Appendix FEIR-2

Health Risk Assessment

HEALTH RISK ASSESSMENT

Violet Street Creative Office Campus Project

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1.0 Executive Summary

1.1 Findings

This report provides an analysis of potential health risk impacts related to the proposed construction and operation of the Violet Street Creative Office Campus Project (Project) in the City of Los Angeles, California. The analysis identified the baseline condition around the Project and evaluated the incremental change in health risk concentration exposure from diesel exhaust/diesel particulate matter (DPM) emitted by heavy-duty construction equipment during construction and limited heavy-duty delivery trucks during operation[1] of the Project. The findings of the analysis are as follows:

- For carcinogenic exposures (construction and operational emissions), the increase in risk is calculated to be 1.1 in one million for residential uses, which is less than the applicable threshold of 10 in one million for sensitive receptors in close proximity to the Project Site, resulting in a less than significant impact.

- For chronic non-carcinogenic exposures (construction and operational emissions), the increase in the respiratory hazard index was estimated to be less than the applicable threshold of 1.0 for either chronic or acute effects at sensitive receptors in close proximity to the Project Site, resulting in a less than significant impact.

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[1]   *The Project would not support any land uses or activities that would involve the use, storage, or processing of carcinogenic toxic air contaminants. In addition, the proposed land uses would not generally involve the use of heavy-duty diesel trucks with the exception of occasional moving trucks, trash trucks or delivery trucks.*

2.0 Introduction

The Project proposes to develop a new creative office campus that knits together uses spanning existing and proposed buildings on an approximately 273,930-square foot (6.288 acre) site. The Project would include a new 13-story (including mechanical penthouse), a maximum 450,599-square-foot commercial building, featuring up to 435,100 square feet of office uses, 15,499 square feet of ground floor retail and/or restaurant uses, and 1,264 automobile parking spaces in one at-grade, two above-grade, and four below-grade parking levels within Lot 1 of the Project Site, located at the southwestern corner of the Project Site. To be clear, this is not the type of project that the regulatory agencies, nor the applicable regulatory laws, require to produce a Health Risk Assessment (HRA) for adequate disclosure of potential air quality impacts pursuant to the California Environmental Quality Act (CEQA).

The California Air Pollution Control Officers Association (CAPCOA) Guidance Document for Health Risk Assessments for Proposed Land Use Projects (2009) (CAPCOA HRA Guidance) provides lead agencies with guidance regarding when and how an HRA should be prepared. It bases the risk assessment methodology on the procedures developed by the California Office of Environmental Health Hazard Assessment (OEHHA) to meet the mandates of the Air Toxics "Hot Spots" Information and Assessment Act (AB 2588). The CAPCOA HRA Guidance states that

> *There are basically two types of land use projects that have the potential to cause long-term public health risk impacts: Type A—land use projects with toxic emissions that impact receptors; and Type B land use projects that will place receptors in the vicinity of existing toxic sources. Type A project examples are combustion related power plants, gasoline dispensing facilities, asphalt batch plants, warehouse distribution centers, quarry operations, and other stationary sources that emit toxic substances. Type B project examples are project that place receptors near stationary sources, high traffic roads, freeways, rail yards, and ports.*

Note that the Project does not qualify as either a Type A or Type B project. Therefore, per the CAPCOA HRA Guidance in effect when the Draft EIR for the Project was prepared, the lead agency did not include an HRA in the Draft EIR. Accordingly, this HRA was done voluntarily for informational purposes only to supplement the administrative record and respond to comments. This HRA further demonstrates that even if an HRA

were necessary under applicable case law and regulatory guidance (which it is not) the Project would not have a significant air quality impact, including as to TAC impacts.

The OEHHA adopted the Air Toxics Hot Spots Program Guidance Manual for the Preparation of Risk Assessments (2003 Guidance Manual) in October of 2003. The Guidance Manual was developed by OEHHA, in conjunction with the California Air Resources Board (CARB), for use in implementing the Air Toxics "Hot Spots" Program (Health and Safety Code Section 44360 et. seq.). The Air Toxics "Hot Spots" Program requires stationary sources to report the types and quantities of certain substances routinely released into the air. The goals of the Air Toxics "Hot Spots" Program are to collect emission data, to identify facilities having localized impacts, to ascertain health risks, to notify nearby residents of significant risks, and to reduce those significant risks to acceptable levels.

OEHHA adopted a new version of the Air Toxics Hot Spots Program Guidance Manual for the Preparation of Risk Assessments (2015 Guidance Manual) in March of 2015.[2] CARB acknowledges that the Guidance Manual does not include guidance for projects prepared under the auspices of CEQA and that it would be "handled by individual [Air Pollution Control] Districts."[3] As noted by CARB,

> *The Air Toxics "Hot Spots" Information and Assessment Act (AB 2588, 1987, Connelly) was enacted in September 1987. Under this, stationary sources are required to report the types and quantities of certain substances their facilities routinely release into the air. Emissions of interest are those that result from the routine operation of a facility or that are predictable, including but not limited to continuous and intermittent releases and process upsets or leaks….*
>
> *The Act requires that toxic air emissions from stationary sources (facilities) be quantified and compiled into an inventory according to criteria and guidelines developed by the ARB, that each facility be prioritized to determine whether a risk assessment must be conducted, that the risk assessments be conducted according to methods developed by OEHHA….[4]*

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[2] *Office of Environmental Health Hazard Assessment, Air Toxicology and Epidemiology, Adoption of Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments. March 6, 2015, www.oehha.ca.gov/air/hot_spots/hotspots2015.html, accessed August 8, 2023..*

[3] *CARB, Risk Management Guidance for Stationary Sources of Air Toxics, July 23, 2015, p. 19, www.arb.ca.gov/toxics/rma/rmgssat.pdf.*

[4] *CARB, Overview of the Air Toxics "Hot Spots" Information and Assessment Act ww2.arb.ca.gov/ overview-air-toxics-hot-spots-information-and-assessment-act, accessed August 8, 2023.*

As reported above, applicability is associated with commercial and industrial operations. There are two broad classes of facilities subject to the AB 2588 Program: Core facilities and facilities identified within discrete industry-wide source categories. Core facilities subject to AB 2588 compliance are sources whose criteria pollutant emissions (particulate matter, oxides of sulfur, oxides of nitrogen, and volatile organic compounds) are 25 tons per year or more as well as those facilities whose criteria pollutant emissions are 10 tons per year or more but less than 25 tons per year. Industry-wide source facilities are classified as smaller operations with relatively similar emission profiles (e.g., auto body shops, gas stations and dry cleaners using perchloroethylene). The emissions generated from the construction and subsequent occupancy of a mixed-use development project are not classified as core operations nor is it subject to industry-wide source evaluation.

The intent in developing the 2015 Guidance Manual was to provide HRA procedures for use in the Air Toxics Hot Spots Program or for the permitting of new or modified stationary sources. As noted above, the Project is not a new or modified stationary source that requires air quality permits to construct or operate. Air districts are to determine which facilities will prepare an HRA based on a prioritization process. The 2015 Guidance Manual provides recommendations related to cancer risk evaluation of short-term projects. As discussed in Section 8.2.10 of the 2015 Guidance Manual, "[t]he local air pollution control districts sometimes use the risk assessment guidelines for the Hot Spots program in permitting decisions for short-term projects such as construction or waste site remediation." Short-term projects that would require a permitting decision by South Coast Air Quality Management District (SCAQMD) typically would be limited to site remediation (e.g., stationary soil vapor extractors) and certain other activities that are not applicable to the Project. As noted above, neither construction, nor operation, of the Project are subject to SCAQMD permitting requirements. Therefore, read in context, the Guidance Manual's quoted statement from Section 8.2.10 regarding "short-term projects" does not apply to the Project. Additionally, the 2015 Guidance Manual does not provide specific recommendations for evaluation of short-term use of mobile sources (e.g., heavy-duty diesel construction equipment) that would be applicable to the Project.

Nonetheless, to be conservative, this HRA was prepared in part to analyze potential construction impacts. In addition, potential operational impacts, despite the fact that no considered stationary source is part of the Project's land uses, were assessed for informational purposes given the limited use of heavy-duty trucks associated with occasional moving trucks, trash trucks and delivery trucks.

OEHHA's 2015 Guidance Manual provides Age Sensitivity Factors (ASFs) to account for potential increased sensitivity of early-in-life exposure to carcinogens. For risk assessments conducted under the auspices of AB 2588, a weighting factor is applied to all carcinogens regardless of purported mechanism of action. In comments presented to the SCAQMD Governing Board (Meeting Date: June 5, 2015, Agenda No. 28) relating to toxic

air contaminant exposures under Rules 1401 (New Source Review of Toxic Air Contaminants), use of the 2015 OEHHA guidelines and their applicability for projects subject to CEQA, as they relate to the incorporation of early-life exposure adjustments, it was reported that:

The Proposed Amended Rules are separate from the CEQA significance thresholds. The Response to Comments Staff Report PAR 1401, 1401.1, 1402, and 212 A - 8 June 2015 SCAQMD staff is currently evaluating how to implement the Revised OEHHA Guidelines under CEQA. The SCAQMD staff will evaluate a variety of options on how to evaluate health risks under the Revised OEHHA Guidelines under CEQA. The SCAQMD staff will conduct public workshops to gather input before bringing recommendations to the Governing Board.

SCAQMD, as a commenting agency, has not conducted public workshops nor developed policy relating to the applicability of applying the 2015 OEHHA guidance for projects prepared by other public/lead agencies subject to CEQA.

To emphasize variability in methodology for conducting HRAs, regulatory agencies throughout the State of California including the Department of Toxic Substances Control (DTSC) which is charged with protecting individuals and the environment from the effects of toxic substances and responsible for assessing, investigating and evaluating sensitive receptor populations to ensure that properties are free of contamination or that health protective remediation levels are achieved have adopted the U.S. Environmental Protection Agency's (USEPA's) policy in the application of early-life exposure adjustments.

Specifically, USEPA guidance relating to the use of early life exposure adjustments (*Supplemental Guidance for Assessing Susceptibility from Early-Life Exposure to Carcinogens, EPA/630/R-003F*) are considered when carcinogens act "through the mutagenic mode of action." As reported:

The Agency considered both the advantages and disadvantages of extending the recommended, age dependent adjustment factors for carcinogenic potency to carcinogenic agents for which the mode of action remains unknown. EPA recommends these factors only for carcinogens acting through a mutagenic mode of action based on a combination of analysis of available data and long-standing science policy positions that set out the Agency's overall approach to carcinogen risk assessment, e.g., the use of a linear, no threshold extrapolation procedure in the absence of data in order to be health protective. In general, the Agency prefers to rely on analyses of data rather than on general defaults. When data are available for a susceptible lifestage, they should be used directly to evaluate risks for that

chemical and that lifestage on a case-by-case basis. In the case of nonmutagenic carcinogens, when the mode of action is unknown, the data were judged by EPA to be too limited and the modes of action too diverse to use this as a category for which a general default adjustment factor approach can be applied. In this situation per the Agency's Guidelines for Carcinogen Risk Assessment, a linear low-dose extrapolation methodology is recommended. It is the Agency's long-standing science policy position that use of the linear low-dose extrapolation approach (without further adjustment) provides adequate public health conservatism in the absence of chemical-specific data indicating differential early-life susceptibility or when the mode of action is not mutagenicity.

In 2006, the USEPA published a memorandum which provides guidance regarding the preparation of health risk assessments should carcinogenic compounds elicit a mutagenic mode of action.[5] As presented in the technical memorandum, numerous compounds were identified as having a mutagenic mode of action. For diesel particulates, polycyclic aromatic hydrocarbons (PAHs) and their derivatives, which are known to exhibit a mutagenic mode of action, comprise less than one percent of the exhaust particulate mass. To date, the USEPA reports that whole diesel engine exhaust has not been shown to elicit a mutagenic mode of action.[6]

Based on a review of relevant guidance on the applicability of the use of early life exposure adjustments to identified carcinogens, the use of these factors would not be applicable to this HRA as neither the Lead Agency nor SCAQMD have developed recommendations on whether these factors should be used for CEQA analyses of potential DPM construction or operational impacts. For this assessment, the HRA relied upon USEPA guidance relating to the use of early life exposure adjustment factors (Supplemental Guidance for Assessing Susceptibility from Early-Life Exposure to Carcinogens, EPA/630/R-003F) whereby adjustment factors are only considered when carcinogens act "through the mutagenic mode of action."   Therefore, early life exposure adjustments were not considered in this HRA.

Also, CARB published and adopted the *Air Quality and Land Use Handbook: A Community Health Perspective*, which provides recommendations regarding the siting of new sensitive land uses near potential sources of air toxic emissions (e.g., freeways,

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[5]   *United States Environmental Protection Agency, 2006. Memorandum - Implementation of the Cancer Guidelines and Accompanying Supplemental Guidance - Science Policy Council Cancer Guidelines Implementation Workgroup Communication II: Performing Risk Assessments that include Carcinogens Described in the Supplemental Guidance as having a Mutagenic Mode of Action.*

[6]   *United States Environmental Protection Agency, National Center for Environmental Assessment, 2018. Integrated Risk Information System (IRIS). Diesel Engine Exhaust.*

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distribution centers, rail yards, ports, refineries, chrome plating facilities, dry cleaners, and gasoline dispensing facilities).[7]   SCAQMD adopted similar recommendations in its *Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning*.[8]   Together, the CARB and SCAQMD guidelines recommend siting distances for both the development of sensitive land uses in proximity to Toxic Air Contaminates (TAC) sources and the addition of new TAC sources in proximity to existing sensitive land uses. When considering potential air quality impacts under CEQA, consideration is given to the location of sensitive receptors within close proximity of land uses that emit TACs.   Both CARB and SCAQMD guidelines recommend conducting an HRA when siting new sensitive land uses (e.g., residential uses) within 500 feet of a freeway.   Applied here, the Project does not site new sensitive land uses near existing sources of air toxic emissions since the Project Site is more than 500 feet from any and all freeways, including the I-10, I-5, and US-101 freeways.

The primary sources of potential air toxics associated with Project operations include DPM from delivery trucks (e.g., truck traffic on local streets and idling on adjacent streets associated with occasional moving trucks, trash trucks, and delivery trucks).   However, these activities, and the land uses associated with the Project, are not considered land uses that generate substantial TAC emissions based on review of the air toxic sources listed in SCAQMD's and CARB's guidelines.   It should be noted that SCAQMD recommends that HRAs be conducted for substantial individual sources of DPM (e.g., truck stops and warehouse distribution facilities that generate more than 100 trucks per day or more than 40 trucks with operating transport refrigeration units) and has provided guidance for analyzing mobile source diesel emissions.[9]   Based on this guidance, the Project is not considered these types of land uses and is not considered to be a substantial source of operational DPM warranting a refined HRA since daily truck trips to the Project Site would not exceed 100 trucks per day or more than 40 trucks with operating transport refrigeration units.   In addition, the CARB-mandated ATCM limits diesel-fueled commercial vehicles (delivery trucks) to idle for no more than 5 minutes at any given time, which would further limit diesel particulate emissions.

Although a construction and operational HRA is not required for the reasons discussed above, for informational purposes only, this HRA has been prepared to provide a good faith and reasoned response to public comments and to provide the City with

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[7]   *CARB, Air Quality and Land Use Handbook, a Community Health Perspective, April 2005.*

[8]   *SCAQMD, Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning, May 6, 2005.*

[9]   *SCAQMD, Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis, 2003.*

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additional substantial evidence that demonstrates that the Project would not create a significant health risk impact.

3.0 Health Risk Assessment

3.1 Project Description

The Violet Street Creative Office Campus Project (Project) is a new creative office campus with uses spanning existing and proposed buildings on an approximately 273,930-square-foot (6.288-acre) site. Construction of the Project would require the demolition of the existing 25,798 square feet of warehouse uses, 9,940 square feet of office uses, and associated surface parking, all located on the southwest portion of the Project Site. The remainder of the Project Site is developed with the existing 244,795 square foot Warner Music Group building (originally the Ford Factory building) and a five-story parking garage (including a roof-top level), both of which would be retained as part of the Project.   The Project proposes a 13-story, approximately 450,599-square-foot building featuring up to 435,100 square feet of office uses, 15,499 square feet of ground floor retail and/or restaurant uses, and 1,264 automobile parking spaces located in a seven-story parking garage, comprised of one at grade, two above-grade, and four below-grade levels, all on Lot 1. A future expansion of the Project would demolish 21,880 square feet of existing warehouse use and construct an additional 211,201 square feet of new floor area, resulting in a total floor area of 661,800 square feet (in addition to the 244,795 square feet of existing development to remain).   The future expansion phase would be subject to subsequent permit applications and supplemental review under CEQA at the time applications are made. However To provide a conservative analysis, this HRA analyzes the future expansion phase as 191,201 square feet of office and up to 20,000 square feet of restaurant use. This HRA accounts for all development described above (in both construction and operation phases) of both the initial phase of the Project and the future expansion phase.

Certain activities would emit DPM from heavy-duty trucks and heavy-duty equipment used during construction and to a lesser extent heavy-duty trucks accessing the Project Site during operation of the Project associated with occasional moving trucks, trash trucks and delivery trucks. CARB and OEHHA have classified DPM as a carcinogen. Existing adjacent uses consist of residential uses located north and east of the site.

3.2 The Assessment Process

The risk assessment process provided in OEHHA's 2003 Guidance Manual consists of four basic steps: (1) hazard identification; (2) exposure assessment; (3) dose-response assessment; and (4) risk characterization.[10] In the first step, hazard identification involves determining the potential health effect which may be associated with emitted pollutants. The purpose is to identify qualitatively whether a pollutant is a potential human carcinogen or is associated with other types of adverse health effects. Depending on the chemical, these health effects may include short-term ailments or chronic diseases. The dose-response assessment is designed to characterize the relationship between the amount or dose of a chemical and its toxicological effect on the human body. Responses to toxic chemicals will vary depending on the amount and length of exposure. For example, short-term exposure to low concentrations of chemicals may produce no noticeable effect, but continued exposure to the same levels of chemicals over a long period of time may eventually cause harm. The purpose of the exposure assessment is to estimate the extent of exposure to each substance for which risk will be evaluated. This involves emission quantification, modeling of environmental transport, identification of chemicals of concern, identification of exposure routes, identification of exposed populations, and estimation of long-term exposure levels. Risk characterization is an integration of the health effects and public exposure information developed for emitted pollutants to provide a quantitative probability of adverse health effects.

3.3 Source Identification and Characterization

3.3.1 Source Identification

As indicated above, the primary source of potential air toxics associated with the Project is DPM from heavy-duty trucks and heavy-duty construction equipment used during construction and to a lesser extent heavy-duty trucks accessing the Project Site during operation of the Project associated with occasional moving trucks, trash trucks and delivery trucks. SCAQMD recommends that an HRA be conducted for substantial sources of long-term DPM operational sources (e.g., truck stops and warehouse distribution facilities) and has provided guidance for analyzing mobile source diesel emissions.[11] While Project construction and operation would not represent a long-term source of DPM emissions

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[10] *Office of Environmental Health Hazard Assessment, The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments, August 2003, Page 1-6.*

[11] *SCAQMD, Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Emissions, August 2003.*

under SCAQMD Guidance[12], SCAQMD Guidance was used for purposes of modeling parameters and assumptions.

3.3.2 Source Characterization

Construction

As described in detail in Section II, Project Description, of the Draft EIR, Project construction would commence with demolition of the existing uses, followed by grading and excavation for the subterranean parking garages. Building foundations would then be placed, followed by building construction, paving/concrete installation, and landscape installation. Project construction is anticipated to occur over approximately 32 months. It is estimated that approximately 144,000 cubic yards (cy) of soil would be hauled from the Project Site during the grading and excavation phase.

Total DPM emissions over the duration of Project construction were calculated using the SCAQMD recommended California Emissions Estimator Model (CalEEMod) and consistent with the methodology for calculating criteria pollutant emissions provided in Section IV.A, Air Quality, of the Draft EIR. The calculations of the emissions generated during Project construction activities reflect the types and quantities of construction equipment and haul trucks that would be used to complete the proposed construction activities.

CalEEMod calculates annual emissions based on worst-case conditions occurring on a daily basis. This scenario would not represent real world conditions as construction activities and equipment would not be expected to operate at 100 percent on an average daily basis. Construction surveys prepared for CARB have documented that on a typical construction site, daily average equipment hours range from 2 to 7.5 hours (25 percent to 94 percent of an 8 hour work-day) depending on the type of equipment.[13] Therefore, an adjustment was taken into account which assumes that annual average emissions would conservatively represent 80 percent of a worst-case day.

As an example, the heavy-duty construction equipment mix provided in the air quality analysis for the foundation phase reflects all equipment needed for the largest concrete pour day. Thus, average daily DPM emissions from building foundation would be substantially less since maximum pour days would not occur every day during that phase.

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[12] *Project construction is short term—32 months. Moreover, the Project is commercial and office uses, none of which are associated with significant heavy-duty truck use or significant DPM emissions.*

[13] *California Air Resources Board, Characterization of the Off-Road Equipment Population, December 2008.*

The Project is conservatively assumed to start construction in 2023 and to be completed by 2025. Based on SCAQMD factors, the construction equipment and truck fleet mix will emit less pollution in future years due to more stringent emissions control regulations. As construction activities for the Project are evaluated based on an earlier start date, the emissions presented are more conservative.

The calculation of DPM emissions was based on the 2045 Violet Construction Onsite CalEEMod output file provided in Appendix C, Air Quality and Greenhouse Gas Emissions, of the Draft EIR. It was assumed that all on-site (e.g., off-road equipment) equipment would be diesel and, therefore, on-site exhaust PM_{10} emissions were included in this HRA as DPM. The CalEEMod output file is provided in Appendix A of this HRA.

Operation

As discussed above, the Project proposed development a 13-story, approximately 450,599-square-foot building featuring up to 435,100 square feet of office uses, and 15,499 square feet of ground floor retail and/or restaurant uses. A future expansion of the Project would add an additional 211,201 square feet of floor area (conservatively analyzed as 191,201 square feet of office and 20,000 square feet of restaurant uses) resulting in a total, cumulative floor area of 661,800 square feet across the Project Site.

A conservative estimate of the number of daily truck trips is provided below based on the National Cooperative Highway Research Program Truck Trip Generation Data.[14]

- Table D-2c of the NCHRP data (Trip Generation Summary—Daily Commercial Vehicle Trips per 1,000 sf of Building Space for Retail (includes restaurants)) provides an average of 0.324 truck trips per 1,000 sf or approximately 11.5 truck trips per day ((35,499 sf/1,000 sf) x 0.324 trips/1,000 sf/day) for the Project's commercial floor area. This assumes that all trucks would be diesel even though many retail/restaurant truck deliveries are from smaller gasoline or alternative energy source trucks (e.g., UPS or FedEx).

- Table D-2d of the NCHRP data (Trip Generation Summary—Daily Commercial Vehicle Trips per 1,000 sf of Building Space for Office and Services provides an provides an average of 0.039 truck trips per 1,000 sf or approximately 24.4 truck trips per day ((626,301 sf/1,000 sf) x 0.039 trips/1,000 sf/day) for the Project's office use. It is conservatively assumed that all of these delivery trucks would be heavy-duty diesel trucks even though many residential truck deliveries are from smaller gasoline or alternative energy source trucks (e.g., UPS or FedEx).

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[14] *National Cooperative Highway Research Program (NCHRP) Synthesis 298 Truck Trip Generation Data, 2001.*

Accordingly, the Project is conservatively estimated to generate approximately 36 trucks per day during operation of which one truck associated with restaurant/retail land uses were assumed to include transportation refrigeration units (TRUs) or 10 percent of the 11.5 total trucks associated with restaurant/retail land uses.

Emissions from TRUs were estimated using the CARB Draft 2019 Emissions Inventory for Transportation Refrigeration Units.[15] Emissions from delivery trucks travelling to and from the Project Site as well as idling were estimated using the CARB EMFAC2021 model.[16] Trucks travelling to/from the loading docks generate emissions through truck engine idling, TRU operation and travelling.

Importantly, with respect to truck emissions associated with the operation of projects, SCAQMD recommends that HRAs be conducted for substantial sources of DPM for developments that include truck stops and warehouse distribution facilities that generate more than 100 trucks per day or more than 40 trucks with operating TRUs. In other words, SCAQMD has identified an amount of truck trips per day that could warrant conducting an HRA to analyze emissions and health risks. Projects with truck trips below the aforementioned amounts should not be considered a substantial source of DPM and HRAs are neither recommended nor required by the applicable regulatory documents. As set forth above, operational truck use is well below both of these benchmarks.

Specifically, the Project is not considered to be a substantial source of operational DPM warranting an HRA because there are only 40 daily truck trips to the Project Site (of which 1 is assumed to be TRUs), which is far below the either more-than-100-trucks-per-day or more-than-40-TRU-trucks-per-day that indicate when a project could be considered a substantial DPM source. Nonetheless, operational health risks from use of operational delivery trucks for the Project was evaluated for informational purposes and included in this HRA.

Note also that, based on SCAQMD guidance, there is no quantitative analysis required for future cancer risk within the vicinity of the Project because it is consistent with the recommendations regarding the siting of new sensitive land uses near potential sources of TAC emissions provided in the SCAQMD Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning.

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[15] *California Air Resources Board. Draft 2019 Update to Emissions Inventory for Transportation Refrigeration Units. October 2019.*

[16] *Airborne Toxic Control Measure is set forth in title 13, CCR, section 2485 and requires that drivers of diesel-fueled commercial motor vehicles with gross vehicle weight ratings greater than 10,000 pound not idle the vehicle's primary diesel engine longer than five minutes at any location. 5-minute idle time applies to all heavy-duty truck – construction as well as operational trucks.*

3.3.3 Baseline and Identification of Chemicals of Concern

The Draft EIR identified the baseline of conditions around the Project Site and the ambient levels of TACs. SCAQMD released the fourth round of its Basin-wide Multiple Air Toxics Exposure Study (MATES V – Final Report) in April 2021. MATES V estimated the cancer risk from TAC emissions throughout the Basin by conducting a monitoring program, an updated emissions inventory of TACs, and a modeling effort to characterize health risks in the air basin. As part of MATES V, SCAQMD prepared an interactive map that shows estimates of cancer risks in the Basin from ambient levels of TACs based on the modeling effort to provide insight into relative risks. The map reports estimated cancer risks for discrete two-kilometer-by-two-kilometer grid cells. The cancer risk estimates reported there should not be interpreted as actual rates of disease in the exposed population, but rather as estimates of potential risk, based on a number of conservative assumptions. In general, MATES V indicates that the highest cancer risks from TACs are found near shipping ports, goods movement sources, and near freeways and other transportation corridors. MATES V identifies that the cancer risk is approximately 766 per one million at the Project Site. A figure in Appendix E to this HRA shows the MATES V Total Cancer Risk around Project Site. Compared to previous studies of air toxics in the Basin, the MATES V study found decreasing air toxics exposure from the analysis done in the MATES IV time period.

