557208.76	4159636.66	0.004	0.006	0.01073
557223.25	4159632.27	0.007	0.010	0.01614
557213.15	4159625.24	0.005	0.008	0.01295
557202.62	4159616.02	0.004	0.006	0.01046
557192.08	4159607.68	0.003	0.005	0.00849
557177.59	4159617.34	0.003	0.004	0.00628
557186.81	4159625.24	0.003	0.004	0.00724
557177.15	4159637.1	0.002	0.003	0.00575
557187.69	4159641.05	0.003	0.004	0.00677
557198.22	4159646.32	0.003	0.005	0.00794
557205.25	4159662.13	0.003	0.005	0.00782
557190.76	4159663.89	0.002	0.004	0.00597
557168.36	4159641.05	0.002	0.003	0.00488
557162.66	4159631.83	0.002	0.003	0.00467
557155.19	4159640.17	0.002	0.002	0.00404
557259.7	4159617.34	0.029	0.042	0.07055
557267.17	4159612.07	0.036	0.052	0.08840
557275.51	4159606.36	0.041	0.060	0.10051
557285.17	4159601.53	0.042	0.062	0.10440
557277.7	4159590.99	0.028	0.041	0.06920
557268.92	4159582.21	0.018	0.027	0.04526
557257.51	4159590.11	0.018	0.026	0.04405
557268.04	4159596.26	0.027	0.040	0.06701
557255.31	4159606.36	0.023	0.033	0.05575
557245.21	4159600.65	0.015	0.021	0.03607
557304.05	4159587.04	0.024	0.035	0.05922
557313.27	4159582.21	0.017	0.026	0.04298
557324.69	4159576.06	0.012	0.017	0.02941
557335.23	4159568.16	0.008	0.012	0.02034
557324.25	4159555.86	0.006	0.009	0.01548
557308.88	4159565.96	0.010	0.015	0.02478
557297.46	4159576.06	0.017	0.025	0.04137
557287.37	4159568.16	0.013	0.020	0.03287
557308.88	4159554.55	0.007	0.010	0.01742
557322.93	4159544.45	0.005	0.007	0.01158
557380.02	4159577.38	0.006	0.009	0.01483
557388.8	4159572.55	0.005	0.007	0.01228
557372.55	4159563.33	0.005	0.008	0.01281
557377.38	4159554.11	0.004	0.006	0.01031
557387.48	4159547.08	0.003	0.005	0.00844
557397.14	4159542.69	0.003	0.004	0.00736
557363.33	4159548.4	0.004	0.006	0.01008
557370.36	4159541.81	0.003	0.005	0.00845
557380.02	4159536.54	0.003	0.004	0.00730
557387.04	4159530.39	0.003	0.004	0.00633
557231.16	4159591.87	0.009	0.013	0.02170
557240.38	4159585.28	0.011	0.015	0.02595
557248.28	4159575.62	0.011	0.016	0.02667
557255.31	4159567.28	0.010	0.015	0.02546
557262.77	4159557.62	0.009	0.013	0.02227
557278.58	4159554.98	0.009	0.013	0.02223
557288.24	4159548.84	0.007	0.011	0.01817
557296.15	4159541.81	0.006	0.008	0.01425
557306.25	4159536.1	0.005	0.007	0.01125
557315.03	4159528.2	0.004	0.005	0.00865
557303.59	4159768.64	0.001	0.002	0.00277
557313.32	4159775.93	0.001	0.001	0.00240
557324.26	4159785.66	0.001	0.001	0.00202
557335.2	4159777.76	0.001	0.001	0.00206
557301.16	4159794.78	0.001	0.001	0.00205
557280.5	4159805.11	0.001	0.001	0.00195
557260.44	4159790.52	0.001	0.001	0.00233
557268.34	4159811.19	0.001	0.001	0.00186
557222.76	4159585.09	0.007	0.010	0.01657
557233.7	4159575.97	0.008	0.012	0.01962
557238.56	4159566.86	0.008	0.011	0.01908
557246.46	4159557.13	0.007	0.011	0.01836
557215.46	4159571.72	0.005	0.008	0.01274
557230.05	4159553.49	0.006	0.008	0.01360
557240.38	4159541.94	0.005	0.008	0.01313
557270.16	4159539.51	0.006	0.009	0.01514
557280.5	4159531	0.005	0.007	0.01234
557291.44	4159520.06	0.004	0.005	0.00921
557300.55	4159512.76	0.003	0.004	0.00743
557268.34	4159526.74	0.005	0.007	0.01159
557288.4	4159508.51	0.003	0.005	0.00759
557200.88	4159563.82	0.004	0.005	0.00910
557211.21	4159552.27	0.004	0.006	0.00991
557220.33	4159540.72	0.004	0.006	0.01006
557244.03	4159521.27	0.004	0.006	0.00973
557261.65	4159513.98	0.004	0.005	0.00914
557271.38	4159502.43	0.003	0.004	0.00742
557244.64	4159509.12	0.003	0.005	0.00809
557258.01	4159501.22	0.003	0.004	0.00739
557283.53	4159491.49	0.002	0.003	0.00587
557271.38	4159479.94	0.002	0.003	0.00521
557355.86	4159534.04	0.003	0.004	0.00756
557366.19	4159531	0.003	0.004	0.00687
557377.13	4159525.53	0.002	0.004	0.00598
557385.03	4159514.59	0.002	0.003	0.00482
557353.43	4159518.84	0.002	0.003	0.00552
557377.74	4159501.22	0.002	0.002	0.00385
557343.71	4159507.9	0.002	0.003	0.00469
557356.47	4159501.82	0.002	0.002	0.00402
557369.23	4159492.1	0.001	0.002	0.00333
557336.41	4159496.96	0.002	0.002	0.00410
557353.43	4159479.94	0.001	0.002	0.00288
557327.3	4159481.16	0.001	0.002	0.00348
557338.84	4159472.65	0.001	0.002	0.00282
557319.39	4159470.22	0.001	0.002	0.00320
557333.98	4159459.28	0.001	0.001	0.00246
557414.82	4159540.72	0.003	0.004	0.00629
557409.35	4159527.35	0.002	0.003	0.00544
557434.27	4159539.51	0.002	0.003	0.00534
557444.6	4159533.43	0.002	0.003	0.00466
557423.32	4159525.53	0.002	0.003	0.00492
557436.09	4159520.06	0.002	0.003	0.00429
557411.17	4159514.59	0.002	0.003	0.00450
557421.5	4159504.86	0.002	0.002	0.00379
557396.58	4159503.65	0.002	0.002	0.00394
557389.9	4159491.49	0.001	0.002	0.00325
557416.64	4159490.88	0.001	0.002	0.00315
557407.52	4159478.73	0.001	0.002	0.00266
557168.06	4159588.74	0.002	0.003	0.00549
557148	4159602.72	0.002	0.002	0.00401
557152.25	4159573.54	0.002	0.003	0.00425
557141.31	4159563.82	0.001	0.002	0.00359
557129.16	4159560.17	0.001	0.002	0.00305
557187.5	4159554.7	0.003	0.004	0.00689
557197.23	4159543.76	0.003	0.004	0.00744
557209.99	4159532.82	0.003	0.005	0.00806
557217.29	4159523.7	0.003	0.005	0.00797
557208.78	4159513.98	0.003	0.004	0.00656
557199.66	4159508.51	0.002	0.003	0.00567
557171.7	4159541.33	0.002	0.003	0.00508
557182.03	4159531.61	0.002	0.003	0.00553
557189.94	4159523.7	0.002	0.003	0.00578
557227.62	4159505.47	0.003	0.004	0.00609
557234.91	4159497.57	0.003	0.004	0.00658
557242.81	4159489.06	0.002	0.004	0.00602
557248.89	4159481.77	0.002	0.003	0.00551
557254.36	4159473.87	0.002	0.003	0.00495
557248.89	4159465.36	0.002	0.003	0.00444
557235.52	4159458.67	0.002	0.002	0.00406
557232.48	4159471.43	0.002	0.003	0.00468
557224.58	4159479.34	0.002	0.003	0.00499
557216.68	4159487.84	0.002	0.003	0.00527
557217.29	4159497.57	0.002	0.004	0.00592
557410.56	4159576.58	0.004	0.006	0.00954
557406.91	4159566.86	0.004	0.005	0.00917
557402.66	4159559.56	0.004	0.005	0.00886
557484.22	4159816.64	0.000	0.000	0.00068
557496.09	4159831.48	0.000	0.000	0.00059
557572.3	4159760.22	0.000	0.000	0.00079
557586.15	4159749.34	0.000	0.000	0.00081
557601.99	4159736.47	0.000	0.000	0.00083
557576.26	4159804.76	0.000	0.000	0.00055
557595.06	4159790.91	0.000	0.000	0.00058
557608.92	4159776.06	0.000	0.000	0.00061
557584.17	4159776.06	0.000	0.000	0.00067
557598.03	4159762.2	0.000	0.000	0.00070
557646.53	4159741.42	0.000	0.000	0.00067
557635.64	4159723.61	0.000	0.000	0.00078
557623.76	4159706.78	0.000	0.001	0.00090
557615.84	4159692.93	0.000	0.001	0.00102
557645.54	4159689.96	0.000	0.001	0.00089
557670.28	4159681.05	0.000	0.000	0.00082
557698.98	4159665.22	0.000	0.000	0.00077
557737.58	4159684.02	0.000	0.000	0.00061
557727.68	4159666.2	0.000	0.000	0.00067
557720.75	4159646.41	0.000	0.000	0.00074
557682.15	4159704.8	0.000	0.000	0.00070
557662.36	4159772.1	0.000	0.000	0.00052
557717.78	4159753.3	0.000	0.000	0.00048
557759.35	4159751.32	0.000	0.000	0.00042
557754.4	4159713.71	0.000	0.000	0.00051
557691.06	4159793.87	0.000	0.000	0.00042
557718.77	4159784.97	0.000	0.000	0.00041
557736.59	4159778.04	0.000	0.000	0.00040
CONCUNIT ug	/m^3	0.000	0.000	0.00000
DEPUNIT g/m	^2	0.000	0.000	0.00000

Maximum Caner Risk

0.1

BAAQMD threshold of significance

10

Exceed thresholds?

No

Burlingame

With Mitigation at Sensitive Receptors

Chronic Non-Cancer Hazard Index

Reference Exposure Level (REL) for DPM: 5 ug/m3

CNCHI = DPM/REL

X (m)	Y (m)	2019 DPM (ug/m3)	2020 DPM (ug/m3)	Max DPM (ug/m3)	CNCHI
557237.31	4159639.73	0.00327	0.004769	0.004769	0.00095
557240.38	4159649.39	0.003041	0.00443	0.00443	0.00089
557228.08	4159655.54	0.001976	0.002872	0.002872	0.00057
557218.42	4159660.81	0.001479	0.002145	0.002145	0.00043
557215.35	4159649.39	0.001592	0.002314	0.002314	0.00046
557208.76	4159636.66	0.001543	0.002246	0.002246	0.00045
557223.25	4159632.27	0.002319	0.003381	0.003381	0.00068
557213.15	4159625.24	0.001862	0.002712	0.002712	0.00054
557202.62	4159616.02	0.001503	0.002191	0.002191	0.00044
557192.08	4159607.68	0.00122	0.001778	0.001778	0.00036
557177.59	4159617.34	0.000904	0.001315	0.001315	0.00026
557186.81	4159625.24	0.001041	0.001516	0.001516	0.00030
557177.15	4159637.1	0.000827	0.001202	0.001202	0.00024
557187.69	4159641.05	0.000976	0.001416	0.001416	0.00028
557198.22	4159646.32	0.001144	0.001662	0.001662	0.00033
557205.25	4159662.13	0.001129	0.001633	0.001633	0.00033
557190.76	4159663.89	0.000862	0.001246	0.001246	0.00025
557168.36	4159641.05	0.000703	0.001021	0.001021	0.00020
557162.66	4159631.83	0.000672	0.000976	0.000976	0.00020
557155.19	4159640.17	0.000582	0.000843	0.000843	0.00017
557259.7	4159617.34	0.01012	0.014794	0.014794	0.00296
557267.17	4159612.07	0.012678	0.018539	0.018539	0.00371
557275.51	4159606.36	0.014415	0.021081	0.021081	0.00422
557285.17	4159601.53	0.014972	0.021896	0.021896	0.00438
557277.7	4159590.99	0.009925	0.014512	0.014512	0.00290
557268.92	4159582.21	0.006492	0.009493	0.009493	0.00190
557257.51	4159590.11	0.006319	0.009237	0.009237	0.00185
557268.04	4159596.26	0.009611	0.014053	0.014053	0.00281
557255.31	4159606.36	0.007996	0.011691	0.011691	0.00234
557245.21	4159600.65	0.005175	0.007563	0.007563	0.00151
557304.05	4159587.04	0.008493	0.012422	0.012422	0.00248
557313.27	4159582.21	0.006164	0.009014	0.009014	0.00180
557324.69	4159576.06	0.004219	0.006168	0.006168	0.00123
557335.23	4159568.16	0.002917	0.004264	0.004264	0.00085
557324.25	4159555.86	0.002222	0.003246	0.003246	0.00065
557308.88	4159565.96	0.003554	0.005196	0.005196	0.00104
557297.46	4159576.06	0.005933	0.008677	0.008677	0.00174
557287.37	4159568.16	0.004714	0.006893	0.006893	0.00138
557308.88	4159554.55	0.002499	0.003653	0.003653	0.00073
557322.93	4159544.45	0.001662	0.002428	0.002428	0.00049
557380.02	4159577.38	0.002127	0.003109	0.003109	0.00062
557388.8	4159572.55	0.001763	0.002575	0.002575	0.00052
557372.55	4159563.33	0.001839	0.002686	0.002686	0.00054
557377.38	4159554.11	0.00148	0.002162	0.002162	0.00043
557387.48	4159547.08	0.001212	0.001769	0.001769	0.00035
557397.14	4159542.69	0.001056	0.001541	0.001541	0.00031
557363.33	4159548.4	0.001446	0.002112	0.002112	0.00042
557370.36	4159541.81	0.001214	0.001772	0.001772	0.00035
557380.02	4159536.54	0.001048	0.00153	0.00153	0.00031
557387.04	4159530.39	0.000907	0.001327	0.001327	0.00027
557231.16	4159591.87	0.003114	0.004548	0.004548	0.00091
557240.38	4159585.28	0.003773	0.005443	0.005443	0.00109
557248.28	4159575.62	0.003825	0.005592	0.005592	0.00112
557255.31	4159567.28	0.003653	0.00534	0.00534	0.00107
557262.77	4159557.62	0.003195	0.00467	0.00467	0.00093
557278.58	4159554.98	0.003189	0.004662	0.004662	0.00093
557288.24	4159548.84	0.002607	0.00381	0.00381	0.00076
557296.15	4159541.81	0.002045	0.002989	0.002989	0.00060
557306.25	4159536.1	0.001614	0.002358	0.002358	0.00047
557315.03	4159528.2	0.001241	0.001812	0.001812	0.00036
557303.59	4159768.64	0.000398	0.000579	0.000579	0.00012
557313.32	4159775.93	0.000346	0.000503	0.000503	0.00010
557324.26	4159785.66	0.000291	0.000422	0.000422	0.00008
557335.2	4159777.76	0.000297	0.000431	0.000431	0.00009
557301.16	4159794.78	0.000295	0.000428	0.000428	0.00009
557280.5	4159805.11	0.000281	0.000407	0.000407	0.00008
557260.44	4159790.52	0.000335	0.000486	0.000486	0.00010
557268.34	4159811.19	0.000268	0.000389	0.000389	0.00008
557222.76	4159585.09	0.002378	0.003475	0.003475	0.00070
557233.7	4159575.97	0.002815	0.004114	0.004114	0.00082
557238.56	4159566.86	0.002737	0.004001	0.004001	0.00080
557246.46	4159557.13	0.002633	0.003849	0.003849	0.00077
557215.46	4159571.72	0.001828	0.002671	0.002671	0.00053
557230.05	4159553.49	0.001952	0.002851	0.002851	0.00057
557240.38	4159541.94	0.001884	0.002752	0.002752	0.00055
557270.16	4159539.51	0.002172	0.003174	0.003174	0.00063
557280.5	4159531	0.001772	0.002588	0.002588	0.00052
557291.44	4159520.06	0.001323	0.001931	0.001931	0.00039
557300.55	4159512.76	0.001066	0.001556	0.001556	0.00031
557268.34	4159526.74	0.001663	0.00243	0.00243	0.00049
557288.4	4159508.51	0.00109	0.00159	0.00159	0.00032
557200.88	4159563.82	0.001306	0.001908	0.001908	0.00038
557211.21	4159552.27	0.001423	0.002078	0.002078	0.00042
557220.33	4159540.72	0.001444	0.002109	0.002109	0.00042
557244.03	4159521.27	0.001396	0.002039	0.002039	0.00041
557261.65	4159513.98	0.001312	0.001915	0.001915	0.00038
557271.38	4159502.43	0.001065	0.001554	0.001554	0.00031
557244.64	4159509.12	0.001162	0.001696	0.001696	0.00034
557258.01	4159501.22	0.001061	0.001548	0.001548	0.00031
557283.53	4159491.49	0.000842	0.001231	0.001231	0.00025
557271.38	4159479.94	0.000747	0.001092	0.001092	0.00022
557355.86	4159534.04	0.001086	0.001584	0.001584	0.00032
557366.19	4159531	0.000986	0.001439	0.001439	0.00029
557377.13	4159525.53	0.000857	0.001254	0.001254	0.00025
557385.03	4159514.59	0.000691	0.001011	0.001011	0.00020
557353.43	4159518.84	0.000791	0.001158	0.001158	0.00023
557377.74	4159501.22	0.000552	0.000807	0.000807	0.00016
557343.71	4159507.9	0.000672	0.000983	0.000983	0.00020
557356.47	4159501.82	0.000576	0.000843	0.000843	0.00017
557369.23	4159492.1	0.000478	0.0007	0.0007	0.00014
557336.41	4159496.96	0.000587	0.000859	0.000859	0.00017
557353.43	4159479.94	0.000413	0.000604	0.000604	0.00012
557327.3	4159481.16	0.000499	0.00073	0.00073	0.00015
557338.84	4159472.65	0.000404	0.000591	0.000591	0.00012
557319.39	4159470.22	0.000459	0.000672	0.000672	0.00013
557333.98	4159459.28	0.000352	0.000515	0.000515	0.00010
557414.82	4159540.72	0.000901	0.001319	0.001319	0.00026
557409.35	4159527.35	0.00078	0.001142	0.001142	0.00023
557434.27	4159539.51	0.000765	0.00112	0.00112	0.00022
557444.6	4159533.43	0.000668	0.000978	0.000978	0.00020
557423.32	4159525.53	0.000706	0.001032	0.001032	0.00021
557436.09	4159520.06	0.000616	0.000901	0.000901	0.00018
557411.17	4159514.59	0.000645	0.000944	0.000944	0.00019
557421.5	4159504.86	0.000544	0.000795	0.000795	0.00016
557396.58	4159503.65	0.000564	0.000826	0.000826	0.00017
557389.9	4159491.49	0.000466	0.000681	0.000681	0.00014
557416.64	4159490.88	0.000452	0.000662	0.000662	0.00013
557407.52	4159478.73	0.000381	0.000558	0.000558	0.00011
557168.06	4159588.74	0.000789	0.001151	0.001151	0.00023
557148	4159602.72	0.000576	0.000839	0.000839	0.00017
557152.25	4159573.54	0.000611	0.00089	0.00089	0.00018
557141.31	4159563.82	0.000516	0.000751	0.000751	0.00015
557129.16	4159560.17	0.000438	0.000637	0.000637	0.00013
557187.5	4159554.7	0.000989	0.001443	0.001443	0.00029
557197.23	4159543.76	0.001068	0.001559	0.001559	0.00031
557209.99	4159532.82	0.001157	0.001689	0.001689	0.00034
557217.29	4159523.7	0.001144	0.00167	0.00167	0.00033
557208.78	4159513.98	0.000942	0.001374	0.001374	0.00027
557199.66	4159508.51	0.000815	0.001188	0.001188	0.00024
557171.7	4159541.33	0.00073	0.001064	0.001064	0.00021
557182.03	4159531.61	0.000794	0.001158	0.001158	0.00023
557189.94	4159523.7	0.00083	0.001211	0.001211	0.00024
557227.62	4159505.47	0.001004	0.001465	0.001465	0.00029
557234.91	4159497.57	0.000945	0.001379	0.001379	0.00028
557242.81	4159489.06	0.000863	0.001263	0.001263	0.00025
557248.89	4159481.77	0.00079	0.001155	0.001155	0.00023
557254.36	4159473.87	0.00071	0.001038	0.001038	0.00021
557248.89	4159465.36	0.000636	0.000931	0.000931	0.00019
557235.52	4159458.67	0.000581	0.000851	0.000851	0.00017
557232.48	4159471.43	0.000671	0.000982	0.000982	0.00020
557224.58	4159479.34	0.000716	0.001047	0.001047	0.00021
557216.68	4159487.84	0.000755	0.001105	0.001105	0.00022
557217.29	4159497.57	0.00085	0.001239	0.001239	0.00025
557410.56	4159576.58	0.001369	0.002	0.002	0.00040
557406.91	4159566.86	0.001317	0.001922	0.001922	0.00038
557402.66	4159559.56	0.001273	0.001858	0.001858	0.00037
557484.22	4159816.64	9.77E-05	0.000143	0.000143	0.00003
557496.09	4159831.48	8.41E-05	0.000123	0.000123	0.00002
557572.3	4159760.22	0.000113	0.000165	0.000165	0.00003
557586.15	4159749.34	0.000116	0.000169	0.000169	0.00003
557601.99	4159736.47	0.000119	0.000174	0.000174	0.00003
557576.26	4159804.76	7.95E-05	0.000116	0.000116	0.00002
557595.06	4159790.91	8.29E-05	0.000121	0.000121	0.00002
557608.92	4159776.06	8.78E-05	0.000128	0.000128	0.00003
557584.17	4159776.06	9.55E-05	0.00014	0.00014	0.00003
557598.03	4159762.2	0.000101	0.000147	0.000147	0.00003
557646.53	4159741.42	9.56E-05	0.00014	0.00014	0.00003
557635.64	4159723.61	0.000111	0.000163	0.000163	0.00003
557623.76	4159706.78	0.00013	0.00019	0.00019	0.00004
557615.84	4159692.93	0.000146	0.000214	0.000214	0.00004
557645.54	4159689.96	0.000128	0.000187	0.000187	0.00004
557670.28	4159681.05	0.000118	0.000173	0.000173	0.00003
557698.98	4159665.22	0.00011	0.000161	0.000161	0.00003
557737.58	4159684.02	8.7E-05	0.000127	0.000127	0.00003
557727.68	4159666.2	9.67E-05	0.000141	0.000141	0.00003
557720.75	4159646.41	0.000106	0.000155	0.000155	0.00003
557682.15	4159704.8	0.000101	0.000147	0.000147	0.00003
557662.36	4159772.1	7.5E-05	0.00011	0.00011	0.00002
557717.78	4159753.3	6.94E-05	0.000102	0.000102	0.00002
557759.35	4159751.32	6.09E-05	8.91E-05	8.91E-05	0.00002
557754.4	4159713.71	7.28E-05	0.000107	0.000107	0.00002
557691.06	4159793.87	6.09E-05	8.91E-05	8.91E-05	0.00002
557718.77	4159784.97	5.87E-05	8.59E-05	8.59E-05	0.00002
557736.59	4159778.04	5.77E-05	8.44E-05	8.44E-05	0.00002
CONCUNIT ug /m^3		0	0	0	0.00000
DEPUNIT g/m ^2		0	0	0	0.00000

Maximum Chronic Non-Caner Hazard
0.00

BAAQMD threshold of significance
1

Exceed thresholds?
No

Burlingame

With Mitigation
at Sensitive Receptors

Annual Average PM2.5 (Exhaust + Fugitive Dust)