This HRA identifies the baseline condition and also identifies the actual additional risks due to certain emissions associated with the Project. Note that, as discussed above, the CAPCOA regulatory guidance adopted at the time the Draft EIR was prepared indicates that HRAs should assess Type A (toxic emissions) and Type B (placing receptors near existing toxic sources) projects with within the CEQA context. This HRA presents the incremental health risks analysis even though the Project does not qualify as either a Type A or Type B project. Accordingly, this voluntary HRA analysis is informational, further informs the public and decision makers, and confirms the analysis previously set forth in the Draft EIR, but it is not required pursuant to the laws in effect when the Draft EIR was prepared. Nonetheless, this HRA quantitatively evaluated DPM as a chemical of concern for potential health effects in two categories, carcinogenic and non-carcinogenic.

3.4 Exposure Quantification

Consistent with SCAQMD's Localized Significance Threshold Methodology (LST Guidelines), this HRA used USEPA's Regulatory Model AERMOD to assess the downwind extent of DPM concentrations from proposed construction and operational activities.[17] AERMOD accounts for a variety of refined, site-specific conditions that facilitate an

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[17] *SCAQMD, Final-Localized Significance Threshold Methodology, 2008.*

accurate assessment of Project impacts. AERMOD's air dispersion algorithms are based upon a planetary boundary layer turbulence structure and scaling concepts, including the treatment of surface and elevated sources in simple and complex terrain.

Exhaust emissions from construction and operational equipment were treated as a set of side-by-side elevated volume sources. The release height was assumed to be 12 feet. This represents the mid-range of the expected plume rise from frequently used construction equipment and operational heavy-duty trucks during daytime atmospheric conditions. For the purpose of this HRA, construction exhaust emissions were assumed to take place over a 32-month (2.7 year) duration on weekdays between 7 A.M. to 3 P.M. (8-hour period). Operational exhaust emissions were assumed to take place 6-days per week between 7 A.M. to 3 P.M. (8-hour period) and included 15 minutes of idle time to account for ingress, egress, and travel on-site.[18] These durations represent average workdays and, periodic changes to the construction hours would not modify the underlying conclusions of this analysis.

Air dispersion models require additional input parameters including local meteorology and receptors. Due to the sensitivity to individual meteorological parameters such as wind speed and direction, the USEPA recommends that meteorological data used as input into dispersion models be selected on the basis of relative spatial and temporal conditions that exist in the area of concern. In response to this recommendation, meteorological data from the SCAQMD Central Los Angeles monitoring station (Source Receptor Area 1) were used to represent local weather conditions and prevailing winds.

Cartesian receptor grids were used to represent adjacent and nearby sensitive land uses. The Cartesian receptor grids were placed at each sensitive use with a built in 10 meter spacing for the nearby residential uses. All receptors were placed at ground level, which is recommended by SCAQMD for AERMOD modeling. Elevations for both sources and receptors were provided by the U.S. Geological Survey (USGS) and included using the AERMOD terrain processor AERMAP.

DPM modeled concentrations were used to calculate cancer risk and chronic hazard index at each relevant receptor. A graphical representation of the source-receptor grid network is presented in Appendix C.

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[18] *SCAQMD, Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis, 2003, www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis.*

3.5 Risk Characterization

3.5.1 Carcinogenic Chemical Risk

Health risks associated with exposure to carcinogenic compounds at sensitive land uses in close proximity to the Project can be defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. Under a deterministic approach (i.e., point estimate methodology), the cancer risk probability is determined by multiplying the chemical's annual concentration by its unit risk factor (URF). The URF is a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It represents an upper bound estimate of the probability of contracting cancer as a result of continuous exposure to an ambient concentration of one microgram per cubic meter (μg/m^3) over a 70-year lifetime. SCAQMD recommends a threshold of ten in one million cancer risk for evaluating carcinogenic impacts at sensitive receptors.[19]

The equation used to calculate the potential excess cancer risk is:

$$Risk_i = C_i \times CP_i \times DBR \times EVF$$

Where:

$Risk_i$ = Lifetime Excess Cancer Risk from exposure to chemical$_i$
C_i = Representative Air Concentration for chemical$_i$ (μg/m^3)
CP_i = Cancer Potency$_i$ (mg/kg-day)$^{-1}$
DBR = Daily Breathing Rate (L/kg body weight-day)
EVF = Exposure Value Factor (unitless)

An estimate of an individual's incremental excess cancer risk from exposure to Project construction and operational DPM emissions is calculated by summing the chemical-specific excess cancer risks. In addition, cancer risk is evaluated based on the duration on which a sensitive receptor is exposed to DPM (exposure duration). Based on OEHHA guidelines, it is recommended that cancer risk analyses assume an exposure duration of 70-years for residential receptors.[20] The exposure duration takes into account the construction duration of 32 months during construction, and operational emissions occurring each year.

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[19] *SCAQMD, Air Quality Significance Thresholds, www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2, accessed August 8, 2023.*

[20] *Air Toxics Hot Spots Program Risk Assessment Guidelines. Office of Environmental Health and Hazard Assessment. August 2003.*

3.5.2 Non-Carcinogenic Chemical Risk

The potential for chronic non-carcinogenic health effects is evaluated by calculating the total hazard index (HI) for the Project construction and operational DPM emissions. This HI represents the sum of the hazard quotients (HQs) developed for each individual project-related chemical, where a HQ is the ratio of the representative air concentration of the chemical to the chemical specific non-cancer Reference Exposure Level (REL). The non-cancer RELs represent the daily average exposure concentration at (or below) which no adverse health effects are anticipated.

The equations used to calculate the chemical-specific HQs and HIs are:

$$HQ_i = C_i/REL_i$$
$$HI = \Sigma HQ_i$$

Where:

HQ_i = Hazard Quotient for chemical$_i$

C_i = Average Daily Air Concentration for chemical$_i$ ($\mu g/m^3$)

REL_i = Noncancer Reference Exposure Level for chemical$_i$ ($\mu g/m^3$)

HI = Hazard Index

SCAQMD recommends that the non-carcinogenic hazards of toxic air contaminants should not exceed a hazard index of 1.0 for either chronic or acute effects.[21] Acute effects are due to short-term exposure, while chronic effects are due to long-term exposure to a substance. For chronic and acute risks, the hazard index is calculated as the summation of the hazard quotients for all chemicals to which an individual would be exposed. The acute hazard index was not quantified since an inhalation REL has not been determined by the OEHHA for DPM at the time of preparation of this HRA or the Draft EIR.

3.6 Conclusions

The results from the health risk calculations provide an estimate of the potential risks and hazards to individuals through inhalation of Project construction DPM emissions over a 32-month duration. Consistent with OEHHA guidelines, health risk impacts from Project operational DPM emissions were assessed over a 70-year exposure duration for residential receptors. The estimated risks and hazards include: lifetime excess cancer risk estimates, and cumulative chronic HI estimates for the receptor locations of concern.

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[21] *SCAQMD, Air Quality Significance Thresholds, www.aqmd.gov/docs/default-source/ceqa/handbook/ scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2, accessed August 8, 2023.*

As shown in Appendix B and in Table 1 below, the results of the HRA yields a maximum off-site individual cancer risk of 1.0 in a million for residential uses located north and east of the Project Site, across 7th Street and Santa Fe Avenue (for combined construction and operational emissions).[22] The maximum chronic risk of 0.011 occurs within this same residential receptor area. As the Project (construction and operational emissions, separate and cumulative) would not emit carcinogenic or toxic air contaminants that result in impacts which exceed the maximum individual cancer risk of ten in one million or the chronic index of 1.0, Project-related toxic emission impacts would be less than significant. This HRA accounts for all development described above (in both construction and operation phases) of both the initial phase of the Project and the future expansion phase.

Table 1
Health Risk Assessment (Combined Construction and Operational Emissions)

Risk	Significance Threshold	Calculated Risk	Significant Impact
Cancer Risk (Resident)	10 in 1 Million	1.1E-06 which denotes excess cases of cancer of 1.1 in one million	No
Non-Carcinogenic Risk (Maximum)	Chronic Index (HI) of 1.0	1.1E-02 which denotes an HI of 0.011	No

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[22] *As combined emissions (construction and operations) are below significance thresholds, individual emissions (i.e., construction separate from operational emission) are necessarily below the significance thresholds and the thresholds are the same as between the two.*

4.0 Uncertainty Assessment

Evaluating carcinogenic pollutant concentrations based on OEHHA methodology and SCAQMD Guidance has an implied uncertainty. These methodologies were developed to provide a conservative health risk estimate. The conservative nature of this methodology relies on a number of inputs designed to prevent an underestimation of risk. The following discusses the conservative nature of the risk assessment analysis assumptions utilized in this analysis.

The cancer risk from DPM occurs mainly through inhalation. Output from the dispersion analysis was used to estimate the DPM concentrations. The cancer risk estimate is then calculated based on those estimated DPM concentrations using the risk methodology promulgated by OEHHA. The risk assessment guidelines established by SCAQMD and included in the analysis are designed to produce conservative (high) estimates of the risk posed by DPM, due to the following factors:

- As a conservative measure, SCAQMD does not recognize indoor adjustments for residential uses. However, studies have shown that the typical person spends approximately 87 percent of their time indoors, 5 percent of their time outdoors, and 7 percent of their time in vehicles. A DPM exposure assessment showed that an average indoor concentration was 2.0 µg/m^3, compared with an outdoor concentration of 3.0 µg/m^3.[23]

- OEHHA has a toxicity database that lists TACs and their URFs. A URF describes the cancer potency of a particular TAC and is used to estimate cancer risk. Most of these URFs are extrapolated from animal studies based on continuous exposure to particular toxin. This method can have some significant uncertainties. For example, a chemical that is carcinogenic by one route of exposure is considered to be carcinogenic for all routes of exposure at its maximum potency. Also, it is not realistic for a receptor to be exposed to a continuous concentration of TACs over time. In reality, receptors are exposed to constantly changing concentration levels that would expose receptors to lower levels of TACs over time than analyzed in this analysis.

- The use of the SCAQMD meteorological data set and conservative exposure assumptions (e.g., assumes receptor would be located outside in the same

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[23] *SCAQMD, Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Emissions, 2002.*

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location 24 hours per day for the entire construction duration) amongst others, likely also lead to overestimated risks.

As such, uncertainty in the health risk analysis is conservative in nature and is designed to prevent undisclosed impacts to human health. Concentrations reported in this report represent a conservative scenario that is likely an over estimation of actual pollutant concentrations.

Appendix A

Emissions Calculations

1360 Vine
Residential Construction Emissions (Annual Diesel Particulate Matter)

CalEEMod Output (tons/year)

Phase No.	Phase	Year	Mitigated	On/Off Site	Category	Exhaust PM10
1	Demolition	2021	Mitigated	On-site	Off-Road	0.00452
1	Demolition	2022	Mitigated	On-site	Off-Road	0.01071
2	Grading	2022	Mitigated	On-site	Off-Road	0.05417
3	Mat Foundation	2022	Mitigated	On-site	Off-Road	0.0025
4	Foundation	2022	Mitigated	On-site	Off-Road	0.04615
4	Foundation	2023	Mitigated	On-site	Off-Road	0.01055
5	Building Construction	2023	Mitigated	On-site	Off-Road	0.14294
5	Building Construction	2024	Mitigated	On-site	Off-Road	0.13808
5	Building Construction	2025	Mitigated	On-site	Off-Road	0.01347
6	Architectural Coating	2024	Mitigated	On-site	Off-Road	0
6	Architectural Coating	2025	Mitigated	On-site	Off-Road	0
7	Paving	2025	Mitigated	On-site	Off-Road	0.00413

Annual Totals (tons)

Daily Max to Annual Ratio	80%

Year	Totals (tons/year)
2021	0.0036
2022	0.0908
2023	0.1228
2024	0.1105
2025	0.0141
Total	0.3418

Construction Duration (years)	3.2	38-months
Hours per Day	8	
Seconds per Day	28,800	
Construction Duration (seconds)	33,291,504	
Annual Average Emission Rate (g/s)	**0.0093**	

1360 Vine

Office Construction Emissions (Annual Diesel Particulate Matter)

CalEEMod Output (tons/year)

Phase No.	Phase	Year	Mitigated	On/Off Site	Category	Exhaust PM10
1	Demolition	2021	Mitigated	On-site	Off-Road	0.00452
1	Demolition	2022	Mitigated	On-site	Off-Road	0.01071
2	Grading	2022	Mitigated	On-site	Off-Road	0.11051
3	Mat Foundation	2023	Mitigated	On-site	Off-Road	0.00173
4	Foundation	2023	Mitigated	On-site	Off-Road	0.09089
5	Building Construction	2023	Mitigated	On-site	Off-Road	0.04146
5	Building Construction	2024	Mitigated	On-site	Off-Road	0.13808
5	Building Construction	2025	Mitigated	On-site	Off-Road	0.01347
6	Architectural Coating	2024	Mitigated	On-site	Off-Road	0.00399
6	Architectural Coating	2025	Mitigated	On-site	Off-Road	0.0009
7	Paving	2025	Mitigated	On-site	Off-Road	0.00413

Annual Totals (tons)

Daily Max to Annual Ratio	80%	
Year	**Totals (tons/year)**	
2021	0.0036	
2022	0.0970	
2023	0.1073	
2024	0.1137	
2025	0.0148	
Total	0.3363	

Construction Duration (years)	3.2	32-months
Hours per Day	8	
Seconds per Day	28,800	
Construction Duration (seconds)	33,291,504	
Annual Average Emission Rate (g/s)	**0.0092**	

1360 Vine

Emergency Generator - Emissions Calculations

CalEEMod Output

Equipment Type	Exhaust PM10 (lbs/year)	
Emergency Generator - Diesel (HP Rating)	300	
Load Factor	0.73	CalEEMod Default
Hours per year	200	Likely permitted hours (SCAQMD Rule 1470)
Emission Factor (g/hp-hr)	0.01	Adjusted based on new SCAQMD Rule 1470 st
Emissions per Year (g)	438	
Days per Year	365	
Hours per Day	24	
Seconds per Year	31536000	
Emission Rate (g/s)	1.38889E-05	

Concentration Calculations

	East
Scaler Concentration (ug/m3)	4.18
Emission Rate (g/s)	1.39E-05
Actual Concentration (ug/m3)	5.81E-05

> Note: SCAQMD Rule 1470 was amended on October 1, 2021. Table 1 in SCAQMD Rule 1470 provides new PM emission standards for emergency generators located at sensitive receptors (e.g., residences) or within 50 meters from a sensiteve receptor.
> Engines between 175 hp and 750 hp have a limit of 0.01 g/bhp-hr. Therefore, the emission rate for the emergency generator was updated to account for the amended rule.

1360 Vine

Operational HRA (Residential with Restaurant) - On-site Truck Emissions

Diesel Particulate Emission Factors - T7 Single Truck (EMFAC2021 - Year 2026)

Speed	g/mi	
5	0.0098	Idle emission factor
15	0.0067	On-site travel emission factor. T8 Tractor

Emissions Calculations (Loading Docks)

Land Use	TSF	Truck Trips/TSF	Truck Trips
Housing	415.433	0.011	4.6
Commercial	68.988	0.324	22.4
Total	484.421		27

National Cooperative Highway Research Program (NCHRP) Synthesis 298 Truck Trip Generation Data, 2001, http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_298.pdf.

Transportation Northwest, Truck Trip Generation by Grocery Stores, Final Report TNW2010-04,

Parameter	Loading Dock	
Average Trucks per Day	**27**	
Days per Year	312	6 days per week
Trucks per Year	8,424	
Idle time per Truck (min)	15	5 minutes x 3 (enter, loadi
Idle time per Truck (hrs)	0.25	
Idle time per year (hrs)	2106	
Idle Emission Factor (g/hr)	0.0098	
Idle emissions per year (g)	20.72	
Annual Idle emission rate (g/s)	**1.97E-06**	8-hour operation

Transportation Refrigeration Unit (TRU)

Emission Rate (g/hr)	0.43	See TRU Emission Factor (
TRU Operation Time per Truck (hrs)	2	Duration of time at loadin
Daily Number of Trucks with TRU	**6**	
Total Annual TRU Hours	3754	6 days per week operation
Total Annual TRU Emissions (g)	1600.0	
Annual TRU Emission Rate (g/s)	**1.52E-04**	8-hour operation
Total Emission Rate (g/s)	**1.54E-04**	AERMOD Input - Idle + Tra

Concentration Calculations

Loading Dock

Scaler Concentration (ug/m3)	8.68
Emission Rate (g/s)	1.54E-04
Actual Concentration (ug/m3)	1.34E-03

1360 Vine
Operational HRA (Residential) - On-site Truck Emissions

Diesel Particulate Emission Factors - T7 Single Truck (EMFAC2021 - Year 2026)

Speed	g/mi	
5	0.0098	Idle emission factor
15	0.0067	On-site travel emission factor. T8 Tractor

Emissions Calculations (Loading Docks)

Land Use	TSF	Truck Trips/TSF	Truck Trips
Housing (429 DU)	424.421	0.011	4.7
Commercial	60	0.324	19.4
Total	484.421		25

> *National Cooperative Highway Research Program (NCHRP) Synthesis 298 Truck Trip Generation Data, 2001, http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_298.pdf.*
>
> *Transportation Northwest, Truck Trip Generation by Grocery Stores, Final Report TNW2010-04,*

Parameter	Loading Dock	
Average Trucks per Day	**25**	
Days per Year	312	6 days per week
Trucks per Year	7,800	
Idle time per Truck (min)	15	5 minutes x 3 (enter, loadi
Idle time per Truck (hrs)	0.25	
Idle time per year (hrs)	1950	
Idle Emission Factor (g/hr)	0.0098	
Idle emissions per year (g)	19.19	
Annual Idle emission rate (g/s)	**1.83E-06**	8-hour operation

Transportation Refrigeration Unit (TRU)

Emission Rate (g/hr)	0.43	See TRU Emission Factor (
TRU Operation Time per Truck (hrs)	2	Duration of time at loadin
Daily Number of Trucks with TRU	**5**	
Total Annual TRU Hours	3129	6 days per week operation
Total Annual TRU Emissions (g)	1333.4	
Annual TRU Emission Rate (g/s)	**1.27E-04**	8-hour operation
Total Emission Rate (g/s)	**1.29E-04**	AERMOD Input - Idle + Tra

Concentration Calculations

Loading Dock

Scaler Concentration (ug/m3)	8.68
Emission Rate (g/s)	1.29E-04
Actual Concentration (ug/m3)	1.12E-03

1360 Vine

Operational HRA (Office with Residential) - On-site Truck Emissions

Diesel Particulate Emission Factors - T7 Single Truck (EMFAC2021 - Year 2026)

Speed	g/mi	
5	0.0098	Idle emission factor
15	0.0067	On-site travel emission factor. T8 Tractor

Emissions Calculations (Loading Docks)

Land Use	TSF	Truck Trips/TSF	Truck Trips
Office and Hotel	463.521	0.039	18.1
Commercial	11.914	0.324	3.9
Housing (9 DU)	8.988	0.011	0.1
Total	475.435		23

National Cooperative Highway Research Program (NCHRP) Synthesis 298 Truck Trip Generation Data, 2001, http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_298.pdf.

Transportation Northwest, Truck Trip Generation by Grocery Stores, Final Report TNW2010-04,

Parameter	Loading Dock	
Average Trucks per Day	**23**	
Days per Year	312	6 days per week
Trucks per Year	7,176	
Idle time per Truck (min)	15	5 minutes x 3 (enter, loadi
Idle time per Truck (hrs)	0.25	
Idle time per year (hrs)	1794	
Idle Emission Factor (g/hr)	0.0098	
Idle emissions per year (g)	17.65	
Annual Idle emission rate (g/s)	**1.68E-06**	8-hour operation
Transportation Refrigeration Unit (TRU)		
Emission Rate (g/hr)	0.43	See TRU Emission Factor (
TRU Operation Time per Truck (hrs)	2	Duration of time at loading
Daily Number of Trucks with TRU	**2**	
Total Annual TRU Hours	1251	6 days per week operation
Total Annual TRU Emissions (g)	533.3	
Annual TRU Emission Rate (g/s)	**5.07E-05**	8-hour operation
Total Emission Rate (g/s)	**5.24E-05**	AERMOD Input - Idle + Tra

Concentration Calculations

Loading Dock		
Scaler Concentration (ug/m3)	8.68	
Emission Rate (g/s)	5.24E-05	
Actual Concentration (ug/m3)	4.55E-04	

1360 Vine
Operational HRA (Office with Restaurant) - On-site Truck Emissions

Diesel Particulate Emission Factors - T7 Single Truck (EMFAC2021 - Year 2026)

Speed	g/mi	
5	0.0098	Idle emission factor
15	0.0067	On-site travel emission factor. T8 Tractor

Emissions Calculations (Loading Docks)

Land Use	TSF	Truck Trips/TSF	Truck Trips
Office and Hotel	463.521	0.039	18.1
Commercial	20.902	0.324	6.8
Total	484.423		25

> *National Cooperative Highway Research Program (NCHRP) Synthesis 298 Truck Trip Generation Data, 2001, http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_298.pdf.*
>
> *Transportation Northwest, Truck Trip Generation by Grocery Stores, Final Report TNW2010-04,*

Parameter	Loading Dock	
Average Trucks per Day	**25**	
Days per Year	312	6 days per week
Trucks per Year	7,800	
Idle time per Truck (min)	15	5 minutes x 3 (enter, loadi
Idle time per Truck (hrs)	0.25	
Idle time per year (hrs)	1950	
Idle Emission Factor (g/hr)	0.0098	
Idle emissions per year (g)	19.19	
Annual Idle emission rate (g/s)	**1.83E-06**	8-hour operation

Transportation Refrigeration Unit (TRU)

Emission Rate (g/hr)	0.43	See TRU Emission Factor (
TRU Operation Time per Truck (hrs)	2	Duration of time at loadinξ
Daily Number of Trucks with TRU	**1**	
Total Annual TRU Hours	626	6 days per week operation
Total Annual TRU Emissions (g)	266.7	
Annual TRU Emission Rate (g/s)	**2.54E-05**	8-hour operation
Total Emission Rate (g/s)	**2.72E-05**	AERMOD Input - Idle + Tra

Concentration Calculations

Loading Dock

Scaler Concentration (ug/m3)	8.68
Emission Rate (g/s)	2.72E-05
Actual Concentration (ug/m3)	2.36E-04

CalEEMod Version: CalEEMod.2016.3.2

Date: 10/12/2023 10:11 AM

1360 N.Vine-Residential Option (Onsite) - Los Angeles-South Coast County, Annual

1360 N.Vine-Residential Option (Onsite)
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	1.00	User Defined Unit	0.00	0.00	0
Enclosed Parking with Elevator	764.00	Space	6.88	305,600.00	0
Apartments High Rise	417.00	Dwelling Unit	6.73	415,433.00	1193
Single Family Housing	12.00	Dwelling Unit	3.90	8,998.00	34
Strip Mall	5.00	1000sqft	0.11	5,000.00	0
Supermarket	55.00	1000sqft	1.26	55,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2025

Utility Company   Los Angeles Department of Water & Power

CO2 Intensity (lb/MWhr)	616	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP SB100 Carbon Intensity (Year 2025) - 616 lbs/MWh

Land Use - User Defined Commercial = Project VMT

Construction Phase - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Trips and VMT - Site Specific. Haul truck trips were included in vendor as peak daily. The vehicle class was modified to be HHDT with a one-way trip distance of 15.8 miles (Scholl Canyon Landfill)

Demolition -

Grading -

Architectural Coating -

Woodstoves - No Hearth

Area Coating -

Energy Use - see assumptions

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation - City of LA Waste Diversion Rate 76.4%

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	87.00
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tblConstructionPhase	NumDays	300.00	635.00
tblConstructionPhase	NumDays	20.00	54.00
tblConstructionPhase	NumDays	30.00	168.00
tblConstructionPhase	NumDays	20.00	27.00
tblConstructionPhase	NumDays	10.00	131.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	T24E	3.92	0.46
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	354.45	0.00
tblFireplaces	NumberNoFireplace	41.70	0.00
tblFireplaces	NumberWood	20.85	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.21	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	6.2720e-003	0.00
tblFleetMix	MCY	5.2390e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	8.4100e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	2.5720e-003	0.00
tblFleetMix	SBUS	7.0000e-004	0.00
tblFleetMix	UBUS	1.9840e-003	0.00
tblGrading	MaterialExported	0.00	142,000.00
tblLandUse	LandUseSquareFeet	417,000.00	415,433.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	616
tblSolidWaste	SolidWasteGenerationRate	191.82	197.34
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	300.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
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tblTripsAndVMT	HaulingTripLength	20.00	0.10
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tblTripsAndVMT	HaulingTripLength	20.00	0.10
tblTripsAndVMT	HaulingTripLength	20.00	0.10
tblTripsAndVMT	HaulingTripLength	20.00	0.10
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tblTripsAndVMT	VendorTripLength	6.90	0.10
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	170.00
tblTripsAndVMT	VendorTripNumber	106.00	175.00
tblTripsAndVMT	VendorTripNumber	0.00	100.00
tblTripsAndVMT	VendorTripNumber	106.00	30.00
tblTripsAndVMT	VendorTripNumber	0.00	30.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	WorkerTripLength	14.70	0.10
tblTripsAndVMT	WorkerTripLength	14.70	0.10

tblTripsAndVMT	WorkerTripLength	14.70	0.10
tblTripsAndVMT	WorkerTripLength	14.70	0.10
tblTripsAndVMT	WorkerTripLength	14.70	0.10
tblTripsAndVMT	WorkerTripLength	14.70	0.10
tblTripsAndVMT	WorkerTripLength	14.70	0.10
tblTripsAndVMT	WorkerTripNumber	13.00	25.00
tblTripsAndVMT	WorkerTripNumber	15.00	75.00
tblTripsAndVMT	WorkerTripNumber	452.00	25.00
tblTripsAndVMT	WorkerTripNumber	38.00	175.00
tblTripsAndVMT	WorkerTripNumber	452.00	500.00
tblTripsAndVMT	WorkerTripNumber	90.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	50.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	6.32
tblVehicleTrips	CC_TTP	64.40	0.00
tblVehicleTrips	CC_TTP	74.50	0.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	16.60	0.00
tblVehicleTrips	CW_TTP	6.50	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	DV_TP	30.00	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HW_TL	14.70	0.00
tblVehicleTrips	HW_TTP	40.20	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PB_TP	36.00	0.00
tblVehicleTrips	PR_TP	86.00	0.00
tblVehicleTrips	PR_TP	45.00	0.00
tblVehicleTrips	PR_TP	34.00	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	4.98	0.00

tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	ST_TR	0.00	4,911.00
tblVehicleTrips	SU_TR	3.65	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	SU_TR	0.00	4,911.00
tblVehicleTrips	WD_TR	4.20	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblVehicleTrips	WD_TR	102.24	0.00
tblVehicleTrips	WD_TR	0.00	4,911.00
tblWater	IndoorWaterUseRate	27,169,228.68	27,951,076.99
tblWater	OutdoorWaterUseRate	17,128,426.78	17,621,331.15
tblWoodstoves	NumberCatalytic	20.85	0.00
tblWoodstoves	NumberNoncatalytic	20.85	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction
<u>Unmitigated Construction</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year						tons/yr							MT/yr			
2021						4.5100e-003	9.3100e-003									
2022						0.1135	0.1387									
2023						0.1535	0.1604									
2024						0.1380	0.1452									
2025						0.0176	0.0185									
Maximum						**0.1535**	**0.1604**									

<u>Mitigated Construction</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year						tons/yr							MT/yr			
2021						4.5100e-003	6.4000e-003									
2022						0.1135	0.1254									
2023						0.1535	0.1604									

10/20/2023 3:45 PM

2024						0.1380	0.1452								
2025						0.0176	0.0185								
Maximum						**0.1535**	**0.1604**								

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	3.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Area						0.0360	0.0360									
Energy						0.0201	0.0201									
Mobile						0.0378	4.4499									
Stationary						4.3000e-004	4.3000e-004									
Waste						0.0000	0.0000									
Water						0.0000	0.0000									
Total						**0.0943**	**4.5064**									

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Area						0.0360	0.0360									
Energy						0.0191	0.0191									
Mobile						0.0378	4.4499									
Stationary						4.3000e-004	4.3000e-004									
Waste						0.0000	0.0000									
Water						0.0000	0.0000									
Total						**0.0933**	**4.5054**									

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	1.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/16/2021	2/16/2022	6	54	
2	Grading	Grading	2/17/2022	8/31/2022	6	168	
3	Mat Foundation	Building Construction	9/1/2022	9/6/2022	6	4	
4	Foundation	Site Preparation	9/7/2022	1/31/2023	6	131	
5	Building Construction	Building Construction	2/1/2023	2/10/2025	6	635	
6	Architectural Coating	Architectural Coating	11/1/2024	2/10/2025	6	87	
7	Paving	Paving	1/10/2025	2/10/2025	6	27	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 6.88

Residential Indoor: 859,473; Residential Outdoor: 286,491; Non-Residential Indoor: 90,000; Non-Residential Outdoor: 30,000; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	1	8.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Bore/Drill Rigs	1	8.00	221	0.50
Grading	Cranes	1	8.00	231	0.29
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Pumps	1	8.00	84	0.74
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Welders	1	8.00	46	0.45
Mat Foundation	Cement and Mortar Mixers	2	8.00	9	0.56
Mat Foundation	Cranes	1	8.00	231	0.29
Mat Foundation	Forklifts	0	8.00	89	0.20
Mat Foundation	Generator Sets	0	8.00	84	0.74
Mat Foundation	Pumps	4	8.00	84	0.74
Mat Foundation	Rubber Tired Dozers	0	8.00	247	0.40
Mat Foundation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Mat Foundation	Welders	1	8.00	46	0.45
Foundation	Cement and Mortar Mixers	2	8.00	9	0.56
Foundation	Concrete/Industrial Saws	1	8.00	81	0.73
Foundation	Cranes	1	8.00	231	0.29
Foundation	Forklifts	2	8.00	89	0.20

Foundation	Plate Compactors	4	8.00	8	0.43
Foundation	Pumps	1	8.00	84	0.74
Foundation	Rough Terrain Forklifts	2	8.00	100	0.40
Foundation	Rubber Tired Dozers	0	8.00	247	0.40
Foundation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Foundation	Welders	2	8.00	46	0.45
Building Construction	Aerial Lifts	3	8.00	63	0.31
Building Construction	Air Compressors	3	8.00	78	0.48
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Plate Compactors	2	8.00	8	0.43
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	0	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Skid Steer Loaders	2	8.00	65	0.37
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	25.00	20.00	0.00	0.10	0.10	0.10	LD_Mix	HHDT	HHDT
Grading	6	75.00	170.00	0.00	0.10	0.10	0.10	LD_Mix	HHDT	HHDT
Mat Foundation	9	25.00	175.00	0.00	0.10	0.10	0.10	LD_Mix	HHDT	HHDT
Foundation	15	175.00	100.00	0.00	0.10	0.10	0.10	LD_Mix	HHDT	HHDT
Building Construction	16	500.00	30.00	0.00	0.10	0.10	0.10	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	0.10	0.10	0.10	LD_Mix	HDT_Mix	HHDT
Paving	7	50.00	30.00	0.00	0.10	0.10	0.10	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category							tons/yr							MT/yr		
Fugitive Dust					0.0000	4.7700e-003										

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road						4.5100e-003	4.5100e-003									
Total						**4.5100e-003**	**9.2800e-003**									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling						0.0000	0.0000									
Vendor						1.0000e-005	2.0000e-005									
Worker						0.0000	2.0000e-005									
Total						**1.0000e-005**	**4.0000e-005**									

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Fugitive Dust						0.0000	1.8600e-003									
Off-Road						4.5100e-003	4.5100e-003									
Total						**4.5100e-003**	**6.3700e-003**									

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling						0.0000	0.0000									
Vendor						1.0000e-005	2.0000e-005									
Worker						0.0000	2.0000e-005									
Total						**1.0000e-005**	**4.0000e-005**									

3.2 Demolition - 2022

Unmitigated Construction On-Site

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

Category	tons/yr										MT/yr					
Fugitive Dust						0.0000	0.0136									
Off-Road						0.0107	0.0107									
Total						**0.0107**	**0.0244**									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						1.0000e-005	6.0000e-005									
Worker						0.0000	5.0000e-005									
Total						**1.0000e-005**	**1.1000e-004**									

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust						0.0000	5.3100e-003									
Off-Road						0.0107	0.0107									
Total						**0.0107**	**0.0160**									

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						1.0000e-005	6.0000e-005									
Worker						0.0000	5.0000e-005									
Total						**1.0000e-005**	**1.1000e-004**									

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust						0.0000	8.0300e-003									
Off-Road						0.0536	0.0536									
Total						**0.0536**	**0.0616**									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						5.3000e-004	2.0600e-003									
Worker						4.0000e-005	5.7000e-004									
Total						**5.7000e-004**	**2.6300e-003**									

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust						0.0000	3.1300e-003									
Off-Road						0.0536	0.0536									
Total						**0.0536**	**0.0567**									

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						5.3000e-004	2.0600e-003									
Worker						4.0000e-005	5.7000e-004									
Total						**5.7000e-004**	**2.6300e-003**									

3.4 Mat Foundation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						2.4500e-003	2.4500e-003									
Total						**2.4500e-003**	**2.4500e-003**									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						2.0000e-005	6.0000e-005									
Worker						0.0000	1.0000e-005									
Total						**2.0000e-005**	**7.0000e-005**									

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						2.4500e-003	2.4500e-003									
Total						**2.4500e-003**	**2.4500e-003**									

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						2.0000e-005	6.0000e-005									

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Worker						0.0000	1.0000e-005									
Total						**2.0000e-005**	**7.0000e-005**									

3.5 Foundation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust						0.0000	0.0000									
Off-Road						0.0459	0.0459									
Total						**0.0459**	**0.0459**									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						1.9000e-004	7.2000e-004									
Worker						6.0000e-005	8.0000e-004									
Total						**2.5000e-004**	**1.5200e-003**									

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust						0.0000	0.0000									
Off-Road						0.0459	0.0459									
Total						**0.0459**	**0.0459**									

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling						0.0000	0.0000									
Vendor						1.9000e-004	7.2000e-004									
Worker						6.0000e-005	8.0000e-004									
Total						**2.5000e-004**	**1.5200e-003**									

3.5 Foundation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Fugitive Dust						0.0000	0.0000									
Off-Road						0.0105	0.0105									
Total						**0.0105**	**0.0105**									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling						0.0000	0.0000									
Vendor						3.0000e-005	1.7000e-004									
Worker						2.0000e-005	2.1000e-004									
Total						**5.0000e-005**	**3.8000e-004**									

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Fugitive Dust						0.0000	0.0000									
Off-Road						0.0105	0.0105									
Total						**0.0105**	**0.0105**									

Mitigated Construction Off-Site

10/20/2023 3:45 PM

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						3.0000e-005	1.7000e-004									
Worker						2.0000e-005	2.1000e-004									
Total						**5.0000e-005**	**3.8000e-004**									

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						0.1424	0.1424									
Total						**0.1424**	**0.1424**									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						6.0000e-005	5.6000e-004									
Worker						4.8000e-004	6.5100e-003									
Total						**5.4000e-004**	**7.0700e-003**									

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						0.1424	0.1424									
Total						**0.1424**	**0.1424**									

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						6.0000e-005	5.6000e-004									
Worker						4.8000e-004	6.5100e-003									
Total						**5.4000e-004**	**7.0700e-003**									

3.6 Building Construction - 2024
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						0.1375	0.1375									
Total						**0.1375**	**0.1375**									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						6.0000e-005	6.1000e-004									
Worker						5.2000e-004	7.1400e-003									
Total						**5.8000e-004**	**7.7500e-003**									

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						0.1375	0.1375									
Total						**0.1375**	**0.1375**									

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						6.0000e-005	6.1000e-004									
Worker						5.2000e-004	7.1400e-003									
Total						**5.8000e-004**	**7.7500e-003**									

3.6 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						0.0134	0.0134									
Total						**0.0134**	**0.0134**									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						1.0000e-005	7.0000e-005									
Worker						6.0000e-005	7.9000e-004									
Total						**7.0000e-005**	**8.6000e-004**									

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Off-Road						0.0134	0.0134								
Total						**0.0134**	**0.0134**								

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling						0.0000	0.0000									
Vendor						1.0000e-005	7.0000e-005									
Worker						6.0000e-005	7.9000e-004									
Total						**7.0000e-005**	**8.6000e-004**									

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Archit. Coating						0.0000	0.0000									
Off-Road						0.0000	0.0000									
Total						**0.0000**	**0.0000**									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling						0.0000	0.0000									
Vendor						0.0000	0.0000									
Worker						0.0000	0.0000									
Total						**0.0000**	**0.0000**									

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating						0.0000	0.0000									
Off-Road						0.0000	0.0000									
Total						0.0000	0.0000									

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						0.0000	0.0000									
Worker						0.0000	0.0000									
Total						0.0000	0.0000									

3.7 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating						0.0000	0.0000									
Off-Road						0.0000	0.0000									
Total						0.0000	0.0000									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						0.0000	0.0000									
Worker						0.0000	0.0000									
Total						0.0000	0.0000									

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Archit. Coating						0.0000	0.0000									
Off-Road						0.0000	0.0000									
Total						**0.0000**	**0.0000**									

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Hauling						0.0000	0.0000									
Vendor						0.0000	0.0000									
Worker						0.0000	0.0000									
Total						**0.0000**	**0.0000**									

3.8 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Off-Road						4.1300e-003	4.1300e-003									
Paving						0.0000	0.0000									
Total						**4.1300e-003**	**4.1300e-003**									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Hauling						0.0000	0.0000									
Vendor						0.0000	5.0000e-005									
Worker						0.0000	6.0000e-005									

						Exhaust PM10	PM10 Total									
Total						0.0000	1.1000e-004									

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Off-Road						4.1300e-003	4.1300e-003									
Paving						0.0000	0.0000									
Total						**4.1300e-003**	**4.1300e-003**									

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Hauling						0.0000	0.0000									
Vendor						0.0000	5.0000e-005									
Worker						0.0000	6.0000e-005									
Total						**0.0000**	**1.1000e-004**									

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr								MT/yr		
Mitigated						0.0378	4.4499									
Unmitigated						0.0378	4.4499									

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		

Single Family Housing	114.24	118.92	103.44	387,388	387,388
Strip Mall	0.00	0.00	0.00		
Supermarket	0.00	0.00	0.00		
User Defined Commercial	4,911.00	4,911.00	4911.00	11,297,657	11,297,657
Total	5,025.24	5,029.92	5,014.44	11,685,045	11,685,045

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Supermarket	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
User Defined Commercial	0.00	6.32	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Enclosed Parking with Elevator	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Single Family Housing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Strip Mall	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Supermarket	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
User Defined Commercial	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Electricity Mitigated						0.0000	0.0000									
Electricity Unmitigated						0.0000	0.0000									
NaturalGas Mitigated						0.0191	0.0191									
NaturalGas Unmitigated						0.0201	0.0201									

5.2 Energy by Land Use - NaturalGas
Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr						tons/yr							MT/yr			

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Apartments High Rise	3.84346e+006						0.0143	0.0143									
Enclosed Parking with Elevator	0						0.0000	0.0000									
Single Family Housing	329955						1.2300e-003	1.2300e-003									
Strip Mall	8200						3.0000e-005	3.0000e-005									
Supermarket	1.21385e+006						4.5200e-003	4.5200e-003									
User Defined Commercial	0						0.0000	0.0000									
Total							**0.0201**	**0.0201**									

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr						tons/yr								MT/yr		
Apartments High Rise	3.66057e+006						0.0136	0.0136									
Enclosed Parking with Elevator	0						0.0000	0.0000									
Single Family Housing	302757						1.1300e-003	1.1300e-003									
Strip Mall	7625						3.0000e-005	3.0000e-005									
Supermarket	1.15979e+006						4.3200e-003	4.3200e-003									
User Defined Commercial	0						0.0000	0.0000									
Total							**0.0191**	**0.0191**									

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		MT/yr		
Apartments High Rise	1.65135e+006				
Enclosed Parking with Elevator	733440				
Single Family Housing	95708.5				
Strip Mall	67500				
Supermarket	2.05315e+006				
User Defined Commercial	0				
Total					

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr			MT/yr	
Apartments High Rise	1.64449e+006				
Enclosed Parking with Elevator	719382				
Single Family Housing	95455.4				
Strip Mall	65495				
Supermarket	2.02884e+006				
User Defined Commercial	0				
Total					

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Mitigated						0.0360	0.0360									
Unmitigated						0.0360	0.0360									

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					tons/yr								MT/yr			
Architectural Coating						0.0000	0.0000									
Consumer Products						0.0000	0.0000									
Hearth						0.0115	0.0115									
Landscaping						0.0246	0.0246									
Total						0.0360	0.0360									

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating						0.0000	0.0000									
Consumer Products						0.0000	0.0000									
Hearth						0.0115	0.0115									
Landscaping						0.0246	0.0246									
Total						**0.0360**	**0.0360**									

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				
Unmitigated				

7.2 Water by Land Use
Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	27.9511 / 17.6213				
Enclosed Parking with Elevator	0 / 0				
Single Family Housing	0.781848 / 0.492904				
Strip Mall	0.370363 / 0.226996				
Supermarket	6.77975 / 0.209683				
User Defined Commercial	0 / 0				
Total					

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	27.9511 / 17.6213				
Enclosed Parking with Elevator	0 / 0				
Single Family Housing	0.781848 / 0.492904				
Strip Mall	0.370363 / 0.226996				
Supermarket	6.77975 / 0.209683				
User Defined Commercial	0 / 0				
Total					

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				
Unmitigated				

8.2 Waste by Land Use
Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	197.34				
Enclosed Parking with Elevator	0				
Single Family Housing	13.94				
Strip Mall	5.25				
Supermarket	310.2				
User Defined Commercial	0				
Total					

Mitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
		MT/yr			
Apartments High Rise	46.5722				
Enclosed Parking with Elevator	0				
Single Family Housing	3.28984				
Strip Mall	1.239				
Supermarket	73.2072				
User Defined Commercial	0				
Total					

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	12	300	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

Equipment Type	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
					tons/yr								MT/yr			
Emergency Generator - Diesel (300 - 600 HP)					4.3000e-004	4.3000e-004										
Total					**4.3000e-004**	**4.3000e-004**										

11.0 Vegetation

CalEEMod Version: CalEEMod.2016.3.2

Date: 10/12/2023 11:00 AM

1360 N.Vine-Construction (Onsite) - Office Option - Los Angeles-South Coast County, Annual

1360 N.Vine-Construction (Onsite) - Office Option
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	463.52	1000sqft	10.64	463,521.00	0
User Defined Commercial	1.00	User Defined Unit	0.00	0.00	0
Enclosed Parking with Elevator	1,705.00	Space	15.34	682,000.00	0
Quality Restaurant	11.91	1000sqft	0.27	11,914.00	0
Single Family Housing	12.00	Dwelling Unit	3.90	8,998.00	34

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)** 33
Climate Zone	11			**Operational Year** 2025

Utility Company   Los Angeles Department of Water & Power

CO2 Intensity (lb/MWhr)	616	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP SB100 Carbon Intensity (Year 2025) - 616 lbs/MWh

Land Use - See Project Description

User Defined Commercial = Primary Trips

Construction Phase - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - see assumptions

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - see construction assumptions

Off-road Equipment - Site Specific

Trips and VMT - Site Specific. Haul truck trips were included in vendor as peak daily. The vehicle class was modified to be HHDT with a one-way trip distance of 15.8 miles (Scholl Canyon Landfill)

Demolition -

Grading - see assumptions

Architectural Coating -

Woodstoves - No Wood Burning Fireplaces

Area Coating -

Energy Use - Adjustments for parking energy

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation - City of LA Waste Diversion Rate of 76.4%

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	35.00	166.00
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tblConstructionPhase	NumDays	500.00	224.00
tblConstructionPhase	NumDays	500.00	432.00
tblConstructionPhase	NumDays	30.00	54.00
tblConstructionPhase	NumDays	45.00	264.00
tblConstructionPhase	NumDays	35.00	27.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
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tblEnergyUse	T24E	3.92	0.46
tblFleetMix	HHD	0.03	0.00
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tblFleetMix	LDT2	0.21	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	6.2720e-003	0.00
tblFleetMix	MCY	5.2390e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	8.4100e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	2.5720e-003	0.00
tblFleetMix	SBUS	7.0000e-004	0.00
tblFleetMix	UBUS	1.9840e-003	0.00
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tblLandUse	LandUseSquareFeet	463,520.00	463,521.00
tblLandUse	LandUseSquareFeet	11,910.00	11,914.00
tblLandUse	LandUseSquareFeet	21,600.00	8,998.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
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tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	616
tblTripsAndVMT	HaulingTripLength	20.00	0.10
tblTripsAndVMT	HaulingTripLength	20.00	0.10
tblTripsAndVMT	HaulingTripLength	20.00	0.10
tblTripsAndVMT	HaulingTripLength	20.00	0.10
tblTripsAndVMT	HaulingTripLength	20.00	0.10
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tblTripsAndVMT	VendorTripNumber	191.00	30.00
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tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
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tblTripsAndVMT	WorkerTripLength	14.70	0.10
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tblTripsAndVMT	WorkerTripLength	14.70	0.10
tblTripsAndVMT	WorkerTripLength	14.70	0.10
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tblTripsAndVMT	WorkerTripNumber	444.00	175.00
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tblTripsAndVMT	WorkerTripNumber	89.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	50.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	7.18
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CC_TTP	69.00	0.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
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tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
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tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	18.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
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2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

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

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
			tons/yr										MT/yr			
2021						4.5100e-003	9.3100e-003									
2022						0.1213	0.1566									
2023						0.1341	0.1390									
2024						0.1420	0.1492									
2025						0.0185	0.0194									
Maximum						**0.1420**	**0.1566**									

Mitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
			tons/yr										MT/yr			
2021						4.5100e-003	6.4000e-003									
2022						0.1213	0.1372									
2023						0.1341	0.1390									
2024						0.1420	0.1492									
2025						0.0185	0.0194									
Maximum						**0.1420**	**0.1492**									

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	4.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
			tons/yr										MT/yr			
Area						0.0122	0.0122									
Energy						0.0295	0.0295									
Mobile						0.0304	3.6603									
Stationary						4.3000e-004	4.3000e-004									
Waste						0.0000	0.0000									
Water						0.0000	0.0000									

					Fugitive PM10	Exhaust PM10	PM10 Total									
Total					0.0725	3.7024										

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Area					0.0122	0.0122										
Energy					0.0274	0.0274										
Mobile					0.0304	3.6603										
Stationary					4.3000e-004	4.3000e-004										
Waste					0.0000	0.0000										
Water					0.0000	0.0000										
Total					0.0705	3.7004										

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	2.79	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/16/2021	2/16/2022	6	54	
2	Grading	Grading	2/17/2022	12/21/2022	6	264	
3	Mat Foundation	Building Construction	1/3/2023	1/6/2023	6	4	
4	Building Foundation and Subgrade	Building Construction	1/7/2023	9/25/2023	6	224	
5	Building Construction	Building Construction	9/26/2023	2/10/2025	6	432	
6	Architectural Coating	Architectural Coating	8/1/2024	2/10/2025	6	166	
7	Paving	Paving	1/10/2025	2/10/2025	6	27	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 15.34

Residential Indoor: 18,221; Residential Outdoor: 6,074; Non-Residential Indoor: 713,153; Non-Residential Outdoor: 237,718; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	1	8.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36

Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Bore/Drill Rigs	1	8.00	221	0.50
Grading	Cranes	1	8.00	231	0.29
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Pumps	1	8.00	84	0.74
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Welders	1	8.00	46	0.45
Mat Foundation	Cement and Mortar Mixers	2	8.00	9	0.56
Mat Foundation	Cranes	1	8.00	231	0.29
Mat Foundation	Forklifts	0	8.00	89	0.20
Mat Foundation	Generator Sets	0	8.00	84	0.74
Mat Foundation	Pumps	4	8.00	84	0.74
Mat Foundation	Rubber Tired Dozers	0	8.00	247	0.40
Mat Foundation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Mat Foundation	Welders	1	8.00	46	0.45
Building Foundation and Subgrade	Cement and Mortar Mixers	2	8.00	9	0.56
Building Foundation and Subgrade	Concrete/Industrial Saws	1	8.00	81	0.73
Building Foundation and Subgrade	Cranes	1	8.00	231	0.29
Building Foundation and Subgrade	Forklifts	2	8.00	89	0.20
Building Foundation and Subgrade	Generator Sets	0	8.00	84	0.74
Building Foundation and Subgrade	Plate Compactors	4	8.00	8	0.43
Building Foundation and Subgrade	Pumps	1	8.00	84	0.74
Building Foundation and Subgrade	Rough Terrain Forklifts	2	8.00	100	0.40
Building Foundation and Subgrade	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Foundation and Subgrade	Welders	2	8.00	46	0.45
Building Construction	Aerial Lifts	3	8.00	63	0.31
Building Construction	Air Compressors	3	8.00	78	0.48
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Plate Compactors	2	8.00	8	0.43
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Skid Steer Loaders	2	8.00	65	0.37
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	25.00	20.00	0.00	0.10	0.10	0.10	LD_Mix	HHDT	HHDT
Grading	8	75.00	190.00	0.00	0.10	0.10	0.10	LD_Mix	HHDT	HHDT
Mat Foundation	9	25.00	175.00	0.00	0.10	0.10	0.10	LD_Mix	HHDT	HHDT
Building Foundation and Subgrade	15	175.00	100.00	0.00	0.10	0.10	0.10	LD_Mix	HDT_Mix	HHDT
Building Construction	16	500.00	30.00	0.00	0.10	0.10	0.10	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	0.10	0.10	0.10	LD_Mix	HDT_Mix	HHDT
Paving	7	50.00	30.00	0.00	0.10	0.10	0.10	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	4.7700e-003										
Off-Road					4.5100e-003	4.5100e-003										
Total					**4.5100e-003**	**9.2800e-003**										

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling					0.0000	0.0000										
Vendor					1.0000e-005	2.0000e-005										
Worker					0.0000	2.0000e-005										
Total					**1.0000e-005**	**4.0000e-005**										

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	1.8600e-003										

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road						4.5100e-003	4.5100e-003									
Total						**4.5100e-003**	**6.3700e-003**									

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Hauling						0.0000	0.0000									
Vendor						1.0000e-005	2.0000e-005									
Worker						0.0000	2.0000e-005									
Total						**1.0000e-005**	**4.0000e-005**									

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Fugitive Dust						0.0000	0.0136									
Off-Road						0.0107	0.0107									
Total						**0.0107**	**0.0244**									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Hauling						0.0000	0.0000									
Vendor						1.0000e-005	6.0000e-005									
Worker						0.0000	5.0000e-005									
Total						**1.0000e-005**	**1.1000e-004**									

Mitigated Construction On-Site

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

					Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust						0.0000	5.3100e-003									
Off-Road						0.0107	0.0107									
Total						**0.0107**	**0.0160**									

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						1.0000e-005	6.0000e-005									
Worker						0.0000	5.0000e-005									
Total						**1.0000e-005**	**1.1000e-004**									

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust						0.0000	0.0182									
Off-Road						0.1095	0.1095									
Total						**0.1095**	**0.1276**									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						9.4000e-004	3.6200e-003									
Worker						7.0000e-005	9.0000e-004									
Total						**1.0100e-003**	**4.5200e-003**									

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust						0.0000	7.0800e-003									
Off-Road						0.1095	0.1095									
Total						**0.1095**	**0.1166**									

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						9.4000e-004	3.6200e-003									
Worker						7.0000e-005	9.0000e-004									
Total						**1.0100e-003**	**4.5200e-003**									

3.4 Mat Foundation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						1.7200e-003	1.7200e-003									
Total						**1.7200e-003**	**1.7200e-003**									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						1.0000e-005	5.0000e-005									
Worker						0.0000	0.0000									
Total						**1.0000e-005**	**5.0000e-005**									

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						1.7200e-003	1.7200e-003									
Total						**1.7200e-003**	**1.7200e-003**									

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						1.0000e-005	5.0000e-005									
Worker						0.0000	0.0000									
Total						**1.0000e-005**	**5.0000e-005**									

3.5 Building Foundation and Subgrade - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						0.0906	0.0906									
Total						**0.0906**	**0.0906**									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						1.6000e-004	1.4700e-003									

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Worker						1.3000e-004	1.7800e-003									
Total						**2.9000e-004**	**3.2500e-003**									

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category							tons/yr							MT/yr		
Off-Road						0.0906	0.0906									
Total						**0.0906**	**0.0906**									

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category							tons/yr							MT/yr		
Hauling						0.0000	0.0000									
Vendor						1.6000e-004	1.4700e-003									
Worker						1.3000e-004	1.7800e-003									
Total						**2.9000e-004**	**3.2500e-003**									

3.6 Building Construction - 2023
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category							tons/yr							MT/yr		
Off-Road						0.0413	0.0413									
Total						**0.0413**	**0.0413**									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category							tons/yr							MT/yr		

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Hauling						0.0000	0.0000									
Vendor						2.0000e-005	1.6000e-004									
Worker						1.4000e-004	1.8900e-003									
Total						**1.6000e-004**	**2.0500e-003**									