X (m)	Y (m)	2019 PM2.5 (ug/m3)	2020 PM2.5 (ug/m3)	Max PM2.5 (ug/m3)
557237.31	4159639.73	0.003269939	0.004768698	0.00477
557240.38	4159649.39	0.003040976	0.004429959	0.00443
557228.08	4159655.54	0.001975996	0.002871933	0.00287
557218.42	4159660.81	0.001479312	0.002145303	0.00215
557215.35	4159649.39	0.001591739	0.002313554	0.00231
557208.76	4159636.66	0.001542855	0.002245813	0.00225
557223.25	4159632.27	0.002318868	0.003381092	0.00338
557213.15	4159625.24	0.00186177	0.002712375	0.00271
557202.62	4159616.02	0.001503014	0.002191304	0.00219
557192.08	4159607.68	0.001220423	0.001777884	0.00178
557177.59	4159617.34	0.00090388	0.001314792	0.00131
557186.81	4159625.24	0.00104132	0.001515863	0.00152
557177.15	4159637.1	0.000827079	0.001202435	0.00120
557187.69	4159641.05	0.000975745	0.001416153	0.00142
557198.22	4159646.32	0.00114358	0.001661689	0.00166
557205.25	4159662.13	0.001129113	0.001632974	0.00163
557190.76	4159663.89	0.000862132	0.001246166	0.00125
557168.36	4159641.05	0.000703279	0.00102132	0.00102
557162.66	4159631.83	0.000671995	0.000975553	0.00098
557155.19	4159640.17	0.000581702	0.000843458	0.00084
557259.7	4159617.34	0.010119924	0.014793748	0.01479
557267.17	4159612.07	0.012677668	0.018539408	0.01854
557275.51	4159606.36	0.014414876	0.021080879	0.02108
557285.17	4159601.53	0.014972349	0.021896441	0.02190
557277.7	4159590.99	0.009924851	0.014512139	0.01451
557268.92	4159582.21	0.006491694	0.009493332	0.00949
557257.51	4159590.11	0.00631922	0.009237235	0.00924
557268.04	4159596.26	0.009610976	0.014052952	0.01405
557255.31	4159606.36	0.007996382	0.01169086	0.01169
557245.21	4159600.65	0.005175067	0.007563381	0.00756
557304.05	4159587.04	0.008493257	0.012421545	0.01242
557313.27	4159582.21	0.006163882	0.009013756	0.00901
557324.69	4159576.06	0.004218956	0.006168401	0.00617
557335.23	4159568.16	0.002917347	0.004264195	0.00426
557324.25	4159555.86	0.002221692	0.003246478	0.00325
557308.88	4159565.96	0.003554437	0.005196234	0.00520
557297.46	4159576.06	0.00593348	0.008676686	0.00868
557287.37	4159568.16	0.004714454	0.006893296	0.00689
557308.88	4159554.55	0.002499243	0.003652524	0.00365
557322.93	4159544.45	0.001661996	0.002427663	0.00243
557380.02	4159577.38	0.002127397	0.003108527	0.00311
557388.8	4159572.55	0.001762964	0.002575375	0.00258
557372.55	4159563.33	0.001838578	0.002685997	0.00269
557377.38	4159554.11	0.001480076	0.002161521	0.00216
557387.48	4159547.08	0.001211718	0.001768924	0.00177
557397.14	4159542.69	0.00105619	0.001541391	0.00154
557363.33	4159548.4	0.001446272	0.002112067	0.00211
557370.36	4159541.81	0.001213794	0.001771961	0.00177
557380.02	4159536.54	0.001048332	0.001529895	0.00153
557387.04	4159530.39	0.000906931	0.001326806	0.00133
557231.16	4159591.87	0.003114199	0.004548407	0.00455
557240.38	4159585.28	0.003722865	0.005442638	0.00544
557248.28	4159575.62	0.00382487	0.005591868	0.00559
557255.31	4159567.28	0.003652736	0.005340042	0.00534
557262.77	4159557.62	0.003194749	0.004670024	0.00467
557278.58	4159554.98	0.003189263	0.004661998	0.00466
557288.24	4159548.84	0.002606882	0.003809997	0.00381
557296.15	4159541.81	0.002045407	0.002988579	0.00299
557306.25	4159536.1	0.002614107	0.002357603	0.00236
557315.03	4159528.2	0.001241371	0.001812305	0.00181
557303.59	4159768.64	0.000398342	0.000578985	0.00058
557313.32	4159775.93	0.000346154	0.000502635	0.00050
557324.26	4159785.66	0.000291296	0.00042238	0.00042
557335.2	4159777.76	0.000297226	0.000431056	0.00043
557301.16	4159794.78	0.000295003	0.000427802	0.00043
557280.5	4159805.11	0.000280621	0.000406763	0.00041
557260.44	4159790.52	0.000335034	0.000486367	0.00049
557268.34	4159811.19	0.000268167	0.000388543	0.00039
557222.76	4159985.09	0.002377963	0.003475096	0.00348
557233.7	4159975.97	0.002814896	0.004114314	0.00411
557238.56	4159566.86	0.002737206	0.004000656	0.00400
557246.46	4159557.13	0.00263421	0.003848823	0.00385
557215.46	4159571.72	0.00182282	0.002670813	0.00267
557230.05	4159553.49	0.001951556	0.002851278	0.00285
557240.38	4159541.94	0.001883502	0.002751719	0.00275
557270.16	4159539.51	0.002171876	0.003173598	0.00317
557280.5	4159531	0.001771563	0.002587956	0.00259
557291.44	4159520.06	0.00132262	0.001931169	0.00193
557300.55	4159512.76	0.00106642	0.001556357	0.00156
557268.34	4159526.74	0.001663479	0.002429832	0.00243
557288.4	4159508.51	0.001089697	0.001590411	0.00159
557200.88	4159563.82	0.001306459	0.001907526	0.00191
557211.21	4159552.27	0.001422698	0.002077579	0.00208
557220.33	4159540.72	0.001444048	0.002108814	0.00211
557244.03	4159521.27	0.001396307	0.00203897	0.00204
557261.65	4159513.98	0.001311648	0.001915118	0.00192
557271.38	4159502.43	0.001060585	0.001554405	0.00155
557244.64	4159509.12	0.00116205	0.001696261	0.00170
557258.01	4159501.22	0.001060786	0.001548115	0.00155
557283.53	4159491.49	0.000841694	0.001231368	0.00123
557271.38	4159479.94	0.000746657	0.001092332	0.00109
557355.86	4159534.04	0.001085546	0.001584338	0.00158
557366.19	4159531	0.000986357	0.001439229	0.00144
557377.13	4159525.53	0.000857114	0.001253926	0.00125
557385.03	4159514.59	0.000691058	0.001010993	0.00101
557353.43	4159518.84	0.000791285	0.00115762	0.00116
557377.74	4159501.22	0.000551838	0.000807319	0.00081
557343.71	4159507.9	0.00067208	0.000983229	0.00098
557356.47	4159501.82	0.000576154	0.000842891	0.00084
557369.23	4159492.1	0.000478151	0.000699518	0.00070
557336.41	4159496.96	0.000587273	0.000859159	0.00086
557353.43	4159479.94	0.000413063	0.000604296	0.00060
557327.3	4159481.16	0.000499056	0.000730101	0.00073
557338.84	4159472.65	0.000404168	0.000591282	0.00059
557319.39	4159470.22	0.000459025	0.000671537	0.00067
557333.98	4159459.28	0.000352275	0.000515365	0.00052
557414.82	4159540.72	0.000901296	0.001318563	0.00132
557409.35	4159527.35	0.000780313	0.001141569	0.00114
557434.27	4159539.51	0.000765487	0.001119879	0.00112
557444.6	4159533.43	0.000668374	0.000977806	0.00098
557423.32	4159525.53	0.000705736	0.001032466	0.00103
557436.09	4159520.06	0.00061574	0.000900805	0.00090
557411.17	4159514.59	0.000645096	0.000943752	0.00094
557421.5	4159504.86	0.000543684	0.000795389	0.00080
557396.58	4159503.65	0.000564293	0.000825539	0.00083
557389.9	4159491.49	0.000465549	0.000681081	0.00068
557416.64	4159490.88	0.000452205	0.000661559	0.00066
557407.52	4159478.73	0.000381335	0.000557879	0.00056
557368.06	4159588.74	0.000789166	0.001150746	0.00115
557148	4159602.72	0.000576407	0.000839488	0.00084
557152.25	4159573.54	0.000610953	0.000890026	0.00089
557141.31	4159563.82	0.000516064	0.000751207	0.00075
557129.16	4159560.17	0.000438225	0.000637332	0.00064
557187.5	4159554.7	0.000988729	0.001442699	0.00144
557197.23	4159543.76	0.001068051	0.001558743	0.00156
557209.99	4159532.82	0.001157157	0.001689103	0.00169
557217.29	4159523.7	0.001143962	0.001669799	0.00167
557208.78	4159513.98	0.000942026	0.001374374	0.00137
557199.66	4159508.51	0.000814519	0.001187836	0.00119
557171.7	4159541.33	0.000729861	0.001063984	0.00106
557182.03	4159531.61	0.000793911	0.001157687	0.00116
557189.94	4159523.7	0.000830087	0.001210611	0.00121
557227.62	4159505.47	0.001004297	0.001465474	0.00147
557234.91	4159497.57	0.000945288	0.001379146	0.00138
557242.81	4159489.06	0.000863341	0.001263036	0.00126
557248.89	4159481.77	0.000789654	0.001155234	0.00116
557254.36	4159473.87	0.000709739	0.001038323	0.00104
557248.89	4159465.36	0.000636497	0.000931172	0.00093
557235.52	4159458.67	0.00058149 3	0.0008507	0.00085
557232.48	4159471.43	0.000671191	0.000981927	0.00098
557224.58	4159479.34	0.000715818	0.001047216	0.00105
557216.68	4159487.84	0.000755405	0.001105129	0.00111
557217.29	4159497.57	0.000849806	0.00123946	0.00124
557410.56	4159576.58	0.001369471	0.00199971	0.00200
557406.91	4159566.86	0.001316541	0.001922276	0.00192
557402.66	4159559.56	0.001272507	0.001857855	0.00186
557484.22	4159816.64	9.77059E-05	0.000142294	0.00014
557496.09	4159831.48	8.40657E-05	0.000122985	0.00012
557572.3	4159760.22	0.000112681	0.000164848	0.00016
557586.15	4159749.34	0.000115794	0.000169403	0.00017
557601.99	4159736.47	0.000118759	0.000173741	0.00017
557576.26	4159804.76	7.94695E-05	0.000116261	0.00012
557595.06	4159790.91	8.28795E-05	0.00012125	0.00012
557608.92	4159776.06	8.77723E-05	0.000128408	0.00013
557584.17	4159776.06	9.54826E-05	0.000139687	0.00014
557598.03	4159762.2	0.000100523	0.000147061	0.00015
557646.53	4159741.42	9.56302E-05	0.000139904	0.00014
557635.64	4159723.61	0.000111346	0.000162895	0.00016
557623.76	4159706.78	0.000129731	0.000189792	0.00019
557615.84	4159692.93	0.00014604	0.000213651	0.00021
557645.54	4159689.96	0.000127655	0.000186755	0.00019
557670.28	4159681.05	0.000118166	0.000172873	0.00017
557698.98	4159665.22	0.00011016	0.00016116	0.00016
557737.58	4159684.02	8.70309E-05	0.000127323	0.00013
557727.68	4159666.2	9.66681E-05	0.000141422	0.00014
557720.75	4159646.41	0.000106157	0.000155304	0.00016
557682.15	4159704.8	0.000100523	0.000147061	0.00015
557662.36	4159772.1	7.50216E-05	0.000109754	0.00011
557717.78	4159753.3	6.93875E-05	0.000101511	0.00010
557759.35	4159751.32	6.09365E-05	8.91478E-05	0.00009
557754.4	4159713.71	7.27976E-05	0.00010065	0.00011
557691.06	4159793.87	6.09365E-05	8.91478E-05	0.00009
557718.77	4159784.97	5.87125E-05	8.58942E-05	0.00009
557736.59	4159778.04	5.76747E-05	8.43759E-05	0.00008
CONCUNIT ug	/m^3	0	0	0.00000
DEPUNIT g/m	^2	0	0	0.00000

Maximum PM2.5
0.02
BAAQMD threshold of significance
0.3
Exceed thresholds?
No

Ruben Hurin
March 22, 2018

Attachment B:
Caltrain Rail Line DPM Emissions and Cancer Risks

Cancer Risk Estimation= DPM x Total Unit Risk Factor

Total Cancer Unit Risk Factor 591.62 ug/m3
Reference Exposure Level (REL) for DPM: 5 ug/m3
Risk assumes rail emissions are constant over time.

Total Locomotive Emissions: 8.19E-04 g/sec

X (m)	Y (m)	DPM Average w/unit Emissions (ug/m3)	DPM Average w/Actal Emissions (ug/m3)	Cancer risk (/million)	Chronoic non-cancer hazard index		
						Max Cancer Risk at Construction MIR	**Max Chronic index**
						9.07	0.003
						Max Cancer Risk for Future Onsite Residents	**Max Cancer Risk for Future Onsite Residents**
						16.92	0.006
557237.31	4159639.73	20.23	1.66E-02	9.80	0.003		
557240.38	4159649.39	23.15	1.90E-02	11.22	0.004		
557228.08	4159655.54	22.44	1.84E-02	10.87	0.004		
557218.42	4159660.81	21.92	1.80E-02	10.62	0.004		
557215.35	4159649.39	18.82	1.54E-02	9.12	0.003		
557208.76	4159636.66	15.76	1.29E-02	7.64	0.003		
557223.25	4159632.27	16.85	1.38E-02	8.16	0.003		
557213.15	4159625.24	14.70	1.20E-02	7.12	0.002		
557202.62	4159616.02	12.68	1.04E-02	6.14	0.002		
557192.08	4159607.68	11.11	9.10E-03	5.39	0.002		
557177.59	4159617.34	10.81	8.85E-03	5.24	0.002		
557186.81	4159625.24	12.21	1.00E-02	5.91	0.002		
557177.15	4159637.1	12.42	1.02E-02	6.02	0.002		
557187.69	4159641.05	13.92	1.14E-02	6.75	0.002		
557198.22	4159646.32	15.87	1.30E-02	7.69	0.003		
557205.25	4159662.13	19.74	1.62E-02	9.57	0.003		
557190.76	4159663.89	17.57	1.44E-02	8.51	0.003		
557168.36	4159641.05	11.93	9.77E-03	5.78	0.002		
557162.66	4159631.83	10.70	8.76E-03	5.18	0.002		
557155.19	4159640.17	10.66	8.73E-03	5.16	0.002		
557259.7	4159617.34	18.71	1.53E-02	9.06	0.003		
557267.17	4159612.07	18.61	1.52E-02	9.02	0.003		
557275.51	4159606.36	18.51	1.52E-02	8.97	0.003		
557285.17	4159601.53	18.72	1.53E-02	9.07	0.003	MIR during construction, located 22 feet southwest of the site along the Oak Grove Ave	
557277.7	4159590.99	16.09	1.32E-02	7.80	0.003		
557268.92	4159582.21	14.13	1.16E-02	6.85	0.002		
557257.51	4159590.11	14.24	1.17E-02	6.90	0.002		
557268.04	4159596.26	15.99	1.31E-02	7.75	0.003		
557255.31	4159606.36	16.30	1.33E-02	7.90	0.003		
557245.21	4159600.65	14.55	1.19E-02	7.05	0.002		
557304.05	4159587.04	18.03	1.48E-02	8.74	0.003		
557313.27	4159582.21	18.07	1.48E-02	8.76	0.003		
557324.69	4159576.06	18.05	1.48E-02	8.75	0.003		
557335.23	4159568.16	17.56	1.44E-02	8.51	0.003		
557324.25	4159555.86	14.70	1.20E-02	7.12	0.002		
557308.88	4159565.96	15.02	1.23E-02	7.28	0.002		
557297.46	4159576.06	15.59	1.28E-02	7.56	0.003		
557287.37	4159568.16	13.77	1.13E-02	6.67	0.002		
557308.88	4159554.55	13.52	1.11E-02	6.55	0.002		
557322.93	4159544.45	13.15	1.08E-02	6.37	0.002		
557380.02	4159577.38	25.35	2.08E-02	12.28	0.004		
557388.8	4159572.55	25.04	2.05E-02	12.13	0.004		
557372.55	4159563.33	20.24	1.66E-02	9.81	0.003		
557377.38	4159554.11	18.58	1.52E-02	9.00	0.003		
557387.48	4159547.08	17.92	1.47E-02	8.68	0.003		
557397.14	4159542.69	17.74	1.45E-02	8.59	0.003		
557363.33	4159548.4	16.33	1.34E-02	7.91	0.003		
557370.36	4159541.81	15.68	1.28E-02	7.60	0.003		
557380.02	4159536.54	15.41	1.26E-02	7.47	0.003		
557387.04	4159530.39	14.81	1.21E-02	7.18	0.002		
557231.16	4159591.87	12.47	1.02E-02	6.04	0.002		
557240.38	4159585.28	12.45	1.02E-02	6.03	0.002		
557248.28	4159575.62	12.02	9.85E-03	5.83	0.002		
557255.31	4159567.28	11.67	9.56E-03	5.65	0.002		
557262.77	4159557.62	11.22	9.19E-03	5.44	0.002		
557278.58	4159554.98	11.82	9.68E-03	5.73	0.002		
557288.24	4159548.84	11.74	9.61E-03	5.69	0.002		
557296.15	4159541.81	11.46	9.39E-03	5.56	0.002		
557306.25	4159536.1	11.41	9.34E-03	5.53	0.002		
557315.03	4159528.2	11.07	9.07E-03	5.36	0.002		
557303.59	4159768.64	40.09	3.28E-02	19.43	0.007		
557313.32	4159775.93	32.56	2.67E-02	15.78	0.005		
557324.26	4159785.66	26.08	2.14E-02	12.64	0.004		
557335.2	4159777.76	27.15	2.22E-02	13.16	0.004		
557301.16	4159794.78	26.39	2.16E-02	12.79	0.004		
557280.5	4159805.11	25.47	2.09E-02	12.34	0.004		
557260.44	4159790.52	37.93	3.11E-02	18.38	0.006		
557268.34	4159811.19	24.70	2.02E-02	11.97	0.004		
557222.76	4159585.09	11.29	9.25E-03	5.47	0.002		
557233.7	4159575.97	11.18	9.16E-03	5.42	0.002		
557238.56	4159566.86	10.71	8.77E-03	5.19	0.002		
557246.46	4159557.13	10.36	8.48E-03	5.02	0.002		
557215.46	4159571.72	9.87	8.08E-03	4.78	0.002		
557230.05	4159553.49	9.35	7.66E-03	4.53	0.002		
557240.38	4159541.94	9.05	7.42E-03	4.39	0.001		
557270.16	4159539.51	10.10	8.27E-03	4.89	0.002		
557280.5	4159531	9.89	8.10E-03	4.79	0.002		
557291.44	4159520.06	9.51	7.79E-03	4.61	0.002		
557300.55	4159512.76	9.31	7.62E-03	4.51	0.002		
557268.34	4159526.74	9.14	7.49E-03	4.43	0.001		
557288.4	4159508.51	8.66	7.09E-03	4.19	0.001		
557200.88	4159563.82	8.70	7.12E-03	4.21	0.001		
557211.21	4159552.27	8.50	6.96E-03	4.12	0.001		
557220.33	4159540.72	8.23	6.74E-03	3.99	0.001		
557244.03	4159521.27	8.02	6.57E-03	3.89	0.001		
557261.65	4159513.98	8.17	6.69E-03	3.96	0.001		
557271.38	4159502.43	7.84	6.42E-03	3.80	0.001		
557244.64	4159509.12	7.45	6.10E-03	3.61	0.001		
557258.01	4159501.22	7.43	6.08E-03	3.60	0.001		
557283.53	4159491.49	7.59	6.21E-03	3.68	0.001		
557271.38	4159479.94	6.79	5.56E-03	3.29	0.001		
557355.86	4159534.04	13.66	1.12E-02	6.62	0.002		
557366.19	4159531	13.79	1.13E-02	6.68	0.002		
557377.13	4159525.53	13.58	1.11E-02	6.58	0.002		
557385.03	4159514.59	12.48	1.02E-02	6.05	0.002		
557353.43	4159518.84	11.73	9.61E-03	5.68	0.002		
557377.74	4159501.22	10.75	8.81E-03	5.21	0.002		
557343.71	4159507.9	10.33	8.46E-03	5.01	0.002		
557356.47	4159501.82	10.20	8.35E-03	4.94	0.002		
557369.23	4159492.1	9.71	7.95E-03	4.70	0.002		
557336.41	4159496.96	9.25	7.58E-03	4.48	0.002		
557353.43	4159479.94	8.46	6.93E-03	4.10	0.001		
557327.3	4159481.16	8.01	6.56E-03	3.88	0.001		
557338.84	4159472.65	7.74	6.34E-03	3.75	0.001		
557319.39	4159470.22	7.26	5.95E-03	3.52	0.001		
557333.98	4159459.28	6.96	5.70E-03	3.37	0.001		
557414.82	4159540.72	18.63	1.53E-02	9.03	0.003		
557409.35	4159527.35	15.48	1.27E-02	7.50	0.003		
557434.27	4159539.51	19.75	1.62E-02	9.57	0.003		
557444.6	4159533.43	18.69	1.53E-02	9.06	0.003		
557423.32	4159525.53	15.82	1.30E-02	7.67	0.003		
557436.09	4159520.06	15.26	1.25E-02	7.39	0.002		
557411.17	4159514.59	13.45	1.10E-02	6.52	0.002		
557421.5	4159504.86	12.37	1.01E-02	5.99	0.002		
557396.58	4159503.65	11.55	9.46E-03	5.60	0.002		
557389.9	4159491.49	10.12	8.29E-03	4.90	0.002		
557416.64	4159490.88	10.58	8.67E-03	5.13	0.002		
557407.52	4159478.73	9.29	7.61E-03	4.50	0.002		
557168.06	4159588.74	8.47	6.94E-03	4.10	0.001		
557148	4159602.72	8.10	6.63E-03	3.92	0.001		
557152.25	4159573.54	7.11	5.82E-03	3.44	0.001		
557141.31	4159563.82	6.37	5.22E-03	3.09	0.001		
557129.16	4159560.17	5.87	4.81E-03	2.84	0.001		
557187.5	4159554.7	7.70	6.31E-03	3.73	0.001		
557197.23	4159543.76	7.56	6.19E-03	3.66	0.001		
557209.99	4159532.82	7.50	6.14E-03	3.63	0.001		
557217.29	4159523.7	7.32	6.00E-03	3.55	0.001		
557208.78	4159513.98	6.69	5.48E-03	3.24	0.001		
557199.66	4159508.51	6.27	5.13E-03	3.04	0.001		
557171.7	4159541.33	6.63	5.43E-03	3.21	0.001		
557182.03	4159531.61	6.60	5.40E-03	3.20	0.001		
557189.94	4159523.7	6.54	5.36E-03	3.17	0.001		
557227.62	4159505.47	6.85	5.61E-03	3.32	0.001		
557234.91	4159497.57	6.71	5.50E-03	3.25	0.001		
557242.81	4159489.06	6.56	5.37E-03	3.18	0.001		
557248.89	4159481.77	6.41	5.25E-03	3.10	0.001		
557254.36	4159473.87	6.22	5.10E-03	3.01	0.001		
557248.89	4159465.36	5.83	4.78E-03	2.83	0.001		
557235.52	4159458.67	5.41	4.43E-03	2.62	0.001		
557232.48	4159471.43	5.74	4.70E-03	2.78	0.001		
557224.58	4159479.34	5.85	4.79E-03	2.83	0.001		
557216.68	4159487.84	5.96	4.89E-03	2.89	0.001		
557217.29	4159497.57	6.30	5.16E-03	3.06	0.001		
557410.56	4159576.58	30.68	2.51E-02	14.87	0.005		
557406.91	4159566.86	25.76	2.11E-02	12.48	0.004		
557402.66	4159559.56	22.65	1.86E-02	10.98	0.004		
557484.22	4159816.64	8.28	6.78E-03	4.01	0.001		
557496.09	4159831.48	7.08	5.80E-03	3.43	0.001		
557572.3	4159760.22	7.13	5.84E-03	3.45	0.001		
557586.15	4159749.34	6.92	5.67E-03	3.35	0.001		
557601.99	4159736.47	6.65	5.45E-03	3.22	0.001		
557576.26	4159804.76	5.52	4.52E-03	2.67	0.001		
557595.06	4159790.91	5.35	4.38E-03	2.59	0.001		
557608.92	4159776.06	5.32	4.36E-03	2.58	0.001		
557584.17	4159776.06	6.11	5.00E-03	2.96	0.001		
557598.03	4159762.2	6.03	4.94E-03	2.92	0.001		
557646.53	4159741.42	4.96	4.06E-03	2.40	0.001		
557635.64	4159723.61	5.66	4.63E-03	2.74	0.001		
557623.76	4159706.78	6.53	5.35E-03	3.16	0.001		
557615.84	4159692.93	7.31	5.99E-03	3.54	0.001		
557645.54	4159689.96	5.95	4.88E-03	2.89	0.001		
557670.28	4159681.05	5.17	4.24E-03	2.51	0.001		
557698.98	4159665.22	4.47	3.66E-03	2.17	0.001		
557737.58	4159684.02	3.50	2.87E-03	1.70	0.001		
557727.68	4159666.2	3.80	3.11E-03	1.84	0.001		
557720.75	4159646.41	4.05	3.32E-03	1.96	0.001		
557682.15	4159704.8	4.53	3.71E-03	2.19	0.001		
557662.36	4159772.1	4.09	3.35E-03	1.98	0.001		
557717.78	4159753.3	3.31	2.71E-03	1.60	0.001		
557759.35	4159751.32	2.77	2.27E-03	1.34	0.000		
557754.4	4159713.71	3.06	2.50E-03	1.48	0.001		
557691.06	4159793.87	3.33	2.72E-03	1.61	0.001		
557718.77	4159784.97	3.03	2.48E-03	1.47	0.000		
557736.59	4159778.04	2.86	2.34E-03	1.39	0.000		
557289.4	4159644.88	33.07	2.71E-02	16.03	0.005		
557299.06	4159640.49	33.73	2.76E-02	16.35	0.006		
557306.97	4159636.54	34.07	2.79E-02	16.51	0.006		
557316.63	**4159632.59**	**34.91**	2.86E-02	16.92	0.006		
557279.31	4159636.98	27.17	2.23E-02	13.16	0.004		
557287.65	4159634.79	28.22	2.31E-02	13.68	0.005	Onsite Residents	
557295.55	4159630.83	28.51	2.34E-02	13.81	0.005		
557307.41	4159626.88	29.70	2.43E-02	14.39	0.005		
557271.4	4159629.08	23.15	1.90E-02	11.22	0.004		
557279.31	4159625.13	23.41	1.92E-02	11.34	0.004		
557288.09	4159620.3	23.55	1.93E-02	11.41	0.004		
557295.55	4159614.59	23.19	1.90E-02	11.24	0.004		

CalTrain Service Schedule

Weekday	Northbound	Southbound
AM	21 trips per day	20 trips per day
PM	25 trips per day	26 trips per day

Weekday
Total Daily Trips **92** trips per day

Weekend

Northbound	13 trips per day
Southbound	13 trips per day
Total	**26** trips per day

	Passenger Trains
Annual Number of Diesel Trains-Weekend	23920
Annual Number of Diesel Trains-Weekday	2704
Total	**26,624**

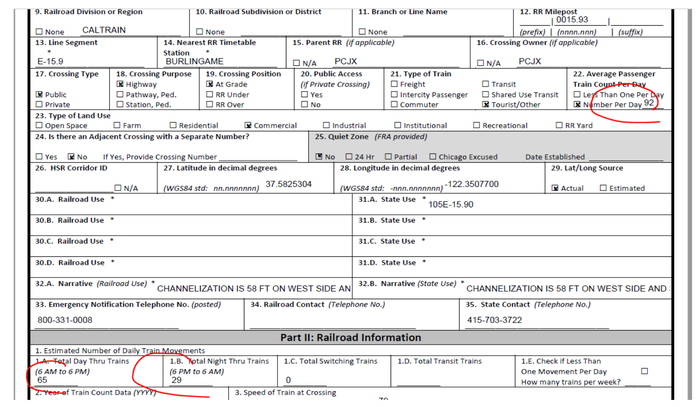
Source: http://www.caltrain.com/schedules/PDF_Schedules.html

Freight Train Operations

From DOT Crossing Inventory Number

Total day thru trains (6 AM to 6 PM)	Total night thru trains (6 PM to 6 AM)
(All Trains)	(All Trains)
65	29

Total Daily Trains (All Trains)	94
Total Daily Trains (Passenger Trains)	92
Total Daily Trains (Freight Trains)	2
Annual Total Freight Trains	**730**



9. Railroad Division or Region: ☐ None CALTRAIN
10. Railroad Subdivision or District: ☐ None
11. Branch or Line Name: ☐ None
12. RR Milepost: 0015.93 (prefix) (nnnn.nnn) (suffix)
13. Line Segment: E-15.9
14. Nearest RR Timetable Station: BURLINGAME
15. Parent RR (if applicable): ☐ N/A PCJX
16. Crossing Owner (if applicable): ☐ N/A PCJX
17. Crossing Type: ☒ Public ☐ Private
18. Crossing Purpose: ☒ Highway ☐ Pathway, Ped. ☐ Station, Ped.
19. Crossing Position: ☒ At Grade ☐ RR Under ☐ RR Over
20. Public Access (if Private Crossing): ☐ Yes ☐ No
21. Type of Train: ☐ Freight ☐ Intercity Passenger ☐ Commuter ☐ Transit ☐ Shared Use Transit ☒ Tourist/Other
22. Average Passenger Train Count Per Day: ☐ Less Than One Per Day ☒ Number Per Day 92
23. Type of Land Use: ☐ Open Space ☐ Farm ☐ Residential ☒ Commercial ☐ Industrial ☐ Institutional ☐ Recreational ☐ RR Yard
24. Is there an Adjacent Crossing with a Separate Number? ☐ Yes ☒ No If Yes, Provide Crossing Number
25. Quiet Zone (FRA provided): ☒ No ☐ 24 Hr ☐ Partial ☐ Chicago Excused Date Established
26. HSR Corridor ID: ☐ N/A
27. Latitude in decimal degrees (WGS84 std: nn.nnnnnnn): 37.5825304
28. Longitude in decimal degrees (WGS84 std: -nnn.nnnnnnn): -122.3507700
29. Lat/Long Source: ☒ Actual ☐ Estimated
30.A. Railroad Use *
30.B. Railroad Use *
30.C. Railroad Use *
30.D. Railroad Use *
31.A. State Use * 105E-15.90
31.B. State Use *
31.C. State Use *
31.D. State Use *
32.A. Narrative (Railroad Use) * CHANNELIZATION IS 58 FT ON WEST SIDE AN
32.B. Narrative (State Use) * CHANNELIZATION IS 58 FT ON WEST SIDE AND
33. Emergency Notification Telephone No. (posted): 800-331-0008
34. Railroad Contact (Telephone No.)
35. State Contact (Telephone No.): 415-703-3722