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						0.0413	0.0413									
Total						**0.0413**	**0.0413**									

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						2.0000e-005	1.6000e-004									
Worker						1.4000e-004	1.8900e-003									
Total						**1.6000e-004**	**2.0500e-003**									

3.6 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						0.1375	0.1375									
Total						**0.1375**	**0.1375**									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						6.0000e-005	6.1000e-004									
Worker						5.2000e-004	7.1400e-003									
Total						**5.8000e-004**	**7.7500e-003**									

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						0.1375	0.1375									
Total						**0.1375**	**0.1375**									

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						6.0000e-005	6.1000e-004									
Worker						5.2000e-004	7.1400e-003									
Total						**5.8000e-004**	**7.7500e-003**									

3.6 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						0.0134	0.0134									
Total						**0.0134**	**0.0134**									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Hauling						0.0000	0.0000									
Vendor						1.0000e-005	7.0000e-005									
Worker						6.0000e-005	7.9000e-004									
Total						**7.0000e-005**	**8.6000e-004**									

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Off-Road						0.0134	0.0134									
Total						**0.0134**	**0.0134**									

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Hauling						0.0000	0.0000									
Vendor						1.0000e-005	7.0000e-005									
Worker						6.0000e-005	7.9000e-004									
Total						**7.0000e-005**	**8.6000e-004**									

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Archit. Coating						0.0000	0.0000									
Off-Road						3.9900e-003	3.9900e-003									

					Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Total						3.9900e-003	3.9900e-003									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						0.0000	0.0000									
Worker						0.0000	0.0000									
Total						**0.0000**	**0.0000**									

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating						0.0000	0.0000									
Off-Road						3.9900e-003	3.9900e-003									
Total						**3.9900e-003**	**3.9900e-003**									

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						0.0000	0.0000									
Worker						0.0000	0.0000									
Total						**0.0000**	**0.0000**									

3.7 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating						0.0000	0.0000									
Off-Road						9.0000e-004	9.0000e-004									
Total						**9.0000e-004**	**9.0000e-004**									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling						0.0000	0.0000									
Vendor						0.0000	0.0000									
Worker						0.0000	0.0000									
Total						**0.0000**	**0.0000**									

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Archit. Coating						0.0000	0.0000									
Off-Road						9.0000e-004	9.0000e-004									
Total						**9.0000e-004**	**9.0000e-004**									

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category						tons/yr							MT/yr			
Hauling						0.0000	0.0000									
Vendor						0.0000	0.0000									
Worker						0.0000	0.0000									
Total						**0.0000**	**0.0000**									

3.8 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						4.1300e-003	4.1300e-003									
Paving						0.0000	0.0000									
Total						**4.1300e-003**	**4.1300e-003**									

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						0.0000	5.0000e-005									
Worker						0.0000	6.0000e-005									
Total						**0.0000**	**1.1000e-004**									

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						4.1300e-003	4.1300e-003									
Paving						0.0000	0.0000									
Total						**4.1300e-003**	**4.1300e-003**									

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									
Vendor						0.0000	5.0000e-005									
Worker						0.0000	6.0000e-005									
Total						**0.0000**	**1.1000e-004**									

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Mitigated						0.0304	3.6603									
Unmitigated						0.0304	3.6603									

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Single Family Housing	114.24	118.92	103.44	387,388	387,388
User Defined Commercial	3,534.00	3,534.00	3534.00	9,236,180	9,236,180
Total	3,648.24	3,652.92	3,637.44	9,623,568	9,623,568

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Quality Restaurant	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
User Defined Commercial	0.00	7.18	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Enclosed Parking with Elevator	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
General Office Building	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
Quality Restaurant	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841
User Defined Commercial	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons/yr								MT/yr			
Electricity Mitigated						0.0000	0.0000									
Electricity Unmitigated						0.0000	0.0000									
NaturalGas Mitigated						0.0274	0.0274									
NaturalGas Unmitigated						0.0295	0.0295									

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					tons/yr								MT/yr			
Enclosed Parking with Elevator	0						0.0000	0.0000									
General Office Building	4.82525e+006						0.0180	0.0180									
Quality Restaurant	2.74927e+006						0.0102	0.0102									
Single Family Housing	329955						1.2300e-003	1.2300e-003									
User Defined Commercial	0						0.0000	0.0000									
Total							**0.0295**	**0.0295**									

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					tons/yr								MT/yr			
Enclosed Parking with Elevator	0						0.0000	0.0000									
General Office Building	4.36081e+006						0.0163	0.0163									
Quality Restaurant	2.69807e+006						0.0101	0.0101									
Single Family Housing	302757						1.1300e-003	1.1300e-003									
User Defined Commercial	0						0.0000	0.0000									
Total							**0.0274**	**0.0274**									

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Enclosed Parking with Elevator	2.03236e+006				
General Office Building	6.02114e+006				
Quality Restaurant	525884				
Single Family Housing	95708.5				
User Defined Commercial	0				
Total					

Mitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Enclosed Parking with Elevator	2.00099e+006				
General Office Building	5.80792e+006				
Quality Restaurant	516222				
Single Family Housing	95455.4				
User Defined Commercial	0				
Total					

6.0 Area Detail

6.1 Mitigation Measures Area

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Mitigated						0.0122	0.0122									
Unmitigated						0.0122	0.0122									

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating						0.0000	0.0000									
Consumer Products						0.0000	0.0000									
Hearth						0.0115	0.0115									
Landscaping						7.8000e-004	7.8000e-004									
Total						**0.0122**	**0.0122**									

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating						0.0000	0.0000									
Consumer Products						0.0000	0.0000									
Hearth						0.0115	0.0115									
Landscaping						7.8000e-004	7.8000e-004									
Total						**0.0122**	**0.0122**									

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				
Unmitigated				

7.2 Water by Land Use
Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

Land Use				
Enclosed Parking with Elevator	0 / 0			
General Office Building	82.3831 / 50.4929			
Quality Restaurant	3.61509 / 0.23075			
Single Family Housing	0.781848 / 0.492904			
User Defined Commercial	0 / 0			
Total				

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0				
General Office Building	82.3831 / 50.4929				
Quality Restaurant	3.61509 / 0.23075				
Single Family Housing	0.781848 / 0.492904				
User Defined Commercial	0 / 0				
Total					

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				
Unmitigated				

8.2 Waste by Land Use
Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			

Land Use				
Enclosed Parking with Elevator	0			
General Office Building	431.07			
Quality Restaurant	10.87			
Single Family Housing	13.94			
User Defined Commercial	0			
Total				

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		MT/yr		
Enclosed Parking with Elevator	0				
General Office Building	101.733				
Quality Restaurant	2.56532				
Single Family Housing	3.28984				
User Defined Commercial	0				
Total					

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	12	300	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type						tons/yr							MT/yr			
Emergency Generator - Diesel (300 - 600 HP)					4.3000e-004	4.3000e-004										

Total						4.3000e-004	4.3000e-004								

11.0 Vegetation

Appendix B
Carcinogenic and Non-Carcinogenic Risk Calculations

1360 Vine - Health Risk Assessment
Cancer Risk Calculations

Residential Receptor - 70 year Exposure Duration

Diesel Particulate Matter Emission Rate Calculation / Scaler Construction Operations

	Year -->	2023-2025	2025-2092
Average Annual Emission Rate (g/s)[a]		9.31E-03	-
Scaler Concentration (ug/m3)[b]		37.97	-
Diesel Particulate Concentration (ug/m3)		0.354	1.40E-03

Cancer Risk Calculations - DPM

Parameter	2023-2025	2025-2092	Total
Breathing Rate	393	393	
Exposure Frequency (EF)	350	350	
Exposure Duration (ED) (years)	**3.17**	**66.83**	**70**
AT	25550	25550	
70-Year (Lifetime) Concentration (ug/m3)	3.54E-01	1.40E-03	
70-Year (Lifetime) Dose (mg/kg-d)	1.33E-04	5.26E-07	
Carcinogen Potency (CPF) (mg/kg-d)$^{-1}$			
- Diesel Particulate Matter	1.1	1.1	
Cancer Risk	6.63E-06	5.53E-07	7.18E-06
Risk per Million (DPM)	**6.6**	**0.55**	**7.2**

[a] Emissions based on a 4-year average

[b] Scaler concentration based on an AERMOD emission rate of 1 g/s, 8-hours per day

Chronic Risk Calculations - DPM

Receptor	Annual Concentration (ug/m3)	Chronic Inhalation REL (ug/m3)	Chronic Risk (HI)
Residential	3.5E-01	5	7.1E-02

Appendix C

AERMOD Source Receptor Configuration and Output File

PROJECT TITLE:
1360 N. Vine HRA - Construction

COMMENTS:

SOURCES:
3

COMPANY NAME:

RECEPTORS:
379

MODELER:

OUTPUT TYPE:
Concentration

SCALE: 1:1,669

0 ▬▬▬▬ 0.05 km

MAX:
38.0 ug/m^3

DATE:
10/23/2023

PROJECT NO.:

AERMOD View - Lakes Environmental Software

C:\Users\M.McPherson\Desktop\1360 Vine v2\1360 Vine v2.isc
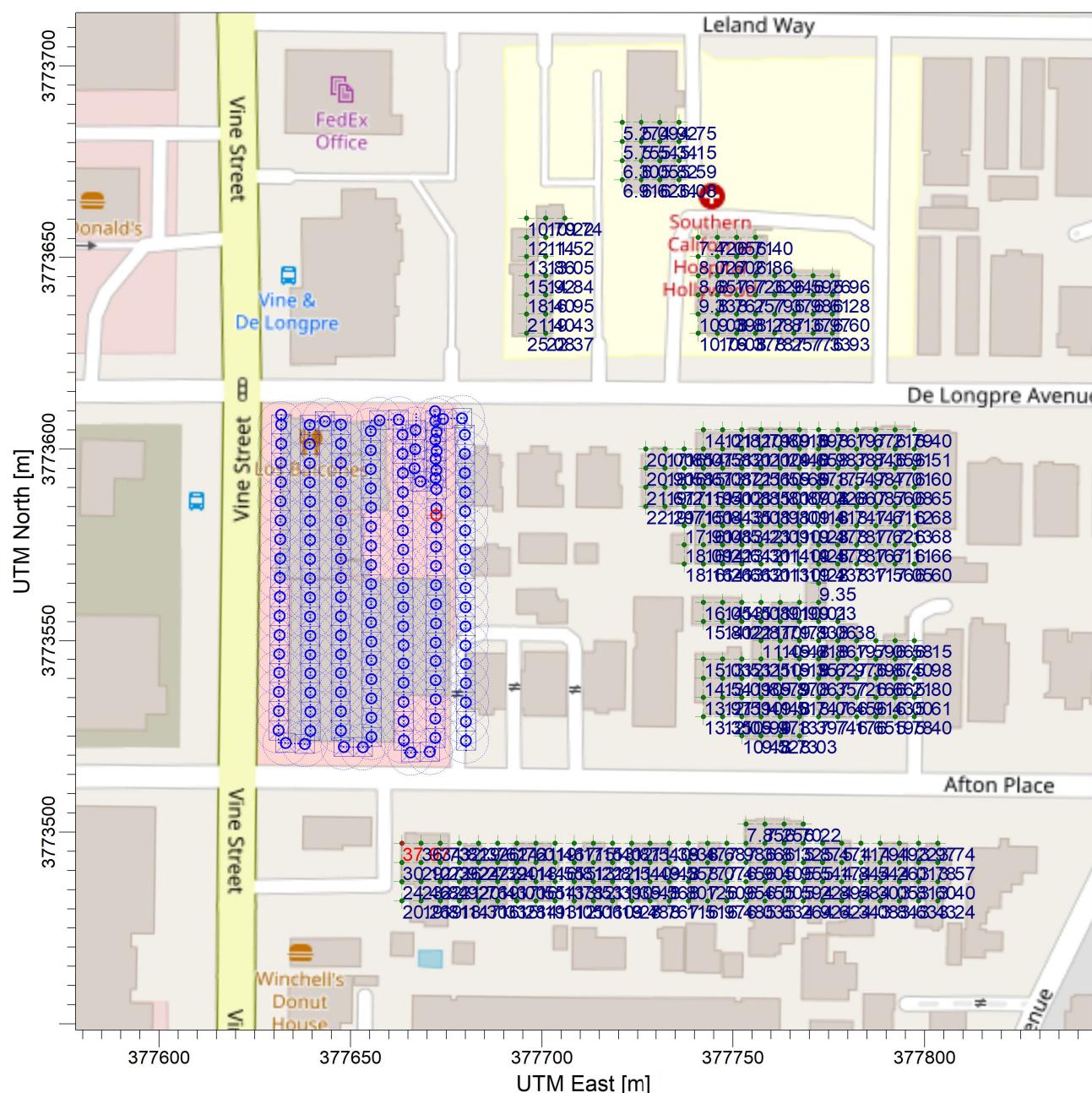
PROJECT TITLE:

1360 N. Vine HRA - Emergency Generator

COMMENTS:	SOURCES:	COMPANY NAME:	
	3		
	RECEPTORS:	MODELER:	
	379		
	OUTPUT TYPE:	SCALE: 1:1,666	
	Concentration	0 ⊢━━━━┤ 0.05 km	
	MAX:	DATE:	PROJECT NO.:
	10.17 ug/m^3	**10/23/2023**	

AERMOD View - Lakes Environmental Software   C:\Users\M.McPherson\Desktop\1360 Vine v2\1360 Vine v2.isc

PROJECT TITLE:

1360 N. Vine HRA - Loading Dock

COMMENTS:	SOURCES:	COMPANY NAME:	
	3		
	RECEPTORS:	MODELER:	
	379		
	OUTPUT TYPE:	SCALE:	
	Concentration	1:1,666 0 ⊢▬▬▬⊣ 0.05 km	
	MAX:	DATE:	PROJECT NO.:
	73.5 ug/m^3	**10/23/2023**	

```
** Lakes Environmental AERMOD MPI                                  LOCATION L0025470      VOLUME    377631.731 3773591.491 102.42
**                                                                 LOCATION L0025471      VOLUME    377631.690 3773586.491 102.31
****************************************                            LOCATION L0025472      VOLUME    377631.650 3773581.491 102.21
**                                                                 LOCATION L0025473      VOLUME    377631.610 3773576.491 102.11
** AERMOD Input Produced by:                                       LOCATION L0025474      VOLUME    377631.569 3773571.491 102.01
** AERMOD View Ver. 11.2.0                                         LOCATION L0025475      VOLUME    377631.529 3773566.491 101.90
** Lakes Environmental Software Inc.                               LOCATION L0025476      VOLUME    377631.488 3773561.492 101.80
** Date: 10/20/2023                                                LOCATION L0025477      VOLUME    377631.448 3773556.492 101.70
** File: C:\Users\M.McPherson\Desktop\1360 Vine v2\1360 Vine v2.ADI LOCATION L0025478     VOLUME    377631.407 3773551.492 101.60
**                                                                 LOCATION L0025479      VOLUME    377631.367 3773546.492 101.50
****************************************                            LOCATION L0025480      VOLUME    377631.326 3773541.492 101.39
**                                                                 LOCATION L0025481      VOLUME    377631.286 3773536.492 101.29
**                                                                 LOCATION L0025482      VOLUME    377631.246 3773531.493 101.19
****************************************                            LOCATION L0025483      VOLUME    377631.205 3773526.493 101.08
** AERMOD Control Pathway                                          LOCATION L0025484      VOLUME    377633.012 3773523.229 101.03
****************************************                            LOCATION L0025485      VOLUME    377638.004 3773522.960 101.09
**                                                                 LOCATION L0025486      VOLUME    377639.500 3773526.372 101.18
**                                                                 LOCATION L0025487      VOLUME    377639.488 3773531.372 101.29
CO STARTING                                                        LOCATION L0025488      VOLUME    377639.476 3773536.372 101.40
   TITLEONE C:\Users\M.McPherson\Desktop\1360 Vine v2\1360 Vine v2.isc LOCATION L0025489  VOLUME    377639.463 3773541.372 101.51
   MODELOPT DFAULT CONC                                            LOCATION L0025490      VOLUME    377639.451 3773546.372 101.62
   AVERTIME PERIOD                                                 LOCATION L0025491      VOLUME    377639.439 3773551.372 101.72
   URBANOPT 9818605                                                LOCATION L0025492      VOLUME    377639.426 3773556.372 101.83
   POLLUTID DPM                                                    LOCATION L0025493      VOLUME    377639.414 3773561.372 101.94
   RUNORNOT RUN                                                    LOCATION L0025494      VOLUME    377639.402 3773566.372 102.04
   ERRORFIL "1360 Vine v2.err"                                     LOCATION L0025495      VOLUME    377639.390 3773571.372 102.14
CO FINISHED                                                        LOCATION L0025496      VOLUME    377639.377 3773576.372 102.23
**                                                                 LOCATION L0025497      VOLUME    377639.365 3773581.372 102.33
****************************************                            LOCATION L0025498      VOLUME    377639.353 3773586.372 102.43
** AERMOD Source Pathway                                           LOCATION L0025499      VOLUME    377639.340 3773591.372 102.53
****************************************                            LOCATION L0025500      VOLUME    377639.328 3773596.372 102.60
**                                                                 LOCATION L0025501      VOLUME    377639.316 3773601.372 102.68
**                                                                 LOCATION L0025502      VOLUME    377639.303 3773606.372 102.75
SO STARTING                                                        LOCATION L0025503      VOLUME    377643.254 3773607.316 102.79
** Source Location **                                              LOCATION L0025504      VOLUME    377647.487 3773606.442 102.81
** Source ID - Type - X Coord. - Y Coord. **                       LOCATION L0025505      VOLUME    377647.483 3773601.442 102.76
** ------------------------------------------------------------------ LOCATION L0025506   VOLUME    377647.480 3773596.442 102.70
** Line Source Represented by Adjacent Volume Sources              LOCATION L0025507      VOLUME    377647.476 3773591.442 102.65
** LINE VOLUME Source ID = CONSTRUCTION                            LOCATION L0025508      VOLUME    377647.472 3773586.442 102.56
** DESCRSRC                                                        LOCATION L0025509      VOLUME    377647.468 3773581.442 102.46
** PREFIX                                                          LOCATION L0025510      VOLUME    377647.465 3773576.442 102.37
** Length of Side = 5.00                                           LOCATION L0025511      VOLUME    377647.461 3773571.442 102.27
** Configuration = Adjacent                                        LOCATION L0025512      VOLUME    377647.457 3773566.442 102.18
** Emission Rate = 1.0                                             LOCATION L0025513      VOLUME    377647.453 3773561.442 102.08
** Elevated                                                        LOCATION L0025514      VOLUME    377647.450 3773556.442 101.97
** Vertical Dimension = 5.00                                       LOCATION L0025515      VOLUME    377647.446 3773551.442 101.85
** SZINIT = 1.16                                                   LOCATION L0025516      VOLUME    377647.442 3773546.442 101.74
** Nodes = 14                                                      LOCATION L0025517      VOLUME    377647.438 3773541.442 101.62
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** 377631.179, 3773523.328, 101.11, 0.00, 2.33                     LOCATION L0025519      VOLUME    377647.431 3773531.442 101.39
** 377639.509, 3773522.879, 101.06, 0.00, 2.33                     LOCATION L0025520      VOLUME    377647.427 3773526.442 101.27
** 377639.301, 3773607.417, 102.79, 0.00, 2.33                     LOCATION L0025521      VOLUME    377648.174 3773522.183 101.18
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** 377647.424, 3773522.192, 100.98, 0.00, 2.33                     LOCATION L0025523      VOLUME    377655.447 3773524.805 101.33
** 377655.454, 3773522.086, 101.40, 0.00, 2.33                     LOCATION L0025524      VOLUME    377655.434 3773529.805 101.45
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** 377663.567, 3773607.779, 102.88, 0.00, 2.33                     LOCATION L0025526      VOLUME    377655.408 3773539.805 101.70
** 377663.869, 3773520.693, 101.34, 0.00, 2.33                     LOCATION L0025527      VOLUME    377655.395 3773544.805 101.82
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** 377672.455, 3773607.893, 102.86, 0.00, 2.33                     LOCATION L0025529      VOLUME    377655.369 3773554.805 102.07
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** 377680.141, 3773520.457, 101.20, 0.00, 2.33                     LOCATION L0025531      VOLUME    377655.343 3773564.805 102.28
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   LOCATION L0025468      VOLUME    377631.812 3773601.490 102.61   LOCATION L0025535      VOLUME    377655.291 3773584.805 102.65
   LOCATION L0025469      VOLUME    377631.771 3773596.490 102.51
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  LOCATION L0025541      VOLUME     377662.498 3773607.748 102.85
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** End of LINE VOLUME Source ID = CONSTRUCTION
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = LOADING
** DESCRSRC
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** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Elevated
** Vertical Dimension = 5.00
** SZINIT = 1.16
** Nodes = 4
** 377672.066, 3773609.935, 102.86, 3.66, 2.33
** 377672.242, 3773591.447, 102.66, 3.66, 2.33
** 377666.577, 3773591.675, 102.72, 3.66, 2.33
** 377667.111, 3773609.139, 102.88, 3.66, 2.33
** -----------------------------------------------------------------
  LOCATION L0012220      VOLUME     377672.090 3773607.435 102.80
  LOCATION L0012221      VOLUME     377672.138 3773602.435 102.77
  LOCATION L0012222      VOLUME     377672.185 3773597.435 102.75
  LOCATION L0012223      VOLUME     377672.233 3773592.435 102.72
  LOCATION L0012224      VOLUME     377668.234 3773591.608 102.74
  LOCATION L0012225      VOLUME     377666.680 3773595.016 102.77
  LOCATION L0012226      VOLUME     377666.832 3773600.013 102.79
  LOCATION L0012227      VOLUME     377666.985 3773605.011 102.81
** End of LINE VOLUME Source ID = LOADING
  LOCATION GENERATOR     POINT      377672.400  3773582.840      102.540
** Source Parameters **
** LINE VOLUME Source ID = CONSTRUCTION
  SRCPARAM L0025467      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025468      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025469      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025470      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025471      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025472      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025473      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025474      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025475      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025476      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025477      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025478      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025479      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025480      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025481      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025482      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025483      0.0076923077      0.00      2.33      1.16
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  SRCPARAM L0025487      0.0076923077      0.00      2.33      1.16
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  SRCPARAM L0025497      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025498      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025499      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025500      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025501      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025502      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025503      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025504      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025505      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025506      0.0076923077      0.00      2.33      1.16
  SRCPARAM L0025507      0.0076923077      0.00      2.33      1.16
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SRCPARAM L0025510    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025511    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025512    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025513    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025514    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025515    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025516    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025517    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025518    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025519    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025520    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025521    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025522    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025523    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025524    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025525    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025526    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025527    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025528    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025529    0.0076923077    0.00    2.33    1.16
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SRCPARAM L0025534    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025535    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025536    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025537    0.0076923077    0.00    2.33    1.16
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SRCPARAM L0025539    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025540    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025541    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025542    0.0076923077    0.00    2.33    1.16
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SRCPARAM L0025544    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025545    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025546    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025547    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025548    0.0076923077    0.00    2.33    1.16
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SRCPARAM L0025551    0.0076923077    0.00    2.33    1.16
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SRCPARAM L0025560    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025561    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025562    0.0076923077    0.00    2.33    1.16
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SRCPARAM L0025566    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025567    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025568    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025569    0.0076923077    0.00    2.33    1.16
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SRCPARAM L0025571    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025572    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025573    0.0076923077    0.00    2.33    1.16
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SRCPARAM L0025574    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025575    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025576    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025577    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025578    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025579    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025580    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025581    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025582    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025583    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025584    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025585    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025586    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025587    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025588    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025589    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025590    0.0076923077    0.00    2.33    1.16
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SRCPARAM L0025593    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025594    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025595    0.0076923077    0.00    2.33    1.16
SRCPARAM L0025596    0.0076923077    0.00    2.33    1.16
** ----------------------------------------------------------------
** LINE VOLUME Source ID = LOADING
SRCPARAM L0012220        0.125    3.66    2.33    1.16
SRCPARAM L0012221        0.125    3.66    2.33    1.16
SRCPARAM L0012222        0.125    3.66    2.33    1.16
SRCPARAM L0012223        0.125    3.66    2.33    1.16
SRCPARAM L0012224        0.125    3.66    2.33    1.16
SRCPARAM L0012225        0.125    3.66    2.33    1.16
SRCPARAM L0012226        0.125    3.66    2.33    1.16
SRCPARAM L0012227        0.125    3.66    2.33    1.16
** ----------------------------------------------------------------
SRCPARAM GENERATOR       1.0    3.658    768.150 15.9178729994454    0.3048
URBANSRC ALL

** Variable Emissions Type: "By Hour-of-Day (HROFDY)"
** Variable Emission Scenario: "Construction"
EMISFACT L0025467    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025467    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025467    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025467    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025468    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025468    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025468    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025468    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025469    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025469    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025469    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025469    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025470    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025470    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025470    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025470    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025471    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025471    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025471    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025471    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025472    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025472    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025472    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025472    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025473    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025473    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025473    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
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EMISFACT L0025473    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025490    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025474    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025490    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025474    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0          EMISFACT L0025490    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025474    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0          EMISFACT L0025491    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025474    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025491    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025475    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025491    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025475    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0          EMISFACT L0025492    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025475    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0          EMISFACT L0025492    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025475    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025492    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025476    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025492    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025476    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0          EMISFACT L0025493    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025476    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0          EMISFACT L0025493    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025476    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025493    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025477    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025493    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025477    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0          EMISFACT L0025494    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025477    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0          EMISFACT L0025494    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025477    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025494    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025478    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025494    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025478    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0          EMISFACT L0025495    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025478    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0          EMISFACT L0025495    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025478    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025495    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025479    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025495    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025479    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0          EMISFACT L0025496    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025479    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0          EMISFACT L0025496    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025479    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025496    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025480    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025496    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025480    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0          EMISFACT L0025497    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025480    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0          EMISFACT L0025497    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025480    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025497    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025481    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025497    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025481    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0          EMISFACT L0025498    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025481    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0          EMISFACT L0025498    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025481    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025498    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025482    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025498    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025482    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0          EMISFACT L0025499    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025482    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0          EMISFACT L0025499    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025482    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025499    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025483    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025499    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025483    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0          EMISFACT L0025500    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025483    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0          EMISFACT L0025500    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025483    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025500    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025484    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025500    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025484    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0          EMISFACT L0025501    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025484    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0          EMISFACT L0025501    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025484    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025501    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025485    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025501    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025485    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0          EMISFACT L0025502    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025485    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0          EMISFACT L0025502    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025485    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025502    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025486    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025502    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025486    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0          EMISFACT L0025503    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025486    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0          EMISFACT L0025503    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025486    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025503    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025487    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025503    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025487    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0          EMISFACT L0025504    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025487    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0          EMISFACT L0025504    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025487    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025504    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025488    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025504    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025488    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0          EMISFACT L0025505    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025488    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0          EMISFACT L0025505    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025488    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025505    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025489    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025505    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025489    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0          EMISFACT L0025506    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025489    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0          EMISFACT L0025506    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025489    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025506    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025490    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0025506    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025507    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0025539    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
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EMISFACT L0025552    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0          EMISFACT L0025569    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0025555    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025571    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025555    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0          EMISFACT L0025571    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025555    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0          EMISFACT L0025572    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025555    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025572    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025556    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0          EMISFACT L0025572    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
```