Part II: Railroad Information

1. Estimated Number of Daily Train Movements
1.A. Total Day Thru Trains (6 AM to 6 PM): 65
1.B. Total Night Thru Trains (6 PM to 6 AM): 29
1.C. Total Switching Trains: 0
1.D. Total Transit Trains
1.E. Check if Less Than One Movement Per Day ☐ How many trains per week?
2. Year of Train Count Data (YYYY)
3. Speed of Train at Crossing

Northbound - WEEKDAY SERVICE to SAN FRANCISCO

Train No.	101	103	305	207	309	211	313	215	217	319	221	323	225	227	329	231	233	135	237	139	143
Gilroy	AM								6:06		6:28			7:06						AM	
San Martin									6:15		6:37			7:15							
Morgan Hill									6:21		6:43			7:21							
Blossom Hill									6:36		6:58			7:36							
Capitol									6:42		7:04			7:42							
Tamien		4:55		5:51	5:56				6:50	6:56	7:15			7:53	7:59		8:28		9:37		
San Jose Diridon	4:28	5:03	5:45	5:59	6:04	6:23	6:49	6:54	6:59	7:04	7:23	7:49	7:54	7:59	8:04	8:23	8:39	9:13	9:50	10:13	11:13
College Park	–	–	–	–	–	–	–	–	–	–	–	–	–	8:03	–	–	–	–	–	–	–
Santa Clara	4:33	5:08	–	6:06	–	6:28	–	–	7:06	–	7:28	–	–	8:08	–	8:28	8:44	9:18	9:55	10:18	11:18
Lawrence	4:39	5:13	–	6:12	–	–	–	–	7:12	–	7:33	–	–	8:15	–	–	8:50	9:24	10:00	10:24	11:24
Sunnyvale	4:43	5:18	–	6:20	6:14	6:36	–	7:06	7:20	7:14	7:38	–	8:06	8:22	8:14	8:36	8:55	9:29	10:05	10:28	11:28
Mountain View	4:48	5:23	6:00	6:25	–	6:42	7:04	7:11	7:25	–	7:44	8:04	8:11	8:28	–	8:42	9:00	9:34	10:10	10:33	11:33
San Antonio	4:52	5:27	–	6:29	–	–	–	–	7:29	–	–	–	–	8:32	–	–	9:04	9:38	10:14	10:37	11:37
California Avenue	4:57	5:31	–	6:34	–	6:48	–	7:17	7:34	–	7:49	–	8:17	8:36	–	–	9:09	9:42	10:18	10:42	11:41
Palo Alto	5:01	5:36	6:08	6:38	6:26	–	7:12	7:21	7:38	7:26	–	8:12	8:21	8:41	8:27	–	9:14	9:47	10:23	10:47	11:46
Menlo Park	5:04	5:39	–	6:41	–	6:54	–	–	7:41	–	7:54	–	–	8:44	–	8:51	9:17	9:50	10:26	10:50	11:49
Redwood City	5:10	5:44	–	6:47	6:32	6:59	–	–	7:47	7:32	8:00	–	–	8:51	8:34	8:57	9:24	9:57	10:32	10:55	11:55
San Carlos	5:15	5:49	–	–	–	7:04	–	7:29	–	–	8:05	–	8:29	–	–	9:02	9:28	10:01	10:37	10:59	11:59
Belmont	5:18	5:52	–	–	–	7:07	–	–	–	–	8:08	–	–	–	–	9:05	9:32	10:05	10:40	11:03	12:03
Hillsdale	5:22	5:56	6:18	6:54	–	7:11	7:23	7:34	7:54	–	8:12	8:24	8:34	8:59	–	9:09	9:35	10:08	10:44	11:06	12:06
Hayward Park	5:25	5:59	–	–	–	7:14	–	–	–	–	8:15	–	–	–	–	9:12	–	10:11	–	11:09	12:09
San Mateo	5:28	6:03	–	–	6:43	7:18	–	7:38	–	7:43	8:19	–	8:38	–	8:44	9:15	9:40	10:14	10:49	11:12	12:12
Burlingame	5:32	6:06	–	–	–	7:21	–	7:43	–	–	8:22	–	8:43	–	–	9:19	9:43	10:17	10:52	11:15	12:15
Millbrae	5:36	6:11	6:26	7:03	6:51	7:26	7:31	–	8:03	7:51	8:27	8:33	–	9:08	8:52	9:24	9:48	10:22	10:57	11:20	12:20
San Bruno	5:41	6:16	–	–	–	7:30	–	7:50	–	–	8:31	–	8:50	–	–	9:28	9:53	10:27	11:02	11:25	12:25
So. San Francisco	5:45	6:20	–	7:09	–	7:34	–	–	8:09	–	8:35	–	–	9:14	–	9:32	–	10:31	–	11:29	12:29
Bayshore	5:51	6:26	–	–	–	7:41+	–	–	–	–	8:43+	–	–	–	–	9:39	–	10:37	–	11:35	12:35
22nd Street	5:57	6:32	–	–	–	7:50+	–	–	–	–	8:51+	–	–	–	–	9:45	–	10:43	–	11:41	12:41
San Francisco	6:03	6:38	6:47	7:24	7:08	7:57	7:51	8:07	8:24	8:11	8:58	8:59	9:07	9:29	9:11	9:52	10:09	10:50	11:17	11:48	12:48

Northbound - WEEKDAY SERVICE to SAN FRANCISCO

Train No.	147	151	155	257	159	261	263	365	267	269	371	273	375	277	279	381	283	385	287	289	191	193	195	197	*199
Gilroy	PM																							PM	
San Martin																									
Morgan Hill																									
Blossom Hill																									
Capitol																									
Tamien				2:16		3:32				4:32					5:32					6:38			8:37	9:37	
San Jose Diridon	12:13	1:13	2:13	2:24	3:13	3:40	4:12	4:24	4:30	4:40	4:45	5:08	5:20	5:30	5:40	5:45	6:08	6:20	6:35	6:45	7:07	7:45	8:45	9:45	10:30
College Park	–	–	–	–	3:16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Santa Clara	12:18	1:18	2:18	2:29	3:20	3:45	4:18	–	–	4:46	–	5:14	–	–	5:46	–	6:14	–	–	–	7:12	7:50	8:50	9:50	10:35
Lawrence	12:24	1:24	2:24	2:34	3:25	3:50	–	–	4:39	4:54	–	–	–	5:39	5:54	–	–	–	6:44	6:53	7:18	7:55	8:55	9:55	10:40
Sunnyvale	12:28	1:28	2:28	2:39	3:30	3:57	–	–	–	5:00	–	–	–	–	6:00	–	–	–	6:48	–	7:22	8:00	9:00	10:00	10:45
Mountain View	12:33	1:33	2:33	2:44	3:35	4:02	–	4:36	4:46	5:05	4:57	–	5:32	5:46	6:05	5:57	–	6:32	6:53	7:01	7:27	8:05	9:05	10:05	10:50
San Antonio	12:37	1:37	2:37	2:47	3:39	4:06	–	–	–	5:09	–	–	–	–	6:09	–	–	–	–	–	7:31	8:08	9:08	10:08	10:54
California Avenue	12:41	1:41	2:41	2:52	3:43	4:11	–	–	–	5:14	–	–	–	–	6:14	–	–	–	–	7:07	7:35	8:13	9:13	10:13	10:59
Palo Alto	12:46	1:46	2:46	2:56	3:47	4:15	4:33	4:44	4:54	5:20	5:05	5:29	5:40	5:54	6:20	6:05	6:29	6:40	7:01	7:11	7:40	8:17	9:17	10:17	11:04
Menlo Park	12:49	1:49	2:49	2:59	3:51	4:19	–	4:47	4:57	5:23	–	–	5:43	5:57	6:23	–	–	6:43	7:04	7:14	7:43	8:20	9:20	10:20	11:07
Redwood City	12:55	1:55	2:55	3:05	3:56	4:24	4:40	4:53	–	5:29	5:11	5:36	5:49	–	6:29	6:11	6:36	6:49	–	7:20	7:49	8:27	9:27	10:27	11:13
San Carlos	12:59	1:59	2:59	3:09	4:01	4:29	4:44	–	5:05	5:33	–	5:40	–	6:05	6:33	–	6:40	–	7:12	7:24	7:53	8:31	9:31	10:31	11:17
Belmont	1:03	2:03	3:03	3:13	4:04	–	4:47	–	–	–	–	5:43	–	–	–	–	6:43	–	–	–	7:57	8:35	9:35	10:35	11:21
Hillsdale	1:06	2:06	3:06	3:16	4:08	–	4:51	–	5:09	–	5:18	5:47	–	6:09	–	6:18	6:47	–	7:16	7:29	8:00	8:38	9:38	10:38	11:24
Hayward Park	1:09	2:09	3:09	–	4:11	–	4:54	–	–	–	–	5:50	–	–	–	–	6:50	–	–	–	8:03	8:41	9:41	10:41	11:27
San Mateo	1:12	2:12	3:12	3:21	4:15	4:36	4:57	–	5:13	5:40	–	5:53	–	6:13	6:40	–	6:53	–	7:20	7:33	8:07	8:44	9:44	10:44	11:30
Burlingame	1:15	2:15	3:15	3:24	4:18	–	5:01	–	5:17	–	–	5:57	–	6:17	–	–	6:57	–	7:24	7:37	8:10	8:48	9:48	10:48	11:34
Millbrae	1:20	2:20	3:20	3:29	4:23	4:42	5:05	5:10	–	5:48	5:30	6:01	6:06		6:48	6:30	7:01	7:06	–	7:41	8:15	8:52	9:52	10:52	11:38
San Bruno	1:25	2:25	3:25	3:33	4:28	–	5:10	–	5:24	–	–	6:06	–	6:24	–	–	7:06	–	7:31	–	8:20	8:57	9:57	10:57	11:42
So. San Francisco	1:29	2:29	3:29	–	4:32	–	5:14	–	–	–	–	6:10	–	–	–	–	7:10	–	–	–	8:24	9:01	10:01	11:01	11:46
Bayshore	1:35	2:35	3:35	–	4:38	–	5:21+	–	–	–	–	6:17+	–	–	–	–	7:17+	–	–	–	8:30	9:07	10:07	11:07	11:52
22nd Street	1:41	2:41	3:41	–	4:44	4:56	5:30+	5:25	5:35	6:00	5:45	6:26+	6:21	6:35	7:00	6:45	7:26+	7:21	7:42	7:55	8:36	9:13	10:13	11:13	11:58
San Francisco	1:48	2:48	3:48	3:50	4:50	5:02	5:36	5:31	5:42	6:06	5:51	6:33	6:27	6:42	7:06	6:51	7:33	7:27	7:49	8:02	8:42	9:20	10:20	11:20	12:05

Printer-Friendly Caltrain Schedule

Morning to Early Afternoon - Page 1 of 2

Southbound - WEEKDAY SERVICE to SAN JOSE / GILROY

Train No.	102	104	206	208	310	212	314	216	218	320	222	324	226	228	330	232	134	236	138	142
San Francisco	4:55	5:25	6:05	6:15	6:35	6:45	6:59	7:05	7:15	7:35	7:45	7:59	8:05	8:15	8:35	8:45	9:00	9:45	10:00	11:00
22nd Street	4:59	5:29	6:09	6:19	6:39	6:51	7:03	7:10	7:19	7:39	7:51	8:03	8:10	8:19	8:39	8:49	9:05	–	10:04	11:04
Bayshore	5:04	5:34	–	6:24	–	–	–	–	7:24	–	–	–	–	8:24	–	–	9:10	–	10:09	11:09
So. San Francisco	5:10	5:40	–	6:31	–	–	–	–	7:31	–	–	–	–	8:31	–	–	9:17	–	10:16	11:16
San Bruno	5:14	5:44	–	6:35	–	–	–	7:20	7:35	–	–	–	8:20	8:35	–	–	9:21	9:57	10:20	11:20
Millbrae	5:18	5:48	6:22	6:39	6:52	7:04	7:16	–	7:39	7:52	8:04	8:16	–	8:39	8:52	9:02	9:25	10:01	10:25	11:25
Burlingame	5:22	5:53	6:26	6:44	–	–	–	7:27	7:44	–	–	–	8:27	8:44	–	–	9:29	10:06	10:29	11:29
San Mateo	5:25	5:57	6:30	6:48	–	7:11	–	7:31	7:48	–	8:11	–	8:31	8:48	–	9:09	9:32	10:10	10:32	11:32
Hayward Park	5:28	6:00	–	6:51	–	–	–	–	7:51	–	–	–	–	8:51	–	–	9:36	–	10:36	11:36
Hillsdale	5:32	6:03	6:34	6:54	–	–	7:24	7:35	7:54	–	–	8:24	8:35	8:54	–	9:13	9:39	10:14	10:39	11:39
Belmont	5:35	6:07	–	6:58	–	–	–	–	7:58	–	–	–	–	8:58	–	–	9:43	10:18	10:43	11:43
San Carlos	5:38	6:10	6:39	7:02	–	7:18	–	7:40	8:02	–	8:18	–	8:40	9:02	–	9:18	9:46	10:21	10:46	11:46
Redwood City	5:41	6:15	6:44	7:06	7:11	7:23	7:31	–	8:06	8:11	8:23	8:31	–	9:06	9:11	9:23	9:51	10:26	10:51	11:51
Menlo Park	5:47	6:20	6:50	–	7:17	7:29	–	7:48	–	8:17	8:29	–	8:48	–	9:17	9:29	9:56	10:31	10:56	11:56
Palo Alto	5:51	6:24	6:54	7:14	7:21	7:33	7:37	7:52	8:14	8:21	8:33	8:37	8:52	9:14	9:21	9:33	10:00	10:35	11:00	12:00
California Avenue	5:55	6:28	6:57	–	–	7:37	–	–	–	–	8:37	–	–	–	–	9:37	10:04	10:38	11:04	12:04
San Antonio	5:59	6:32	–	–	–	7:41	–	–	–	–	8:41	–	–	–	–	9:41	10:08	10:43	11:08	12:08
Mountain View	6:04	6:37	7:04	–	7:28	7:46	7:50	7:59	–	8:28	8:46	8:50	8:59	–	9:28	9:46	10:13	10:47	11:13	12:13
Sunnyvale	6:10	6:42	–	–	–	7:51	–	–	–	–	8:51	–	–	–	–	9:51	10:18	10:52	11:18	12:18
Lawrence	6:15	6:46	7:09	–	–	7:56	–	8:07	–	–	8:56	–	9:07	–	–	9:56	10:22	10:56	11:22	12:22
Santa Clara	6:22	6:51	–	7:27	–	8:03	–	–	8:27	–	9:03	–	–	9:27	–	10:03	10:27	11:02	11:28	12:28
College Park	–	–	–	–	–	8:06	–	–	–	–	–	–	–	–	–	–	–	–	–	–
San Jose Diridon	6:31	7:01	7:19	7:36	7:43	8:12	8:05	8:20	8:36	8:43	9:12	9:05	9:20	9:36	9:43	10:11	10:35	11:12	11:35	12:35
Tamien		7:06			7:48					8:48					9:48			11:17		
Capitol																				
Blossom Hill																				
Morgan Hill																				
San Martin	AM																	AM		
Gilroy																				

100 Local | 200 Limited | 300 Baby Bullet | 5:28 7:02 5:33 7:18 Timed transfers for local service. | + Train may leave up to 5 minutes early. ▸ Train bypasses station.

See Page 2 For Early Afternoon and Evening Times

EFFECTIVE OCTOBER 1, 2017

Printer-Friendly Caltrain Schedule

Early Afternoon to Evening - Page 2 of 2

Southbound - WEEKDAY SERVICE to SAN JOSE / GILROY

Train No.	145	150	152	254	156	258	360	262	264	366	268	370	272	274	376	278	380	282	284	386	288	190	192	194	196	198
San Francisco	12:00	1:00	2:00	2:43	3:00	3:34	4:12	4:23	4:32	4:38	4:58	5:16	5:27	5:32	5:38	5:58	6:16	6:23	6:32	6:38	6:58	7:30	8:30	9:30	10:40	12:05
22nd Street	12:04	1:04	2:04	–	3:04	–	–	–	4:36	–	–	–	–	5:36	–	–	–	–	6:36	–	–	7:34	8:34	9:34	10:44	12:10
Bayshore	12:09	1:09	2:09	–	3:09	–	–	–	4:41	–	–	–	–	5:42	–	–	–	–	6:41	–	–	7:39	8:39	9:39	10:49	12:15
So. San Francisco	12:16	1:16	2:16	–	3:16	–	–	–	4:52	–	5:09	–	–	5:51	–	6:09	–	–	6:52	–	7:09	7:46	8:46	9:46	10:56	12:21
San Bruno	12:20	1:20	2:20	2:55	3:20	3:46	–	4:36	4:55	–	–	–	5:40	5:55	–	–	–	6:36	6:55	–	–	7:50	8:50	9:50	11:00	12:25
Millbrae	12:25	1:25	2:25	2:59	3:24	3:51	4:27	–	5:00	4:53	5:15	5:33	–	6:00	5:53	6:15	6:33	–	7:00	6:53	7:15	7:56	8:56	9:56	11:06	12:29
Burlingame	12:29	1:29	2:29	3:04	3:29	3:56	–	4:42	5:05	–	–	–	5:46	6:05	–	–	–	6:42	7:05	–	–	8:01	9:01	10:01	11:11	12:33
San Mateo	12:32	1:32	2:32	3:07	3:32	3:59	–	4:46	5:08	4:59	–	–	5:50	6:09	5:59	–	–	6:46	7:08	6:59	–	8:04	9:04	10:04	11:14	12:36
Hayward Park	12:36	1:36	2:36	–	3:36	–	–	–	5:12	–	–	–	–	6:12	–	–	–	–	7:12	–	–	8:08	9:08	10:08	11:18	12:40
Hillsdale	12:39	1:39	2:39	3:11	3:39	4:04	4:35	4:50	5:15	–	5:23	5:43	5:54	6:15	–	6:23	6:43	6:50	7:15	–	7:23	8:11	9:11	10:11	11:21	12:43
Belmont	12:43	1:43	2:43	3:15	3:43	4:08	–	–	5:19	–	–	–	–	6:19	–	–	–	–	7:19	–	–	8:15	9:15	10:15	11:25	12:47
San Carlos	12:46	1:46	2:46	3:18	3:46	4:11	–	4:56	5:22	–	–	–	6:00	6:22	–	–	–	6:56	7:22	–	–	8:18	9:18	10:18	11:28	12:50
Redwood City	12:51	1:51	2:51	3:23	3:51	4:16	–	–	5:28	5:08	5:33	–	–	6:28	6:08	6:33	–	–	7:28	7:08	7:33	8:23	9:23	10:23	11:33	12:55
Menlo Park	12:56	1:56	2:56	3:28	3:56	4:22	–	–	5:34	–	5:39	–	–	6:34	–	6:39	–	–	7:34	–	7:39	8:28	9:28	10:28	11:38	1:00
Palo Alto	1:00	2:00	3:00	3:32	4:00	4:26	4:46	5:04	–	5:15	5:43	5:56	6:08	–	6:15	6:43	6:55	7:04	–	7:15	7:43	8:32	9:32	10:32	11:42	1:04
California Avenue	1:04	2:04	3:04	3:36	4:04	4:29	–	5:08	–	5:18	5:46	–	6:12	–	6:18	6:46	–	7:08	–	–	7:46	8:35	9:35	10:35	11:45	1:07
San Antonio	1:08	2:08	3:08	3:40	4:08	4:34	–	–	–	–	5:50	–	–	–	–	6:50	–	–	–	–	7:50	8:39	9:39	10:39	11:49	1:11
Mountain View	1:13	2:13	3:13	3:45	4:13	4:38	4:55	5:15	5:42	–	5:55	6:03	6:19	6:42	–	6:55	7:02	7:15	7:43	–	7:55	8:44	9:44	10:44	11:54	1:16
Sunnyvale	1:18	2:18	3:18	3:50	4:18	4:44	–	5:20	5:47	5:29	6:00	–	6:24	6:47	6:29	7:00	–	7:20	7:48	7:28	8:00	8:49	9:49	10:49	11:59	1:21
Lawrence	1:22	2:22	3:22	3:54	4:23	4:48	–	–	–	–	6:06	–	–	6:51	–	7:05	–	–	–	–	8:05	8:53	9:53	10:53	12:03	1:25
Santa Clara	1:28	2:28	3:28	3:59	4:28	4:53	–	5:27	5:54	–	6:13	–	6:31	6:57	–	7:12	–	–	7:55	–	8:10	8:58	9:58	10:58	12:08	1:30
College Park	–	–	–	–	4:31	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
San Jose Diridon	1:35	2:35	3:35	4:09	4:40	5:03	5:11	5:34	6:02	5:44	6:24	6:18	6:38	7:06	6:44	7:24	7:18	7:33	8:04	7:43	8:21	9:06	10:06	11:06	12:16	1:38
Tamien				4:14	4:45	5:08				5:49	6:29			7:11	6:49	7:29				7:48	8:26		10:11	11:11		
Capitol					4:52						6:36			7:18												
Blossom Hill					4:58						6:42			7:24												
Morgan Hill	PM				5:11						6:55			7:37										PM	AM	
San Martin					5:17						7:01			7:43												
Gilroy					5:30						7:14			7:56												

100 Local | 200 Limited | 300 Baby Bullet | 5:28 7:02 5:33 7:18 Timed transfers for local service. | + Train may leave up to 5 minutes early. ▸ Train bypasses station.

See Page 1 For Morning and Early Afternoon Times

EFFECTIVE OCTOBER 1, 2017

Source: U.S. DOT Crossing Inventory Form, DOT crossing inventory number is 754886F

Diesel Locomotive Emissions for 2019

	Passenger Trains			Freight Trains		
Locomotive Engine Parameter						
Average Engine Horsepower	3200	HP	Source 1	4500	HP	Typical Locomotive Size
Number of Locomotives/train	1			3		Trypical Locomotive Profile
Average Load Factor	0.25			0.28		See Locomotive Operational Profile Speet
Run Speed along rail line segment (mph)	40		Source 2	60	mph	Source 2
Length of Rail Line Segment in the Air Dispersion Model	0.24	mile	info from AERMOD	0.24	mile	
Run Time Along Rail Line Segment (hour/train)	0.006	hour/train		0.004	hour/train	
Number of Trains per year	26624	trains/year		730	trains/year	
Total Run Time Along Rail Line Segment (hours/year)	160.1	hour/year		2.92	hour/year	
DPM Emission Factor (g/hp-hr)	0.19	g/hp-hr	Source 3	0.12	g/hp-hr	Source 4 for 2019
Total Emissions along Rail Line Segment (grams/year)	24517.46	g/yr		1312.695	g/yr	
Total Emissions along Rail Line Segment (tons/year)	0.027	ton/yr		0.001	ton/yr	
Average Emissions along Rail Line Segment (grams/sec)	**7.77E-04**	**g/sec**		**4.16E-05**	**g/sec**	
Total Locomotive Emissions	**8.19E-04**	**grams/zec**				

1. Commute Fleets, https://cumminsengines.com/cummins-qsk19r-to-power-nippon-sharyo-dmu
2. Cal Train Speed Range over crossing (mph). DOT Crossing Inventory Number: 754886F
3. Emission factor: from Peninsula Corridor Electrification Project Final EIR SCH #2013012079 January 2015. http://www.caltrain.com/Assets/Caltrain+Modernization+Program/FEIR/App+B+Air+Quality+and+Greenhouse.pdf
4. from Emission Factors for Locomotive. US EPA. April 2009.

> caltrain.com > About Caltrain > Statistics & Reports > Commute Fleets

Commute Fleets

Gallery Train Set — Bombardier Train Set

.ocomotives

Numbers	Qty	Model	Builder	Year	HP	Remarks
902, 903, 907, 910, 914 (b)	5	F40PH-2	EMD	1985 (a)	3200	Gear drive HEP (head-end power)
900-917 (except #s above)	13	F40PH-2-CAT	EMD	1985 (a)	3200	Caterpillar 6-cylinder HEP generator
918-919	2	F40PH-2-CAT	EMD	1987 (a)	3200	Caterpillar 6-cylinder HEP generator
920-922	3	F40PH-2C	BOISE	1998	3200	Cummins HEP generator
923-928	6	MP36PH-3C	MPI	2003	3600	Caterpillar V12 HEP generator

lotes:
(a) Overhauled by Alstom in 1999
(b) 902,903,907,910,914 have gear drive HEP

Locomotive Numbers and Names

900 San Francisco*
901 San Jose*
902 San Mateo*
903 Santa Clara*
904 Palo Alto
905 Sunnyvale
906 Burlingame*
907 Mountain View*
908 Redwood City
909 Menlo Park*
910 Millbrae*
911 San Carlos*
912 San Bruno
913 Belmont
914 Atherton
915 South San Francisco*
916 California [Operation Lifesaver]
917 Gilroy*
918 County of San Mateo
919 County of Santa Clara
920 Morgan Hill
921 San Martin
922 Tamien
923
924
925 Jackie Speier (in recognition of securing $127 million for improvements that allowed the start of Baby Bullet service)
926
927
928

* indicates those locomotives that have been christened by their namesake cities.