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EMISFACT L0025572    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025573    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025573    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025573    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025573    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025574    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025574    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025574    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025574    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025575    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025575    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025575    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025575    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025576    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025576    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025576    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025576    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025577    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025577    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025577    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025577    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025578    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025578    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025578    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025578    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025579    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025579    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025579    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025579    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025580    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025580    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025580    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025580    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025581    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025581    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025581    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025581    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025582    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025582    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025582    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025582    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025583    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025583    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025583    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025583    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025584    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025584    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025584    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025584    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025585    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025585    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025585    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025585    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025586    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025586    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025586    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025586    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025587    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025587    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025587    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025587    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025588    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025588    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025588    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025588    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025589    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0025589    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025589    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025589    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025590    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025590    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025590    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025590    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025591    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025591    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025591    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025591    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025592    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025592    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025592    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025592    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025593    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025593    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025593    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025593    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025594    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025594    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025594    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025594    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025595    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025595    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025595    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025595    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025596    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0025596    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0025596    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0025596    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0

** Variable Emissions Type: "By Hour-of-Day (HROFDY)"
** Variable Emission Scenario: "Operations (1)"
EMISFACT L0012220    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012220    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0012220    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0012220    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012221    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012221    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0012221    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0012221    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012222    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012222    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0012222    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0012222    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012223    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012223    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0012223    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0012223    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012224    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012224    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0012224    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0012224    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012225    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012225    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0012225    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0012225    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012226    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012226    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0012226    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0012226    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012227    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012227    HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0012227    HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0012227    HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
   EMISFACT GENERATOR     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT GENERATOR     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT GENERATOR     HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT GENERATOR     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP Construc L0025467 L0025468 L0025469 L0025470 L0025471 L0025472
   SRCGROUP Construc L0025473 L0025474 L0025475 L0025476 L0025477 L0025478
   SRCGROUP Construc L0025479 L0025480 L0025481 L0025482 L0025483 L0025484
   SRCGROUP Construc L0025485 L0025486 L0025487 L0025488 L0025489 L0025490
   SRCGROUP Construc L0025491 L0025492 L0025493 L0025494 L0025495 L0025496
   SRCGROUP Construc L0025497 L0025498 L0025499 L0025500 L0025501 L0025502
   SRCGROUP Construc L0025503 L0025504 L0025505 L0025506 L0025507 L0025508
   SRCGROUP Construc L0025509 L0025510 L0025511 L0025512 L0025513 L0025514
   SRCGROUP Construc L0025515 L0025516 L0025517 L0025518 L0025519 L0025520
   SRCGROUP Construc L0025521 L0025522 L0025523 L0025524 L0025525 L0025526
   SRCGROUP Construc L0025527 L0025528 L0025529 L0025530 L0025531 L0025532
   SRCGROUP Construc L0025533 L0025534 L0025535 L0025536 L0025537 L0025538
   SRCGROUP Construc L0025539 L0025540 L0025541 L0025542 L0025543 L0025544
   SRCGROUP Construc L0025545 L0025546 L0025547 L0025548 L0025549 L0025550
   SRCGROUP Construc L0025551 L0025552 L0025553 L0025554 L0025555 L0025556
   SRCGROUP Construc L0025557 L0025558 L0025559 L0025560 L0025561 L0025562
   SRCGROUP Construc L0025563 L0025564 L0025565 L0025566 L0025567 L0025568
   SRCGROUP Construc L0025569 L0025570 L0025571 L0025572 L0025573 L0025574
   SRCGROUP Construc L0025575 L0025576 L0025577 L0025578 L0025579 L0025580
   SRCGROUP Construc L0025581 L0025582 L0025583 L0025584 L0025585 L0025586
   SRCGROUP Construc L0025587 L0025588 L0025589 L0025590 L0025591 L0025592
   SRCGROUP Construc L0025593 L0025594 L0025595 L0025596
   SRCGROUP Generato GENERATOR
   SRCGROUP Loading  L0012220 L0012221 L0012222 L0012223 L0012224 L0012225
   SRCGROUP Loading  L0012226 L0012227
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "1360 Vine v2.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE KCQT_V9_ADJU\KCQT_v9.SFC
   PROFFILE KCQT_V9_ADJU\KCQT_v9.PFL
   SURFDATA 93134 2012
   UAIRDATA 3190 2012
   PROFBASE 55.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD Construc "1360 VINE V2.AD\PE00G001.PLT" 31
   PLOTFILE PERIOD Generato "1360 VINE V2.AD\PE00G002.PLT" 32
   PLOTFILE PERIOD Loading "1360 VINE V2.AD\PE00G003.PLT" 33
   SUMMFILE "1360 Vine v2.sum"
OU FINISHED
```

```
          *** Message Summary For AERMOD Model Setup ***

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

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


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


      ********   WARNING MESSAGES   ********
   ME W186      975       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
   0.50
   ME W187      975       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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

```
 *** AERMOD - VERSION 21112 ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc         ***      10/20/23
 *** AERMET - VERSION  16216 ***   ***
 ***       11:58:10


PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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

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


 **Model Uses URBAN Dispersion Algorithm for the SBL for   139 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  Urban Roughness Length =  1.000 m


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

 **Other Options Specified:
        ADJ_U*  - Use ADJ_U* option for SBL in AERMET
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions


 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  DPM

 **Model Calculates PERIOD Averages Only

 **This Run Includes:    139 Source(s);      3 Source Group(s); and     379
Receptor(s)

                with:     1 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:   138 VOLUME source(s)
                and:     0 AREA type source(s)
                and:     0 LINE source(s)
                and:     0 RLINE/RLINEXT source(s)
                and:     0 OPENPIT source(s)
                and:     0 BUOYANT LINE source(s) with a total of     0 line(s)


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

 **The AERMET Input Meteorological Data Version Date:  16216

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

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

 **Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =    55.00 ;  Decay Coef. =
0.000    ;  Rot. Angle =     0.0
                     Emission Units = GRAMS/SEC                              ; Emission
Rate Unit Factor =   0.10000E+07
                     Output Units   = MICROGRAMS/M**3

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

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

 **Detailed Error/Message File:   1360 Vine v2.err
 **File for Summary of Results:   1360 Vine v2.sum
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc        ***        10/20/23
 *** AERMET - VERSION  16216 ***   ***
***         11:58:10

PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                     *** POINT SOURCE DATA ***

           NUMBER EMISSION RATE                    BASE     STACK   STACK    STACK
STACK    BLDG   URBAN  CAP/  EMIS RATE
   SOURCE      PART.  (GRAMS/SEC)      X         Y     ELEV.    HEIGHT  TEMP.   EXIT
VEL. DIAMETER  EXISTS SOURCE HOR   SCALAR
     ID        CATS.             (METERS) (METERS) (METERS) (METERS) (DEG.K)
(M/SEC)  (METERS)                 VARY BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

 GENERATOR       0   0.10000E+01  377672.4 3773582.8   102.5     3.66   768.15
15.92     0.30    NO      YES   NO  HROFDY
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc       ***       10/20/23
 *** AERMET - VERSION  16216 ***   ***
***       11:58:10

PAGE   3
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                *** 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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -

 L0025467      0  0.76923E-02  377631.9 3773606.5  102.7   0.00     2.33
1.16    YES   HROFDY
 L0025468      0  0.76923E-02  377631.8 3773601.5  102.6   0.00     2.33
1.16    YES   HROFDY
 L0025469      0  0.76923E-02  377631.8 3773596.5  102.5   0.00     2.33
1.16    YES   HROFDY
 L0025470      0  0.76923E-02  377631.7 3773591.5  102.4   0.00     2.33
1.16    YES   HROFDY
 L0025471      0  0.76923E-02  377631.7 3773586.5  102.3   0.00     2.33
1.16    YES   HROFDY
 L0025472      0  0.76923E-02  377631.6 3773581.5  102.2   0.00     2.33
1.16    YES   HROFDY
 L0025473      0  0.76923E-02  377631.6 3773576.5  102.1   0.00     2.33
1.16    YES   HROFDY
 L0025474      0  0.76923E-02  377631.6 3773571.5  102.0   0.00     2.33
1.16    YES   HROFDY
 L0025475      0  0.76923E-02  377631.5 3773566.5  101.9   0.00     2.33
1.16    YES   HROFDY
 L0025476      0  0.76923E-02  377631.5 3773561.5  101.8   0.00     2.33
1.16    YES   HROFDY
 L0025477      0  0.76923E-02  377631.4 3773556.5  101.7   0.00     2.33
1.16    YES   HROFDY
 L0025478      0  0.76923E-02  377631.4 3773551.5  101.6   0.00     2.33
1.16    YES   HROFDY
 L0025479      0  0.76923E-02  377631.4 3773546.5  101.5   0.00     2.33
1.16    YES   HROFDY
 L0025480      0  0.76923E-02  377631.3 3773541.5  101.4   0.00     2.33
1.16    YES   HROFDY
 L0025481      0  0.76923E-02  377631.3 3773536.5  101.3   0.00     2.33
1.16    YES   HROFDY
 L0025482      0  0.76923E-02  377631.2 3773531.5  101.2   0.00     2.33
1.16    YES   HROFDY
 L0025483      0  0.76923E-02  377631.2 3773526.5  101.1   0.00     2.33
1.16    YES   HROFDY
 L0025484      0  0.76923E-02  377633.0 3773523.2  101.0   0.00     2.33
1.16    YES   HROFDY
 L0025485      0  0.76923E-02  377638.0 3773523.0  101.1   0.00     2.33
1.16    YES   HROFDY
 L0025486      0  0.76923E-02  377639.5 3773526.4  101.2   0.00     2.33
1.16    YES   HROFDY
 L0025487      0  0.76923E-02  377639.5 3773531.4  101.3   0.00     2.33
1.16    YES   HROFDY
 L0025488      0  0.76923E-02  377639.5 3773536.4  101.4   0.00     2.33
1.16    YES   HROFDY
 L0025489      0  0.76923E-02  377639.5 3773541.4  101.5   0.00     2.33
1.16    YES   HROFDY
 L0025490      0  0.76923E-02  377639.5 3773546.4  101.6   0.00     2.33
1.16    YES   HROFDY
 L0025491      0  0.76923E-02  377639.4 3773551.4  101.7   0.00     2.33
1.16    YES   HROFDY
 L0025492      0  0.76923E-02  377639.4 3773556.4  101.8   0.00     2.33
1.16    YES   HROFDY
 L0025493      0  0.76923E-02  377639.4 3773561.4  101.9   0.00     2.33
1.16    YES   HROFDY
 L0025494      0  0.76923E-02  377639.4 3773566.4  102.0   0.00     2.33
1.16    YES   HROFDY
 L0025495      0  0.76923E-02  377639.4 3773571.4  102.1   0.00     2.33
1.16    YES   HROFDY
 L0025496      0  0.76923E-02  377639.4 3773576.4  102.2   0.00     2.33
1.16    YES   HROFDY
 L0025497      0  0.76923E-02  377639.4 3773581.4  102.3   0.00     2.33
1.16    YES   HROFDY
 L0025498      0  0.76923E-02  377639.4 3773586.4  102.4   0.00     2.33
1.16    YES   HROFDY
 L0025499      0  0.76923E-02  377639.3 3773591.4  102.5   0.00     2.33
1.16    YES   HROFDY
 L0025500      0  0.76923E-02  377639.3 3773596.4  102.6   0.00     2.33
1.16    YES   HROFDY
 L0025501      0  0.76923E-02  377639.3 3773601.4  102.7   0.00     2.33
1.16    YES   HROFDY
 L0025502      0  0.76923E-02  377639.3 3773606.4  102.8   0.00     2.33
1.16    YES   HROFDY
 L0025503      0  0.76923E-02  377643.3 3773607.3  102.8   0.00     2.33
1.16    YES   HROFDY
 L0025504      0  0.76923E-02  377647.5 3773606.4  102.8   0.00     2.33
1.16    YES   HROFDY
 L0025505      0  0.76923E-02  377647.5 3773601.4  102.8   0.00     2.33
1.16    YES   HROFDY
 L0025506      0  0.76923E-02  377647.5 3773596.4  102.7   0.00     2.33
1.16    YES   HROFDY
```

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 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc         ***       10/20/23
 *** AERMET - VERSION  16216 ***   ***
***        11:58:10

PAGE   4
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                         *** 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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -

 L0025507       0  0.76923E-02  377647.5 3773591.4  102.6    0.00     2.33
1.16    YES   HROFDY
 L0025508       0  0.76923E-02  377647.5 3773586.4  102.6    0.00     2.33
1.16    YES   HROFDY
 L0025509       0  0.76923E-02  377647.5 3773581.4  102.5    0.00     2.33
1.16    YES   HROFDY
 L0025510       0  0.76923E-02  377647.5 3773576.4  102.4    0.00     2.33
1.16    YES   HROFDY
 L0025511       0  0.76923E-02  377647.5 3773571.4  102.3    0.00     2.33
1.16    YES   HROFDY
 L0025512       0  0.76923E-02  377647.5 3773566.4  102.2    0.00     2.33
1.16    YES   HROFDY
 L0025513       0  0.76923E-02  377647.5 3773561.4  102.1    0.00     2.33
1.16    YES   HROFDY
 L0025514       0  0.76923E-02  377647.5 3773556.4  102.0    0.00     2.33
1.16    YES   HROFDY
 L0025515       0  0.76923E-02  377647.4 3773551.4  101.8    0.00     2.33
1.16    YES   HROFDY
 L0025516       0  0.76923E-02  377647.4 3773546.4  101.7    0.00     2.33
1.16    YES   HROFDY
 L0025517       0  0.76923E-02  377647.4 3773541.4  101.6    0.00     2.33
1.16    YES   HROFDY
 L0025518       0  0.76923E-02  377647.4 3773536.4  101.5    0.00     2.33
1.16    YES   HROFDY
 L0025519       0  0.76923E-02  377647.4 3773531.4  101.4    0.00     2.33
1.16    YES   HROFDY
 L0025520       0  0.76923E-02  377647.4 3773526.4  101.3    0.00     2.33
1.16    YES   HROFDY
 L0025521       0  0.76923E-02  377648.2 3773522.2  101.2    0.00     2.33
1.16    YES   HROFDY
 L0025522       0  0.76923E-02  377653.2 3773522.1  101.2    0.00     2.33
1.16    YES   HROFDY
 L0025523       0  0.76923E-02  377655.4 3773524.8  101.3    0.00     2.33
1.16    YES   HROFDY
 L0025524       0  0.76923E-02  377655.4 3773529.8  101.5    0.00     2.33
1.16    YES   HROFDY
 L0025525       0  0.76923E-02  377655.4 3773534.8  101.6    0.00     2.33
1.16    YES   HROFDY
 L0025526       0  0.76923E-02  377655.4 3773539.8  101.7    0.00     2.33
1.16    YES   HROFDY
 L0025527       0  0.76923E-02  377655.4 3773544.8  101.8    0.00     2.33
1.16    YES   HROFDY
 L0025528       0  0.76923E-02  377655.4 3773549.8  101.9    0.00     2.33
1.16    YES   HROFDY
 L0025529       0  0.76923E-02  377655.4 3773554.8  102.1    0.00     2.33
1.16    YES   HROFDY
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 L0025530       0  0.76923E-02  377655.4 3773559.8  102.2    0.00     2.33
1.16    YES   HROFDY
 L0025531       0  0.76923E-02  377655.3 3773564.8  102.3    0.00     2.33
1.16    YES   HROFDY
 L0025532       0  0.76923E-02  377655.3 3773569.8  102.4    0.00     2.33
1.16    YES   HROFDY
 L0025533       0  0.76923E-02  377655.3 3773574.8  102.5    0.00     2.33
1.16    YES   HROFDY
 L0025534       0  0.76923E-02  377655.3 3773579.8  102.6    0.00     2.33
1.16    YES   HROFDY
 L0025535       0  0.76923E-02  377655.3 3773584.8  102.6    0.00     2.33
1.16    YES   HROFDY
 L0025536       0  0.76923E-02  377655.3 3773589.8  102.8    0.00     2.33
1.16    YES   HROFDY
 L0025537       0  0.76923E-02  377655.3 3773594.8  102.8    0.00     2.33
1.16    YES   HROFDY
 L0025538       0  0.76923E-02  377655.3 3773599.8  102.8    0.00     2.33
1.16    YES   HROFDY
 L0025539       0  0.76923E-02  377655.2 3773604.8  102.8    0.00     2.33
1.16    YES   HROFDY
 L0025540       0  0.76923E-02  377657.5 3773607.6  102.9    0.00     2.33
1.16    YES   HROFDY
 L0025541       0  0.76923E-02  377662.5 3773607.7  102.8    0.00     2.33
1.16    YES   HROFDY
 L0025542       0  0.76923E-02  377663.6 3773603.8  102.8    0.00     2.33
1.16    YES   HROFDY
 L0025543       0  0.76923E-02  377663.6 3773598.8  102.8    0.00     2.33
1.16    YES   HROFDY
 L0025544       0  0.76923E-02  377663.6 3773593.8  102.8    0.00     2.33
1.16    YES   HROFDY
 L0025545       0  0.76923E-02  377663.6 3773588.8  102.7    0.00     2.33
1.16    YES   HROFDY
 L0025546       0  0.76923E-02  377663.6 3773583.8  102.6    0.00     2.33
1.16    YES   HROFDY
```

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 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc        ***       10/20/23
 *** AERMET - VERSION  16216 ***   ***
***       11:58:10

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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                              *** 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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -


 L0025547      0  0.76923E-02  377663.7 3773578.8  102.5   0.00     2.33
1.16    YES   HROFDY
 L0025548      0  0.76923E-02  377663.7 3773573.8  102.4   0.00     2.33
1.16    YES   HROFDY
 L0025549      0  0.76923E-02  377663.7 3773568.8  102.3   0.00     2.33
1.16    YES   HROFDY
 L0025550      0  0.76923E-02  377663.7 3773563.8  102.2   0.00     2.33
1.16    YES   HROFDY
 L0025551      0  0.76923E-02  377663.7 3773558.8  102.1   0.00     2.33
1.16    YES   HROFDY
 L0025552      0  0.76923E-02  377663.8 3773553.8  102.0   0.00     2.33
1.16    YES   HROFDY
 L0025553      0  0.76923E-02  377663.8 3773548.8  101.9   0.00     2.33
1.16    YES   HROFDY
 L0025554      0  0.76923E-02  377663.8 3773543.8  101.8   0.00     2.33
1.16    YES   HROFDY
 L0025555      0  0.76923E-02  377663.8 3773538.8  101.6   0.00     2.33
1.16    YES   HROFDY
 L0025556      0  0.76923E-02  377663.8 3773533.8  101.5   0.00     2.33
1.16    YES   HROFDY
 L0025557      0  0.76923E-02  377663.8 3773528.8  101.4   0.00     2.33
1.16    YES   HROFDY
 L0025558      0  0.76923E-02  377663.9 3773523.8  101.3   0.00     2.33
1.16    YES   HROFDY
 L0025559      0  0.76923E-02  377665.7 3773520.8  101.2   0.00     2.33
1.16    YES   HROFDY
 L0025560      0  0.76923E-02  377670.7 3773520.9  101.2   0.00     2.33
1.16    YES   HROFDY
 L0025561      0  0.76923E-02  377672.1 3773524.6  101.2   0.00     2.33
1.16    YES   HROFDY
 L0025562      0  0.76923E-02  377672.2 3773529.6  101.3   0.00     2.33
1.16    YES   HROFDY
 L0025563      0  0.76923E-02  377672.2 3773534.6  101.5   0.00     2.33
1.16    YES   HROFDY
 L0025564      0  0.76923E-02  377672.2 3773539.6  101.6   0.00     2.33
1.16    YES   HROFDY
 L0025565      0  0.76923E-02  377672.2 3773544.6  101.7   0.00     2.33
1.16    YES   HROFDY
 L0025566      0  0.76923E-02  377672.2 3773549.6  101.8   0.00     2.33
1.16    YES   HROFDY
 L0025567      0  0.76923E-02  377672.3 3773554.6  101.9   0.00     2.33
1.16    YES   HROFDY
 L0025568      0  0.76923E-02  377672.3 3773559.6  102.0   0.00     2.33
1.16    YES   HROFDY
 L0025569      0  0.76923E-02  377672.3 3773564.6  102.1   0.00     2.33
1.16    YES   HROFDY
 L0025570      0  0.76923E-02  377672.3 3773569.6  102.3   0.00     2.33
1.16    YES   HROFDY
 L0025571      0  0.76923E-02  377672.3 3773574.6  102.4   0.00     2.33
1.16    YES   HROFDY
 L0025572      0  0.76923E-02  377672.3 3773579.6  102.5   0.00     2.33
1.16    YES   HROFDY
 L0025573      0  0.76923E-02  377672.4 3773584.6  102.6   0.00     2.33
1.16    YES   HROFDY
 L0025574      0  0.76923E-02  377672.4 3773589.6  102.7   0.00     2.33
1.16    YES   HROFDY
 L0025575      0  0.76923E-02  377672.4 3773594.6  102.7   0.00     2.33
1.16    YES   HROFDY
 L0025576      0  0.76923E-02  377672.4 3773599.6  102.8   0.00     2.33
1.16    YES   HROFDY
 L0025577      0  0.76923E-02  377672.4 3773604.6  102.8   0.00     2.33
1.16    YES   HROFDY
 L0025578      0  0.76923E-02  377674.1 3773607.9  102.8   0.00     2.33
1.16    YES   HROFDY
 L0025579      0  0.76923E-02  377679.1 3773608.1  102.8   0.00     2.33
1.16    YES   HROFDY
 L0025580      0  0.76923E-02  377679.8 3773603.8  102.7   0.00     2.33
1.16    YES   HROFDY
 L0025581      0  0.76923E-02  377679.8 3773598.8  102.7   0.00     2.33
1.16    YES   HROFDY
 L0025582      0  0.76923E-02  377679.9 3773593.8  102.7   0.00     2.33
1.16    YES   HROFDY
 L0025583      0  0.76923E-02  377679.9 3773588.8  102.6   0.00     2.33
1.16    YES   HROFDY
 L0025584      0  0.76923E-02  377679.9 3773583.8  102.5   0.00     2.33
1.16    YES   HROFDY
 L0025585      0  0.76923E-02  377679.9 3773578.8  102.4   0.00     2.33
1.16    YES   HROFDY
 L0025586      0  0.76923E-02  377679.9 3773573.8  102.3   0.00     2.33
1.16    YES   HROFDY
```

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 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc         ***       10/20/23
 *** AERMET - VERSION  16216 ***   ***
***       11:58:10

PAGE   6
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                            *** 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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -


 L0025587       0  0.76923E-02  377680.0 3773568.8  102.2    0.00     2.33
1.16    YES  HROFDY
 L0025588       0  0.76923E-02  377680.0 3773563.8  102.0    0.00     2.33
1.16    YES  HROFDY
 L0025589       0  0.76923E-02  377680.0 3773558.8  101.9    0.00     2.33
1.16    YES  HROFDY
 L0025590       0  0.76923E-02  377680.0 3773553.8  101.8    0.00     2.33
1.16    YES  HROFDY
 L0025591       0  0.76923E-02  377680.0 3773548.8  101.7    0.00     2.33
1.16    YES  HROFDY
 L0025592       0  0.76923E-02  377680.1 3773543.8  101.6    0.00     2.33
1.16    YES  HROFDY
 L0025593       0  0.76923E-02  377680.1 3773538.8  101.5    0.00     2.33
1.16    YES  HROFDY
 L0025594       0  0.76923E-02  377680.1 3773533.8  101.4    0.00     2.33
1.16    YES  HROFDY
 L0025595       0  0.76923E-02  377680.1 3773528.8  101.3    0.00     2.33
1.16    YES  HROFDY
 L0025596       0  0.76923E-02  377680.1 3773523.8  101.2    0.00     2.33
1.16    YES  HROFDY
 L0012220       0  0.12500E+00  377672.1 3773607.4  102.8    3.66     2.33
1.16    YES  HROFDY
 L0012221       0  0.12500E+00  377672.1 3773602.4  102.8    3.66     2.33
1.16    YES  HROFDY
 L0012222       0  0.12500E+00  377672.2 3773597.4  102.8    3.66     2.33
1.16    YES  HROFDY
 L0012223       0  0.12500E+00  377672.2 3773592.4  102.7    3.66     2.33
1.16    YES  HROFDY
 L0012224       0  0.12500E+00  377668.2 3773591.6  102.7    3.66     2.33
1.16    YES  HROFDY
 L0012225       0  0.12500E+00  377666.7 3773595.0  102.8    3.66     2.33
1.16    YES  HROFDY
 L0012226       0  0.12500E+00  377666.8 3773600.0  102.8    3.66     2.33
1.16    YES  HROFDY
 L0012227       0  0.12500E+00  377667.0 3773605.0  102.8    3.66     2.33
1.16    YES  HROFDY
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 *** AERMOD - VERSION 21112  ***    *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360                          LOADING   L0012220   , L0012221   , L0012222   , L0012223   , L0012224   ,
Vine v2.isc          ***       10/20/23                                                                      L0012225   , L0012226   , L0012227   ,
 *** AERMET - VERSION  16216 ***   ***
***        11:58:10

PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                 *** SOURCE IDs DEFINING SOURCE GROUPS ***

  SRCGROUP ID                                          SOURCE IDs
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  CONSTRUC   L0025467   , L0025468   , L0025469   , L0025470   , L0025471   ,
L0025472   , L0025473   , L0025474   ,