5/7/17 - cd/rjc

App+B+Air+Quality+and+Greenhouse.pdf 63 / 74

Table B2-20: Locomotive Emission Factors

Pollutant	Grams/Gallon			
	2013	2020 NP	2020 P	2040 P
HC	9.9	2.5	6.1	0.8
ROG	10.5	2.6	6.4	0.9
NOx	233.8	58.7	142.8	20.8
CO	26.6	26.6	26.6	26.6
PM10	6.7	1.5	4.2	0.31
PM2.5	6.5	1.5	4.0	0.3
CO2	10,210	10,210	10,210	10,210
CH4	0.8	0.8	0.8	0.8
N2O	0.26	0.26	0.26	0.26

Existing	Existing	Remnant 2020	Remnant 2020	Tier 4 2020 -69%	Tier 4 2020 - 69%	Tier 4 2020 - 76.5%	Tier 4 2020 - 76.5%
Blend 1 (g/bhp-hr)	Blend 1 (g/gal)	Blend 2 (g/bhp-hr)	Blend 2 (g/Gal)	Blend 3 (g/bhp-hr)	Blend 3 (g/gal)	Blend 4 (g/bhp-hr)	Blend4 (g/gal)
0.48	9.9	0.29	6.1	0.12	2.5	0.10	2.1
0.50	10.5	0.31	6.4	0.12	2.6	0.10	2.2
11.24	233.8	6.87	142.8	2.82	58.7	2.38	49.5
1.28	26.6	1.28	26.6	1.28	26.6	1.28	26.6
0.32	6.7	0.20	4.2	0.07	1.5	0.06	1.2
0.31	6.5	0.19	4.0	0.07	1.5	0.06	1.2
	10,210		10,210		10,210		10,210
	0.80		0.8		0.8		0.8
	0.26		0.26		0.26		0.26

USEPA Tier Emissions Factors (USEPA 2009)

	Uncontrolled	Uncontrolled	Tier 0	Tier 0	Tier 0+	Tier 0+	Tier 1	Tier 1	Tier 1+	Tier 1+	Tier 4	Tier 4	
	(g/bhp-hr)	(g/Gal)	(g/bhp-hr)	(g/Gal)	(g/bhp-hr)	(g/Gal)	(g/bhp-hr)	(g/Gal)	(g/bhp-hr)	(g/Gal)	(g/bhp-hr)	(g/gal)	Sources
HC	0.48	10.0	0.48	10.0	0.30	6.2	0.47	9.8	0.29	6.0	0.04	0.8	EPA 2009, Table 1
ROG	0.51	10.5	0.51	10.5	0.32	6.6	0.49	10.3	0.31	6.4	0.04	0.9	Calculated
NOx	13.00	270.4	8.60	178.9	7.20	149.8	6.70	139.4	6.70	139.4	1.00	20.8	EPA 2009,Table 1
CO	1.28	26.6	1.28	26.6	1.28	26.6	1.28	26.6	1.28	26.6	1.28	26.6	EPA 2009,Table 1
PM10	0.32	6.7	0.32	6.7	0.20	4.2	0.32	6.7	0.20	4.2	0.02	0.3	EPA 2009,Table 1
PM2.5	0.31	6.5	0.31	6.5	0.19	4.0	0.31	6.5	0.19	4.0	0.01	0.3	Calculated
CO2		10,210		10,210		10,210		10,210		10,210		10,210	Climate Registry 2013, Table 12.1
CH4		0.80		0.80		0.80		0.80		0.80		0.80	Climate Registry 2013, Table 13.7
N2O		0.26		0.26		0.26		0.26		0.26		0.26	Climate Registry 2013, Table 13.7

VOC/HC	1.053
PM2.5/PM10	0.97
grams/kg	1000
bhp-hr/gal	20.8
lbs_gram	0.00220462
MT_gram	0.000001

EPA 2009, page 4
EPA 2009, page 4
EPA 2009, Table 3

Existing Splits	Vehicle Type	2020 Splits (76.5%)
69.0%	1980s F40	
10.3%	1998 F40	7.8%
20.7%	2003 MP36	15.7%
	DMU/EMU	76.5%

Calc of 23.5% Split	
31.0%	Existing
132.1%	Adjustment
7.8%	New
15.7%	New

U. S. DOT CROSSING INVENTORY FORM

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

OMB No. 2130-0017

Instructions for the initial reporting of the following types of new or previously unreported crossings: For public highway-rail grade crossings, complete the entire inventory Form. For private highway-rail grade crossings, complete the Header, Parts I and II, and the Submission Information section. For public pathway grade crossings (including pedestrian station grade crossings), complete the Header, Parts I and II, and the Submission Information section. For Private pathway grade crossings, complete the Header, Parts I and II, and the Submission Information section. For grade-separated highway-rail or pathway crossings (including pedestrian station crossings), complete the Header, Part I, and the Submission Information section. For changes to existing data, complete the Header, Part I Items 1-3, and the Submission Information section, in addition to the updated data fields. Note: For private crossings only, Part I Item 20 and Part III Item 2.K. are required unless otherwise noted. An asterisk * denotes an optional field.

A. Revision Date	B. Reporting Agency	C. Reason for Update (Select only one)	D. DOT Crossing Inventory Number
(MM/DD/YYYY) 03 / 21 / 2014	☐ Railroad ☐ Transit ☒ State ☐ Other	☒ Change in Data ☐ New Crossing ☐ Closed ☐ No Train Traffic ☐ Quiet Zone Update ☐ Re-Open ☐ Date Change Only ☐ Change in Primary Operating RR ☐ Admin. Correction	754886F

Part I: Location and Classification Information

Part II: Railroad Information

1. Estimated Number of Daily Train Movements

1.A. Total Day Thru Trains (6 AM to 6 PM)	1.B. Total Night Thru Trains (6 PM to 6 AM)	1.C. Total Switching Trains	1.D. Total Transit Trains	1.E. Check if Less Than One Movement Per Day ☐ How many trains per week?
65	29	0		

2. Year of Train Count Data (YYYY) _____
3. Speed of Train at Crossing
3.A. Maximum Timetable Speed (mph) 79
3.B. Typical Speed Range Over Crossing (mph) from 40 to 79

4. Type and Count of Tracks
Main 2 Siding ____ Yard ____ Transit ____ Industry ____

5. Train Detection (Main Track only)
☒ Constant Warning Time ☐ Motion Detection ☐AFO ☐ PTC ☐ DC ☐ Other ☐ None

6. Is Track Signaled? ☒ Yes ☐ No
7.A. Event Recorder ☐ Yes ☐ No
7.B. Remote Health Monitoring ☐ Yes ☐ No

FORM FRA F 6180.71 (Rev. 3/15) OMB approval expires 3/31/2018 Page 1 OF 2

Locomotive Operational Profile

Average Load Factor for Passenger Locomotives

Throttle Notch	% Time in Notch	% of Full Power in Notch	% Full Power x % Time
Idle	47.4%	0.4%	0.002
Dynamic Brake	6.2%	2.1%	0.001
1	7.0%	5.0%	0.004
2	5.1%	11.4%	0.006
3	5.7%	23.5%	0.013
4	4.7%	34.3%	0.016
5	4.0%	48.1%	0.019
6	2.9%	64.3%	0.019
7	1.4%	86.6%	0.012
8	15.6%	102.5%	0.160
Composite			**0.252**

Average Load Factor for Freight Locomotives

Throttle Notch	% Time in Notch	% of Full Power in Notch	% Full Power x % Time
Idle	38.0%	0.4%	0.15%
Dynamic Brake	12.5%	2.1%	0.26%
1	6.5%	5.0%	0.33%
2	6.5%	11.4%	0.74%
3	5.2%	23.5%	1.22%
4	4.4%	34.3%	1.51%
5	3.8%	48.1%	1.83%
6	3.9%	64.3%	2.51%
7	3.0%	86.6%	2.60%
8	16.2%	102.5%	16.61%
Composite			0.28

Table 4-6

EPA Estimated Duty-Cycles for Current In-Use Locomotive
(Percent Time in Notch)

Throttle Notch	Line-haul	Passenger	Switch
Idle	38.0	47.4	59.8
Dynamic Brake	12.5	6.2	0.0
1	6.5	7.0	12.4
2	6.5	5.1	12.3
3	5.2	5.7	5.8
4	4.4	4.7	3.6
5	3.8	4.0	3.6
6	3.9	2.9	1.5
7	3.0	1.4	0.2
8	16.2	15.6	0.8

https://yosemite.epa.gov/ee/epa/ria.nsf/vwAN/TS0000510E-01.pdf/$file/TS0000510E-01.pdf

Table 6.8: Estimated Average Load Factor

Notch	% of Full Power in Notch	% of Operating Time in Notch	% Full Power x % Time
DB	2.1%	12.5%	0.003
Idle	0.4%	38.0%	0.002
1	5.0%	6.5%	0.003
2	11.4%	6.5%	0.007
3	23.5%	5.2%	0.012
4	34.3%	4.4%	0.015
5	48.1%	3.8%	0.018
6	64.3%	3.9%	0.025
7	86.6%	3.0%	0.026
8	102.5%	16.2%	0.166
Average line haul locomotive load factor:			**0.28**

https://www.portoflosangeles.org/pdf/2013_Air_Emissions_Inventory_Full_Report.pdf

Cancer Risk Parameters -for DPM

BAAQMD Cancer Risk Methodology

Unit Cancer Risk Factor = CPF x ASF x DBR x ED x EF x TAH x AF/ AT

Cancer Risk = probability of an individual contracting cancer out of a population of 1 million people over a lifetime exposure duration of 30 years

DPM = long-term average concentration of diesel PM as predicted by the air dispersion model (ug/m3)

CPF = cancer potency factor for DPM (mg/kg-day)

ASF = age sensitivity factors that are dependent on the age of the exposed individual (unitless)

DBR = daily breathing rates that are dependent on the age of the exposed individual (liters/kg-day)

ED = exposure duration (years)

EF = exposure frequency (days/year)

TAH = time at home factors that are dependent on the age of the exposed individual (%)

AT = averaging time over the lifetime of an individual (days)

AF = adjustment factor for workers and students (unitless)

Cancer Risk Equation Values as recommended by the California Office of Environmental Health Hazards Assessment and BAAQMD Air Toxics New Source Review Program Health Risk Assessment Guidelines (January 2016)

Sensitive Receptors

Cancer Potency Factor	1.1	milligrams/kg-day
Exposure Frequency	350	days
Averaging Time	25550	days
ASF, DBR, TAH Age Factors		

Age Group	**ASF**	**95th %/80-DBR**	**TAH**	**Exposure Duration**	**Unit Risk Factor (ug/m3)**	
3rd Trimester	10	361	0.85	0.25	11.6	11.6
0-1 years	10	1090	0.85	1	139.6	139.6
1-2 years	10	1090	0.85	1	139.6	139.6
3-16 years	3	572	0.72	14	260.6	18.62
>16 to 30 years	1	261	0.73	14	40.2	2.871
				Total Over 30 years	591.6	

Construction **Duration 21 months**

Age Group	**ASF**	**95th %/80-DBR**	**TAH**	**Exposure Duration**	**Unit Risk Factor (ug/m3)**
3rd Trimester	10	361	0.85	0.25	11.6
0-1 years	10	1090	0.85	1	139.6
1-2 years	10	1090	0.85	0.4	55.8

URF for 21 months	207.0
URF for 30 years	591.6

Ruben Hurin
March 22, 2018

Attachment C:
AERMOD Output Files for Project Construction

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.5.0
** Lakes Environmental Software Inc.
** Date: 3/15/2018
** File: C:\Users\xli\Desktop\2803.0009 Burlinegame HRA\construction
HRA\construction HRA.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\xli\Desktop\2803.0009 Burlinegame
HRA\construction HRA\cons
   MODELOPT DFAULT CONC
   AVERTIME ANNUAL
   URBANOPT 100000
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "construction HRA.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION PAREA1       AREAPOLY   557264.321  4159626.519
5.050
** DESCRSRC Construction Area Source
** ---------------------------------------------------------------------
--
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC off-site truck
** PREFIX
** Length of Side = 9.00
** Configuration = Adjacent
** Emission Rate = 0.00001
** Elevated
** Vertical Dimension = 6.22
** SZINIT = 1.45
```

```
** Nodes = 4
** 557283.565, 4159655.602, 5.58, 3.11, 4.19
** 557295.860, 4159666.580, 5.74, 3.11, 4.19
** 557015.708, 4159809.729, 3.40, 3.11, 4.19
** 556644.221, 4160010.403, 4.17, 3.11, 4.19
** ------------------------------------------------------------------
--
   LOCATION L0000001     VOLUME   557286.921 4159658.599 5.58
   LOCATION L0000002     VOLUME   557293.635 4159664.593 5.69
   LOCATION L0000003     VOLUME   557290.501 4159669.317 5.65
   LOCATION L0000004     VOLUME   557282.487 4159673.413 5.53
   LOCATION L0000005     VOLUME   557274.473 4159677.508 5.39
   LOCATION L0000006     VOLUME   557266.458 4159681.603 5.30
   LOCATION L0000007     VOLUME   557258.444 4159685.698 5.24
   LOCATION L0000008     VOLUME   557250.429 4159689.793 5.20
   LOCATION L0000009     VOLUME   557242.415 4159693.888 5.18
   LOCATION L0000010     VOLUME   557234.401 4159697.983 5.16
   LOCATION L0000011     VOLUME   557226.386 4159702.078 5.10
   LOCATION L0000012     VOLUME   557218.372 4159706.174 5.07
   LOCATION L0000013     VOLUME   557210.358 4159710.269 5.01
   LOCATION L0000014     VOLUME   557202.343 4159714.364 4.89
   LOCATION L0000015     VOLUME   557194.329 4159718.459 4.77
   LOCATION L0000016     VOLUME   557186.315 4159722.554 4.65
   LOCATION L0000017     VOLUME   557178.300 4159726.649 4.57
   LOCATION L0000018     VOLUME   557170.286 4159730.744 4.57
   LOCATION L0000019     VOLUME   557162.271 4159734.839 4.57
   LOCATION L0000020     VOLUME   557154.257 4159738.934 4.57
   LOCATION L0000021     VOLUME   557146.243 4159743.030 4.47
   LOCATION L0000022     VOLUME   557138.228 4159747.125 4.37
   LOCATION L0000023     VOLUME   557130.214 4159751.220 4.30
   LOCATION L0000024     VOLUME   557122.200 4159755.315 4.23
   LOCATION L0000025     VOLUME   557114.185 4159759.410 4.13
   LOCATION L0000026     VOLUME   557106.171 4159763.505 4.07
   LOCATION L0000027     VOLUME   557098.157 4159767.600 4.05
   LOCATION L0000028     VOLUME   557090.142 4159771.695 4.08
   LOCATION L0000029     VOLUME   557082.128 4159775.790 4.07
   LOCATION L0000030     VOLUME   557074.113 4159779.886 3.96
   LOCATION L0000031     VOLUME   557066.099 4159783.981 3.76
   LOCATION L0000032     VOLUME   557058.085 4159788.076 3.68
   LOCATION L0000033     VOLUME   557050.070 4159792.171 3.70
   LOCATION L0000034     VOLUME   557042.056 4159796.266 3.65
   LOCATION L0000035     VOLUME   557034.042 4159800.361 3.53
   LOCATION L0000036     VOLUME   557026.027 4159804.456 3.51
   LOCATION L0000037     VOLUME   557018.013 4159808.551 3.48
   LOCATION L0000038     VOLUME   557010.067 4159812.776 3.42
   LOCATION L0000039     VOLUME   557002.148 4159817.054 3.36
   LOCATION L0000040     VOLUME   556994.230 4159821.331 3.40
   LOCATION L0000041     VOLUME   556986.311 4159825.609 3.43
   LOCATION L0000042     VOLUME   556978.393 4159829.886 3.47
   LOCATION L0000043     VOLUME   556970.474 4159834.164 3.51
   LOCATION L0000044     VOLUME   556962.556 4159838.441 3.54
   LOCATION L0000045     VOLUME   556954.637 4159842.719 3.58
```

```
   LOCATION L0000046     VOLUME   556946.719 4159846.996 3.62
   LOCATION L0000047     VOLUME   556938.800 4159851.274 3.66
   LOCATION L0000048     VOLUME   556930.882 4159855.551 3.77
   LOCATION L0000049     VOLUME   556922.963 4159859.829 3.89
   LOCATION L0000050     VOLUME   556915.045 4159864.106 4.04
   LOCATION L0000051     VOLUME   556907.126 4159868.384 4.35
   LOCATION L0000052     VOLUME   556899.208 4159872.661 4.63
   LOCATION L0000053     VOLUME   556891.289 4159876.939 4.84
   LOCATION L0000054     VOLUME   556883.370 4159881.216 4.90
   LOCATION L0000055     VOLUME   556875.452 4159885.494 4.94
   LOCATION L0000056     VOLUME   556867.533 4159889.771 4.95
   LOCATION L0000057     VOLUME   556859.615 4159894.049 4.94
   LOCATION L0000058     VOLUME   556851.696 4159898.326 4.89
   LOCATION L0000059     VOLUME   556843.778 4159902.604 4.68
   LOCATION L0000060     VOLUME   556835.859 4159906.881 4.44
   LOCATION L0000061     VOLUME   556827.941 4159911.159 4.35
   LOCATION L0000062     VOLUME   556820.022 4159915.436 4.28
   LOCATION L0000063     VOLUME   556812.104 4159919.714 4.30
   LOCATION L0000064     VOLUME   556804.185 4159923.991 4.40
   LOCATION L0000065     VOLUME   556796.267 4159928.269 4.56
   LOCATION L0000066     VOLUME   556788.348 4159932.546 4.66
   LOCATION L0000067     VOLUME   556780.430 4159936.824 4.70
   LOCATION L0000068     VOLUME   556772.511 4159941.101 4.59
   LOCATION L0000069     VOLUME   556764.593 4159945.379 4.51
   LOCATION L0000070     VOLUME   556756.674 4159949.656 4.47
   LOCATION L0000071     VOLUME   556748.756 4159953.934 4.49
   LOCATION L0000072     VOLUME   556740.837 4159958.211 4.56
   LOCATION L0000073     VOLUME   556732.919 4159962.489 4.66
   LOCATION L0000074     VOLUME   556725.000 4159966.766 4.65
   LOCATION L0000075     VOLUME   556717.081 4159971.044 4.54
   LOCATION L0000076     VOLUME   556709.163 4159975.321 4.45
   LOCATION L0000077     VOLUME   556701.244 4159979.599 4.38
   LOCATION L0000078     VOLUME   556693.326 4159983.876 4.35
   LOCATION L0000079     VOLUME   556685.407 4159988.154 4.39
   LOCATION L0000080     VOLUME   556677.489 4159992.431 4.50
   LOCATION L0000081     VOLUME   556669.570 4159996.709 4.64
   LOCATION L0000082     VOLUME   556661.652 4160000.986 4.59
   LOCATION L0000083     VOLUME   556653.733 4160005.264 4.53
   LOCATION L0000084     VOLUME   556645.815 4160009.541 4.48
** End of LINE VOLUME Source ID = SLINE1
** Source Parameters **
   SRCPARAM PAREA1         0.00001     5.000         4
   AREAVERT PAREA1       557264.321 4159626.519 557303.422 4159601.980
   AREAVERT PAREA1       557331.468 4159630.564 557289.400 4159653.755
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000001     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000002     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000003     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000004     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000005     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000006     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000007     0.000000119      3.11      4.19      1.45
```

SRCPARAM	L0000008	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000009	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000010	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000011	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000012	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000013	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000014	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000015	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000016	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000017	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000018	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000019	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000020	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000021	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000022	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000023	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000024	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000025	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000026	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000027	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000028	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000029	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000030	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000031	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000032	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000033	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000034	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000035	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000036	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000037	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000038	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000039	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000040	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000041	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000042	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000043	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000044	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000045	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000046	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000047	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000048	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000049	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000050	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000051	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000052	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000053	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000054	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000055	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000056	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000057	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000058	0.000000119	3.11	4.19	1.45
SRCPARAM	L0000059	0.000000119	3.11	4.19	1.45

```
   SRCPARAM L0000060     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000061     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000062     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000063     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000064     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000065     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000066     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000067     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000068     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000069     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000070     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000071     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000072     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000073     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000074     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000075     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000076     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000077     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000078     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000079     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000080     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000081     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000082     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000083     0.000000119      3.11      4.19      1.45
   SRCPARAM L0000084     0.000000119      3.11      4.19      1.45
** ------------------------------------------------------------------
--
   URBANSRC PAREA1
   URBANSRC L0000001
   URBANSRC L0000002
   URBANSRC L0000003
   URBANSRC L0000004
   URBANSRC L0000005
   URBANSRC L0000006
   URBANSRC L0000007
   URBANSRC L0000008
   URBANSRC L0000009
   URBANSRC L0000010
   URBANSRC L0000011
   URBANSRC L0000012
   URBANSRC L0000013
   URBANSRC L0000014
   URBANSRC L0000015
   URBANSRC L0000016
   URBANSRC L0000017
   URBANSRC L0000018
   URBANSRC L0000019
   URBANSRC L0000020
   URBANSRC L0000021
   URBANSRC L0000022
   URBANSRC L0000023
   URBANSRC L0000024
```

URBANSRC L0000025
URBANSRC L0000026
URBANSRC L0000027
URBANSRC L0000028
URBANSRC L0000029
URBANSRC L0000030
URBANSRC L0000031
URBANSRC L0000032
URBANSRC L0000033
URBANSRC L0000034
URBANSRC L0000035
URBANSRC L0000036
URBANSRC L0000037
URBANSRC L0000038
URBANSRC L0000039
URBANSRC L0000040
URBANSRC L0000041
URBANSRC L0000042
URBANSRC L0000043
URBANSRC L0000044
URBANSRC L0000045
URBANSRC L0000046
URBANSRC L0000047
URBANSRC L0000048
URBANSRC L0000049
URBANSRC L0000050
URBANSRC L0000051
URBANSRC L0000052
URBANSRC L0000053
URBANSRC L0000054
URBANSRC L0000055
URBANSRC L0000056
URBANSRC L0000057
URBANSRC L0000058
URBANSRC L0000059
URBANSRC L0000060
URBANSRC L0000061
URBANSRC L0000062
URBANSRC L0000063
URBANSRC L0000064
URBANSRC L0000065
URBANSRC L0000066
URBANSRC L0000067
URBANSRC L0000068
URBANSRC L0000069
URBANSRC L0000070
URBANSRC L0000071
URBANSRC L0000072
URBANSRC L0000073
URBANSRC L0000074
URBANSRC L0000075
URBANSRC L0000076

```
   URBANSRC L0000077
   URBANSRC L0000078
   URBANSRC L0000079
   URBANSRC L0000080
   URBANSRC L0000081
   URBANSRC L0000082
   URBANSRC L0000083
   URBANSRC L0000084

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 2"
** WeekDays:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000001     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000002     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000003     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000004     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000005     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000006     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0000007     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000007     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000008     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000009     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000010     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000011     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000012     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000013     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000014     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000015     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000016     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000017     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000018     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000019     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0000020     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000020     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000021     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000022     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000023     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000024     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000025     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000026     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000027     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000028     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000029     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000030     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000031     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000032     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0000033     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000033     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000034     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000035     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000036     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000037     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000038     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000039     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000040     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000040     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000041     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000041     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000042     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000042     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000043     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000044     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000045     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000045     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0000046     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000046     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000047     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000047     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000048     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000048     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000049     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000050     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000051     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000052     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000053     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000054     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000055     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000055     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000056     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000057     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000058     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000058     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000058     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000058     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0000059     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000059     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000060     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000060     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000061     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000061     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000061     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000061     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000062     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000062     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000063     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000063     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000063     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000063     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000064     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000064     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000064     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000064     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000065     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000066     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000067     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000067     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000067     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000067     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000068     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000068     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000068     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000068     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000069     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000070     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000070     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000070     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000070     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000071     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000071     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000071     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000071     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000072     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
   EMISFACT L0000072     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000072     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000072     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000073     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000073     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000073     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000073     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000074     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000074     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000074     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000074     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000075     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000075     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000075     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000075     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000076     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000076     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000076     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000076     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000077     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000077     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000077     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000077     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000078     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000078     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000078     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000078     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000079     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000079     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000079     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000079     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000080     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000080     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000080     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000080     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000081     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000081     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000081     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000081     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000082     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000082     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000082     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000082     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000083     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000083     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000083     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000083     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000084     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000084     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000084     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000084     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
```

```
EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000058     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000058     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000058     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000058     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000061     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000061     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000061     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000061     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000063     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000063     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000063     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000063     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000064     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000064     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000064     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000064     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0000066     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000067     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000067     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000067     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000067     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000068     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000068     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000068     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000068     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000070     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000070     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000070     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000070     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000071     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000071     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000071     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000071     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000072     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000072     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000072     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000072     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000073     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000073     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000073     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000073     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000074     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000074     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000074     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000074     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000075     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000075     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000075     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000075     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000076     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000076     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000076     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000076     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000077     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000077     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000077     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000077     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000078     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000078     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000078     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000078     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
   EMISFACT L0000079     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000079     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000079     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000079     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000080     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000080     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000080     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000080     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000081     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000081     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000081     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000081     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000082     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000082     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000082     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000082     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000083     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000083     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000083     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000083     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000084     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000084     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000084     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000084     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000058     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000058     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000058     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000058     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000061     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000061     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000061     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000061     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000063     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000063     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000063     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000063     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000064     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000064     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000064     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000064     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000067     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000067     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000067     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000067     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000068     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000068     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000068     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000068     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000070     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000070     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000070     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000070     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000071     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000071     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000071     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000071     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000072     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000072     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000072     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
   EMISFACT L0000072     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000073     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000073     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000073     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000073     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000074     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000074     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000074     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000074     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000075     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000075     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000075     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000075     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000076     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000076     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000076     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000076     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000077     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000077     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000077     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000077     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000078     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000078     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000078     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000078     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000079     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000079     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000079     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000079     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000080     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000080     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000080     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000080     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000081     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000081     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000081     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000081     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000082     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000082     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000082     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000082     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000083     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000083     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000083     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000083     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000084     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000084     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000084     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000084     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP Area     PAREA1
   SRCGROUP Line     L0000001 L0000002 L0000003 L0000004 L0000005
L0000006
```

```
   SRCGROUP Line     L0000007 L0000008 L0000009 L0000010 L0000011
L0000012
   SRCGROUP Line     L0000013 L0000014 L0000015 L0000016 L0000017
L0000018
   SRCGROUP Line     L0000019 L0000020 L0000021 L0000022 L0000023
L0000024
   SRCGROUP Line     L0000025 L0000026 L0000027 L0000028 L0000029
L0000030
   SRCGROUP Line     L0000031 L0000032 L0000033 L0000034 L0000035
L0000036
   SRCGROUP Line     L0000037 L0000038 L0000039 L0000040 L0000041
L0000042
   SRCGROUP Line     L0000043 L0000044 L0000045 L0000046 L0000047
L0000048
   SRCGROUP Line     L0000049 L0000050 L0000051 L0000052 L0000053
L0000054
   SRCGROUP Line     L0000055 L0000056 L0000057 L0000058 L0000059
L0000060
   SRCGROUP Line     L0000061 L0000062 L0000063 L0000064 L0000065
L0000066
   SRCGROUP Line     L0000067 L0000068 L0000069 L0000070 L0000071
L0000072
   SRCGROUP Line     L0000073 L0000074 L0000075 L0000076 L0000077
L0000078
   SRCGROUP Line     L0000079 L0000080 L0000081 L0000082 L0000083
L0000084
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "construction HRA.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\724940\724940.SFC
   PROFFILE ..\724940\724940.PFL
   SURFDATA 23234 2009 SAN_FRANCISCO/INT'L_ARPT
   UAIRDATA 23230 2009 OAKLAND/WSO_AP
   PROFBASE 2.4 METERS
ME FINISHED
**
****************************************
```

```
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL "construction HRA.AD\AN00GALL.PLT" 31
   PLOTFILE ANNUAL Area "construction HRA.AD\AN00G001.PLT" 32
   PLOTFILE ANNUAL Line "construction HRA.AD\AN00G002.PLT" 33
   SUMMFILE "construction HRA.sum"
OU FINISHED

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


 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                                                 ***     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    85
Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =    100000.0 ;  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:
```

```
         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 ANNUAL Averages Only

 **This Run Includes:     85 Source(s);       3 Source Group(s); and
174 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     84 VOLUME source(s)
                 and:      1 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with      0 line(s)


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

 **The AERMET Input Meteorological Data Version Date:  14134

 **Output Options Selected:
          Model Outputs Tables of ANNUAL Averages by Receptor
          Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