           L0025475   , L0025476   , L0025477   , L0025478   , L0025479   ,
L0025480   , L0025481   , L0025482   ,

           L0025483   , L0025484   , L0025485   , L0025486   , L0025487   ,
L0025488   , L0025489   , L0025490   ,

           L0025491   , L0025492   , L0025493   , L0025494   , L0025495   ,
L0025496   , L0025497   , L0025498   ,

           L0025499   , L0025500   , L0025501   , L0025502   , L0025503   ,
L0025504   , L0025505   , L0025506   ,

           L0025507   , L0025508   , L0025509   , L0025510   , L0025511   ,
L0025512   , L0025513   , L0025514   ,

           L0025515   , L0025516   , L0025517   , L0025518   , L0025519   ,
L0025520   , L0025521   , L0025522   ,

           L0025523   , L0025524   , L0025525   , L0025526   , L0025527   ,
L0025528   , L0025529   , L0025530   ,

           L0025531   , L0025532   , L0025533   , L0025534   , L0025535   ,
L0025536   , L0025537   , L0025538   ,

           L0025539   , L0025540   , L0025541   , L0025542   , L0025543   ,
L0025544   , L0025545   , L0025546   ,

           L0025547   , L0025548   , L0025549   , L0025550   , L0025551   ,
L0025552   , L0025553   , L0025554   ,

           L0025555   , L0025556   , L0025557   , L0025558   , L0025559   ,
L0025560   , L0025561   , L0025562   ,

           L0025563   , L0025564   , L0025565   , L0025566   , L0025567   ,
L0025568   , L0025569   , L0025570   ,

           L0025571   , L0025572   , L0025573   , L0025574   , L0025575   ,
L0025576   , L0025577   , L0025578   ,

           L0025579   , L0025580   , L0025581   , L0025582   , L0025583   ,
L0025584   , L0025585   , L0025586   ,

           L0025587   , L0025588   , L0025589   , L0025590   , L0025591   ,
L0025592   , L0025593   , L0025594   ,

           L0025595   , L0025596   ,

  GENERATO   GENERATOR   ,
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 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc          ***       10/20/23                                                          L0012226    , L0012227    , GENERATOR   ,
 *** AERMET - VERSION  16216 ***   ***
***      11:58:10

PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


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

   URBAN ID   URBAN POP                          SOURCE IDs
   --------   ---------                          ----------


            9818605.  L0025467   , L0025468    , L0025469   , L0025470    ,
L0025471    , L0025472    , L0025473    ,
 L0025474     ,

            L0025475   , L0025476    , L0025477    , L0025478    , L0025479    ,
L0025480    , L0025481    , L0025482    ,

            L0025483   , L0025484    , L0025485    , L0025486    , L0025487    ,
L0025488    , L0025489    , L0025490    ,

            L0025491   , L0025492    , L0025493    , L0025494    , L0025495    ,
L0025496    , L0025497    , L0025498    ,

            L0025499   , L0025500    , L0025501    , L0025502    , L0025503    ,
L0025504    , L0025505    , L0025506    ,

            L0025507   , L0025508    , L0025509    , L0025510    , L0025511    ,
L0025512    , L0025513    , L0025514    ,

            L0025515   , L0025516    , L0025517    , L0025518    , L0025519    ,
L0025520    , L0025521    , L0025522    ,

            L0025523   , L0025524    , L0025525    , L0025526    , L0025527    ,
L0025528    , L0025529    , L0025530    ,

            L0025531   , L0025532    , L0025533    , L0025534    , L0025535    ,
L0025536    , L0025537    , L0025538    ,

            L0025539   , L0025540    , L0025541    , L0025542    , L0025543    ,
L0025544    , L0025545    , L0025546    ,

            L0025547   , L0025548    , L0025549    , L0025550    , L0025551    ,
L0025552    , L0025553    , L0025554    ,

            L0025555   , L0025556    , L0025557    , L0025558    , L0025559    ,
L0025560    , L0025561    , L0025562    ,

            L0025563   , L0025564    , L0025565    , L0025566    , L0025567    ,
L0025568    , L0025569    , L0025570    ,

            L0025571   , L0025572    , L0025573    , L0025574    , L0025575    ,
L0025576    , L0025577    , L0025578    ,

            L0025579   , L0025580    , L0025581    , L0025582    , L0025583    ,
L0025584    , L0025585    , L0025586    ,

            L0025587   , L0025588    , L0025589    , L0025590    , L0025591    ,
L0025592    , L0025593    , L0025594    ,

            L0025595   , L0025596    , L0012220    , L0012221    , L0012222    ,
L0012223    , L0012224    , L0012225    ,
```

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 *** AERMOD – VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360         13  .10000E+01   14  .10000E+01   15  .10000E+01   16  .00000E+00
Vine v2.isc        ***      10/20/23                                                       17  .00000E+00   18  .00000E+00
 *** AERMET – VERSION  16216 ***   ***                                                        19  .00000E+00   20  .00000E+00   21  .00000E+00   22  .00000E+00
***      11:58:10                                                                          23  .00000E+00   24  .00000E+00
```

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PAGE   9
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                         * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

     HOUR   SCALAR      HOUR   SCALAR       HOUR   SCALAR       HOUR   SCALAR
HOUR     SCALAR     HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025467    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
5  .00000E+00     6  .00000E+00
      7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
11  .10000E+01    12  .10000E+01
     13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17  .00000E+00    18  .00000E+00
     19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025468    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
5  .00000E+00     6  .00000E+00
      7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
11  .10000E+01    12  .10000E+01
     13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17  .00000E+00    18  .00000E+00
     19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025469    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
5  .00000E+00     6  .00000E+00
      7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
11  .10000E+01    12  .10000E+01
     13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17  .00000E+00    18  .00000E+00
     19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025470    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
5  .00000E+00     6  .00000E+00
      7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
11  .10000E+01    12  .10000E+01
     13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17  .00000E+00    18  .00000E+00
     19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025471    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
5  .00000E+00     6  .00000E+00
      7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
11  .10000E+01    12  .10000E+01
```

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 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360          13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
 Vine v2.isc          ***     10/20/23                                          17  .00000E+00    18  .00000E+00
 *** AERMET - VERSION  16216 ***   ***                                             19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
 ***       11:58:10                                                           23  .00000E+00    24  .00000E+00

 PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                         * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
 THE DAY *

      HOUR    SCALAR      HOUR    SCALAR       HOUR    SCALAR       HOUR    SCALAR
 HOUR    SCALAR      HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025472     ; SOURCE TYPE = VOLUME   :
      1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
 5  .00000E+00     6  .00000E+00
      7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
 11  .10000E+01    12  .10000E+01
     13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
 17  .00000E+00    18  .00000E+00
     19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
 23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025473     ; SOURCE TYPE = VOLUME   :
      1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
 5  .00000E+00     6  .00000E+00
      7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
 11  .10000E+01    12  .10000E+01
     13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
 17  .00000E+00    18  .00000E+00
     19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
 23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025474     ; SOURCE TYPE = VOLUME   :
      1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
 5  .00000E+00     6  .00000E+00
      7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
 11  .10000E+01    12  .10000E+01
     13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
 17  .00000E+00    18  .00000E+00
     19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
 23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025475     ; SOURCE TYPE = VOLUME   :
      1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
 5  .00000E+00     6  .00000E+00
      7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
 11  .10000E+01    12  .10000E+01
     13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
 17  .00000E+00    18  .00000E+00
     19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
 23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025476     ; SOURCE TYPE = VOLUME   :
      1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
 5  .00000E+00     6  .00000E+00
      7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
 11  .10000E+01    12  .10000E+01
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc         ***      10/20/23
 *** AERMET - VERSION  16216 ***   ***
***        11:58:10
```

```
       13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
   17  .00000E+00    18  .00000E+00
       19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
   23  .00000E+00    24  .00000E+00
```

```
PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                        * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

     HOUR   SCALAR       HOUR    SCALAR        HOUR    SCALAR       HOUR     SCALAR
HOUR     SCALAR      HOUR    SCALAR
   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025477    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
 5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01     12  .10000E+01
      13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00     18  .00000E+00
      19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00     24  .00000E+00


 SOURCE ID = L0025478    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
 5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01     12  .10000E+01
      13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00     18  .00000E+00
      19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00     24  .00000E+00


 SOURCE ID = L0025479    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
 5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01     12  .10000E+01
      13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00     18  .00000E+00
      19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00     24  .00000E+00


 SOURCE ID = L0025480    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
 5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01     12  .10000E+01
      13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00     18  .00000E+00
      19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00     24  .00000E+00


 SOURCE ID = L0025481    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
 5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01     12  .10000E+01
```

```
 *** AERMOD - VERSION 21112 ***    *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc          ***       10/20/23
 *** AERMET - VERSION  16216 ***   ***
***       11:58:10
```

```
       13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
 17   .00000E+00     18   .00000E+00
       19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
 23   .00000E+00     24   .00000E+00
```

```
PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                        * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

     HOUR   SCALAR      HOUR    SCALAR        HOUR    SCALAR        HOUR    SCALAR
HOUR     SCALAR      HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025482     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
 5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
 11   .10000E+01     12   .10000E+01
      13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
 17   .00000E+00     18   .00000E+00
      19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
 23   .00000E+00     24   .00000E+00


 SOURCE ID = L0025483     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
 5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
 11   .10000E+01     12   .10000E+01
      13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
 17   .00000E+00     18   .00000E+00
      19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
 23   .00000E+00     24   .00000E+00


 SOURCE ID = L0025484     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
 5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
 11   .10000E+01     12   .10000E+01
      13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
 17   .00000E+00     18   .00000E+00
      19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
 23   .00000E+00     24   .00000E+00


 SOURCE ID = L0025485     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
 5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
 11   .10000E+01     12   .10000E+01
      13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
 17   .00000E+00     18   .00000E+00
      19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
 23   .00000E+00     24   .00000E+00


 SOURCE ID = L0025486     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
 5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
 11   .10000E+01     12   .10000E+01
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360        13   .10000E+01   14   .10000E+01   15   .10000E+01   16   .00000E+00
 Vine v2.isc       ***      10/20/23                                             17   .00000E+00   18   .00000E+00
 *** AERMET - VERSION 16216 ***   ***                                               19   .00000E+00   20   .00000E+00   21   .00000E+00   22   .00000E+00
 ***      11:58:10                                                             23   .00000E+00   24   .00000E+00


 PAGE  13
  *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                         * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
 THE DAY *

      HOUR    SCALAR      HOUR    SCALAR      HOUR    SCALAR      HOUR    SCALAR
 HOUR    SCALAR      HOUR    SCALAR
  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -


  SOURCE ID = L0025487    ; SOURCE TYPE = VOLUME   :
       1   .00000E+00     2   .00000E+00     3   .00000E+00     4   .00000E+00
  5   .00000E+00     6   .00000E+00
       7   .00000E+00     8   .10000E+01     9   .10000E+01    10   .10000E+01
 11   .10000E+01    12   .10000E+01
      13   .10000E+01    14   .10000E+01    15   .10000E+01    16   .00000E+00
 17   .00000E+00    18   .00000E+00
      19   .00000E+00    20   .00000E+00    21   .00000E+00    22   .00000E+00
 23   .00000E+00    24   .00000E+00


  SOURCE ID = L0025488    ; SOURCE TYPE = VOLUME   :
       1   .00000E+00     2   .00000E+00     3   .00000E+00     4   .00000E+00
  5   .00000E+00     6   .00000E+00
       7   .00000E+00     8   .10000E+01     9   .10000E+01    10   .10000E+01
 11   .10000E+01    12   .10000E+01
      13   .10000E+01    14   .10000E+01    15   .10000E+01    16   .00000E+00
 17   .00000E+00    18   .00000E+00
      19   .00000E+00    20   .00000E+00    21   .00000E+00    22   .00000E+00
 23   .00000E+00    24   .00000E+00


  SOURCE ID = L0025489    ; SOURCE TYPE = VOLUME   :
       1   .00000E+00     2   .00000E+00     3   .00000E+00     4   .00000E+00
  5   .00000E+00     6   .00000E+00
       7   .00000E+00     8   .10000E+01     9   .10000E+01    10   .10000E+01
 11   .10000E+01    12   .10000E+01
      13   .10000E+01    14   .10000E+01    15   .10000E+01    16   .00000E+00
 17   .00000E+00    18   .00000E+00
      19   .00000E+00    20   .00000E+00    21   .00000E+00    22   .00000E+00
 23   .00000E+00    24   .00000E+00


  SOURCE ID = L0025490    ; SOURCE TYPE = VOLUME   :
       1   .00000E+00     2   .00000E+00     3   .00000E+00     4   .00000E+00
  5   .00000E+00     6   .00000E+00
       7   .00000E+00     8   .10000E+01     9   .10000E+01    10   .10000E+01
 11   .10000E+01    12   .10000E+01
      13   .10000E+01    14   .10000E+01    15   .10000E+01    16   .00000E+00
 17   .00000E+00    18   .00000E+00
      19   .00000E+00    20   .00000E+00    21   .00000E+00    22   .00000E+00
 23   .00000E+00    24   .00000E+00


  SOURCE ID = L0025491    ; SOURCE TYPE = VOLUME   :
       1   .00000E+00     2   .00000E+00     3   .00000E+00     4   .00000E+00
  5   .00000E+00     6   .00000E+00
       7   .00000E+00     8   .10000E+01     9   .10000E+01    10   .10000E+01
 11   .10000E+01    12   .10000E+01
```

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 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360              13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
Vine v2.isc         ***      10/20/23                                                     17  .00000E+00    18  .00000E+00
 *** AERMET - VERSION  16216 ***   ***                                                         19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
***        11:58:10                                                                      23  .00000E+00    24  .00000E+00
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PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

      HOUR    SCALAR         HOUR     SCALAR          HOUR     SCALAR          HOUR      SCALAR
HOUR     SCALAR         HOUR     SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025492     ; SOURCE TYPE = VOLUME    :
      1   .00000E+00       2   .00000E+00       3   .00000E+00       4   .00000E+00
5   .00000E+00       6   .00000E+00
      7   .00000E+00       8   .10000E+01       9   .10000E+01      10   .10000E+01
11   .10000E+01      12   .10000E+01
      13   .10000E+01      14   .10000E+01      15   .10000E+01      16   .00000E+00
17   .00000E+00      18   .00000E+00
      19   .00000E+00      20   .00000E+00      21   .00000E+00      22   .00000E+00
23   .00000E+00      24   .00000E+00


 SOURCE ID = L0025493     ; SOURCE TYPE = VOLUME    :
      1   .00000E+00       2   .00000E+00       3   .00000E+00       4   .00000E+00
5   .00000E+00       6   .00000E+00
      7   .00000E+00       8   .10000E+01       9   .10000E+01      10   .10000E+01
11   .10000E+01      12   .10000E+01
      13   .10000E+01      14   .10000E+01      15   .10000E+01      16   .00000E+00
17   .00000E+00      18   .00000E+00
      19   .00000E+00      20   .00000E+00      21   .00000E+00      22   .00000E+00
23   .00000E+00      24   .00000E+00


 SOURCE ID = L0025494     ; SOURCE TYPE = VOLUME    :
      1   .00000E+00       2   .00000E+00       3   .00000E+00       4   .00000E+00
5   .00000E+00       6   .00000E+00
      7   .00000E+00       8   .10000E+01       9   .10000E+01      10   .10000E+01
11   .10000E+01      12   .10000E+01
      13   .10000E+01      14   .10000E+01      15   .10000E+01      16   .00000E+00
17   .00000E+00      18   .00000E+00
      19   .00000E+00      20   .00000E+00      21   .00000E+00      22   .00000E+00
23   .00000E+00      24   .00000E+00


 SOURCE ID = L0025495     ; SOURCE TYPE = VOLUME    :
      1   .00000E+00       2   .00000E+00       3   .00000E+00       4   .00000E+00
5   .00000E+00       6   .00000E+00
      7   .00000E+00       8   .10000E+01       9   .10000E+01      10   .10000E+01
11   .10000E+01      12   .10000E+01
      13   .10000E+01      14   .10000E+01      15   .10000E+01      16   .00000E+00
17   .00000E+00      18   .00000E+00
      19   .00000E+00      20   .00000E+00      21   .00000E+00      22   .00000E+00
23   .00000E+00      24   .00000E+00


 SOURCE ID = L0025496     ; SOURCE TYPE = VOLUME    :
      1   .00000E+00       2   .00000E+00       3   .00000E+00       4   .00000E+00
5   .00000E+00       6   .00000E+00
      7   .00000E+00       8   .10000E+01       9   .10000E+01      10   .10000E+01
11   .10000E+01      12   .10000E+01
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360        13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
Vine v2.isc         ***      10/20/23                                              17 .00000E+00    18  .00000E+00
 *** AERMET - VERSION  16216 ***   ***                                               19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
 ***        11:58:10                                                              23 .00000E+00    24  .00000E+00
```

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PAGE  15
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                        * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

     HOUR    SCALAR       HOUR    SCALAR        HOUR    SCALAR       HOUR    SCALAR
HOUR     SCALAR       HOUR    SCALAR
  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025497     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00       2   .00000E+00       3   .00000E+00       4   .00000E+00
 5   .00000E+00      6   .00000E+00
      7   .00000E+00       8   .10000E+01       9   .10000E+01      10   .10000E+01
11   .10000E+01    12   .10000E+01
     13   .10000E+01      14   .10000E+01      15   .10000E+01      16   .00000E+00
17   .00000E+00    18   .00000E+00
     19   .00000E+00      20   .00000E+00      21   .00000E+00      22   .00000E+00
23   .00000E+00    24   .00000E+00


 SOURCE ID = L0025498     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00       2   .00000E+00       3   .00000E+00       4   .00000E+00
 5   .00000E+00      6   .00000E+00
      7   .00000E+00       8   .10000E+01       9   .10000E+01      10   .10000E+01
11   .10000E+01    12   .10000E+01
     13   .10000E+01      14   .10000E+01      15   .10000E+01      16   .00000E+00
17   .00000E+00    18   .00000E+00
     19   .00000E+00      20   .00000E+00      21   .00000E+00      22   .00000E+00
23   .00000E+00    24   .00000E+00


 SOURCE ID = L0025499     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00       2   .00000E+00       3   .00000E+00       4   .00000E+00
 5   .00000E+00      6   .00000E+00
      7   .00000E+00       8   .10000E+01       9   .10000E+01      10   .10000E+01
11   .10000E+01    12   .10000E+01
     13   .10000E+01      14   .10000E+01      15   .10000E+01      16   .00000E+00
17   .00000E+00    18   .00000E+00
     19   .00000E+00      20   .00000E+00      21   .00000E+00      22   .00000E+00
23   .00000E+00    24   .00000E+00


 SOURCE ID = L0025500     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00       2   .00000E+00       3   .00000E+00       4   .00000E+00
 5   .00000E+00      6   .00000E+00
      7   .00000E+00       8   .10000E+01       9   .10000E+01      10   .10000E+01
11   .10000E+01    12   .10000E+01
     13   .10000E+01      14   .10000E+01      15   .10000E+01      16   .00000E+00
17   .00000E+00    18   .00000E+00
     19   .00000E+00      20   .00000E+00      21   .00000E+00      22   .00000E+00
23   .00000E+00    24   .00000E+00


 SOURCE ID = L0025501     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00       2   .00000E+00       3   .00000E+00       4   .00000E+00
 5   .00000E+00      6   .00000E+00
      7   .00000E+00       8   .10000E+01       9   .10000E+01      10   .10000E+01
11   .10000E+01    12   .10000E+01
```

```
*** AERMOD - VERSION 21112 ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360         13   .10000E+01   14   .10000E+01   15   .10000E+01   16   .00000E+00
Vine v2.isc        ***      10/20/23                                            17  .00000E+00   18   .00000E+00
*** AERMET - VERSION 16216 ***   ***                                               19   .00000E+00   20   .00000E+00   21   .00000E+00   22   .00000E+00
***      11:58:10                                                               23  .00000E+00   24   .00000E+00
```

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PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                       * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

     HOUR    SCALAR       HOUR    SCALAR       HOUR    SCALAR       HOUR    SCALAR
HOUR    SCALAR       HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025502      ; SOURCE TYPE = VOLUME    :
       1   .00000E+00       2   .00000E+00       3   .00000E+00       4   .00000E+00
 5   .00000E+00       6   .00000E+00
       7   .00000E+00       8   .10000E+01       9   .10000E+01      10   .10000E+01
11   .10000E+01      12   .10000E+01
      13   .10000E+01      14   .10000E+01      15   .10000E+01      16   .00000E+00
17   .00000E+00      18   .00000E+00
      19   .00000E+00      20   .00000E+00      21   .00000E+00      22   .00000E+00
23   .00000E+00      24   .00000E+00


 SOURCE ID = L0025503      ; SOURCE TYPE = VOLUME    :
       1   .00000E+00       2   .00000E+00       3   .00000E+00       4   .00000E+00
 5   .00000E+00       6   .00000E+00
       7   .00000E+00       8   .10000E+01       9   .10000E+01      10   .10000E+01
11   .10000E+01      12   .10000E+01
      13   .10000E+01      14   .10000E+01      15   .10000E+01      16   .00000E+00
17   .00000E+00      18   .00000E+00
      19   .00000E+00      20   .00000E+00      21   .00000E+00      22   .00000E+00
23   .00000E+00      24   .00000E+00


 SOURCE ID = L0025504      ; SOURCE TYPE = VOLUME    :
       1   .00000E+00       2   .00000E+00       3   .00000E+00       4   .00000E+00
 5   .00000E+00       6   .00000E+00
       7   .00000E+00       8   .10000E+01       9   .10000E+01      10   .10000E+01
11   .10000E+01      12   .10000E+01
      13   .10000E+01      14   .10000E+01      15   .10000E+01      16   .00000E+00
17   .00000E+00      18   .00000E+00
      19   .00000E+00      20   .00000E+00      21   .00000E+00      22   .00000E+00
23   .00000E+00      24   .00000E+00


 SOURCE ID = L0025505      ; SOURCE TYPE = VOLUME    :
       1   .00000E+00       2   .00000E+00       3   .00000E+00       4   .00000E+00
 5   .00000E+00       6   .00000E+00
       7   .00000E+00       8   .10000E+01       9   .10000E+01      10   .10000E+01
11   .10000E+01      12   .10000E+01
      13   .10000E+01      14   .10000E+01      15   .10000E+01      16   .00000E+00
17   .00000E+00      18   .00000E+00
      19   .00000E+00      20   .00000E+00      21   .00000E+00      22   .00000E+00
23   .00000E+00      24   .00000E+00


 SOURCE ID = L0025506      ; SOURCE TYPE = VOLUME    :
       1   .00000E+00       2   .00000E+00       3   .00000E+00       4   .00000E+00
 5   .00000E+00       6   .00000E+00
       7   .00000E+00       8   .10000E+01       9   .10000E+01      10   .10000E+01
11   .10000E+01      12   .10000E+01
```

```
*** AERMOD – VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc          ***       10/20/23
*** AERMET - VERSION  16216 ***   ***
***       11:58:10
```