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

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

 **Approximate Storage Requirements of Model =      3.6 MB of RAM.

 **Detailed Error/Message File:   construction HRA.err
 **File for Summary of Results:   construction HRA.sum
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** 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	0.11900E-06	557286.9	4159658.6	5.6	3.11	4.19	1.45	YES	HRDOW
L0000002	0	0.11900E-06	557293.6	4159664.6	5.7	3.11	4.19	1.45	YES	HRDOW
L0000003	0	0.11900E-06	557290.5	4159669.3	5.6	3.11	4.19	1.45	YES	HRDOW
L0000004	0	0.11900E-06	557282.5	4159673.4	5.5	3.11	4.19	1.45	YES	HRDOW
L0000005	0	0.11900E-06	557274.5	4159677.5	5.4	3.11	4.19	1.45	YES	HRDOW
L0000006	0	0.11900E-06	557266.5	4159681.6	5.3	3.11	4.19	1.45	YES	HRDOW
L0000007	0	0.11900E-06	557258.4	4159685.7	5.2	3.11	4.19	1.45	YES	HRDOW
L0000008	0	0.11900E-06	557250.4	4159689.8	5.2	3.11	4.19	1.45	YES	HRDOW
L0000009	0	0.11900E-06	557242.4	4159693.9	5.2	3.11	4.19	1.45	YES	HRDOW
L0000010	0	0.11900E-06	557234.4	4159698.0	5.2	3.11	4.19	1.45	YES	HRDOW
L0000011	0	0.11900E-06	557226.4	4159702.1	5.1	3.11	4.19	1.45	YES	HRDOW
L0000012	0	0.11900E-06	557218.4	4159706.2	5.1	3.11	4.19	1.45	YES	HRDOW
L0000013	0	0.11900E-06	557210.4	4159710.3	5.0	3.11	4.19	1.45	YES	HRDOW
L0000014	0	0.11900E-06	557202.3	4159714.4	4.9	3.11	4.19	1.45	YES	HRDOW
L0000015	0	0.11900E-06	557194.3	4159718.5	4.8	3.11	4.19	1.45	YES	HRDOW

L0000016	0	0.11900E-06	557186.3	4159722.6	4.6	3.11	4.19	1.45	YES	HRDOW
L0000017	0	0.11900E-06	557178.3	4159726.6	4.6	3.11	4.19	1.45	YES	HRDOW
L0000018	0	0.11900E-06	557170.3	4159730.7	4.6	3.11	4.19	1.45	YES	HRDOW
L0000019	0	0.11900E-06	557162.3	4159734.8	4.6	3.11	4.19	1.45	YES	HRDOW
L0000020	0	0.11900E-06	557154.3	4159738.9	4.6	3.11	4.19	1.45	YES	HRDOW
L0000021	0	0.11900E-06	557146.2	4159743.0	4.5	3.11	4.19	1.45	YES	HRDOW
L0000022	0	0.11900E-06	557138.2	4159747.1	4.4	3.11	4.19	1.45	YES	HRDOW
L0000023	0	0.11900E-06	557130.2	4159751.2	4.3	3.11	4.19	1.45	YES	HRDOW
L0000024	0	0.11900E-06	557122.2	4159755.3	4.2	3.11	4.19	1.45	YES	HRDOW
L0000025	0	0.11900E-06	557114.2	4159759.4	4.1	3.11	4.19	1.45	YES	HRDOW
L0000026	0	0.11900E-06	557106.2	4159763.5	4.1	3.11	4.19	1.45	YES	HRDOW
L0000027	0	0.11900E-06	557098.2	4159767.6	4.0	3.11	4.19	1.45	YES	HRDOW
L0000028	0	0.11900E-06	557090.1	4159771.7	4.1	3.11	4.19	1.45	YES	HRDOW
L0000029	0	0.11900E-06	557082.1	4159775.8	4.1	3.11	4.19	1.45	YES	HRDOW
L0000030	0	0.11900E-06	557074.1	4159779.9	4.0	3.11	4.19	1.45	YES	HRDOW
L0000031	0	0.11900E-06	557066.1	4159784.0	3.8	3.11	4.19	1.45	YES	HRDOW
L0000032	0	0.11900E-06	557058.1	4159788.1	3.7	3.11	4.19	1.45	YES	HRDOW
L0000033	0	0.11900E-06	557050.1	4159792.2	3.7	3.11	4.19	1.45	YES	HRDOW
L0000034	0	0.11900E-06	557042.1	4159796.3	3.6	3.11	4.19	1.45	YES	HRDOW
L0000035	0	0.11900E-06	557034.0	4159800.4	3.5	3.11	4.19	1.45	YES	HRDOW
L0000036	0	0.11900E-06	557026.0	4159804.5	3.5	3.11	4.19	1.45	YES	HRDOW
L0000037	0	0.11900E-06	557018.0	4159808.6	3.5	3.11	4.19	1.45	YES	HRDOW
L0000038	0	0.11900E-06	557010.1	4159812.8	3.4	3.11	4.19	1.45	YES	HRDOW
L0000039	0	0.11900E-06	557002.1	4159817.1	3.4	3.11	4.19	1.45	YES	HRDOW
L0000040	0	0.11900E-06	556994.2	4159821.3	3.4	3.11	4.19	1.45	YES	HRDOW

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** 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	0.11900E-06	556986.3	4159825.6	3.4	3.11	4.19	1.45	YES	HRDOW
L0000042	0	0.11900E-06	556978.4	4159829.9	3.5	3.11	4.19	1.45	YES	HRDOW
L0000043	0	0.11900E-06	556970.5	4159834.2	3.5	3.11	4.19	1.45	YES	HRDOW
L0000044	0	0.11900E-06	556962.6	4159838.4	3.5	3.11	4.19	1.45	YES	HRDOW
L0000045	0	0.11900E-06	556954.6	4159842.7	3.6	3.11	4.19	1.45	YES	HRDOW
L0000046	0	0.11900E-06	556946.7	4159847.0	3.6	3.11	4.19	1.45	YES	HRDOW
L0000047	0	0.11900E-06	556938.8	4159851.3	3.7	3.11	4.19	1.45	YES	HRDOW
L0000048	0	0.11900E-06	556930.9	4159855.6	3.8	3.11	4.19	1.45	YES	HRDOW
L0000049	0	0.11900E-06	556923.0	4159859.8	3.9	3.11	4.19	1.45	YES	HRDOW
L0000050	0	0.11900E-06	556915.0	4159864.1	4.0	3.11	4.19	1.45	YES	HRDOW
L0000051	0	0.11900E-06	556907.1	4159868.4	4.3	3.11	4.19	1.45	YES	HRDOW
L0000052	0	0.11900E-06	556899.2	4159872.7	4.6	3.11	4.19	1.45	YES	HRDOW
L0000053	0	0.11900E-06	556891.3	4159876.9	4.8	3.11	4.19	1.45	YES	HRDOW
L0000054	0	0.11900E-06	556883.4	4159881.2	4.9	3.11	4.19	1.45	YES	HRDOW
L0000055	0	0.11900E-06	556875.5	4159885.5	4.9	3.11	4.19	1.45	YES	HRDOW

L0000056	0	0.11900E-06	556867.5	4159889.8	5.0	3.11	4.19	1.45	YES	HRDOW
L0000057	0	0.11900E-06	556859.6	4159894.0	4.9	3.11	4.19	1.45	YES	HRDOW
L0000058	0	0.11900E-06	556851.7	4159898.3	4.9	3.11	4.19	1.45	YES	HRDOW
L0000059	0	0.11900E-06	556843.8	4159902.6	4.7	3.11	4.19	1.45	YES	HRDOW
L0000060	0	0.11900E-06	556835.9	4159906.9	4.4	3.11	4.19	1.45	YES	HRDOW
L0000061	0	0.11900E-06	556827.9	4159911.2	4.3	3.11	4.19	1.45	YES	HRDOW
L0000062	0	0.11900E-06	556820.0	4159915.4	4.3	3.11	4.19	1.45	YES	HRDOW
L0000063	0	0.11900E-06	556812.1	4159919.7	4.3	3.11	4.19	1.45	YES	HRDOW
L0000064	0	0.11900E-06	556804.2	4159924.0	4.4	3.11	4.19	1.45	YES	HRDOW
L0000065	0	0.11900E-06	556796.3	4159928.3	4.6	3.11	4.19	1.45	YES	HRDOW
L0000066	0	0.11900E-06	556788.3	4159932.5	4.7	3.11	4.19	1.45	YES	HRDOW
L0000067	0	0.11900E-06	556780.4	4159936.8	4.7	3.11	4.19	1.45	YES	HRDOW
L0000068	0	0.11900E-06	556772.5	4159941.1	4.6	3.11	4.19	1.45	YES	HRDOW
L0000069	0	0.11900E-06	556764.6	4159945.4	4.5	3.11	4.19	1.45	YES	HRDOW
L0000070	0	0.11900E-06	556756.7	4159949.7	4.5	3.11	4.19	1.45	YES	HRDOW
L0000071	0	0.11900E-06	556748.8	4159953.9	4.5	3.11	4.19	1.45	YES	HRDOW
L0000072	0	0.11900E-06	556740.8	4159958.2	4.6	3.11	4.19	1.45	YES	HRDOW
L0000073	0	0.11900E-06	556732.9	4159962.5	4.7	3.11	4.19	1.45	YES	HRDOW
L0000074	0	0.11900E-06	556725.0	4159966.8	4.6	3.11	4.19	1.45	YES	HRDOW
L0000075	0	0.11900E-06	556717.1	4159971.0	4.5	3.11	4.19	1.45	YES	HRDOW
L0000076	0	0.11900E-06	556709.2	4159975.3	4.5	3.11	4.19	1.45	YES	HRDOW
L0000077	0	0.11900E-06	556701.2	4159979.6	4.4	3.11	4.19	1.45	YES	HRDOW
L0000078	0	0.11900E-06	556693.3	4159983.9	4.3	3.11	4.19	1.45	YES	HRDOW
L0000079	0	0.11900E-06	556685.4	4159988.2	4.4	3.11	4.19	1.45	YES	HRDOW
L0000080	0	0.11900E-06	556677.5	4159992.4	4.5	3.11	4.19	1.45	YES	HRDOW

*** VOLUME SOURCE
DATA ***

```
               NUMBER EMISSION RATE                    BASE    RELEASE
INIT.    INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT
SY       SZ     SOURCE  SCALAR VARY
     ID          CATS.                (METERS) (METERS) (METERS) (METERS)
(METERS) (METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 L0000081         0   0.11900E-06  556669.6 4159996.7     4.6     3.11
4.19     1.45     YES   HRDOW
 L0000082         0   0.11900E-06  556661.7 4160001.0     4.6     3.11
4.19     1.45     YES   HRDOW
 L0000083         0   0.11900E-06  556653.7 4160005.3     4.5     3.11
4.19     1.45     YES   HRDOW
 L0000084         0   0.11900E-06  556645.8 4160009.5     4.5     3.11
4.19     1.45     YES   HRDOW
```


*** AREAPOLY SOURCE
DATA ***

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

```
 PAREA1           0   0.10000E-04  557264.3 4159626.5     5.0     5.00
4         0.00     YES   HRDOW

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN


                                                *** SOURCE IDs DEFINING
SOURCE GROUPS ***

 SRCGROUP ID                                                SOURCE IDs
 -----------                                                ----------


  AREA       PAREA1      ,

  LINE       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    , L0000080    ,

             L0000081    , L0000082    , L0000083    , L0000084    ,
```

```
  ALL        PAREA1      , 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    ,
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN


                                                *** SOURCE IDs DEFINING
SOURCE GROUPS ***

 SRCGROUP ID                                                SOURCE IDs
 -----------                                                ----------


             L0000064    , L0000065    , L0000066    , L0000067    ,
L0000068    , L0000069    , L0000070    , L0000071    ,

             L0000072    , L0000073    , L0000074    , L0000075    ,
L0000076    , L0000077    , L0000078    , L0000079    ,

             L0000080    , L0000081    , L0000082    , L0000083    ,
L0000084    ,
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
PAREA1	100000.	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 , L0000080 , L0000081 , L0000082 , L0000083 , L0000084 ,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = PAREA1 ; SOURCE TYPE = AREAPOLY :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 - - -

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000002     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000003     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000004     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000005     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000006     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000007     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *
```

```
 SOURCE ID = L0000008     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  18
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000009     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  19
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000010     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000011 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000012 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000013     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000014     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000015 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000016 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000017     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000018     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000019     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  29
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000020     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  30
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000021     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  31
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000022     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  32
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *
```

```
 SOURCE ID = L0000023     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000024     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  34
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000025     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000026 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000027 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  37
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000028     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  38
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000029     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40
```

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000030     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000031     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  41
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000032     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000033     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000034     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  44
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000035     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  45
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000036     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  46
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000037     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  47
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *
```

```
 SOURCE ID = L0000038     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000039     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  49
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000040     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000041 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000042 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

```
 - - -
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  53
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000044     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000045 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000046 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  56
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000047     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000048     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000049     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  59
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000050     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  60
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000051     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  61
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000052     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  62
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *
```

```
 SOURCE ID = L0000053     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000054     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  64
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000055     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000056 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000057 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  67
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000058     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  68
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000059     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000060 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000061 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  71
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000062     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000063     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000064     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000065     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  75
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000066     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  76
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000067     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  77
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *
```

```
 SOURCE ID = L0000068     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  78
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000069     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  79
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000070     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000071 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000072 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

- - - -

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  83
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000074     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40
```

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000075     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000076     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  86
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000077     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000078     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000079     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000080     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  90
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000081     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  91
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000082     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  92
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *
```

```
 SOURCE ID = L0000083     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  93
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000084     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  94
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

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

     ( 557237.3, 4159639.7,       5.1,       5.1,       0.0);
( 557240.4, 4159649.4,       5.1,       5.1,       0.0);
     ( 557228.1, 4159655.5,       5.1,       5.1,       0.0);
( 557218.4, 4159660.8,       5.1,       5.1,       0.0);
     ( 557215.4, 4159649.4,       4.9,       4.9,       0.0);
( 557208.8, 4159636.7,       4.6,       4.6,       0.0);
     ( 557223.2, 4159632.3,       4.8,       4.8,       0.0);
( 557213.2, 4159625.2,       4.8,       4.8,       0.0);
     ( 557202.6, 4159616.0,       5.0,       5.0,       0.0);
( 557192.1, 4159607.7,       5.2,       5.2,       0.0);
     ( 557177.6, 4159617.3,       5.1,       5.1,       0.0);
( 557186.8, 4159625.2,       5.0,       5.0,       0.0);
     ( 557177.2, 4159637.1,       4.9,       4.9,       0.0);
( 557187.7, 4159641.0,       4.8,       4.8,       0.0);
     ( 557198.2, 4159646.3,       4.8,       4.8,       0.0);
( 557205.2, 4159662.1,       5.0,       5.0,       0.0);
     ( 557190.8, 4159663.9,       4.7,       4.7,       0.0);
( 557168.4, 4159641.0,       4.8,       4.8,       0.0);
     ( 557162.7, 4159631.8,       5.0,       5.0,       0.0);
( 557155.2, 4159640.2,       4.8,       4.8,       0.0);
     ( 557259.7, 4159617.3,       4.9,       4.9,       0.0);
( 557267.2, 4159612.1,       4.9,       4.9,       0.0);
     ( 557275.5, 4159606.4,       5.0,       5.0,       0.0);
( 557285.2, 4159601.5,       5.3,       5.3,       0.0);
```

(557277.7, 4159591.0, 4.8, 4.8, 0.0);
(557268.9, 4159582.2, 4.5, 4.5, 0.0);
(557257.5, 4159590.1, 4.7, 4.7, 0.0);
(557268.0, 4159596.3, 4.7, 4.7, 0.0);
(557255.3, 4159606.4, 4.7, 4.7, 0.0);
(557245.2, 4159600.6, 4.7, 4.7, 0.0);
(557304.1, 4159587.0, 6.1, 6.1, 0.0);
(557313.3, 4159582.2, 6.2, 6.2, 0.0);
(557324.7, 4159576.1, 6.3, 6.3, 0.0);
(557335.2, 4159568.2, 6.4, 6.4, 0.0);
(557324.2, 4159555.9, 6.4, 6.4, 0.0);
(557308.9, 4159566.0, 6.2, 6.2, 0.0);
(557297.5, 4159576.1, 5.8, 5.8, 0.0);
(557287.4, 4159568.2, 5.5, 5.5, 0.0);
(557308.9, 4159554.5, 6.3, 6.3, 0.0);
(557322.9, 4159544.4, 6.4, 6.4, 0.0);
(557380.0, 4159577.4, 6.7, 6.7, 0.0);
(557388.8, 4159572.5, 6.7, 6.7, 0.0);
(557372.6, 4159563.3, 6.8, 6.8, 0.0);
(557377.4, 4159554.1, 6.8, 6.8, 0.0);
(557387.5, 4159547.1, 7.0, 7.0, 0.0);
(557397.1, 4159542.7, 7.0, 7.0, 0.0);
(557363.3, 4159548.4, 6.7, 6.7, 0.0);
(557370.4, 4159541.8, 6.8, 6.8, 0.0);
(557380.0, 4159536.5, 6.9, 6.9, 0.0);
(557387.0, 4159530.4, 7.0, 7.0, 0.0);
(557231.2, 4159591.9, 5.1, 5.1, 0.0);
(557240.4, 4159585.3, 5.0, 5.0, 0.0);
(557248.3, 4159575.6, 5.1, 5.1, 0.0);
(557255.3, 4159567.3, 5.2, 5.2, 0.0);
(557262.8, 4159557.6, 5.5, 5.5, 0.0);
(557278.6, 4159555.0, 5.7, 5.7, 0.0);
(557288.2, 4159548.8, 6.2, 6.2, 0.0);
(557296.2, 4159541.8, 6.3, 6.3, 0.0);
(557306.2, 4159536.1, 6.4, 6.4, 0.0);
(557315.0, 4159528.2, 6.5, 6.5, 0.0);
(557303.6, 4159768.6, 5.2, 5.2, 0.0);
(557313.3, 4159775.9, 5.3, 5.3, 0.0);
(557324.3, 4159785.7, 5.4, 5.4, 0.0);
(557335.2, 4159777.8, 5.5, 5.5, 0.0);
(557301.2, 4159794.8, 5.2, 5.2, 0.0);
(557280.5, 4159805.1, 5.0, 5.0, 0.0);
(557260.4, 4159790.5, 4.9, 4.9, 0.0);
(557268.3, 4159811.2, 4.9, 4.9, 0.0);
(557222.8, 4159585.1, 5.3, 5.3, 0.0);
(557233.7, 4159576.0, 5.3, 5.3, 0.0);
(557238.6, 4159566.9, 5.5, 5.5, 0.0);
(557246.5, 4159557.1, 5.7, 5.7, 0.0);
(557215.5, 4159571.7, 5.6, 5.6, 0.0);
(557230.1, 4159553.5, 5.9, 5.9, 0.0);
(557240.4, 4159541.9, 6.1, 6.1, 0.0);
(557270.2, 4159539.5, 6.2, 6.2, 0.0);

```
     ( 557280.5, 4159531.0,       6.3,       6.3,       0.0);
( 557291.4, 4159520.1,       6.4,       6.4,       0.0);
     ( 557300.6, 4159512.8,       6.4,       6.4,       0.0);
( 557268.3, 4159526.7,       6.3,       6.3,       0.0);
     ( 557288.4, 4159508.5,       6.4,       6.4,       0.0);
( 557200.9, 4159563.8,       5.7,       5.7,       0.0);
     ( 557211.2, 4159552.3,       6.0,       6.0,       0.0);
( 557220.3, 4159540.7,       6.2,       6.2,       0.0);
     ( 557244.0, 4159521.3,       6.3,       6.3,       0.0);
( 557261.7, 4159514.0,       6.4,       6.4,       0.0);
     ( 557271.4, 4159502.4,       6.4,       6.4,       0.0);
( 557244.6, 4159509.1,       6.5,       6.5,       0.0);
     ( 557258.0, 4159501.2,       6.5,       6.5,       0.0);
( 557283.5, 4159491.5,       6.4,       6.4,       0.0);
```



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

     ( 557271.4, 4159479.9,       6.6,       6.6,       0.0);
( 557355.9, 4159534.0,       6.8,       6.8,       0.0);
     ( 557366.2, 4159531.0,       6.9,       6.9,       0.0);
( 557377.1, 4159525.5,       7.0,       7.0,       0.0);
     ( 557385.0, 4159514.6,       7.0,       7.0,       0.0);
( 557353.4, 4159518.8,       6.9,       6.9,       0.0);
     ( 557377.7, 4159501.2,       7.1,       7.1,       0.0);
( 557343.7, 4159507.9,       6.8,       6.8,       0.0);
     ( 557356.5, 4159501.8,       6.9,       6.9,       0.0);
( 557369.2, 4159492.1,       7.1,       7.1,       0.0);
     ( 557336.4, 4159497.0,       6.7,       6.7,       0.0);
( 557353.4, 4159479.9,       7.0,       7.0,       0.0);
     ( 557327.3, 4159481.2,       6.8,       6.8,       0.0);
( 557338.8, 4159472.6,       7.0,       7.0,       0.0);
     ( 557319.4, 4159470.2,       7.0,       7.0,       0.0);
( 557334.0, 4159459.3,       7.3,       7.3,       0.0);
     ( 557414.8, 4159540.7,       7.0,       7.0,       0.0);
( 557409.4, 4159527.3,       7.0,       7.0,       0.0);
     ( 557434.3, 4159539.5,       7.0,       7.0,       0.0);
( 557444.6, 4159533.4,       7.1,       7.1,       0.0);
     ( 557423.3, 4159525.5,       7.0,       7.0,       0.0);
( 557436.1, 4159520.1,       7.1,       7.1,       0.0);
```

```
    ( 557411.2, 4159514.6,       7.0,       7.0,       0.0);
( 557421.5, 4159504.9,       7.1,       7.1,       0.0);
    ( 557396.6, 4159503.6,       7.1,       7.1,       0.0);
( 557389.9, 4159491.5,       7.2,       7.2,       0.0);
    ( 557416.6, 4159490.9,       7.3,       7.3,       0.0);
( 557407.5, 4159478.7,       7.4,       7.4,       0.0);
    ( 557168.1, 4159588.7,       5.4,       5.4,       0.0);
( 557148.0, 4159602.7,       5.5,       5.5,       0.0);
    ( 557152.2, 4159573.5,       5.5,       5.5,       0.0);
( 557141.3, 4159563.8,       5.8,       5.8,       0.0);
    ( 557129.2, 4159560.2,       6.0,       6.0,       0.0);
( 557187.5, 4159554.7,       5.7,       5.7,       0.0);
    ( 557197.2, 4159543.8,       6.0,       6.0,       0.0);
( 557210.0, 4159532.8,       6.2,       6.2,       0.0);
    ( 557217.3, 4159523.7,       6.3,       6.3,       0.0);
( 557208.8, 4159514.0,       6.4,       6.4,       0.0);
    ( 557199.7, 4159508.5,       6.5,       6.5,       0.0);
( 557171.7, 4159541.3,       5.9,       5.9,       0.0);
    ( 557182.0, 4159531.6,       6.1,       6.1,       0.0);
( 557189.9, 4159523.7,       6.3,       6.3,       0.0);
    ( 557227.6, 4159505.5,       6.5,       6.5,       0.0);
( 557234.9, 4159497.6,       6.6,       6.6,       0.0);
    ( 557242.8, 4159489.1,       6.7,       6.7,       0.0);
( 557248.9, 4159481.8,       6.7,       6.7,       0.0);
    ( 557254.4, 4159473.9,       6.8,       6.8,       0.0);
( 557248.9, 4159465.4,       7.0,       7.0,       0.0);
    ( 557235.5, 4159458.7,       7.0,       7.0,       0.0);
( 557232.5, 4159471.4,       6.9,       6.9,       0.0);
    ( 557224.6, 4159479.3,       6.8,       6.8,       0.0);
( 557216.7, 4159487.8,       6.7,       6.7,       0.0);
    ( 557217.3, 4159497.6,       6.6,       6.6,       0.0);
( 557410.6, 4159576.6,       6.7,       6.7,       0.0);
    ( 557406.9, 4159566.9,       6.8,       6.8,       0.0);
( 557402.7, 4159559.6,       6.9,       6.9,       0.0);
    ( 557484.2, 4159816.6,       6.1,       6.1,       0.0);
( 557496.1, 4159831.5,       6.1,       6.1,       0.0);
    ( 557572.3, 4159760.2,       6.4,       6.4,       0.0);
( 557586.2, 4159749.3,       6.4,       6.4,       0.0);
    ( 557602.0, 4159736.5,       6.4,       6.4,       0.0);
( 557576.3, 4159804.8,       6.2,       6.2,       0.0);
    ( 557595.1, 4159790.9,       6.1,       6.1,       0.0);
( 557608.9, 4159776.1,       6.2,       6.2,       0.0);
    ( 557584.2, 4159776.1,       6.3,       6.3,       0.0);
( 557598.0, 4159762.2,       6.3,       6.3,       0.0);
    ( 557646.5, 4159741.4,       6.3,       6.3,       0.0);
( 557635.6, 4159723.6,       6.4,       6.4,       0.0);
    ( 557623.8, 4159706.8,       6.6,       6.6,       0.0);
( 557615.8, 4159692.9,       6.7,       6.7,       0.0);
    ( 557645.5, 4159690.0,       6.8,       6.8,       0.0);
( 557670.3, 4159681.0,       6.7,       6.7,       0.0);
    ( 557699.0, 4159665.2,       6.7,       6.7,       0.0);
( 557737.6, 4159684.0,       6.4,       6.4,       0.0);
```

```
     ( 557727.7, 4159666.2,       6.7,       6.7,       0.0);
( 557720.8, 4159646.4,       6.7,       6.7,       0.0);
     ( 557682.2, 4159704.8,       6.5,       6.5,       0.0);
( 557662.4, 4159772.1,       6.1,       6.1,       0.0);
     ( 557717.8, 4159753.3,       5.7,       5.7,       0.0);
( 557759.4, 4159751.3,       5.5,       5.5,       0.0);
     ( 557754.4, 4159713.7,       5.9,       5.9,       0.0);
( 557691.1, 4159793.9,       5.5,       5.5,       0.0);
     ( 557718.8, 4159785.0,       5.5,       5.5,       0.0);
( 557736.6, 4159778.0,       5.4,       5.4,       0.0);
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                                                *** METEOROLOGICAL DAYS
SELECTED FOR PROCESSING ***
                                                                    (1=YES;
0=NO)

            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1
1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1
1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1
1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1
1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1
1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1
1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1
1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1
1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1

                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

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\724940\724940.SFC
Met Version: 14134
Profile file: ..\724940\724940.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 23234 Upper air station no.: 23230
Name: SAN_FRANCISCO/INT'L_ARPT Name: OAKLAND/WSO_AP
Year: 2009 Year: 2009

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
09	01	01	1	01	-28.0	0.491	-9.000	-9.000	-999.	826.	386.1	0.49	0.45	1.00	3.86	71.	10.0	282.5	2.0
09	01	01	1	02	-15.7	0.275	-9.000	-9.000	-999.	390.	121.4	0.49	0.45	1.00	2.36	78.	10.0	282.5	2.0
09	01	01	1	03	-24.0	0.421	-9.000	-9.000	-999.	656.	284.0	0.49	0.45	1.00	3.36	94.	10.0	282.5	2.0
09	01	01	1	04	-20.7	0.364	-9.000	-9.000	-999.	529.	211.5	0.32	0.45	1.00	3.36	43.	10.0	282.0	2.0
09	01	01	1	05	-17.2	0.301	-9.000	-9.000	-999.	398.	144.1	0.32	0.45	1.00	2.86	13.	10.0	281.4	2.0
09	01	01	1	06	-27.0	0.472	-9.000	-9.000	-999.	779.	355.0	0.44	0.45	1.00	3.86	352.	10.0	280.9	2.0
09	01	01	1	07	-27.9	0.486	-9.000	-9.000	-999.	812.	374.7	0.32	0.45	1.00	4.36	15.	10.0	280.4	2.0
09	01	01	1	08	-20.9	0.364	-9.000	-9.000	-999.	538.	209.6	0.32	0.45	1.00	3.36	13.	10.0	279.9	2.0
09	01	01	1	09	-8.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	0.45	0.38	0.00	0.	10.0	280.4	2.0
09	01	01	1	10	4.9	0.280	0.224	0.016	83.	355.	-405.2	0.32	0.45	0.25	2.36	21.	10.0	280.9	2.0
09	01	01	1	11	10.7	-9.000	-9.000	-9.000	147.	-999.	-99999.0	0.51	0.45	0.20	0.00	0.	10.0	280.4	2.0