```
           13   .10000E+01    14   .10000E+01    15   .10000E+01    16   .00000E+00
   17  .00000E+00    18   .00000E+00
           19   .00000E+00    20   .00000E+00    21   .00000E+00    22   .00000E+00
   23  .00000E+00    24   .00000E+00
```

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PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                        * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

      HOUR    SCALAR       HOUR    SCALAR        HOUR    SCALAR       HOUR    SCALAR
HOUR    SCALAR       HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025507      ; SOURCE TYPE = VOLUME    :
      1   .00000E+00     2   .00000E+00     3   .00000E+00     4   .00000E+00
5   .00000E+00     6   .00000E+00
      7   .00000E+00     8   .10000E+01     9   .10000E+01    10   .10000E+01
11   .10000E+01    12   .10000E+01
     13   .10000E+01    14   .10000E+01    15   .10000E+01    16   .00000E+00
17   .00000E+00    18   .00000E+00
     19   .00000E+00    20   .00000E+00    21   .00000E+00    22   .00000E+00
23   .00000E+00    24   .00000E+00


 SOURCE ID = L0025508      ; SOURCE TYPE = VOLUME    :
      1   .00000E+00     2   .00000E+00     3   .00000E+00     4   .00000E+00
5   .00000E+00     6   .00000E+00
      7   .00000E+00     8   .10000E+01     9   .10000E+01    10   .10000E+01
11   .10000E+01    12   .10000E+01
     13   .10000E+01    14   .10000E+01    15   .10000E+01    16   .00000E+00
17   .00000E+00    18   .00000E+00
     19   .00000E+00    20   .00000E+00    21   .00000E+00    22   .00000E+00
23   .00000E+00    24   .00000E+00


 SOURCE ID = L0025509      ; SOURCE TYPE = VOLUME    :
      1   .00000E+00     2   .00000E+00     3   .00000E+00     4   .00000E+00
5   .00000E+00     6   .00000E+00
      7   .00000E+00     8   .10000E+01     9   .10000E+01    10   .10000E+01
11   .10000E+01    12   .10000E+01
     13   .10000E+01    14   .10000E+01    15   .10000E+01    16   .00000E+00
17   .00000E+00    18   .00000E+00
     19   .00000E+00    20   .00000E+00    21   .00000E+00    22   .00000E+00
23   .00000E+00    24   .00000E+00


 SOURCE ID = L0025510      ; SOURCE TYPE = VOLUME    :
      1   .00000E+00     2   .00000E+00     3   .00000E+00     4   .00000E+00
5   .00000E+00     6   .00000E+00
      7   .00000E+00     8   .10000E+01     9   .10000E+01    10   .10000E+01
11   .10000E+01    12   .10000E+01
     13   .10000E+01    14   .10000E+01    15   .10000E+01    16   .00000E+00
17   .00000E+00    18   .00000E+00
     19   .00000E+00    20   .00000E+00    21   .00000E+00    22   .00000E+00
23   .00000E+00    24   .00000E+00


 SOURCE ID = L0025511      ; SOURCE TYPE = VOLUME    :
      1   .00000E+00     2   .00000E+00     3   .00000E+00     4   .00000E+00
5   .00000E+00     6   .00000E+00
      7   .00000E+00     8   .10000E+01     9   .10000E+01    10   .10000E+01
11   .10000E+01    12   .10000E+01
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360          13  .10000E+01    14  .10000E+01   15  .10000E+01   16  .00000E+00
Vine v2.isc         ***        10/20/23                                              17  .00000E+00   18  .00000E+00
 *** AERMET - VERSION  16216 ***   ***                                                     19  .00000E+00    20  .00000E+00   21  .00000E+00   22  .00000E+00
***       11:58:10                                                                  23  .00000E+00   24  .00000E+00

PAGE  18
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                            * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

      HOUR   SCALAR       HOUR    SCALAR        HOUR    SCALAR        HOUR    SCALAR
HOUR    SCALAR       HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025512    ; SOURCE TYPE = VOLUME  :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
17   .00000E+00     18   .00000E+00
     19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
23   .00000E+00     24   .00000E+00


 SOURCE ID = L0025513    ; SOURCE TYPE = VOLUME  :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
17   .00000E+00     18   .00000E+00
     19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
23   .00000E+00     24   .00000E+00


 SOURCE ID = L0025514    ; SOURCE TYPE = VOLUME  :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
17   .00000E+00     18   .00000E+00
     19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
23   .00000E+00     24   .00000E+00


 SOURCE ID = L0025515    ; SOURCE TYPE = VOLUME  :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
17   .00000E+00     18   .00000E+00
     19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
23   .00000E+00     24   .00000E+00


 SOURCE ID = L0025516    ; SOURCE TYPE = VOLUME  :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360        13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
Vine v2.isc        ***      10/20/23                                                      17 .00000E+00     18  .00000E+00
 *** AERMET - VERSION  16216 ***   ***                                                         19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
***       11:58:10                                                                       23 .00000E+00     24  .00000E+00

PAGE  19
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                         * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

      HOUR    SCALAR        HOUR    SCALAR        HOUR    SCALAR        HOUR    SCALAR
HOUR    SCALAR        HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025517     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00        2   .00000E+00        3   .00000E+00        4   .00000E+00
5   .00000E+00       6   .00000E+00
      7   .00000E+00        8   .10000E+01        9   .10000E+01       10   .10000E+01
11   .10000E+01      12   .10000E+01
     13   .10000E+01       14   .10000E+01       15   .10000E+01       16   .00000E+00
17   .00000E+00      18   .00000E+00
     19   .00000E+00       20   .00000E+00       21   .00000E+00       22   .00000E+00
23   .00000E+00      24   .00000E+00


 SOURCE ID = L0025518     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00        2   .00000E+00        3   .00000E+00        4   .00000E+00
5   .00000E+00       6   .00000E+00
      7   .00000E+00        8   .10000E+01        9   .10000E+01       10   .10000E+01
11   .10000E+01      12   .10000E+01
     13   .10000E+01       14   .10000E+01       15   .10000E+01       16   .00000E+00
17   .00000E+00      18   .00000E+00
     19   .00000E+00       20   .00000E+00       21   .00000E+00       22   .00000E+00
23   .00000E+00      24   .00000E+00


 SOURCE ID = L0025519     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00        2   .00000E+00        3   .00000E+00        4   .00000E+00
5   .00000E+00       6   .00000E+00
      7   .00000E+00        8   .10000E+01        9   .10000E+01       10   .10000E+01
11   .10000E+01      12   .10000E+01
     13   .10000E+01       14   .10000E+01       15   .10000E+01       16   .00000E+00
17   .00000E+00      18   .00000E+00
     19   .00000E+00       20   .00000E+00       21   .00000E+00       22   .00000E+00
23   .00000E+00      24   .00000E+00


 SOURCE ID = L0025520     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00        2   .00000E+00        3   .00000E+00        4   .00000E+00
5   .00000E+00       6   .00000E+00
      7   .00000E+00        8   .10000E+01        9   .10000E+01       10   .10000E+01
11   .10000E+01      12   .10000E+01
     13   .10000E+01       14   .10000E+01       15   .10000E+01       16   .00000E+00
17   .00000E+00      18   .00000E+00
     19   .00000E+00       20   .00000E+00       21   .00000E+00       22   .00000E+00
23   .00000E+00      24   .00000E+00


 SOURCE ID = L0025521     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00        2   .00000E+00        3   .00000E+00        4   .00000E+00
5   .00000E+00       6   .00000E+00
      7   .00000E+00        8   .10000E+01        9   .10000E+01       10   .10000E+01
11   .10000E+01      12   .10000E+01
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*** AERMOD - VERSION 21112 ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360           13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
Vine v2.isc          ***       10/20/23                                              17 .00000E+00    18  .00000E+00
*** AERMET - VERSION  16216 ***   ***                                                    19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
***        11:58:10                                                              23 .00000E+00    24  .00000E+00

PAGE  20
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                      * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

     HOUR   SCALAR      HOUR    SCALAR       HOUR    SCALAR      HOUR    SCALAR
HOUR    SCALAR      HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025522     ; SOURCE TYPE = VOLUME    :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
5  .00000E+00     6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01    12  .10000E+01
     13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00    18  .00000E+00
     19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025523     ; SOURCE TYPE = VOLUME    :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
5  .00000E+00     6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01    12  .10000E+01
     13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00    18  .00000E+00
     19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025524     ; SOURCE TYPE = VOLUME    :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
5  .00000E+00     6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01    12  .10000E+01
     13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00    18  .00000E+00
     19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025525     ; SOURCE TYPE = VOLUME    :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
5  .00000E+00     6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01    12  .10000E+01
     13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00    18  .00000E+00
     19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025526     ; SOURCE TYPE = VOLUME    :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
5  .00000E+00     6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01    12  .10000E+01
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc         ***    10/20/23
 *** AERMET - VERSION  16216 ***   ***
***       11:58:10
```

```
    13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17  .00000E+00    18  .00000E+00
    19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23  .00000E+00    24  .00000E+00
```

```
PAGE  21
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

     HOUR   SCALAR      HOUR    SCALAR        HOUR    SCALAR       HOUR    SCALAR
HOUR    SCALAR      HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025527    ; SOURCE TYPE = VOLUME   :
     1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
5   .00000E+00     6   .00000E+00
     7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
11  .10000E+01    12  .10000E+01
    13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17  .00000E+00    18  .00000E+00
    19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025528    ; SOURCE TYPE = VOLUME   :
     1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
5   .00000E+00     6   .00000E+00
     7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
11  .10000E+01    12  .10000E+01
    13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17  .00000E+00    18  .00000E+00
    19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025529    ; SOURCE TYPE = VOLUME   :
     1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
5   .00000E+00     6   .00000E+00
     7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
11  .10000E+01    12  .10000E+01
    13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17  .00000E+00    18  .00000E+00
    19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025530    ; SOURCE TYPE = VOLUME   :
     1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
5   .00000E+00     6   .00000E+00
     7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
11  .10000E+01    12  .10000E+01
    13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17  .00000E+00    18  .00000E+00
    19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025531    ; SOURCE TYPE = VOLUME   :
     1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
5   .00000E+00     6   .00000E+00
     7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
11  .10000E+01    12  .10000E+01
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc          ***      10/20/23
 *** AERMET - VERSION  16216 ***   ***
***       11:58:10
```

```
       13  .10000E+01     14  .10000E+01    15  .10000E+01    16  .00000E+00
   17  .00000E+00    18  .00000E+00
       19  .00000E+00     20  .00000E+00    21  .00000E+00    22  .00000E+00
   23  .00000E+00    24  .00000E+00
```

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PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                        * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

     HOUR   SCALAR       HOUR   SCALAR        HOUR   SCALAR       HOUR    SCALAR
HOUR    SCALAR       HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025532      ; SOURCE TYPE = VOLUME    :
       1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
 5  .00000E+00      6  .00000E+00
       7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01     12  .10000E+01
       13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00     18  .00000E+00
       19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00     24  .00000E+00


 SOURCE ID = L0025533      ; SOURCE TYPE = VOLUME    :
       1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
 5  .00000E+00      6  .00000E+00
       7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01     12  .10000E+01
       13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00     18  .00000E+00
       19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00     24  .00000E+00


 SOURCE ID = L0025534      ; SOURCE TYPE = VOLUME    :
       1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
 5  .00000E+00      6  .00000E+00
       7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01     12  .10000E+01
       13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00     18  .00000E+00
       19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00     24  .00000E+00


 SOURCE ID = L0025535      ; SOURCE TYPE = VOLUME    :
       1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
 5  .00000E+00      6  .00000E+00
       7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01     12  .10000E+01
       13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00     18  .00000E+00
       19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00     24  .00000E+00


 SOURCE ID = L0025536      ; SOURCE TYPE = VOLUME    :
       1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
 5  .00000E+00      6  .00000E+00
       7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01     12  .10000E+01
```

```
*** AERMOD - VERSION 21112 ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc        ***       10/20/23
*** AERMET - VERSION 16216 ***   ***
***      11:58:10
```

```
      13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17  .00000E+00    18  .00000E+00
      19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23  .00000E+00    24  .00000E+00
```

```
PAGE  23
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                      * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

     HOUR   SCALAR      HOUR    SCALAR       HOUR    SCALAR       HOUR    SCALAR
HOUR    SCALAR      HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025537    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
5  .00000E+00     6  .00000E+00
      7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
11  .10000E+01    12  .10000E+01
      13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17  .00000E+00    18  .00000E+00
      19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025538    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
5  .00000E+00     6  .00000E+00
      7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
11  .10000E+01    12  .10000E+01
      13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17  .00000E+00    18  .00000E+00
      19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025539    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
5  .00000E+00     6  .00000E+00
      7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
11  .10000E+01    12  .10000E+01
      13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17  .00000E+00    18  .00000E+00
      19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025540    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
5  .00000E+00     6  .00000E+00
      7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
11  .10000E+01    12  .10000E+01
      13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17  .00000E+00    18  .00000E+00
      19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025541    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
5  .00000E+00     6  .00000E+00
      7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
11  .10000E+01    12  .10000E+01
```

```
 *** AERMOD - VERSION 21112 ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360        13   .10000E+01    14   .10000E+01    15   .10000E+01    16   .00000E+00
Vine v2.isc        ***      10/20/23                                                    17  .00000E+00    18  .00000E+00
 *** AERMET - VERSION  16216 ***   ***                                                       19   .00000E+00    20   .00000E+00    21   .00000E+00    22   .00000E+00
***       11:58:10                                                                      23  .00000E+00    24  .00000E+00

PAGE  24
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                          * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

     HOUR   SCALAR       HOUR    SCALAR        HOUR    SCALAR        HOUR    SCALAR
HOUR    SCALAR      HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025542     ; SOURCE TYPE = VOLUME   :
       1   .00000E+00       2   .00000E+00       3   .00000E+00       4   .00000E+00
 5   .00000E+00       6   .00000E+00
       7   .00000E+00       8   .10000E+01       9   .10000E+01      10   .10000E+01
11   .10000E+01    12   .10000E+01
      13   .10000E+01      14   .10000E+01      15   .10000E+01      16   .00000E+00
17   .00000E+00    18   .00000E+00
      19   .00000E+00      20   .00000E+00      21   .00000E+00      22   .00000E+00
23   .00000E+00    24   .00000E+00


 SOURCE ID = L0025543     ; SOURCE TYPE = VOLUME   :
       1   .00000E+00       2   .00000E+00       3   .00000E+00       4   .00000E+00
 5   .00000E+00     6   .00000E+00
       7   .00000E+00       8   .10000E+01       9   .10000E+01      10   .10000E+01
11   .10000E+01    12   .10000E+01
      13   .10000E+01      14   .10000E+01      15   .10000E+01      16   .00000E+00
17   .00000E+00    18   .00000E+00
      19   .00000E+00      20   .00000E+00      21   .00000E+00      22   .00000E+00
23   .00000E+00    24   .00000E+00


 SOURCE ID = L0025544     ; SOURCE TYPE = VOLUME   :
       1   .00000E+00       2   .00000E+00       3   .00000E+00       4   .00000E+00
 5   .00000E+00     6   .00000E+00
       7   .00000E+00       8   .10000E+01       9   .10000E+01      10   .10000E+01
11   .10000E+01    12   .10000E+01
      13   .10000E+01      14   .10000E+01      15   .10000E+01      16   .00000E+00
17   .00000E+00    18   .00000E+00
      19   .00000E+00      20   .00000E+00      21   .00000E+00      22   .00000E+00
23   .00000E+00    24   .00000E+00


 SOURCE ID = L0025545     ; SOURCE TYPE = VOLUME   :
       1   .00000E+00       2   .00000E+00       3   .00000E+00       4   .00000E+00
 5   .00000E+00     6   .00000E+00
       7   .00000E+00       8   .10000E+01       9   .10000E+01      10   .10000E+01
11   .10000E+01    12   .10000E+01
      13   .10000E+01      14   .10000E+01      15   .10000E+01      16   .00000E+00
17   .00000E+00    18   .00000E+00
      19   .00000E+00      20   .00000E+00      21   .00000E+00      22   .00000E+00
23   .00000E+00    24   .00000E+00


 SOURCE ID = L0025546     ; SOURCE TYPE = VOLUME   :
       1   .00000E+00       2   .00000E+00       3   .00000E+00       4   .00000E+00
 5   .00000E+00     6   .00000E+00
       7   .00000E+00       8   .10000E+01       9   .10000E+01      10   .10000E+01
11   .10000E+01    12   .10000E+01
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
 Vine v2.isc        ***       10/20/23
 *** AERMET - VERSION  16216 ***   ***
 ***       11:58:10
```

```
       13   .10000E+01    14   .10000E+01    15   .10000E+01    16   .00000E+00
 17  .00000E+00   18  .00000E+00
       19   .00000E+00    20   .00000E+00    21   .00000E+00    22   .00000E+00
 23  .00000E+00   24  .00000E+00
```

```
 PAGE  25
  *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
 THE DAY *

      HOUR   SCALAR      HOUR    SCALAR       HOUR    SCALAR      HOUR    SCALAR
 HOUR     SCALAR     HOUR    SCALAR
  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025547     ; SOURCE TYPE = VOLUME    :
       1   .00000E+00     2   .00000E+00     3   .00000E+00     4   .00000E+00
 5   .00000E+00     6   .00000E+00
       7   .00000E+00     8   .10000E+01     9   .10000E+01    10   .10000E+01
 11  .10000E+01    12   .10000E+01
       13   .10000E+01    14   .10000E+01    15   .10000E+01    16   .00000E+00
 17  .00000E+00   18   .00000E+00
       19   .00000E+00    20   .00000E+00    21   .00000E+00    22   .00000E+00
 23  .00000E+00   24   .00000E+00


 SOURCE ID = L0025548     ; SOURCE TYPE = VOLUME    :
       1   .00000E+00     2   .00000E+00     3   .00000E+00     4   .00000E+00
 5   .00000E+00     6   .00000E+00
       7   .00000E+00     8   .10000E+01     9   .10000E+01    10   .10000E+01
 11  .10000E+01    12   .10000E+01
       13   .10000E+01    14   .10000E+01    15   .10000E+01    16   .00000E+00
 17  .00000E+00   18   .00000E+00
       19   .00000E+00    20   .00000E+00    21   .00000E+00    22   .00000E+00
 23  .00000E+00   24   .00000E+00


 SOURCE ID = L0025549     ; SOURCE TYPE = VOLUME    :
       1   .00000E+00     2   .00000E+00     3   .00000E+00     4   .00000E+00
 5   .00000E+00     6   .00000E+00
       7   .00000E+00     8   .10000E+01     9   .10000E+01    10   .10000E+01
 11  .10000E+01    12   .10000E+01
       13   .10000E+01    14   .10000E+01    15   .10000E+01    16   .00000E+00
 17  .00000E+00   18   .00000E+00
       19   .00000E+00    20   .00000E+00    21   .00000E+00    22   .00000E+00
 23  .00000E+00   24   .00000E+00


 SOURCE ID = L0025550     ; SOURCE TYPE = VOLUME    :
       1   .00000E+00     2   .00000E+00     3   .00000E+00     4   .00000E+00
 5   .00000E+00     6   .00000E+00
       7   .00000E+00     8   .10000E+01     9   .10000E+01    10   .10000E+01
 11  .10000E+01    12   .10000E+01
       13   .10000E+01    14   .10000E+01    15   .10000E+01    16   .00000E+00
 17  .00000E+00   18   .00000E+00
       19   .00000E+00    20   .00000E+00    21   .00000E+00    22   .00000E+00
 23  .00000E+00   24   .00000E+00


 SOURCE ID = L0025551     ; SOURCE TYPE = VOLUME    :
       1   .00000E+00     2   .00000E+00     3   .00000E+00     4   .00000E+00
 5   .00000E+00     6   .00000E+00
       7   .00000E+00     8   .10000E+01     9   .10000E+01    10   .10000E+01
 11  .10000E+01    12   .10000E+01
```

```
*** AERMOD - VERSION 21112 ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc        ***    10/20/23
*** AERMET - VERSION  16216 ***   ***
***       11:58:10
```

```
        13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17  .00000E+00    18  .00000E+00
        19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23  .00000E+00    24  .00000E+00
```

```
PAGE  26
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                       * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

      HOUR   SCALAR      HOUR   SCALAR       HOUR   SCALAR       HOUR   SCALAR
HOUR    SCALAR      HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025552    ; SOURCE TYPE = VOLUME   :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
      13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
17   .00000E+00     18   .00000E+00
      19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
23   .00000E+00     24   .00000E+00


 SOURCE ID = L0025553    ; SOURCE TYPE = VOLUME   :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
      13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
17   .00000E+00     18   .00000E+00
      19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
23   .00000E+00     24   .00000E+00


 SOURCE ID = L0025554    ; SOURCE TYPE = VOLUME   :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
      13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
17   .00000E+00     18   .00000E+00
      19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
23   .00000E+00     24   .00000E+00


 SOURCE ID = L0025555    ; SOURCE TYPE = VOLUME   :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
      13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
17   .00000E+00     18   .00000E+00
      19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
23   .00000E+00     24   .00000E+00


 SOURCE ID = L0025556    ; SOURCE TYPE = VOLUME   :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc        ***      10/20/23
 *** AERMET - VERSION  16216 ***   ***
***        11:58:10
```

```
       13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
  17  .00000E+00    18  .00000E+00
       19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
  23  .00000E+00    24  .00000E+00
```

```
PAGE  27
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                        * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

      HOUR   SCALAR       HOUR    SCALAR       HOUR    SCALAR       HOUR   SCALAR
HOUR    SCALAR      HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025557    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
 5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01     12  .10000E+01
      13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00     18  .00000E+00
      19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00     24  .00000E+00


 SOURCE ID = L0025558    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
 5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01     12  .10000E+01
      13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00     18  .00000E+00
      19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00     24  .00000E+00


 SOURCE ID = L0025559    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
 5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01     12  .10000E+01
      13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00     18  .00000E+00
      19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00     24  .00000E+00


 SOURCE ID = L0025560    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
 5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01     12  .10000E+01
      13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00     18  .00000E+00
      19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00     24  .00000E+00


 SOURCE ID = L0025561    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
 5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01     12  .10000E+01
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc          ***     10/20/23
 *** AERMET - VERSION  16216 ***   ***
***       11:58:10
```

```
PAGE  28
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                         * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

       HOUR   SCALAR       HOUR    SCALAR        HOUR    SCALAR        HOUR    SCALAR
HOUR     SCALAR       HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025562    ; SOURCE TYPE = VOLUME   :
     1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
 5   .00000E+00      6   .00000E+00
     7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
    13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
17   .00000E+00     18   .00000E+00
    19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
23   .00000E+00     24   .00000E+00


 SOURCE ID = L0025563    ; SOURCE TYPE = VOLUME   :
     1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
 5   .00000E+00      6   .00000E+00
     7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
    13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
17   .00000E+00     18   .00000E+00
    19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
23   .00000E+00     24   .00000E+00


 SOURCE ID = L0025564    ; SOURCE TYPE = VOLUME   :
     1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
 5   .00000E+00      6   .00000E+00
     7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
    13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
17   .00000E+00     18   .00000E+00
    19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
23   .00000E+00     24   .00000E+00


 SOURCE ID = L0025565    ; SOURCE TYPE = VOLUME   :
     1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
 5   .00000E+00      6   .00000E+00
     7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
    13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
17   .00000E+00     18   .00000E+00
    19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
23   .00000E+00     24   .00000E+00


 SOURCE ID = L0025566    ; SOURCE TYPE = VOLUME   :
     1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
 5   .00000E+00      6   .00000E+00
     7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
```

```
    13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
17   .00000E+00     18   .00000E+00
    19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
23   .00000E+00     24   .00000E+00
```

```
 *** AERMOD – VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360          13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
Vine v2.isc        ***    10/20/23                                                         17  .00000E+00    18  .00000E+00
 *** AERMET – VERSION  16216 ***   ***                                                         19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
***       11:58:10                                                                         23  .00000E+00    24  .00000E+00
```

```
PAGE  29
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

```
                         * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *
```

```
     HOUR   SCALAR      HOUR   SCALAR        HOUR   SCALAR      HOUR   SCALAR
HOUR    SCALAR      HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -
```

```
 SOURCE ID = L0025567      ; SOURCE TYPE = VOLUME   :
      1  .00000E+00       2  .00000E+00       3  .00000E+00       4  .00000E+00
 5  .00000E+00      6  .00000E+00
      7  .00000E+00       8  .10000E+01       9  .10000E+01      10  .10000E+01
11  .10000E+01     12  .10000E+01
     13  .10000E+01      14  .10000E+01      15  .10000E+01      16  .00000E+00
17  .00000E+00     18  .00000E+00
     19  .00000E+00      20  .00000E+00      21  .00000E+00      22  .00000E+00
23  .00000E+00     24  .00000E+00
```

```
 SOURCE ID = L0025568      ; SOURCE TYPE = VOLUME   :
      1  .00000E+00       2  .00000E+00       3  .00000E+00       4  .00000E+00
 5  .00000E+00      6  .00000E+00
      7  .00000E+00       8  .10000E+01       9  .10000E+01      10  .10000E+01
11  .10000E+01     12  .10000E+01
     13  .10000E+01      14  .10000E+01      15  .10000E+01      16  .00000E+00
17  .00000E+00     18  .00000E+00
     19  .00000E+00      20  .00000E+00      21  .00000E+00      22  .00000E+00
23  .00000E+00     24  .00000E+00
```

```
 SOURCE ID = L0025569      ; SOURCE TYPE = VOLUME   :
      1  .00000E+00       2  .00000E+00       3  .00000E+00       4  .00000E+00
 5  .00000E+00      6  .00000E+00
      7  .00000E+00       8  .10000E+01       9  .10000E+01      10  .10000E+01
11  .10000E+01     12  .10000E+01
     13  .10000E+01      14  .10000E+01      15  .10000E+01      16  .00000E+00
17  .00000E+00     18  .00000E+00
     19  .00000E+00      20  .00000E+00      21  .00000E+00      22  .00000E+00
23  .00000E+00     24  .00000E+00
```

```
 SOURCE ID = L0025570      ; SOURCE TYPE = VOLUME   :
      1  .00000E+00       2  .00000E+00       3  .00000E+00       4  .00000E+00
 5  .00000E+00      6  .00000E+00
      7  .00000E+00       8  .10000E+01       9  .10000E+01      10  .10000E+01
11  .10000E+01     12  .10000E+01
     13  .10000E+01      14  .10000E+01      15  .10000E+01      16  .00000E+00
17  .00000E+00     18  .00000E+00
     19  .00000E+00      20  .00000E+00      21  .00000E+00      22  .00000E+00
23  .00000E+00     24  .00000E+00
```

```
 SOURCE ID = L0025571      ; SOURCE TYPE = VOLUME   :
      1  .00000E+00       2  .00000E+00       3  .00000E+00       4  .00000E+00
 5  .00000E+00      6  .00000E+00
      7  .00000E+00       8  .10000E+01       9  .10000E+01      10  .10000E+01
11  .10000E+01     12  .10000E+01
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360          13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
Vine v2.isc         ***       10/20/23                                               17  .00000E+00    18  .00000E+00
 *** AERMET - VERSION  16216 ***   ***                                                    19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
***       11:58:10                                                                  23  .00000E+00    24  .00000E+00
```

```
PAGE  30
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                       * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

      HOUR   SCALAR      HOUR    SCALAR       HOUR    SCALAR       HOUR    SCALAR
HOUR    SCALAR      HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025572     ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01     12  .10000E+01
     13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00     18  .00000E+00
     19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00     24  .00000E+00


 SOURCE ID = L0025573     ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01     12  .10000E+01
     13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00     18  .00000E+00
     19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00     24  .00000E+00


 SOURCE ID = L0025574     ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01     12  .10000E+01
     13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00     18  .00000E+00
     19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00     24  .00000E+00


 SOURCE ID = L0025575     ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01     12  .10000E+01
     13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00     18  .00000E+00
     19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00     24  .00000E+00


 SOURCE ID = L0025576     ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01     12  .10000E+01
```

```
*** AERMOD - VERSION 21112 ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc          ***        10/20/23
*** AERMET - VERSION  16216 ***   ***
***        11:58:10
```

```
     13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
 17  .00000E+00     18  .00000E+00
     19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
 23  .00000E+00     24  .00000E+00
```

```
PAGE  31
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

```
                      * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *
```

```
     HOUR    SCALAR       HOUR    SCALAR       HOUR    SCALAR       HOUR    SCALAR
HOUR     SCALAR       HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -
```

```
 SOURCE ID = L0025577    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
 5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
 11  .10000E+01     12  .10000E+01
     13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
 17  .00000E+00     18  .00000E+00
     19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
 23  .00000E+00     24  .00000E+00
```

```
 SOURCE ID = L0025578    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
 5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
 11  .10000E+01     12  .10000E+01
     13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
 17  .00000E+00     18  .00000E+00
     19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
 23  .00000E+00     24  .00000E+00
```

```
 SOURCE ID = L0025579    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
 5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
 11  .10000E+01     12  .10000E+01
     13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
 17  .00000E+00     18  .00000E+00
     19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
 23  .00000E+00     24  .00000E+00
```

```
 SOURCE ID = L0025580    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
 5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
 11  .10000E+01     12  .10000E+01
     13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
 17  .00000E+00     18  .00000E+00
     19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
 23  .00000E+00     24  .00000E+00
```

```
 SOURCE ID = L0025581    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
 5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
 11  .10000E+01     12  .10000E+01
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360        13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
Vine v2.isc          ***      10/20/23                                            17  .00000E+00    18  .00000E+00
 *** AERMET - VERSION  16216 ***   ***                                              19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
 ***       11:58:10                                                              23  .00000E+00    24  .00000E+00
```

```
PAGE  32
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                         * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

      HOUR   SCALAR      HOUR    SCALAR       HOUR     SCALAR       HOUR     SCALAR
HOUR     SCALAR      HOUR     SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025582    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01    12  .10000E+01
      13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00    18  .00000E+00
      19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025583    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01    12  .10000E+01
      13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00    18  .00000E+00
      19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025584    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01    12  .10000E+01
      13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00    18  .00000E+00
      19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025585    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01    12  .10000E+01
      13  .10000E+01     14  .10000E+01     15  .10000E+01     16  .00000E+00
17  .00000E+00    18  .00000E+00
      19  .00000E+00     20  .00000E+00     21  .00000E+00     22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025586    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4  .00000E+00
5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .10000E+01      9  .10000E+01     10  .10000E+01
11  .10000E+01    12  .10000E+01
```

```
 *** AERMOD - VERSION 21112 ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360         13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
Vine v2.isc         ***      10/20/23                                              17  .00000E+00    18  .00000E+00
 *** AERMET - VERSION  16216 ***   ***                                                      19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
 ***      11:58:10                                                                 23  .00000E+00    24  .00000E+00

PAGE  33
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                       * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

     HOUR   SCALAR      HOUR    SCALAR        HOUR    SCALAR       HOUR    SCALAR
HOUR    SCALAR      HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025587     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
 5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
17   .00000E+00     18   .00000E+00
     19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
23   .00000E+00     24   .00000E+00


 SOURCE ID = L0025588     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
 5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
17   .00000E+00     18   .00000E+00
     19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
23   .00000E+00     24   .00000E+00


 SOURCE ID = L0025589     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
 5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
17   .00000E+00     18   .00000E+00
     19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
23   .00000E+00     24   .00000E+00