```
 09 01 01   1 12   14.1  0.289  0.429  0.016  203.  373.   -156.0
0.32   0.45   0.19    2.36   26.   10.0  280.9    2.0
 09 01 01   1 13   14.7 -9.000 -9.000 -9.000  247. -999. -99999.0
0.51   0.45   0.18    0.00    0.   10.0  280.9    2.0
 09 01 01   1 14   61.1 -9.000 -9.000 -9.000  379. -999. -99999.0
0.51   0.45   0.19    0.00    0.   10.0  282.0    2.0
 09 01 01   1 15   43.2  0.307  0.805  0.017  439.  408.    -60.8
0.32   0.45   0.22    2.36   22.   10.0  282.5    2.0
 09 01 01   1 16   17.1  0.345  0.594  0.015  445.  487.   -219.0
0.32   0.45   0.30    2.86   14.   10.0  282.5    2.0
 09 01 01   1 17   -7.0  0.102 -9.000 -9.000 -999.  169.     13.7
0.32   0.45   0.54    1.76   31.   10.0  282.5    2.0
 09 01 01   1 18   -9.9  0.112 -9.000 -9.000 -999.   91.     13.0
0.44   0.45   1.00    1.76  357.   10.0  282.0    2.0
 09 01 01   1 19  -18.1  0.159 -9.000 -9.000 -999.  152.     20.2
0.32   0.45   1.00    2.36    4.   10.0  282.0    2.0
 09 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.51   0.45   1.00    0.00    0.   10.0  281.4    2.0
 09 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.51   0.45   1.00    0.00    0.   10.0  282.0    2.0
 09 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.51   0.45   1.00    0.00    0.   10.0  282.0    2.0
 09 01 01   1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.51   0.45   1.00    0.00    0.   10.0  281.4    2.0
 09 01 01   1 24   -9.9  0.173 -9.000 -9.000 -999.  173.     47.9
0.49   0.45   1.00    1.76  100.   10.0  281.4    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 09 01 01 01   10.0 1   71.    3.86   282.6   99.0  -99.00  -99.00

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

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE  98
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: AREA     ***
                                     INCLUDING SOURCE(S):
PAREA1      ,

                                                *** 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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557237.31    4159639.73        0.21944
557240.38    4159649.39        0.20372
         557228.08    4159655.54        0.13189
557218.42    4159660.81        0.09839
         557215.35    4159649.39        0.10625
557208.76    4159636.66        0.10323
         557223.25    4159632.27        0.15557
557213.15    4159625.24        0.12474
         557202.62    4159616.02        0.10082
557192.08    4159607.68        0.08176
         557177.59    4159617.34        0.06041
557186.81    4159625.24        0.06968
         557177.15    4159637.10        0.05523
557187.69    4159641.05        0.06498
         557198.22    4159646.32        0.07630
557205.25    4159662.13        0.07477
         557190.76    4159663.89        0.05704
557168.36    4159641.05        0.04688
         557162.66    4159631.83        0.04477
557155.19    4159640.17        0.03868
         557259.70    4159617.34        0.68173
557267.17    4159612.07        0.85452
         557275.51    4159606.36        0.97169
557285.17    4159601.53        1.00929
         557277.70    4159590.99        0.66885
557268.92    4159582.21        0.43757
         557257.51    4159590.11        0.42566
557268.04    4159596.26        0.64768
         557255.31    4159606.36        0.53878
557245.21    4159600.65        0.34849
         557304.05    4159587.04        0.57257
557313.27    4159582.21        0.41546
         557324.69    4159576.06        0.28428
557335.23    4159568.16        0.19649
         557324.25    4159555.86        0.14957
557308.88    4159565.96        0.23946
         557297.46    4159576.06        0.39992
557287.37    4159568.16        0.31770
         557308.88    4159554.55        0.16829
557322.93    4159544.45        0.11182
         557380.02    4159577.38        0.14321
557388.80    4159572.55        0.11863
         557372.55    4159563.33        0.12373
557377.38    4159554.11        0.09955
         557387.48    4159547.08        0.08145
557397.14    4159542.69        0.07096
```

557363.33 4159548.40 0.09727
557370.36 4159541.81 0.08159
557380.02 4159536.54 0.07043
557387.04 4159530.39 0.06117
557231.16 4159591.87 0.20949
557240.38 4159585.28 0.25082
557248.28 4159575.62 0.25770
557255.31 4159567.28 0.24609
557262.77 4159557.62 0.21520
557278.58 4159554.98 0.21483
557288.24 4159548.84 0.17555
557296.15 4159541.81 0.13768
557306.25 4159536.10 0.10859
557315.03 4159528.20 0.08345
557303.59 4159768.64 0.02659
557313.32 4159775.93 0.02307
557324.26 4159785.66 0.01937
557335.20 4159777.76 0.01977
557301.16 4159794.78 0.01962
557280.50 4159805.11 0.01865
557260.44 4159790.52 0.02232
557268.34 4159811.19 0.01781
557222.76 4159585.09 0.16011
557233.70 4159575.97 0.18958
557238.56 4159566.86 0.18434
557246.46 4159557.13 0.17734
557215.46 4159571.72 0.12303
557230.05 4159553.49 0.13135
557240.38 4159541.94 0.12676
557270.16 4159539.51 0.14621
557280.50 4159531.00 0.11921
557291.44 4159520.06 0.08893
557300.55 4159512.76 0.07165
557268.34 4159526.74 0.11192

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: AREA ***
INCLUDING SOURCE(S):
PAREA1 ,

*** 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
557288.40	4159508.51	0.07322	557200.88	4159563.82	0.08784
557211.21	4159552.27	0.09568	557220.33	4159540.72	0.09712
557244.03	4159521.27	0.09390	557261.65	4159513.98	0.08819
557271.38	4159502.43	0.07156	557244.64	4159509.12	0.07810
557258.01	4159501.22	0.07127	557283.53	4159491.49	0.05677
557271.38	4159479.94	0.05036	557355.86	4159534.04	0.07294
557366.19	4159531.00	0.06625	557377.13	4159525.53	0.05781
557385.03	4159514.59	0.04661	557353.43	4159518.84	0.05337
557377.74	4159501.22	0.03722	557343.71	4159507.90	0.04533
557356.47	4159501.82	0.03886	557369.23	4159492.10	0.03225
557336.41	4159496.96	0.03961	557353.43	4159479.94	0.02786
557327.30	4159481.16	0.03366	557338.84	4159472.65	0.02726
557319.39	4159470.22	0.03096	557333.98	4159459.28	0.02376
557414.82	4159540.72	0.06079	557409.35	4159527.35	0.05263
557434.27	4159539.51	0.05163	557444.60	4159533.43	0.04508
557423.32	4159525.53	0.04760	557436.09	4159520.06	0.04153
557411.17	4159514.59	0.04351	557421.50	4159504.86	0.03667
557396.58	4159503.65	0.03806	557389.90	4159491.49	0.03140
557416.64	4159490.88	0.03050	557407.52	4159478.73	0.02572
557168.06	4159588.74	0.05295	557148.00	4159602.72	0.03860
557152.25	4159573.54	0.04093	557141.31	4159563.82	0.03453
557129.16	4159560.17	0.02928	557187.50	4159554.70	0.06641

```
         557197.23    4159543.76        0.07176
557209.99    4159532.82        0.07777
         557217.29    4159523.70        0.07688
557208.78    4159513.98        0.06326
         557199.66    4159508.51        0.05466
557171.70    4159541.33        0.04895
         557182.03    4159531.61        0.05327
557189.94    4159523.70        0.05571
         557227.62    4159505.47        0.06746
557234.91    4159497.57        0.06348
         557242.81    4159489.06        0.05823
557248.89    4159481.77        0.05326
         557254.36    4159473.87        0.04787
557248.89    4159465.36        0.04293
         557235.52    4159458.67        0.03922
557232.48    4159471.43        0.04527
         557224.58    4159479.34        0.04828
557216.68    4159487.84        0.05095
         557217.29    4159497.57        0.05704
557410.56    4159576.58        0.09209
         557406.91    4159566.86        0.08852
557402.66    4159559.56        0.08555
         557484.22    4159816.64        0.00659
557496.09    4159831.48        0.00567
         557572.30    4159760.22        0.00760
557586.15    4159749.34        0.00781
         557601.99    4159736.47        0.00801
557576.26    4159804.76        0.00536
         557595.06    4159790.91        0.00559
557608.92    4159776.06        0.00592
         557584.17    4159776.06        0.00644
557598.03    4159762.20        0.00678
         557646.53    4159741.42        0.00645
557635.64    4159723.61        0.00751
         557623.76    4159706.78        0.00875
557615.84    4159692.93        0.00985
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: AREA     ***
                                     INCLUDING SOURCE(S):
PAREA1      ,

                                                 *** 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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557645.54    4159689.96        0.00861
557670.28    4159681.05        0.00797
         557698.98    4159665.22        0.00743
557737.58    4159684.02        0.00587
         557727.68    4159666.20        0.00652
557720.75    4159646.41        0.00716
         557682.15    4159704.80        0.00678
557662.36    4159772.10        0.00506
         557717.78    4159753.30        0.00468
557759.35    4159751.32        0.00411
         557754.40    4159713.71        0.00491
557691.06    4159793.87        0.00411
         557718.77    4159784.97        0.00396
557736.59    4159778.04        0.00389

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE 101
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: LINE     ***
                                  INCLUDING SOURCE(S):
L0000001    , L0000002    , L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    ,
L0000009    , L0000010    , L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    ,
L0000017    , L0000018    , L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    ,
L0000025    , L0000026    , L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN
RECEPTOR POINTS ***

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

       X-COORD (M)   Y-COORD (M)        CONC                       X-
COORD (M)   Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

557237.31 4159639.73 0.00004
557240.38 4159649.39 0.00005
557228.08 4159655.54 0.00005
557218.42 4159660.81 0.00005
557215.35 4159649.39 0.00004
557208.76 4159636.66 0.00003
557223.25 4159632.27 0.00003
557213.15 4159625.24 0.00003
557202.62 4159616.02 0.00002
557192.08 4159607.68 0.00002
557177.59 4159617.34 0.00002
557186.81 4159625.24 0.00002
557177.15 4159637.10 0.00002
557187.69 4159641.05 0.00003
557198.22 4159646.32 0.00003
557205.25 4159662.13 0.00005
557190.76 4159663.89 0.00004
557168.36 4159641.05 0.00002
557162.66 4159631.83 0.00002
557155.19 4159640.17 0.00002
557259.70 4159617.34 0.00003
557267.17 4159612.07 0.00002
557275.51 4159606.36 0.00002
557285.17 4159601.53 0.00002
557277.70 4159590.99 0.00002
557268.92 4159582.21 0.00001
557257.51 4159590.11 0.00002
557268.04 4159596.26 0.00002
557255.31 4159606.36 0.00002
557245.21 4159600.65 0.00002
557304.05 4159587.04 0.00001
557313.27 4159582.21 0.00001
557324.69 4159576.06 0.00001
557335.23 4159568.16 0.00001
557324.25 4159555.86 0.00001
557308.88 4159565.96 0.00001
557297.46 4159576.06 0.00001
557287.37 4159568.16 0.00001
557308.88 4159554.55 0.00001
557322.93 4159544.45 0.00001
557380.02 4159577.38 0.00001
557388.80 4159572.55 0.00001
557372.55 4159563.33 0.00001
557377.38 4159554.11 0.00001
557387.48 4159547.08 0.00001
557397.14 4159542.69 0.00001
557363.33 4159548.40 0.00001
557370.36 4159541.81 0.00001
557380.02 4159536.54 0.00001
557387.04 4159530.39 0.00000
557231.16 4159591.87 0.00002
557240.38 4159585.28 0.00001

557248.28 4159575.62 0.00001
557255.31 4159567.28 0.00001
557262.77 4159557.62 0.00001
557278.58 4159554.98 0.00001
557288.24 4159548.84 0.00001
557296.15 4159541.81 0.00001
557306.25 4159536.10 0.00001
557315.03 4159528.20 0.00001
557303.59 4159768.64 0.00001
557313.32 4159775.93 0.00001
557324.26 4159785.66 0.00001
557335.20 4159777.76 0.00001
557301.16 4159794.78 0.00001
557280.50 4159805.11 0.00001
557260.44 4159790.52 0.00001
557268.34 4159811.19 0.00001
557222.76 4159585.09 0.00001
557233.70 4159575.97 0.00001
557238.56 4159566.86 0.00001
557246.46 4159557.13 0.00001
557215.46 4159571.72 0.00001
557230.05 4159553.49 0.00001
557240.38 4159541.94 0.00001
557270.16 4159539.51 0.00001
557280.50 4159531.00 0.00001
557291.44 4159520.06 0.00001
557300.55 4159512.76 0.00001
557268.34 4159526.74 0.00001

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE ANNUAL AVERAGE CONCENTRATION VALUES
AVERAGED OVER 5 YEARS FOR SOURCE GROUP: LINE ***
INCLUDING SOURCE(S):
L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 ,
L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 ,
L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 ,
L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557288.40	4159508.51	0.00001	557200.88	4159563.82	0.00001
557211.21	4159552.27	0.00001	557220.33	4159540.72	0.00001
557244.03	4159521.27	0.00001	557261.65	4159513.98	0.00001
557271.38	4159502.43	0.00001	557244.64	4159509.12	0.00001
557258.01	4159501.22	0.00001	557283.53	4159491.49	0.00000
557271.38	4159479.94	0.00000	557355.86	4159534.04	0.00001
557366.19	4159531.00	0.00001	557377.13	4159525.53	0.00000
557385.03	4159514.59	0.00000	557353.43	4159518.84	0.00000
557377.74	4159501.22	0.00000	557343.71	4159507.90	0.00000
557356.47	4159501.82	0.00000	557369.23	4159492.10	0.00000
557336.41	4159496.96	0.00000	557353.43	4159479.94	0.00000
557327.30	4159481.16	0.00000	557338.84	4159472.65	0.00000
557319.39	4159470.22	0.00000	557333.98	4159459.28	0.00000
557414.82	4159540.72	0.00000	557409.35	4159527.35	0.00000
557434.27	4159539.51	0.00000	557444.60	4159533.43	0.00000
557423.32	4159525.53	0.00000	557436.09	4159520.06	0.00000
557411.17	4159514.59	0.00000	557421.50	4159504.86	0.00000
557396.58	4159503.65	0.00000	557389.90	4159491.49	0.00000
557416.64	4159490.88	0.00000	557407.52	4159478.73	0.00000
557168.06	4159588.74	0.00001	557148.00	4159602.72	0.00001
557152.25	4159573.54	0.00001	557141.31	4159563.82	0.00001
557129.16	4159560.17	0.00001	557187.50	4159554.70	0.00001

557197.23 4159543.76 0.00001
557209.99 4159532.82 0.00001
557217.29 4159523.70 0.00001
557208.78 4159513.98 0.00001
557199.66 4159508.51 0.00001
557171.70 4159541.33 0.00001
557182.03 4159531.61 0.00001
557189.94 4159523.70 0.00001
557227.62 4159505.47 0.00001
557234.91 4159497.57 0.00001
557242.81 4159489.06 0.00000
557248.89 4159481.77 0.00000
557254.36 4159473.87 0.00000
557248.89 4159465.36 0.00000
557235.52 4159458.67 0.00000
557232.48 4159471.43 0.00000
557224.58 4159479.34 0.00000
557216.68 4159487.84 0.00000
557217.29 4159497.57 0.00001
557410.56 4159576.58 0.00001
557406.91 4159566.86 0.00001
557402.66 4159559.56 0.00001
557484.22 4159816.64 0.00000
557496.09 4159831.48 0.00000
557572.30 4159760.22 0.00000
557586.15 4159749.34 0.00000
557601.99 4159736.47 0.00000
557576.26 4159804.76 0.00000
557595.06 4159790.91 0.00000
557608.92 4159776.06 0.00000
557584.17 4159776.06 0.00000
557598.03 4159762.20 0.00000
557646.53 4159741.42 0.00000
557635.64 4159723.61 0.00000
557623.76 4159706.78 0.00000
557615.84 4159692.93 0.00000

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE ANNUAL AVERAGE CONCENTRATION VALUES
AVERAGED OVER 5 YEARS FOR SOURCE GROUP: LINE ***
INCLUDING SOURCE(S):
L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 ,
L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,

```
                 L0000014    , L0000015    , L0000016    ,
L0000017    , L0000018    , L0000019    , L0000020    , L0000021    ,
                 L0000022    , L0000023    , L0000024    ,
L0000025    , L0000026    , L0000027    , L0000028    ,  . . .      ,

                                                 *** DISCRETE CARTESIAN
RECEPTOR POINTS ***

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

       X-COORD (M)   Y-COORD (M)        CONC                       X-
COORD (M)   Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557645.54    4159689.96        0.00000
557670.28    4159681.05        0.00000
         557698.98    4159665.22        0.00000
557737.58    4159684.02        0.00000
         557727.68    4159666.20        0.00000
557720.75    4159646.41        0.00000
         557682.15    4159704.80        0.00000
557662.36    4159772.10        0.00000
         557717.78    4159753.30        0.00000
557759.35    4159751.32        0.00000
         557754.40    4159713.71        0.00000
557691.06    4159793.87        0.00000
         557718.77    4159784.97        0.00000
557736.59    4159778.04        0.00000

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE 104
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):
PAREA1      , L0000001    , L0000002    , L0000003    , L0000004    ,
                 L0000005    , L0000006    , L0000007    ,
L0000008    , L0000009    , L0000010    , L0000011    , L0000012    ,
                 L0000013    , L0000014    , L0000015    ,
L0000016    , L0000017    , L0000018    , L0000019    , L0000020    ,
                 L0000021    , L0000022    , L0000023    ,
L0000024    , L0000025    , L0000026    , L0000027    ,  . . .      ,

                                                 *** DISCRETE CARTESIAN
RECEPTOR POINTS ***
```

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557237.31	4159639.73	0.21948	557240.38	4159649.39	0.20377
557228.08	4159655.54	0.13194	557218.42	4159660.81	0.09844
557215.35	4159649.39	0.10629	557208.76	4159636.66	0.10326
557223.25	4159632.27	0.15561	557213.15	4159625.24	0.12477
557202.62	4159616.02	0.10084	557192.08	4159607.68	0.08178
557177.59	4159617.34	0.06043	557186.81	4159625.24	0.06970
557177.15	4159637.10	0.05526	557187.69	4159641.05	0.06501
557198.22	4159646.32	0.07633	557205.25	4159662.13	0.07481
557190.76	4159663.89	0.05708	557168.36	4159641.05	0.04690
557162.66	4159631.83	0.04479	557155.19	4159640.17	0.03870
557259.70	4159617.34	0.68176	557267.17	4159612.07	0.85455
557275.51	4159606.36	0.97171	557285.17	4159601.53	1.00930
557277.70	4159590.99	0.66886	557268.92	4159582.21	0.43758
557257.51	4159590.11	0.42568	557268.04	4159596.26	0.64770
557255.31	4159606.36	0.53880	557245.21	4159600.65	0.34851
557304.05	4159587.04	0.57258	557313.27	4159582.21	0.41547
557324.69	4159576.06	0.28429	557335.23	4159568.16	0.19649
557324.25	4159555.86	0.14958	557308.88	4159565.96	0.23947
557297.46	4159576.06	0.39993	557287.37	4159568.16	0.31771
557308.88	4159554.55	0.16830	557322.93	4159544.45	0.11183
557380.02	4159577.38	0.14322	557388.80	4159572.55	0.11863
557372.55	4159563.33	0.12373	557377.38	4159554.11	0.09956

```
         557387.48    4159547.08        0.08146
557397.14    4159542.69        0.07096
         557363.33    4159548.40        0.09727
557370.36    4159541.81        0.08160
         557380.02    4159536.54        0.07043
557387.04    4159530.39        0.06118
         557231.16    4159591.87        0.20951
557240.38    4159585.28        0.25083
         557248.28    4159575.62        0.25771
557255.31    4159567.28        0.24610
         557262.77    4159557.62        0.21521
557278.58    4159554.98        0.21484
         557288.24    4159548.84        0.17556
557296.15    4159541.81        0.13769
         557306.25    4159536.10        0.10860
557315.03    4159528.20        0.08346
         557303.59    4159768.64        0.02660
557313.32    4159775.93        0.02308
         557324.26    4159785.66        0.01938
557335.20    4159777.76        0.01978
         557301.16    4159794.78        0.01963
557280.50    4159805.11        0.01867
         557260.44    4159790.52        0.02233
557268.34    4159811.19        0.01783
         557222.76    4159585.09        0.16013
557233.70    4159575.97        0.18960
         557238.56    4159566.86        0.18435
557246.46    4159557.13        0.17735
         557215.46    4159571.72        0.12304
557230.05    4159553.49        0.13136
         557240.38    4159541.94        0.12677
557270.16    4159539.51        0.14622
         557280.50    4159531.00        0.11921
557291.44    4159520.06        0.08894
         557300.55    4159512.76        0.07166
557268.34    4159526.74        0.11192

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE 105
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):
PAREA1      , L0000001    , L0000002    , L0000003    , L0000004    ,
                L0000005    , L0000006    , L0000007    ,
L0000008    , L0000009    , L0000010    , L0000011    , L0000012    ,
```

L0000013 , L0000014 , L0000015 ,
L0000016 , L0000017 , L0000018 , L0000019 , L0000020 ,
L0000021 , L0000022 , L0000023 ,
L0000024 , L0000025 , L0000026 , L0000027 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557288.40	4159508.51	0.07322	557200.88	4159563.82	0.08785
557211.21	4159552.27	0.09569	557220.33	4159540.72	0.09713
557244.03	4159521.27	0.09390	557261.65	4159513.98	0.08820
557271.38	4159502.43	0.07157	557244.64	4159509.12	0.07810
557258.01	4159501.22	0.07127	557283.53	4159491.49	0.05678
557271.38	4159479.94	0.05036	557355.86	4159534.04	0.07295
557366.19	4159531.00	0.06626	557377.13	4159525.53	0.05782
557385.03	4159514.59	0.04662	557353.43	4159518.84	0.05338
557377.74	4159501.22	0.03722	557343.71	4159507.90	0.04534
557356.47	4159501.82	0.03886	557369.23	4159492.10	0.03225
557336.41	4159496.96	0.03962	557353.43	4159479.94	0.02786
557327.30	4159481.16	0.03366	557338.84	4159472.65	0.02727
557319.39	4159470.22	0.03097	557333.98	4159459.28	0.02377
557414.82	4159540.72	0.06079	557409.35	4159527.35	0.05264
557434.27	4159539.51	0.05164	557444.60	4159533.43	0.04509
557423.32	4159525.53	0.04761	557436.09	4159520.06	0.04153
557411.17	4159514.59	0.04351	557421.50	4159504.86	0.03667
557396.58	4159503.65	0.03806	557389.90	4159491.49	0.03141

557416.64 4159490.88 0.03051
557407.52 4159478.73 0.02572
557168.06 4159588.74 0.05297
557148.00 4159602.72 0.03861
557152.25 4159573.54 0.04094
557141.31 4159563.82 0.03454
557129.16 4159560.17 0.02929
557187.50 4159554.70 0.06641
557197.23 4159543.76 0.07177
557209.99 4159532.82 0.07778
557217.29 4159523.70 0.07688
557208.78 4159513.98 0.06327
557199.66 4159508.51 0.05467
557171.70 4159541.33 0.04896
557182.03 4159531.61 0.05328
557189.94 4159523.70 0.05572
557227.62 4159505.47 0.06747
557234.91 4159497.57 0.06349
557242.81 4159489.06 0.05823
557248.89 4159481.77 0.05326
557254.36 4159473.87 0.04787
557248.89 4159465.36 0.04293
557235.52 4159458.67 0.03922
557232.48 4159471.43 0.04527
557224.58 4159479.34 0.04829
557216.68 4159487.84 0.05096
557217.29 4159497.57 0.05705
557410.56 4159576.58 0.09209
557406.91 4159566.86 0.08853
557402.66 4159559.56 0.08555
557484.22 4159816.64 0.00660
557496.09 4159831.48 0.00567
557572.30 4159760.22 0.00761
557586.15 4159749.34 0.00782
557601.99 4159736.47 0.00802
557576.26 4159804.76 0.00536
557595.06 4159790.91 0.00559
557608.92 4159776.06 0.00592
557584.17 4159776.06 0.00645
557598.03 4159762.20 0.00679
557646.53 4159741.42 0.00645
557635.64 4159723.61 0.00751
557623.76 4159706.78 0.00875
557615.84 4159692.93 0.00985

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):
PAREA1 , L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557645.54	4159689.96	0.00861	557670.28	4159681.05	0.00798
557698.98	4159665.22	0.00743	557737.58	4159684.02	0.00587
557727.68	4159666.20	0.00652	557720.75	4159646.41	0.00716
557682.15	4159704.80	0.00678	557662.36	4159772.10	0.00506
557717.78	4159753.30	0.00468	557759.35	4159751.32	0.00411
557754.40	4159713.71	0.00491	557691.06	4159793.87	0.00411
557718.77	4159784.97	0.00396	557736.59	4159778.04	0.00389

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS ***

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

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

AREA      1ST HIGHEST VALUE IS       1.00929 AT (  557285.17,
4159601.53,     5.30,     5.30,    0.00)  DC
          2ND HIGHEST VALUE IS       0.97169 AT (  557275.51,
4159606.36,     4.96,     4.96,    0.00)  DC
          3RD HIGHEST VALUE IS       0.85452 AT (  557267.17,
4159612.07,     4.88,     4.88,    0.00)  DC
          4TH HIGHEST VALUE IS       0.68173 AT (  557259.70,
4159617.34,     4.90,     4.90,    0.00)  DC
          5TH HIGHEST VALUE IS       0.66885 AT (  557277.70,
4159590.99,     4.79,     4.79,    0.00)  DC
          6TH HIGHEST VALUE IS       0.64768 AT (  557268.04,
4159596.26,     4.69,     4.69,    0.00)  DC
          7TH HIGHEST VALUE IS       0.57257 AT (  557304.05,
4159587.04,     6.10,     6.10,    0.00)  DC
          8TH HIGHEST VALUE IS       0.53878 AT (  557255.31,
4159606.36,     4.70,     4.70,    0.00)  DC
          9TH HIGHEST VALUE IS       0.43757 AT (  557268.92,
4159582.21,     4.48,     4.48,    0.00)  DC
         10TH HIGHEST VALUE IS       0.42566 AT (  557257.51,
4159590.11,     4.73,     4.73,    0.00)  DC

LINE      1ST HIGHEST VALUE IS       0.00005 AT (  557218.42,
4159660.81,     5.08,     5.08,    0.00)  DC
          2ND HIGHEST VALUE IS       0.00005 AT (  557228.08,
4159655.54,     5.07,     5.07,    0.00)  DC
          3RD HIGHEST VALUE IS       0.00005 AT (  557240.38,
4159649.39,     5.15,     5.15,    0.00)  DC
          4TH HIGHEST VALUE IS       0.00005 AT (  557205.25,
4159662.13,     4.96,     4.96,    0.00)  DC
          5TH HIGHEST VALUE IS       0.00004 AT (  557190.76,
4159663.89,     4.73,     4.73,    0.00)  DC
          6TH HIGHEST VALUE IS       0.00004 AT (  557215.35,
4159649.39,     4.86,     4.86,    0.00)  DC
          7TH HIGHEST VALUE IS       0.00004 AT (  557237.31,
4159639.73,     5.07,     5.07,    0.00)  DC
          8TH HIGHEST VALUE IS       0.00003 AT (  557198.22,
4159646.32,     4.77,     4.77,    0.00)  DC
          9TH HIGHEST VALUE IS       0.00003 AT (  557223.25,
4159632.27,     4.81,     4.81,    0.00)  DC
         10TH HIGHEST VALUE IS       0.00003 AT (  557208.76,
4159636.66,     4.62,     4.62,    0.00)  DC

ALL       1ST HIGHEST VALUE IS       1.00930 AT (  557285.17,
4159601.53,     5.30,     5.30,    0.00)  DC
```

```
          2ND HIGHEST VALUE IS       0.97171 AT (  557275.51,
4159606.36,     4.96,     4.96,    0.00)  DC
          3RD HIGHEST VALUE IS       0.85455 AT (  557267.17,
4159612.07,     4.88,     4.88,    0.00)  DC
          4TH HIGHEST VALUE IS       0.68176 AT (  557259.70,
4159617.34,     4.90,     4.90,    0.00)  DC
          5TH HIGHEST VALUE IS       0.66886 AT (  557277.70,
4159590.99,     4.79,     4.79,    0.00)  DC
          6TH HIGHEST VALUE IS       0.64770 AT (  557268.04,
4159596.26,     4.69,     4.69,    0.00)  DC
          7TH HIGHEST VALUE IS       0.57258 AT (  557304.05,
4159587.04,     6.10,     6.10,    0.00)  DC
          8TH HIGHEST VALUE IS       0.53880 AT (  557255.31,
4159606.36,     4.70,     4.70,    0.00)  DC
          9TH HIGHEST VALUE IS       0.43758 AT (  557268.92,
4159582.21,     4.48,     4.48,    0.00)  DC
         10TH HIGHEST VALUE IS       0.42568 AT (  557257.51,
4159590.11,     4.73,     4.73,    0.00)  DC


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

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\construction HRA\cons ***        03/15/18
 *** AERMET - VERSION  14134 ***   ***
***        10:30:40

PAGE 108
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

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

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of         6306 Informational Message(s)

 A Total of        43872 Hours Were Processed

 A Total of         5804 Calm Hours Identified

 A Total of          502 Missing Hours Identified (  1.14 Percent)


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

```
    ********   WARNING MESSAGES   ********
 MX W481   43873         MAIN: Data Remaining After End of Year.
Number of Hours=           48

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

Ruben Hurin
March 22, 2018

Attachment D:
AERMOD Output File for Rail Line Operation

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.5.0
** Lakes Environmental Software Inc.
** Date: 3/19/2018
** File: C:\Users\xli\Desktop\2803.0009 Burlinegame HRA\Railine
HRA\Railine HRA.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\xli\Desktop\2803.0009 Burlinegame HRA\Railine
HRA\Railine H
   MODELOPT DFAULT CONC
   AVERTIME ANNUAL
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "Railine HRA.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ---------------------------------------------------------------------
--
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Rail road
** PREFIX
** Length of Side = 9.20
** Configuration = Adjacent
** Emission Rate = 0.000837
** Elevated
** Vertical Dimension = 6.63
** SZINIT = 1.54
** Nodes = 2
** 557182.695, 4159777.330, 4.56, 3.31, 4.28
** 557521.572, 4159590.733, 7.16, 3.31, 4.28
```

```
** ----------------------------------------------------------------
--
   LOCATION L0000001     VOLUME   557186.725 4159775.111 4.56
   LOCATION L0000002     VOLUME   557194.784 4159770.674 4.58
   LOCATION L0000003     VOLUME   557202.843 4159766.236 4.64
   LOCATION L0000004     VOLUME   557210.902 4159761.798 4.76
   LOCATION L0000005     VOLUME   557218.961 4159757.361 4.81
   LOCATION L0000006     VOLUME   557227.020 4159752.923 4.74
   LOCATION L0000007     VOLUME   557235.079 4159748.486 4.65
   LOCATION L0000008     VOLUME   557243.138 4159744.048 4.57
   LOCATION L0000009     VOLUME   557251.197 4159739.611 4.66
   LOCATION L0000010     VOLUME   557259.256 4159735.173 4.81
   LOCATION L0000011     VOLUME   557267.315 4159730.735 5.00
   LOCATION L0000012     VOLUME   557275.374 4159726.298 5.20
   LOCATION L0000013     VOLUME   557283.433 4159721.860 5.30
   LOCATION L0000014     VOLUME   557291.492 4159717.423 5.42
   LOCATION L0000015     VOLUME   557299.551 4159712.985 5.57
   LOCATION L0000016     VOLUME   557307.610 4159708.548 5.72
   LOCATION L0000017     VOLUME   557315.669 4159704.110 5.84
   LOCATION L0000018     VOLUME   557323.728 4159699.673 5.97
   LOCATION L0000019     VOLUME   557331.787 4159695.235 6.08
   LOCATION L0000020     VOLUME   557339.846 4159690.797 6.10
   LOCATION L0000021     VOLUME   557347.906 4159686.360 6.10
   LOCATION L0000022     VOLUME   557355.965 4159681.922 6.10
   LOCATION L0000023     VOLUME   557364.024 4159677.485 6.10
   LOCATION L0000024     VOLUME   557372.083 4159673.047 6.15
   LOCATION L0000025     VOLUME   557380.142 4159668.610 6.25
   LOCATION L0000026     VOLUME   557388.201 4159664.172 6.33
   LOCATION L0000027     VOLUME   557396.260 4159659.734 6.31
   LOCATION L0000028     VOLUME   557404.319 4159655.297 6.22
   LOCATION L0000029     VOLUME   557412.378 4159650.859 6.15
   LOCATION L0000030     VOLUME   557420.437 4159646.422 6.11
   LOCATION L0000031     VOLUME   557428.496 4159641.984 6.14
   LOCATION L0000032     VOLUME   557436.555 4159637.547 6.23
   LOCATION L0000033     VOLUME   557444.614 4159633.109 6.32
   LOCATION L0000034     VOLUME   557452.673 4159628.671 6.40
   LOCATION L0000035     VOLUME   557460.732 4159624.234 6.51
   LOCATION L0000036     VOLUME   557468.791 4159619.796 6.65
   LOCATION L0000037     VOLUME   557476.850 4159615.359 6.81
   LOCATION L0000038     VOLUME   557484.909 4159610.921 6.97
   LOCATION L0000039     VOLUME   557492.968 4159606.484 7.01
   LOCATION L0000040     VOLUME   557501.027 4159602.046 7.04
   LOCATION L0000041     VOLUME   557509.086 4159597.608 7.09
   LOCATION L0000042     VOLUME   557517.145 4159593.171 7.19
** End of LINE VOLUME Source ID = SLINE1
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000001     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000002     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000003     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000004     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000005     0.0000199286      3.31      4.28      1.54
```

```
   SRCPARAM L0000006     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000007     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000008     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000009     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000010     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000011     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000012     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000013     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000014     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000015     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000016     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000017     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000018     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000019     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000020     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000021     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000022     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000023     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000024     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000025     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000026     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000027     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000028     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000029     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000030     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000031     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000032     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000033     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000034     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000035     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000036     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000037     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000038     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000039     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000040     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000041     0.0000199286      3.31      4.28      1.54
   SRCPARAM L0000042     0.0000199286      3.31      4.28      1.54
** ---------------------------------------------------------------------
--
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "Railine HRA.rou"
RE FINISHED
**
****************************************
```

```
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\724940\724940.SFC
   PROFFILE ..\724940\724940.PFL
   SURFDATA 23234 2009 SAN_FRANCISCO/INT'L_ARPT
   UAIRDATA 23230 2009 OAKLAND/WSO_AP
   PROFBASE 2.4 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL "Railine HRA.AD\AN00GALL.PLT" 31
   SUMMFILE "Railine HRA.sum"
OU FINISHED

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


 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\Railine HRA\Railine H ***        03/19/18
 *** AERMET - VERSION  14134 ***   ***
***        13:48:17

PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL

                                                  ***     MODEL SETUP
OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

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

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

 **Model Uses RURAL Dispersion Only.

 **Model Uses Regulatory DEFAULT Options:
```

```
         1. Stack-tip Downwash.
         2. Model Accounts for ELEVated Terrain Effects.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.

 **Other Options Specified:
         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 ANNUAL Averages Only

 **This Run Includes:     42 Source(s);       1 Source Group(s); and
186 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     42 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with      0 line(s)


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

 **The AERMET Input Meteorological Data Version Date:  14134

 **Output Options Selected:
          Model Outputs Tables of ANNUAL Averages by Receptor
          Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

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

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

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

 **Detailed Error/Message File:   Railine HRA.err
 **File for Summary of Results:   Railine HRA.sum

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\Railine HRA\Railine H ***        03/19/18
 *** AERMET - VERSION  14134 ***   ***
***        13:48:17

PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL


                                                        *** VOLUME SOURCE
DATA ***

               NUMBER EMISSION RATE                     BASE    RELEASE
INIT.    INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT
SY       SZ     SOURCE  SCALAR VARY
     ID          CATS.                (METERS) (METERS) (METERS) (METERS)
(METERS) (METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 L0000001         0   0.19929E-04  557186.7 4159775.1     4.6     3.31
4.28     1.54     NO
 L0000002         0   0.19929E-04  557194.8 4159770.7     4.6     3.31
4.28     1.54     NO
 L0000003         0   0.19929E-04  557202.8 4159766.2     4.6     3.31
4.28     1.54     NO
 L0000004         0   0.19929E-04  557210.9 4159761.8     4.8     3.31
4.28     1.54     NO
 L0000005         0   0.19929E-04  557219.0 4159757.4     4.8     3.31
4.28     1.54     NO
 L0000006         0   0.19929E-04  557227.0 4159752.9     4.7     3.31
4.28     1.54     NO
 L0000007         0   0.19929E-04  557235.1 4159748.5     4.6     3.31
4.28     1.54     NO
 L0000008         0   0.19929E-04  557243.1 4159744.0     4.6     3.31
4.28     1.54     NO
 L0000009         0   0.19929E-04  557251.2 4159739.6     4.7     3.31
4.28     1.54     NO
 L0000010         0   0.19929E-04  557259.3 4159735.2     4.8     3.31
4.28     1.54     NO
 L0000011         0   0.19929E-04  557267.3 4159730.7     5.0     3.31
4.28     1.54     NO
 L0000012         0   0.19929E-04  557275.4 4159726.3     5.2     3.31
4.28     1.54     NO
```

L0000013	0	0.19929E-04	557283.4	4159721.9	5.3	3.31	4.28	1.54	NO
L0000014	0	0.19929E-04	557291.5	4159717.4	5.4	3.31	4.28	1.54	NO
L0000015	0	0.19929E-04	557299.6	4159713.0	5.6	3.31	4.28	1.54	NO
L0000016	0	0.19929E-04	557307.6	4159708.5	5.7	3.31	4.28	1.54	NO
L0000017	0	0.19929E-04	557315.7	4159704.1	5.8	3.31	4.28	1.54	NO
L0000018	0	0.19929E-04	557323.7	4159699.7	6.0	3.31	4.28	1.54	NO
L0000019	0	0.19929E-04	557331.8	4159695.2	6.1	3.31	4.28	1.54	NO
L0000020	0	0.19929E-04	557339.8	4159690.8	6.1	3.31	4.28	1.54	NO
L0000021	0	0.19929E-04	557347.9	4159686.4	6.1	3.31	4.28	1.54	NO
L0000022	0	0.19929E-04	557356.0	4159681.9	6.1	3.31	4.28	1.54	NO
L0000023	0	0.19929E-04	557364.0	4159677.5	6.1	3.31	4.28	1.54	NO
L0000024	0	0.19929E-04	557372.1	4159673.0	6.1	3.31	4.28	1.54	NO
L0000025	0	0.19929E-04	557380.1	4159668.6	6.2	3.31	4.28	1.54	NO
L0000026	0	0.19929E-04	557388.2	4159664.2	6.3	3.31	4.28	1.54	NO
L0000027	0	0.19929E-04	557396.3	4159659.7	6.3	3.31	4.28	1.54	NO
L0000028	0	0.19929E-04	557404.3	4159655.3	6.2	3.31	4.28	1.54	NO
L0000029	0	0.19929E-04	557412.4	4159650.9	6.1	3.31	4.28	1.54	NO
L0000030	0	0.19929E-04	557420.4	4159646.4	6.1	3.31	4.28	1.54	NO
L0000031	0	0.19929E-04	557428.5	4159642.0	6.1	3.31	4.28	1.54	NO
L0000032	0	0.19929E-04	557436.6	4159637.5	6.2	3.31	4.28	1.54	NO
L0000033	0	0.19929E-04	557444.6	4159633.1	6.3	3.31	4.28	1.54	NO
L0000034	0	0.19929E-04	557452.7	4159628.7	6.4	3.31	4.28	1.54	NO
L0000035	0	0.19929E-04	557460.7	4159624.2	6.5	3.31	4.28	1.54	NO
L0000036	0	0.19929E-04	557468.8	4159619.8	6.6	3.31	4.28	1.54	NO
L0000037	0	0.19929E-04	557476.9	4159615.4	6.8	3.31	4.28	1.54	NO
L0000038	0	0.19929E-04	557484.9	4159610.9	7.0	3.31	4.28	1.54	NO

```
 L0000039         0   0.19929E-04  557493.0 4159606.5     7.0     3.31
4.28     1.54     NO
 L0000040         0   0.19929E-04  557501.0 4159602.0     7.0     3.31
4.28     1.54     NO
```



```
                                                     *** VOLUME SOURCE
DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE
INIT.    INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT
SY       SZ     SOURCE  SCALAR VARY
     ID          CATS.               (METERS) (METERS) (METERS) (METERS)
(METERS) (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 L0000041         0   0.19929E-04  557509.1 4159597.6     7.1     3.31
4.28     1.54     NO
 L0000042         0   0.19929E-04  557517.1 4159593.2     7.2     3.31
4.28     1.54     NO
```



```
                                                *** SOURCE IDs DEFINING
SOURCE GROUPS ***

 SRCGROUP ID                                              SOURCE IDs
 -----------                                              ----------


  ALL        L0000001    , L0000002    , L0000003    , L0000004    ,
L0000005    , L0000006    , L0000007    , L0000008    ,

             L0000009    , L0000010    , L0000011    , L0000012    ,
L0000013    , L0000014    , L0000015    , L0000016    ,
```

```
             L0000017    , L0000018    , L0000019    , L0000020    ,
L0000021    , L0000022    , L0000023    , L0000024    ,

             L0000025    , L0000026    , L0000027    , L0000028    ,
L0000029    , L0000030    , L0000031    , L0000032    ,

             L0000033    , L0000034    , L0000035    , L0000036    ,
L0000037    , L0000038    , L0000039    , L0000040    ,

             L0000041    , L0000042    ,
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL

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

     ( 557237.3, 4159639.7,       5.1,       5.1,       0.0);
( 557240.4, 4159649.4,       5.1,       5.1,       0.0);
     ( 557228.1, 4159655.5,       5.1,       5.1,       0.0);
( 557218.4, 4159660.8,       5.1,       5.1,       0.0);
     ( 557215.4, 4159649.4,       4.9,       4.9,       0.0);
( 557208.8, 4159636.7,       4.6,       4.6,       0.0);
     ( 557223.2, 4159632.3,       4.8,       4.8,       0.0);
( 557213.2, 4159625.2,       4.8,       4.8,       0.0);
     ( 557202.6, 4159616.0,       5.0,       5.0,       0.0);
( 557192.1, 4159607.7,       5.2,       5.2,       0.0);
     ( 557177.6, 4159617.3,       5.1,       5.1,       0.0);
( 557186.8, 4159625.2,       5.0,       5.0,       0.0);
     ( 557177.2, 4159637.1,       4.9,       4.9,       0.0);
( 557187.7, 4159641.0,       4.8,       4.8,       0.0);
     ( 557198.2, 4159646.3,       4.8,       4.8,       0.0);
( 557205.2, 4159662.1,       5.0,       5.0,       0.0);
     ( 557190.8, 4159663.9,       4.7,       4.7,       0.0);
( 557168.4, 4159641.0,       4.8,       4.8,       0.0);
     ( 557162.7, 4159631.8,       5.0,       5.0,       0.0);
( 557155.2, 4159640.2,       4.8,       4.8,       0.0);
     ( 557259.7, 4159617.3,       4.9,       4.9,       0.0);
( 557267.2, 4159612.1,       4.9,       4.9,       0.0);
     ( 557275.5, 4159606.4,       5.0,       5.0,       0.0);
( 557285.2, 4159601.5,       5.3,       5.3,       0.0);
     ( 557277.7, 4159591.0,       4.8,       4.8,       0.0);
( 557268.9, 4159582.2,       4.5,       4.5,       0.0);
```

```
    ( 557257.5, 4159590.1,       4.7,       4.7,       0.0);
( 557268.0, 4159596.3,       4.7,       4.7,       0.0);
    ( 557255.3, 4159606.4,       4.7,       4.7,       0.0);
( 557245.2, 4159600.6,       4.7,       4.7,       0.0);
    ( 557304.1, 4159587.0,       6.1,       6.1,       0.0);
( 557313.3, 4159582.2,       6.2,       6.2,       0.0);
    ( 557324.7, 4159576.1,       6.3,       6.3,       0.0);
( 557335.2, 4159568.2,       6.4,       6.4,       0.0);
    ( 557324.2, 4159555.9,       6.4,       6.4,       0.0);
( 557308.9, 4159566.0,       6.2,       6.2,       0.0);
    ( 557297.5, 4159576.1,       5.8,       5.8,       0.0);
( 557287.4, 4159568.2,       5.5,       5.5,       0.0);
    ( 557308.9, 4159554.5,       6.3,       6.3,       0.0);
( 557322.9, 4159544.4,       6.4,       6.4,       0.0);
    ( 557380.0, 4159577.4,       6.7,       6.7,       0.0);
( 557388.8, 4159572.5,       6.7,       6.7,       0.0);
    ( 557372.6, 4159563.3,       6.8,       6.8,       0.0);
( 557377.4, 4159554.1,       6.8,       6.8,       0.0);
    ( 557387.5, 4159547.1,       7.0,       7.0,       0.0);
( 557397.1, 4159542.7,       7.0,       7.0,       0.0);
    ( 557363.3, 4159548.4,       6.7,       6.7,       0.0);
( 557370.4, 4159541.8,       6.8,       6.8,       0.0);
    ( 557380.0, 4159536.5,       6.9,       6.9,       0.0);
( 557387.0, 4159530.4,       7.0,       7.0,       0.0);
    ( 557231.2, 4159591.9,       5.1,       5.1,       0.0);
( 557240.4, 4159585.3,       5.0,       5.0,       0.0);
    ( 557248.3, 4159575.6,       5.1,       5.1,       0.0);
( 557255.3, 4159567.3,       5.2,       5.2,       0.0);
    ( 557262.8, 4159557.6,       5.5,       5.5,       0.0);
( 557278.6, 4159555.0,       5.7,       5.7,       0.0);
    ( 557288.2, 4159548.8,       6.2,       6.2,       0.0);
( 557296.2, 4159541.8,       6.3,       6.3,       0.0);
    ( 557306.2, 4159536.1,       6.4,       6.4,       0.0);
( 557315.0, 4159528.2,       6.5,       6.5,       0.0);
    ( 557303.6, 4159768.6,       5.2,       5.2,       0.0);
( 557313.3, 4159775.9,       5.3,       5.3,       0.0);
    ( 557324.3, 4159785.7,       5.4,       5.4,       0.0);
( 557335.2, 4159777.8,       5.5,       5.5,       0.0);
    ( 557301.2, 4159794.8,       5.2,       5.2,       0.0);
( 557280.5, 4159805.1,       5.0,       5.0,       0.0);
    ( 557260.4, 4159790.5,       4.9,       4.9,       0.0);
( 557268.3, 4159811.2,       4.9,       4.9,       0.0);
    ( 557222.8, 4159585.1,       5.3,       5.3,       0.0);
( 557233.7, 4159576.0,       5.3,       5.3,       0.0);
    ( 557238.6, 4159566.9,       5.5,       5.5,       0.0);
( 557246.5, 4159557.1,       5.7,       5.7,       0.0);
    ( 557215.5, 4159571.7,       5.6,       5.6,       0.0);
( 557230.1, 4159553.5,       5.9,       5.9,       0.0);
    ( 557240.4, 4159541.9,       6.1,       6.1,       0.0);
( 557270.2, 4159539.5,       6.2,       6.2,       0.0);
    ( 557280.5, 4159531.0,       6.3,       6.3,       0.0);
( 557291.4, 4159520.1,       6.4,       6.4,       0.0);
```

```
     ( 557300.6, 4159512.8,       6.4,       6.4,       0.0);
( 557268.3, 4159526.7,       6.3,       6.3,       0.0);
     ( 557288.4, 4159508.5,       6.4,       6.4,       0.0);
( 557200.9, 4159563.8,       5.7,       5.7,       0.0);
     ( 557211.2, 4159552.3,       6.0,       6.0,       0.0);
( 557220.3, 4159540.7,       6.2,       6.2,       0.0);
     ( 557244.0, 4159521.3,       6.3,       6.3,       0.0);
( 557261.7, 4159514.0,       6.4,       6.4,       0.0);
     ( 557271.4, 4159502.4,       6.4,       6.4,       0.0);
( 557244.6, 4159509.1,       6.5,       6.5,       0.0);
     ( 557258.0, 4159501.2,       6.5,       6.5,       0.0);
( 557283.5, 4159491.5,       6.4,       6.4,       0.0);
```



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

     ( 557271.4, 4159479.9,       6.6,       6.6,       0.0);
( 557355.9, 4159534.0,       6.8,       6.8,       0.0);
     ( 557366.2, 4159531.0,       6.9,       6.9,       0.0);
( 557377.1, 4159525.5,       7.0,       7.0,       0.0);
     ( 557385.0, 4159514.6,       7.0,       7.0,       0.0);
( 557353.4, 4159518.8,       6.9,       6.9,       0.0);
     ( 557377.7, 4159501.2,       7.1,       7.1,       0.0);
( 557343.7, 4159507.9,       6.8,       6.8,       0.0);
     ( 557356.5, 4159501.8,       6.9,       6.9,       0.0);
( 557369.2, 4159492.1,       7.1,       7.1,       0.0);
     ( 557336.4, 4159497.0,       6.7,       6.7,       0.0);
( 557353.4, 4159479.9,       7.0,       7.0,       0.0);
     ( 557327.3, 4159481.2,       6.8,       6.8,       0.0);
( 557338.8, 4159472.6,       7.0,       7.0,       0.0);
     ( 557319.4, 4159470.2,       7.0,       7.0,       0.0);
( 557334.0, 4159459.3,       7.3,       7.3,       0.0);
     ( 557414.8, 4159540.7,       7.0,       7.0,       0.0);
( 557409.4, 4159527.3,       7.0,       7.0,       0.0);
     ( 557434.3, 4159539.5,       7.0,       7.0,       0.0);
( 557444.6, 4159533.4,       7.1,       7.1,       0.0);
     ( 557423.3, 4159525.5,       7.0,       7.0,       0.0);
( 557436.1, 4159520.1,       7.1,       7.1,       0.0);
     ( 557411.2, 4159514.6,       7.0,       7.0,       0.0);
( 557421.5, 4159504.9,       7.1,       7.1,       0.0);
```

```
    ( 557396.6, 4159503.6,       7.1,       7.1,       0.0);
( 557389.9, 4159491.5,       7.2,       7.2,       0.0);
    ( 557416.6, 4159490.9,       7.3,       7.3,       0.0);
( 557407.5, 4159478.7,       7.4,       7.4,       0.0);
    ( 557168.1, 4159588.7,       5.4,       5.4,       0.0);
( 557148.0, 4159602.7,       5.5,       5.5,       0.0);
    ( 557152.2, 4159573.5,       5.5,       5.5,       0.0);
( 557141.3, 4159563.8,       5.8,       5.8,       0.0);
    ( 557129.2, 4159560.2,       6.0,       6.0,       0.0);
( 557187.5, 4159554.7,       5.7,       5.7,       0.0);
    ( 557197.2, 4159543.8,       6.0,       6.0,       0.0);
( 557210.0, 4159532.8,       6.2,       6.2,       0.0);
    ( 557217.3, 4159523.7,       6.3,       6.3,       0.0);
( 557208.8, 4159514.0,       6.4,       6.4,       0.0);
    ( 557199.7, 4159508.5,       6.5,       6.5,       0.0);
( 557171.7, 4159541.3,       5.9,       5.9,       0.0);
    ( 557182.0, 4159531.6,       6.1,       6.1,       0.0);
( 557189.9, 4159523.7,       6.3,       6.3,       0.0);
    ( 557227.6, 4159505.5,       6.5,       6.5,       0.0);
( 557234.9, 4159497.6,       6.6,       6.6,       0.0);
    ( 557242.8, 4159489.1,       6.7,       6.7,       0.0);
( 557248.9, 4159481.8,       6.7,       6.7,       0.0);
    ( 557254.4, 4159473.9,       6.8,       6.8,       0.0);
( 557248.9, 4159465.4,       7.0,       7.0,       0.0);
    ( 557235.5, 4159458.7,       7.0,       7.0,       0.0);
( 557232.5, 4159471.4,       6.9,       6.9,       0.0);
    ( 557224.6, 4159479.3,       6.8,       6.8,       0.0);
( 557216.7, 4159487.8,       6.7,       6.7,       0.0);
    ( 557217.3, 4159497.6,       6.6,       6.6,       0.0);
( 557410.6, 4159576.6,       6.7,       6.7,       0.0);
    ( 557406.9, 4159566.9,       6.8,       6.8,       0.0);
( 557402.7, 4159559.6,       6.9,       6.9,       0.0);
    ( 557484.2, 4159816.6,       6.1,       6.1,       0.0);
( 557496.1, 4159831.5,       6.1,       6.1,       0.0);
    ( 557572.3, 4159760.2,       6.4,       6.4,       0.0);
( 557586.2, 4159749.3,       6.4,       6.4,       0.0);
    ( 557602.0, 4159736.5,       6.4,       6.4,       0.0);
( 557576.3, 4159804.8,       6.2,       6.2,       0.0);
    ( 557595.1, 4159790.9,       6.1,       6.1,       0.0);
( 557608.9, 4159776.1,       6.2,       6.2,       0.0);
    ( 557584.2, 4159776.1,       6.3,       6.3,       0.0);
( 557598.0, 4159762.2,       6.3,       6.3,       0.0);
    ( 557646.5, 4159741.4,       6.3,       6.3,       0.0);
( 557635.6, 4159723.6,       6.4,       6.4,       0.0);
    ( 557623.8, 4159706.8,       6.6,       6.6,       0.0);
( 557615.8, 4159692.9,       6.7,       6.7,       0.0);
    ( 557645.5, 4159690.0,       6.8,       6.8,       0.0);
( 557670.3, 4159681.0,       6.7,       6.7,       0.0);
    ( 557699.0, 4159665.2,       6.7,       6.7,       0.0);
( 557737.6, 4159684.0,       6.4,       6.4,       0.0);
    ( 557727.7, 4159666.2,       6.7,       6.7,       0.0);
( 557720.8, 4159646.4,       6.7,       6.7,       0.0);
```

```
     ( 557682.2, 4159704.8,       6.5,       6.5,       0.0);
( 557662.4, 4159772.1,       6.1,       6.1,       0.0);
     ( 557717.8, 4159753.3,       5.7,       5.7,       0.0);
( 557759.4, 4159751.3,       5.5,       5.5,       0.0);
     ( 557754.4, 4159713.7,       5.9,       5.9,       0.0);
( 557691.1, 4159793.9,       5.5,       5.5,       0.0);
     ( 557718.8, 4159785.0,       5.5,       5.5,       0.0);
( 557736.6, 4159778.0,       5.4,       5.4,       0.0);
     ( 557289.4, 4159644.9,       5.5,       5.5,       0.0);
( 557299.1, 4159640.5,       5.7,       5.7,       0.0);
     ( 557307.0, 4159636.5,       5.9,       5.9,       0.0);
( 557316.6, 4159632.6,       6.1,       6.1,       0.0);
     ( 557279.3, 4159637.0,       5.3,       5.3,       0.0);
( 557287.7, 4159634.8,       5.5,       5.5,       0.0);
```



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

     ( 557295.6, 4159630.8,       5.7,       5.7,       0.0);
( 557307.4, 4159626.9,       6.0,       6.0,       0.0);
     ( 557271.4, 4159629.1,       5.1,       5.1,       0.0);
( 557279.3, 4159625.1,       5.2,       5.2,       0.0);
     ( 557288.1, 4159620.3,       5.5,       5.5,       0.0);
( 557295.6, 4159614.6,       5.8,       5.8,       0.0);
```



```
                                                 *** 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
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** AERMOD - VERSION 16216r *** *** C:\Users\xli\Desktop\2803.0009 Burlinegame HRA\Railine HRA\Railine H *** 03/19/18
*** AERMET - VERSION 14134 *** ***
*** 13:48:17

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\724940\724940.SFC
Met Version: 14134
Profile file: ..\724940\724940.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 23234 Upper air station no.: 23230
Name: SAN_FRANCISCO/INT'L_ARPT Name: OAKLAND/WSO_AP
Year: 2009 Year: 2009

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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 09 01 01   1 01  -28.0  0.491 -9.000 -9.000 -999.  826.    386.1
0.49   0.45   1.00    3.86   71.   10.0  282.5    2.0
 09 01 01   1 02  -15.7  0.275 -9.000 -9.000 -999.  390.    121.4
0.49   0.45   1.00    2.36   78.   10.0  282.5    2.0
 09 01 01   1 03  -24.0  0.421 -9.000 -9.000 -999.  656.    284.0
0.49   0.45   1.00    3.36   94.   10.0  282.5    2.0
 09 01 01   1 04  -20.7  0.364 -9.000 -9.000 -999.  529.    211.5
0.32   0.45   1.00    3.36   43.   10.0  282.0    2.0
 09 01 01   1 05  -17.2  0.301 -9.000 -9.000 -999.  398.    144.1
0.32   0.45   1.00    2.86   13.   10.0  281.4    2.0
 09 01 01   1 06  -27.0  0.472 -9.000 -9.000 -999.  779.    355.0
0.44   0.45   1.00    3.86  352.   10.0  280.9    2.0
 09 01 01   1 07  -27.9  0.486 -9.000 -9.000 -999.  812.    374.7
0.32   0.45   1.00    4.36   15.   10.0  280.4    2.0
 09 01 01   1 08  -20.9  0.364 -9.000 -9.000 -999.  538.    209.6
0.32   0.45   1.00    3.36   13.   10.0  279.9    2.0
 09 01 01   1 09   -8.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.51   0.45   0.38    0.00    0.   10.0  280.4    2.0
 09 01 01   1 10    4.9  0.280  0.224  0.016   83.  355.   -405.2
0.32   0.45   0.25    2.36   21.   10.0  280.9    2.0
 09 01 01   1 11   10.7 -9.000 -9.000 -9.000  147. -999. -99999.0
0.51   0.45   0.20    0.00    0.   10.0  280.4    2.0
 09 01 01   1 12   14.1  0.289  0.429  0.016  203.  373.   -156.0
0.32   0.45   0.19    2.36   26.   10.0  280.9    2.0
 09 01 01   1 13   14.7 -9.000 -9.000 -9.000  247. -999. -99999.0
0.51   0.45   0.18    0.00    0.   10.0  280.9    2.0
 09 01 01   1 14   61.1 -9.000 -9.000 -9.000  379. -999. -99999.0
0.51   0.45   0.19    0.00    0.   10.0  282.0    2.0
 09 01 01   1 15   43.2  0.307  0.805  0.017  439.  408.    -60.8
0.32   0.45   0.22    2.36   22.   10.0  282.5    2.0
 09 01 01   1 16   17.1  0.345  0.594  0.015  445.  487.   -219.0
0.32   0.45   0.30    2.86   14.   10.0  282.5    2.0
 09 01 01   1 17   -7.0  0.102 -9.000 -9.000 -999.  169.     13.7
0.32   0.45   0.54    1.76   31.   10.0  282.5    2.0
 09 01 01   1 18   -9.9  0.112 -9.000 -9.000 -999.   91.     13.0
0.44   0.45   1.00    1.76  357.   10.0  282.0    2.0
 09 01 01   1 19  -18.1  0.159 -9.000 -9.000 -999.  152.     20.2
0.32   0.45   1.00    2.36    4.   10.0  282.0    2.0
 09 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.51   0.45   1.00    0.00    0.   10.0  281.4    2.0
 09 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.51   0.45   1.00    0.00    0.   10.0  282.0    2.0
 09 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.51   0.45   1.00    0.00    0.   10.0  282.0    2.0
 09 01 01   1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.51   0.45   1.00    0.00    0.   10.0  281.4    2.0
 09 01 01   1 24   -9.9  0.173 -9.000 -9.000 -999.  173.     47.9
0.49   0.45   1.00    1.76  100.   10.0  281.4    2.0
```

```
 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 09 01 01 01   10.0 1   71.    3.86   282.6   99.0  -99.00  -99.00

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

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\Railine HRA\Railine H ***        03/19/18
 *** AERMET - VERSION  14134 ***   ***
***        13:48:17

PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):
L0000001    , L0000002    , L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    ,
L0000009    , L0000010    , L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    ,
L0000017    , L0000018    , L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    ,
L0000025    , L0000026    , L0000027    , L0000028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN
RECEPTOR POINTS ***

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

       X-COORD (M)   Y-COORD (M)        CONC                       X-
COORD (M)   Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557237.31    4159639.73        0.01413
557240.38    4159649.39        0.01627
         557228.08    4159655.54        0.01574
557218.42    4159660.81        0.01537
         557215.35    4159649.39        0.01312
557208.76    4159636.66        0.01092
         557223.25    4159632.27        0.01170
557213.15    4159625.24        0.01016
         557202.62    4159616.02        0.00873
557192.08    4159607.68        0.00762
         557177.59    4159617.34        0.00740
557186.81    4159625.24        0.00840
         557177.15    4159637.10        0.00855
557187.69    4159641.05        0.00962
```

557198.22 4159646.32 0.01100
557205.25 4159662.13 0.01379
557190.76 4159663.89 0.01224
557168.36 4159641.05 0.00819
557162.66 4159631.83 0.00732
557155.19 4159640.17 0.00728
557259.70 4159617.34 0.01305
557267.17 4159612.07 0.01298
557275.51 4159606.36 0.01292
557285.17 4159601.53 0.01309
557277.70 4159590.99 0.01118
557268.92 4159582.21 0.00976
557257.51 4159590.11 0.00983
557268.04 4159596.26 0.01109
557255.31 4159606.36 0.01130
557245.21 4159600.65 0.01005
557304.05 4159587.04 0.01262
557313.27 4159582.21 0.01267
557324.69 4159576.06 0.01268
557335.23 4159568.16 0.01236
557324.25 4159555.86 0.01025
557308.88 4159565.96 0.01045
557297.46 4159576.06 0.01085
557287.37 4159568.16 0.00953
557308.88 4159554.55 0.00937
557322.93 4159544.45 0.00913
557380.02 4159577.38 0.01829
557388.80 4159572.55 0.01811
557372.55 4159563.33 0.01445
557377.38 4159554.11 0.01323
557387.48 4159547.08 0.01278
557397.14 4159542.69 0.01269
557363.33 4159548.40 0.01152
557370.36 4159541.81 0.01107
557380.02 4159536.54 0.01091
557387.04 4159530.39 0.01049
557231.16 4159591.87 0.00857
557240.38 4159585.28 0.00856
557248.28 4159575.62 0.00826
557255.31 4159567.28 0.00801
557262.77 4159557.62 0.00769
557278.58 4159554.98 0.00813
557288.24 4159548.84 0.00808
557296.15 4159541.81 0.00789
557306.25 4159536.10 0.00786
557315.03 4159528.20 0.00763
557303.59 4159768.64 0.03741
557313.32 4159775.93 0.03049
557324.26 4159785.66 0.02450
557335.20 4159777.76 0.02559
557301.16 4159794.78 0.02461
557280.50 4159805.11 0.02360

```
         557260.44    4159790.52        0.03488
557268.34    4159811.19        0.02280
         557222.76    4159585.09        0.00774
557233.70    4159575.97        0.00766
         557238.56    4159566.86        0.00733
557246.46    4159557.13        0.00708
         557215.46    4159571.72        0.00674
557230.05    4159553.49        0.00638
         557240.38    4159541.94        0.00617
557270.16    4159539.51        0.00691
         557280.50    4159531.00        0.00677
557291.44    4159520.06        0.00651
         557300.55    4159512.76        0.00637
557268.34    4159526.74        0.00624

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\Railine HRA\Railine H ***        03/19/18
 *** AERMET - VERSION  14134 ***   ***
***        13:48:17

PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):
L0000001    , L0000002    , L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    ,
L0000009    , L0000010    , L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    ,
L0000017    , L0000018    , L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    ,
L0000025    , L0000026    , L0000027    , L0000028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN
RECEPTOR POINTS ***

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

       X-COORD (M)   Y-COORD (M)        CONC                       X-
COORD (M)   Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557288.40    4159508.51        0.00591
557200.88    4159563.82        0.00592
         557211.21    4159552.27        0.00578
557220.33    4159540.72        0.00559
         557244.03    4159521.27        0.00545
557261.65    4159513.98        0.00556
         557271.38    4159502.43        0.00533
557244.64    4159509.12        0.00505
```

557258.01 4159501.22 0.00504
557283.53 4159491.49 0.00516
557271.38 4159479.94 0.00461
557355.86 4159534.04 0.00956
557366.19 4159531.00 0.00968
557377.13 4159525.53 0.00956
557385.03 4159514.59 0.00878
557353.43 4159518.84 0.00816
557377.74 4159501.22 0.00751
557343.71 4159507.90 0.00715
557356.47 4159501.82 0.00707
557369.23 4159492.10 0.00674
557336.41 4159496.96 0.00637
557353.43 4159479.94 0.00583
557327.30 4159481.16 0.00548
557338.84 4159472.65 0.00530
557319.39 4159470.22 0.00495
557333.98 4159459.28 0.00475
557414.82 4159540.72 0.01344
557409.35 4159527.35 0.01107
557434.27 4159539.51 0.01440
557444.60 4159533.43 0.01367
557423.32 4159525.53 0.01139
557436.09 4159520.06 0.01102
557411.17 4159514.59 0.00958
557421.50 4159504.86 0.00881
557396.58 4159503.65 0.00813
557389.90 4159491.49 0.00708
557416.64 4159490.88 0.00747
557407.52 4159478.73 0.00650
557168.06 4159588.74 0.00576
557148.00 4159602.72 0.00548
557152.25 4159573.54 0.00480
557141.31 4159563.82 0.00428
557129.16 4159560.17 0.00392
557187.50 4159554.70 0.00522
557197.23 4159543.76 0.00513
557209.99 4159532.82 0.00509
557217.29 4159523.70 0.00496
557208.78 4159513.98 0.00453
557199.66 4159508.51 0.00423
557171.70 4159541.33 0.00448
557182.03 4159531.61 0.00446
557189.94 4159523.70 0.00442
557227.62 4159505.47 0.00463
557234.91 4159497.57 0.00454
557242.81 4159489.06 0.00444
557248.89 4159481.77 0.00434
557254.36 4159473.87 0.00421
557248.89 4159465.36 0.00394
557235.52 4159458.67 0.00365
557232.48 4159471.43 0.00388

557224.58 4159479.34 0.00395
557216.68 4159487.84 0.00403
557217.29 4159497.57 0.00426
557410.56 4159576.58 0.02251
557406.91 4159566.86 0.01875
557402.66 4159559.56 0.01638
557484.22 4159816.64 0.00793
557496.09 4159831.48 0.00675
557572.30 4159760.22 0.00691
557586.15 4159749.34 0.00672
557601.99 4159736.47 0.00647
557576.26 4159804.76 0.00528
557595.06 4159790.91 0.00514
557608.92 4159776.06 0.00512
557584.17 4159776.06 0.00589
557598.03 4159762.20 0.00583
557646.53 4159741.42 0.00480
557635.64 4159723.61 0.00551
557623.76 4159706.78 0.00640
557615.84 4159692.93 0.00721

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):
L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 ,
L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 ,
L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 ,
L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC
- - - -

```
         557698.98    4159665.22        0.00455
557737.58    4159684.02        0.00354
         557727.68    4159666.20        0.00388
557720.75    4159646.41        0.00418
         557682.15    4159704.80        0.00447
557662.36    4159772.10        0.00391
         557717.78    4159753.30        0.00319
557759.35    4159751.32        0.00268
         557754.40    4159713.71        0.00304
557691.06    4159793.87        0.00314
         557718.77    4159784.97        0.00287
557736.59    4159778.04        0.00272
         557289.40    4159644.88        0.02374
557299.06    4159640.49        0.02427
         557306.97    4159636.54        0.02456
557316.63    4159632.59        0.02524
         557279.31    4159636.98        0.01929
557287.65    4159634.79        0.02010
         557295.55    4159630.83        0.02034
557307.41    4159626.88        0.02127
         557271.40    4159629.08        0.01630
557279.31    4159625.13        0.01651
         557288.09    4159620.30        0.01664
557295.55    4159614.59        0.01639
```


*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS ***

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

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

ALL       1ST HIGHEST VALUE IS       0.03741 AT (  557303.59,
4159768.64,     5.19,     5.19,    0.00)  DC
          2ND HIGHEST VALUE IS       0.03488 AT (  557260.44,
4159790.52,     4.92,     4.92,    0.00)  DC
```

```
          3RD HIGHEST VALUE IS       0.03049 AT (  557313.32,
4159775.93,     5.28,     5.28,    0.00)  DC
          4TH HIGHEST VALUE IS       0.02559 AT (  557335.20,
4159777.76,     5.49,     5.49,    0.00)  DC
          5TH HIGHEST VALUE IS       0.02524 AT (  557316.63,
4159632.59,     6.09,     6.09,    0.00)  DC
          6TH HIGHEST VALUE IS       0.02461 AT (  557301.16,
4159794.78,     5.18,     5.18,    0.00)  DC
          7TH HIGHEST VALUE IS       0.02456 AT (  557306.97,
4159636.54,     5.87,     5.87,    0.00)  DC
          8TH HIGHEST VALUE IS       0.02450 AT (  557324.26,
4159785.66,     5.40,     5.40,    0.00)  DC
          9TH HIGHEST VALUE IS       0.02427 AT (  557299.06,
4159640.49,     5.71,     5.71,    0.00)  DC
         10TH HIGHEST VALUE IS       0.02374 AT (  557289.40,
4159644.88,     5.55,     5.55,    0.00)  DC


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

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\2803.0009
Burlinegame HRA\Railine HRA\Railine H ***        03/19/18
 *** AERMET - VERSION  14134 ***   ***
***        13:48:17

PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL

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

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of         6306 Informational Message(s)

 A Total of        43872 Hours Were Processed

 A Total of         5804 Calm Hours Identified

 A Total of          502 Missing Hours Identified (  1.14 Percent)


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


    ********   WARNING MESSAGES   ********
```

```
 MX W481   43873         MAIN: Data Remaining After End of Year.
Number of Hours=           48

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

Ruben Hurin
March 22, 2018

Attachment E:
Cumulative Health Risk Impact

How to Use the Distance Adjustment Multiplier Tool for Diesel Internal Combustion (IC) Engines

This distance multiplier tool refines the screening values for cancer risk and PM2.5 concentrations found in the District's Stationary Source Screening Analysis Tool for permitted facilities which contain only diesel IC engines, to represent adjusted risk and hazard impacts that can be expected with farther distances from the source of emissions.

1. Obtain the facility diesel IC engine(s) cancer risk and/or PM2.5 concentration from the District's Stationary Source Screening Analysis tool only for facilities where the source is listed as "generator." If the distance to the nearest receptor is less than 25 meters, the distance adjustment multiplier table cannot be used and an air dispersion modeling analysis using site-specific information is needed to refine the cancer risk, chronic hazard index or PM2.5 estimates.

2. Determine the shortest distance from each diesel IC engine to the nearest receptor. Select the shortest distance to receptor found.

3. In the table below, enter the cancer risk and/or PM2.5 concentration found in step 1 for the diesel IC engine in the row which aligns with the shortest distance from each diesel IC engine to the nearest receptor (found in step 2). If the shortest distance to the receptor falls between two distance values, select the multiplier corresponding to the smaller distance. For distances beyond 280 meters, use the multiplier 0.04. The resulting product is the adjusted cancer risk in a million or the adjusted PM2.5 concentration for the diesel IC engine

Note: This distance adjustment multiplier may be used only for the screening level health risk values indicated in the District's Stationary Source Screening Analysis tool for diesel IC engines. This distance multiplier tool may not be used to adjust values from an HRA if an HRA for the facility was conducted.

Note: This distance adjustment multiplier may also be used to adjust the screening values for chronic hazard index found in the District's Stationary Source Screening Analysis Tool for facilities with only diesel IC engines.

BAAQMD Source ID 14474 (Distance of 730 feet is the distance to the Project construction MIR) (Distance of 720 feet is the distance to the nearest project onsite residence)

Adjusted Cancer Risks Need to be Multiplied by 1.12 to account for the newest cancer risk guidance

Distance (meters)	Distance (feet)	Distance Adjustment Multiplier	Enter Cancer Risk Estimate	Adjusted Cancer Risk Estimate	Enter PM2.5 Concentration	Adjusted PM2.5 Concentration
25	82	0.85		0		0
30	98.4	0.73		0		0
35	115	0.64		0		0
40	131	0.58		0		0
50	164	0.5		0		0
60	197	0.41		0		0
70	230	0.31		0		0
80	262	0.28		0		0
90	295	0.25		0		0
100	328	0.22		0		0
110	361	0.18		0		0
120	394	0.16		0		0
130	426	0.15		0		0
140	459	0.14		0		0
150	492	0.12		0		0
160	525	0.1		0		0
180	590	0.09		0		0
200	656	0.08		0		0
220	722	0.07	45.25	3.1675		0
240	787	0.06		0		0
260	853	0.05		0		0
280	918	0.04		0		0

How to Use the Distance Adjustment Multiplier Tool for Diesel Internal Combustion (IC) Engines

This distance multiplier tool refines the screening values for cancer risk and PM2.5 concentrations found in the District's Stationary Source Screening Analysis Tool for permitted facilities which contain only diesel IC engines, to represent adjusted risk and hazard impacts that can be expected with farther distances from the source of emissions.

1. Obtain the facility diesel IC engine(s) cancer risk and/or PM2.5 concentration from the District's Stationary Source Screening Analysis tool only for facilities where the source is listed as "generator." If the distance to the nearest receptor is less than 25 meters, the distance adjustment multiplier table cannot be used and an air dispersion modeling analysis using site-specific information is needed to refine the cancer risk, chronic hazard index or PM2.5 estimates.

2. Determine the shortest distance from each diesel IC engine to the nearest receptor. Select the shortest distance to receptor found.

3. In the table below, enter the cancer risk and/or PM2.5 concentration found in step 1 for the diesel IC engine in the row which aligns with the shortest distance from each diesel IC engine to the nearest receptor (found in step 2). If the shortest distance to the receptor falls between two distance values, select the multiplier corresponding to the smaller distance. For distances beyond 280 meters, use the multiplier 0.04. The resulting product is the adjusted cancer risk in a million or the adjusted PM2.5 concentration for the diesel IC engine

Note: This distance adjustment multiplier may be used only for the screening level health risk values indicated in the District's Stationary Source Screening Analysis tool for diesel IC engines. This distance multiplier tool may not be used to adjust values from an HRA if an HRA for the facility was conducted.

Note: This distance adjustment multiplier may also be used to adjust the screening values for chronic hazard index found in the District's Stationary Source Screening Analysis Tool for facilities with only diesel IC engines.

BAAQMD Source ID 14463 (Distance of 1,020 feet is the distance to the Project construction MIR) (Distance of 1,000 feet is the distance to the nearest project onsite residence)

Adjusted Cancer Risks Need to be Multiplied by 1.12 to account for the newest cancer risk guidance

Distance (meters)	Distance (feet)	Distance Adjustment Multiplier	Enter Cancer Risk Estimate	Adjusted Cancer Risk Estimate	Enter PM2.5 Concentration	Adjusted PM2.5 Concentration
25	82	0.85		0		0
30	98.4	0.73		0		0
35	115	0.64		0		0
40	131	0.58		0		0
50	164	0.5		0		0
60	197	0.41		0		0
70	230	0.31		0		0
80	262	0.28		0		0
90	295	0.25		0		0
100	328	0.22		0		0
110	361	0.18		0		0
120	394	0.16		0		0
130	426	0.15		0		0
140	459	0.14		0		0
150	492	0.12		0		0
160	525	0.1		0		0
180	590	0.09		0		0
200	656	0.08		0		0
220	722	0.07		0		0
240	787	0.06		0		0
260	853	0.05		0		0
280	918	0.04	45.25	1.81		0

How to Use the Distance Adjustment Multiplier Tool for Gasoline Dispensing Facilities (GDF)

This distance multiplier tool refines the screening values for cancer risk and chronic hazard index found in the District's Stationary Source Screening Analysis Tool to represent adjusted risk and hazard impacts that can be expected with farther distances from the source of emissions (GDF's).

1. Obtain the GDF cancer risk and/or chronic hazard index from the District's Stationary Source Screening Analysis tool for facilities where the Plant No. is preceded with a 'G'. If the distance to the nearest receptor is less than 20 meters, the distance adjustment multiplier table cannot be used and an air dispersion modeling analysis using site-specific information is needed to refine the cancer risk and/or chronic hazard index estimate.

2. Determine the shortest distance from the GDF to the nearest receptor.

3. In the table below, enter the cancer risk and/or chronic hazard index found in step 1 for the GDF in the row which aligns with the shortest distance from each GDF to the nearest receptor (found in step 2). If the shortest distance to the receptor falls between two distance values, select the multiplier corresponding to the smaller distance. For distances beyond 300 meters, use the multiplier 0.015. The resulting product is the adjusted cancer risk in a million or the adjusted chronic hazard index for the GDF.

Note: These distance adjustment multipliers may be used only for the screening level health risk values indicated in the District's Stationary Source Screening Analysis tool for gasoline dispensing facilities. This distance multiplier tool may not be used to adjust values from an HRA if an HRA for the facility was conducted.

BAAQMD Source ID G5709 (Distance of 164 feet is the distance to the Project construction MIR) (Distance of 66 feet is the distance to the nearest project onsite residence)

Adjusted Cancer Risks Need to be Multiplied by 1.12 to account for the newest cancer risk guidance

Distance meters	Distance feet	Distance adjustment multiplier	Enter Cancer Risk	Adjusted Cancer Risk	Enter Chronic Hazard Index	Adjusted Chronic Hazard Index
20	66	1.000	7.8	7.8		0
25	82	0.728		0		0
30	98	0.559		0		0
35	115	0.445		0		0
40	131	0.365		0		0
45	148	0.305		0		0
50	164	0.260	7.8	2.028058305		0
55	180	0.225		0		0
60	197	0.197		0		0
65	213	0.174		0		0
70	230	0.155		0		0
75	246	0.139		0		0
80	262	0.126		0		0
85	279	0.114		0		0
90	295	0.104		0		0
95	312	0.096		0		0
100	328	0.088		0		0
105	344	0.082		0		0
110	361	0.076		0		0
115	377	0.071		0		0
120	394	0.066		0		0
125	410	0.062		0		0
130	426	0.058		0		0
135	443	0.055		0		0
140	459	0.052		0		0
145	476	0.049		0		0
150	492	0.046		0		0
155	508	0.044		0		0
160	525	0.042		0		0
165	541	0.040		0		0
170	558	0.038		0		0
175	574	0.036		0		0
180	590	0.034		0		0
185	607	0.033		0		0
190	623	0.031		0		0
195	640	0.030		0		0
200	656	0.029		0		0
205	672	0.028		0		0
210	689	0.027		0		0
215	705	0.026		0		0
220	722	0.025		0		0
225	738	0.024		0		0
230	754	0.023		0		0
235	771	0.022		0		0
240	787	0.022		0		0
245	804	0.021		0		0
250	820	0.020		0		0
255	836	0.020		0		0
260	853	0.019		0		0
265	869	0.018		0		0
270	886	0.018		0		0
275	902	0.017		0		0
280	918	0.017		0		0
285	935	0.016		0		0
290	951	0.016		0		0
295	968	0.015		0		0
300	984	0.015		0		0

THIS PAGE INTENTIONALLY LEFT BLANK