 SOURCE ID = L0025590     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
 5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
17   .00000E+00     18   .00000E+00
     19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
23   .00000E+00     24   .00000E+00


 SOURCE ID = L0025591     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
 5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
```

```
 *** AERMOD – VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc         ***     10/20/23
 *** AERMET – VERSION  16216 ***   ***
***       11:58:10
```

```
      13  .10000E+01     14  .10000E+01    15  .10000E+01    16  .00000E+00
17  .00000E+00    18  .00000E+00
      19  .00000E+00     20  .00000E+00    21  .00000E+00    22  .00000E+00
23  .00000E+00    24  .00000E+00
```

PAGE 34
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

      HOUR   SCALAR      HOUR    SCALAR       HOUR    SCALAR       HOUR    SCALAR
HOUR    SCALAR      HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0025592    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
5  .00000E+00     6  .00000E+00
      7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
11  .10000E+01    12  .10000E+01
      13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17  .00000E+00    18  .00000E+00
      19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025593    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
5  .00000E+00     6  .00000E+00
      7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
11  .10000E+01    12  .10000E+01
      13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17  .00000E+00    18  .00000E+00
      19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025594    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
5  .00000E+00     6  .00000E+00
      7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
11  .10000E+01    12  .10000E+01
      13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17  .00000E+00    18  .00000E+00
      19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025595    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
5  .00000E+00     6  .00000E+00
      7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
11  .10000E+01    12  .10000E+01
      13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17  .00000E+00    18  .00000E+00
      19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23  .00000E+00    24  .00000E+00


 SOURCE ID = L0025596    ; SOURCE TYPE = VOLUME   :
      1  .00000E+00     2  .00000E+00     3  .00000E+00     4  .00000E+00
5  .00000E+00     6  .00000E+00
      7  .00000E+00     8  .10000E+01     9  .10000E+01    10  .10000E+01
11  .10000E+01    12  .10000E+01
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc         ***     10/20/23
 *** AERMET - VERSION  16216 ***   ***
***        11:58:10
```

```
     13   .10000E+01    14   .10000E+01    15   .10000E+01    16   .00000E+00
17  .00000E+00    18   .00000E+00
     19   .00000E+00    20   .00000E+00    21   .00000E+00    22   .00000E+00
23  .00000E+00    24   .00000E+00
```

```
PAGE  35
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                       * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

     HOUR    SCALAR      HOUR    SCALAR      HOUR    SCALAR      HOUR    SCALAR
HOUR     SCALAR      HOUR    SCALAR
  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0012220     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00     2   .00000E+00     3   .00000E+00     4   .00000E+00
5   .00000E+00     6   .00000E+00
      7   .00000E+00     8   .10000E+01     9   .10000E+01    10   .10000E+01
11   .10000E+01    12   .10000E+01
     13   .10000E+01    14   .10000E+01    15   .10000E+01    16   .00000E+00
17   .00000E+00    18   .00000E+00
     19   .00000E+00    20   .00000E+00    21   .00000E+00    22   .00000E+00
23   .00000E+00    24   .00000E+00


 SOURCE ID = L0012221     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00     2   .00000E+00     3   .00000E+00     4   .00000E+00
5   .00000E+00     6   .00000E+00
      7   .00000E+00     8   .10000E+01     9   .10000E+01    10   .10000E+01
11   .10000E+01    12   .10000E+01
     13   .10000E+01    14   .10000E+01    15   .10000E+01    16   .00000E+00
17   .00000E+00    18   .00000E+00
     19   .00000E+00    20   .00000E+00    21   .00000E+00    22   .00000E+00
23   .00000E+00    24   .00000E+00


 SOURCE ID = L0012222     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00     2   .00000E+00     3   .00000E+00     4   .00000E+00
5   .00000E+00     6   .00000E+00
      7   .00000E+00     8   .10000E+01     9   .10000E+01    10   .10000E+01
11   .10000E+01    12   .10000E+01
     13   .10000E+01    14   .10000E+01    15   .10000E+01    16   .00000E+00
17   .00000E+00    18   .00000E+00
     19   .00000E+00    20   .00000E+00    21   .00000E+00    22   .00000E+00
23   .00000E+00    24   .00000E+00


 SOURCE ID = L0012223     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00     2   .00000E+00     3   .00000E+00     4   .00000E+00
5   .00000E+00     6   .00000E+00
      7   .00000E+00     8   .10000E+01     9   .10000E+01    10   .10000E+01
11   .10000E+01    12   .10000E+01
     13   .10000E+01    14   .10000E+01    15   .10000E+01    16   .00000E+00
17   .00000E+00    18   .00000E+00
     19   .00000E+00    20   .00000E+00    21   .00000E+00    22   .00000E+00
23   .00000E+00    24   .00000E+00


 SOURCE ID = L0012224     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00     2   .00000E+00     3   .00000E+00     4   .00000E+00
5   .00000E+00     6   .00000E+00
      7   .00000E+00     8   .10000E+01     9   .10000E+01    10   .10000E+01
11   .10000E+01    12   .10000E+01
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc          ***        10/20/23
 *** AERMET - VERSION  16216 ***   ***
***        11:58:10

PAGE  36
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                        * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

      HOUR    SCALAR      HOUR    SCALAR       HOUR    SCALAR      HOUR    SCALAR
HOUR     SCALAR      HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -


 SOURCE ID = L0012225     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
17   .00000E+00     18   .00000E+00
     19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
23   .00000E+00     24   .00000E+00


 SOURCE ID = L0012226     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
17   .00000E+00     18   .00000E+00
     19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
23   .00000E+00     24   .00000E+00


 SOURCE ID = L0012227     ; SOURCE TYPE = VOLUME   :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
17   .00000E+00     18   .00000E+00
     19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
23   .00000E+00     24   .00000E+00


 SOURCE ID = GENERATOR    ; SOURCE TYPE = POINT    :
      1   .00000E+00      2   .00000E+00      3   .00000E+00      4   .00000E+00
5   .00000E+00      6   .00000E+00
      7   .00000E+00      8   .10000E+01      9   .10000E+01     10   .10000E+01
11   .10000E+01     12   .10000E+01
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .00000E+00
17   .00000E+00     18   .00000E+00
     19   .00000E+00     20   .00000E+00     21   .00000E+00     22   .00000E+00
23   .00000E+00     24   .00000E+00
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc        ***      10/20/23
 *** AERMET - VERSION  16216 ***   ***
***        11:58:10

PAGE  37
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


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


      ( 377663.4, 3773482.1,    100.5,    100.5,     0.0);         ( 377668.4,
3773482.1,    100.5,    100.5,     0.0);
      ( 377673.4, 3773482.1,    100.5,    100.5,     0.0);         ( 377678.4,
3773482.1,    100.5,    100.5,     0.0);
      ( 377683.4, 3773482.1,    100.5,    100.5,     0.0);         ( 377688.4,
3773482.1,    100.5,    100.5,     0.0);
      ( 377693.4, 3773482.1,    100.4,    100.4,     0.0);         ( 377698.4,
3773482.1,    100.4,    100.4,     0.0);
      ( 377703.4, 3773482.1,    100.4,    100.4,     0.0);         ( 377708.4,
3773482.1,    100.4,    100.4,     0.0);
      ( 377713.4, 3773482.1,    100.4,    100.4,     0.0);         ( 377718.4,
3773482.1,    100.3,    100.3,     0.0);
      ( 377723.4, 3773482.1,    100.3,    100.3,     0.0);         ( 377728.4,
3773482.1,    100.3,    100.3,     0.0);
      ( 377733.4, 3773482.1,    100.3,    100.3,     0.0);         ( 377738.4,
3773482.1,    100.2,    100.2,     0.0);
      ( 377743.4, 3773482.1,    100.2,    100.2,     0.0);         ( 377748.4,
3773482.1,    100.2,    100.2,     0.0);
      ( 377753.4, 3773482.1,    100.2,    100.2,     0.0);         ( 377758.4,
3773482.1,    100.2,    100.2,     0.0);
      ( 377763.4, 3773482.1,    100.2,    100.2,     0.0);         ( 377768.4,
3773482.1,    100.2,    100.2,     0.0);
      ( 377773.4, 3773482.1,    100.3,    100.3,     0.0);         ( 377778.4,
3773482.1,    100.3,    100.3,     0.0);
      ( 377783.4, 3773482.1,    100.3,    100.3,     0.0);         ( 377788.4,
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      ( 377793.4, 3773482.1,    100.4,    100.4,     0.0);         ( 377798.4,
3773482.1,    100.4,    100.4,     0.0);
      ( 377803.4, 3773482.1,    100.4,    100.4,     0.0);         ( 377663.4,
3773487.1,    100.6,    100.6,     0.0);
      ( 377668.4, 3773487.1,    100.5,    100.5,     0.0);         ( 377673.4,
3773487.1,    100.5,    100.5,     0.0);
      ( 377678.4, 3773487.1,    100.5,    100.5,     0.0);         ( 377683.4,
3773487.1,    100.5,    100.5,     0.0);
      ( 377688.4, 3773487.1,    100.5,    100.5,     0.0);         ( 377693.4,
3773487.1,    100.5,    100.5,     0.0);
      ( 377698.4, 3773487.1,    100.5,    100.5,     0.0);         ( 377703.4,
3773487.1,    100.5,    100.5,     0.0);
      ( 377708.4, 3773487.1,    100.5,    100.5,     0.0);         ( 377713.4,
3773487.1,    100.5,    100.5,     0.0);
      ( 377718.4, 3773487.1,    100.4,    100.4,     0.0);         ( 377723.4,
3773487.1,    100.4,    100.4,     0.0);
      ( 377728.4, 3773487.1,    100.4,    100.4,     0.0);         ( 377733.4,
3773487.1,    100.4,    100.4,     0.0);
      ( 377738.4, 3773487.1,    100.3,    100.3,     0.0);         ( 377743.4,
3773487.1,    100.3,    100.3,     0.0);
      ( 377748.4, 3773487.1,    100.3,    100.3,     0.0);         ( 377753.4,
3773487.1,    100.3,    100.3,     0.0);
      ( 377758.4, 3773487.1,    100.3,    100.3,     0.0);         ( 377763.4,
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      ( 377768.4, 3773487.1,    100.3,    100.3,     0.0);         ( 377773.4,
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      ( 377778.4, 3773487.1,    100.4,    100.4,     0.0);         ( 377783.4,
3773487.1,    100.4,    100.4,     0.0);
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      ( 377788.4, 3773487.1,    100.4,    100.4,     0.0);         ( 377793.4,
3773487.1,    100.4,    100.4,     0.0);
      ( 377798.4, 3773487.1,    100.4,    100.4,     0.0);         ( 377803.4,
3773487.1,    100.5,    100.5,     0.0);
      ( 377663.4, 3773492.1,    100.6,    100.6,     0.0);         ( 377668.4,
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      ( 377673.4, 3773492.1,    100.6,    100.6,     0.0);         ( 377678.4,
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      ( 377683.4, 3773492.1,    100.6,    100.6,     0.0);         ( 377688.4,
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      ( 377693.4, 3773492.1,    100.6,    100.6,     0.0);         ( 377698.4,
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      ( 377703.4, 3773492.1,    100.6,    100.6,     0.0);         ( 377708.4,
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      ( 377713.4, 3773492.1,    100.5,    100.5,     0.0);         ( 377718.4,
3773492.1,    100.5,    100.5,     0.0);
      ( 377723.4, 3773492.1,    100.5,    100.5,     0.0);         ( 377728.4,
3773492.1,    100.5,    100.5,     0.0);
      ( 377733.4, 3773492.1,    100.5,    100.5,     0.0);         ( 377738.4,
3773492.1,    100.5,    100.5,     0.0);
      ( 377743.4, 3773492.1,    100.4,    100.4,     0.0);         ( 377748.4,
3773492.1,    100.4,    100.4,     0.0);
      ( 377753.4, 3773492.1,    100.4,    100.4,     0.0);         ( 377758.4,
3773492.1,    100.4,    100.4,     0.0);
      ( 377763.4, 3773492.1,    100.4,    100.4,     0.0);         ( 377768.4,
3773492.1,    100.4,    100.4,     0.0);
      ( 377773.4, 3773492.1,    100.5,    100.5,     0.0);         ( 377778.4,
3773492.1,    100.5,    100.5,     0.0);
      ( 377783.4, 3773492.1,    100.5,    100.5,     0.0);         ( 377788.4,
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      ( 377793.4, 3773492.1,    100.5,    100.5,     0.0);         ( 377798.4,
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      ( 377803.4, 3773492.1,    100.5,    100.5,     0.0);         ( 377663.4,
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      ( 377668.4, 3773497.1,    100.7,    100.7,     0.0);         ( 377673.4,
3773497.1,    100.7,    100.7,     0.0);
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 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc          ***        10/20/23
 *** AERMET - VERSION  16216 ***   ***
***        11:58:10

PAGE  38
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


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


      ( 377678.4, 3773497.1,    100.7,    100.7,     0.0);       ( 377683.4,
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      ( 377688.4, 3773497.1,    100.7,    100.7,     0.0);       ( 377693.4,
3773497.1,    100.7,    100.7,     0.0);
      ( 377698.4, 3773497.1,    100.7,    100.7,     0.0);       ( 377703.4,
3773497.1,    100.7,    100.7,     0.0);
      ( 377708.4, 3773497.1,    100.6,    100.6,     0.0);       ( 377713.4,
3773497.1,    100.6,    100.6,     0.0);
      ( 377718.4, 3773497.1,    100.6,    100.6,     0.0);       ( 377723.4,
3773497.1,    100.6,    100.6,     0.0);
      ( 377728.4, 3773497.1,    100.6,    100.6,     0.0);       ( 377733.4,
3773497.1,    100.6,    100.6,     0.0);
      ( 377738.4, 3773497.1,    100.5,    100.5,     0.0);       ( 377743.4,
3773497.1,    100.5,    100.5,     0.0);
      ( 377748.4, 3773497.1,    100.5,    100.5,     0.0);       ( 377753.4,
3773497.1,    100.5,    100.5,     0.0);
      ( 377758.4, 3773497.1,    100.5,    100.5,     0.0);       ( 377763.4,
3773497.1,    100.5,    100.5,     0.0);
      ( 377768.4, 3773497.1,    100.5,    100.5,     0.0);       ( 377773.4,
3773497.1,    100.5,    100.5,     0.0);
      ( 377778.4, 3773497.1,    100.5,    100.5,     0.0);       ( 377783.4,
3773497.1,    100.6,    100.6,     0.0);
      ( 377788.4, 3773497.1,    100.6,    100.6,     0.0);       ( 377793.4,
3773497.1,    100.6,    100.6,     0.0);
      ( 377798.4, 3773497.1,    100.6,    100.6,     0.0);       ( 377803.4,
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      ( 377753.4, 3773502.1,    100.6,    100.6,     0.0);       ( 377758.4,
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      ( 377763.4, 3773502.1,    100.6,    100.6,     0.0);       ( 377768.4,
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      ( 377752.3, 3773525.1,    101.0,    101.0,     0.0);       ( 377757.3,
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      ( 377762.3, 3773525.1,    101.0,    101.0,     0.0);       ( 377767.3,
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      ( 377752.3, 3773530.1,    101.1,    101.1,     0.0);       ( 377757.3,
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      ( 377762.3, 3773530.1,    101.1,    101.1,     0.0);       ( 377767.3,
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      ( 377772.3, 3773530.1,    101.1,    101.1,     0.0);       ( 377777.3,
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      ( 377792.3, 3773530.1,    101.1,    101.1,     0.0);       ( 377797.3,
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      ( 377742.3, 3773535.1,    101.1,    101.1,     0.0);       ( 377747.3,
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      ( 377752.3, 3773535.1,    101.2,    101.2,     0.0);       ( 377757.3,
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      ( 377762.3, 3773535.1,    101.2,    101.2,     0.0);       ( 377767.3,
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      ( 377772.3, 3773535.1,    101.1,    101.1,     0.0);       ( 377777.3,
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      ( 377772.3, 3773540.1,    101.2,    101.2,     0.0);       ( 377777.3,
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      ( 377782.3, 3773540.1,    101.2,    101.2,     0.0);       ( 377787.3,
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      ( 377742.3, 3773545.1,    101.3,    101.3,     0.0);       ( 377747.3,
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      ( 377752.3, 3773545.1,    101.3,    101.3,     0.0);       ( 377757.3,
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      ( 377762.3, 3773545.1,    101.3,    101.3,     0.0);       ( 377767.3,
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      ( 377772.3, 3773545.1,    101.3,    101.3,     0.0);       ( 377777.3,
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      ( 377792.3, 3773545.1,    101.3,    101.3,     0.0);       ( 377797.3,
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      ( 377757.3, 3773550.1,    101.4,    101.4,     0.0);       ( 377762.3,
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      ( 377777.3, 3773550.1,    101.3,    101.3,     0.0);       ( 377782.3,
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      ( 377787.3, 3773550.1,    101.3,    101.3,     0.0);       ( 377792.3,
3773550.1,    101.4,    101.4,     0.0);
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 *** AERMOD - VERSION 21112 ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc         ***       10/20/23
 *** AERMET - VERSION  16216 ***   ***
***        11:58:10

PAGE  39
 *** MODELOPTs:   RegDFAULT CONC ELEV URBAN ADJ_U*


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

     ( 377797.3, 3773550.1,    101.4,    101.4,    0.0);        ( 377742.3,
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     ( 377747.3, 3773555.1,    101.5,    101.5,    0.0);        ( 377752.3,
3773555.1,    101.5,    101.5,    0.0);
     ( 377757.3, 3773555.1,    101.5,    101.5,    0.0);        ( 377762.3,
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     ( 377767.3, 3773555.1,    101.5,    101.5,    0.0);        ( 377772.3,
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     ( 377777.3, 3773555.1,    101.4,    101.4,    0.0);        ( 377742.3,
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     ( 377747.3, 3773560.1,    101.6,    101.6,    0.0);        ( 377752.3,
3773560.1,    101.6,    101.6,    0.0);
     ( 377757.3, 3773560.1,    101.6,    101.6,    0.0);        ( 377762.3,
3773560.1,    101.5,    101.5,    0.0);
     ( 377767.3, 3773560.1,    101.5,    101.5,    0.0);        ( 377772.3,
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     ( 377752.3, 3773570.1,    101.8,    101.8,    0.0);        ( 377757.3,
3773570.1,    101.8,    101.8,    0.0);
     ( 377762.3, 3773570.1,    101.8,    101.8,    0.0);        ( 377767.3,
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     ( 377772.3, 3773570.1,    101.8,    101.8,    0.0);        ( 377777.3,
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     ( 377782.3, 3773570.1,    101.7,    101.7,    0.0);        ( 377787.3,
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     ( 377792.3, 3773570.1,    101.7,    101.7,    0.0);        ( 377797.3,
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     ( 377737.3, 3773575.1,    101.9,    101.9,    0.0);        ( 377742.3,
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     ( 377747.3, 3773575.1,    101.9,    101.9,    0.0);        ( 377752.3,
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     ( 377757.3, 3773575.1,    101.9,    101.9,    0.0);        ( 377762.3,
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     ( 377777.3, 3773575.1,    101.8,    101.8,    0.0);        ( 377782.3,
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     ( 377787.3, 3773575.1,    101.8,    101.8,    0.0);        ( 377792.3,
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     ( 377752.3, 3773580.1,    102.0,    102.0,    0.0);        ( 377757.3,
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     ( 377762.3, 3773580.1,    102.0,    102.0,    0.0);        ( 377767.3,
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     ( 377772.3, 3773580.1,    102.0,    102.0,    0.0);        ( 377777.3,
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     ( 377782.3, 3773580.1,    101.9,    101.9,    0.0);        ( 377787.3,
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     ( 377767.3, 3773585.1,    102.1,    102.1,    0.0);        ( 377772.3,
3773585.1,    102.1,    102.1,    0.0);
     ( 377777.3, 3773585.1,    102.1,    102.1,    0.0);        ( 377782.3,
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     ( 377787.3, 3773585.1,    102.0,    102.0,    0.0);        ( 377792.3,
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     ( 377797.3, 3773585.1,    102.1,    102.1,    0.0);        ( 377727.3,
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     ( 377752.3, 3773590.1,    102.3,    102.3,    0.0);        ( 377757.3,
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     ( 377762.3, 3773590.1,    102.3,    102.3,    0.0);        ( 377767.3,
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     ( 377772.3, 3773590.1,    102.2,    102.2,    0.0);        ( 377777.3,
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     ( 377782.3, 3773590.1,    102.1,    102.1,    0.0);        ( 377787.3,
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     ( 377792.3, 3773590.1,    102.2,    102.2,    0.0);        ( 377797.3,
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 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc         ***      10/20/23
 *** AERMET - VERSION  16216 ***   ***
***      11:58:10

PAGE  40
 *** MODELOPTs:   RegDFAULT CONC  ELEV  URBAN ADJ_U*


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

      ( 377747.3, 3773595.1,   102.3,    102.3,     0.0);        ( 377752.3,
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      ( 377757.3, 3773595.1,   102.3,    102.3,     0.0);        ( 377762.3,
3773595.1,    102.3,    102.3,      0.0);
      ( 377767.3, 3773595.1,   102.3,    102.3,     0.0);        ( 377772.3,
3773595.1,    102.2,    102.2,      0.0);
      ( 377777.3, 3773595.1,   102.2,    102.2,     0.0);        ( 377782.3,
3773595.1,    102.2,    102.2,      0.0);
      ( 377787.3, 3773595.1,   102.2,    102.2,     0.0);        ( 377792.3,
3773595.1,    102.2,    102.2,      0.0);
      ( 377797.3, 3773595.1,   102.3,    102.3,     0.0);        ( 377727.3,
3773600.1,    102.3,    102.3,      0.0);
      ( 377732.3, 3773600.1,   102.3,    102.3,     0.0);        ( 377737.3,
3773600.1,    102.3,    102.3,      0.0);
      ( 377742.3, 3773600.1,   102.3,    102.3,     0.0);        ( 377747.3,
3773600.1,    102.3,    102.3,      0.0);
      ( 377752.3, 3773600.1,   102.3,    102.3,     0.0);        ( 377757.3,
3773600.1,    102.4,    102.4,      0.0);
      ( 377762.3, 3773600.1,   102.4,    102.4,     0.0);        ( 377767.3,
3773600.1,    102.3,    102.3,      0.0);
      ( 377772.3, 3773600.1,   102.3,    102.3,     0.0);        ( 377777.3,
3773600.1,    102.2,    102.2,      0.0);
      ( 377782.3, 3773600.1,   102.2,    102.2,     0.0);        ( 377787.3,
3773600.1,    102.2,    102.2,      0.0);
      ( 377792.3, 3773600.1,   102.3,    102.3,     0.0);        ( 377797.3,
3773600.1,    102.3,    102.3,      0.0);
      ( 377742.3, 3773605.1,   102.3,    102.3,     0.0);        ( 377747.3,
3773605.1,    102.4,    102.4,      0.0);
      ( 377752.3, 3773605.1,   102.4,    102.4,     0.0);        ( 377757.3,
3773605.1,    102.4,    102.4,      0.0);
      ( 377762.3, 3773605.1,   102.4,    102.4,     0.0);        ( 377767.3,
3773605.1,    102.4,    102.4,      0.0);
      ( 377772.3, 3773605.1,   102.3,    102.3,     0.0);        ( 377777.3,
3773605.1,    102.3,    102.3,      0.0);
      ( 377782.3, 3773605.1,   102.3,    102.3,     0.0);        ( 377787.3,
3773605.1,    102.3,    102.3,      0.0);
      ( 377792.3, 3773605.1,   102.3,    102.3,     0.0);        ( 377797.3,
3773605.1,    102.4,    102.4,      0.0);
      ( 377695.9, 3773630.3,   103.1,    103.1,     0.0);        ( 377700.9,
3773630.3,    103.1,    103.1,      0.0);
      ( 377740.9, 3773630.3,   102.8,    102.8,     0.0);        ( 377745.9,
3773630.3,    102.8,    102.8,      0.0);
      ( 377750.9, 3773630.3,   102.8,    102.8,     0.0);        ( 377755.9,
3773630.3,    102.9,    102.9,      0.0);
      ( 377760.9, 3773630.3,   102.9,    102.9,     0.0);        ( 377765.9,
3773630.3,    102.8,    102.8,      0.0);
      ( 377770.9, 3773630.3,   102.8,    102.8,     0.0);        ( 377775.9,
3773630.3,    102.8,    102.8,      0.0);
      ( 377695.9, 3773635.3,   103.3,    103.3,     0.0);        ( 377700.9,
3773635.3,    103.2,    103.2,      0.0);
      ( 377740.9, 3773635.3,   102.9,    102.9,     0.0);        ( 377745.9,
3773635.3,    103.0,    103.0,      0.0);
      ( 377750.9, 3773635.3,   103.0,    103.0,     0.0);        ( 377755.9,
3773635.3,    103.0,    103.0,      0.0);
```

```
      ( 377760.9, 3773635.3,   103.0,    103.0,     0.0);        ( 377765.9,
3773635.3,    103.0,    103.0,      0.0);
      ( 377770.9, 3773635.3,   103.0,    103.0,     0.0);        ( 377775.9,
3773635.3,    102.9,    102.9,      0.0);
      ( 377695.9, 3773640.3,   103.4,    103.4,     0.0);        ( 377700.9,
3773640.3,    103.4,    103.4,      0.0);
      ( 377740.9, 3773640.3,   103.1,    103.1,     0.0);        ( 377745.9,
3773640.3,    103.1,    103.1,      0.0);
      ( 377750.9, 3773640.3,   103.2,    103.2,     0.0);        ( 377755.9,
3773640.3,    103.2,    103.2,      0.0);
      ( 377760.9, 3773640.3,   103.2,    103.2,     0.0);        ( 377765.9,
3773640.3,    103.2,    103.2,      0.0);
      ( 377770.9, 3773640.3,   103.1,    103.1,     0.0);        ( 377775.9,
3773640.3,    103.1,    103.1,      0.0);
      ( 377695.9, 3773645.3,   103.6,    103.6,     0.0);        ( 377700.9,
3773645.3,    103.5,    103.5,      0.0);
      ( 377740.9, 3773645.3,   103.2,    103.2,     0.0);        ( 377745.9,
3773645.3,    103.3,    103.3,      0.0);
      ( 377750.9, 3773645.3,   103.3,    103.3,     0.0);        ( 377755.9,
3773645.3,    103.4,    103.4,      0.0);
      ( 377760.9, 3773645.3,   103.4,    103.4,     0.0);        ( 377765.9,
3773645.3,    103.4,    103.4,      0.0);
      ( 377770.9, 3773645.3,   103.3,    103.3,     0.0);        ( 377775.9,
3773645.3,    103.3,    103.3,      0.0);
      ( 377695.9, 3773650.3,   103.8,    103.8,     0.0);        ( 377700.9,
3773650.3,    103.7,    103.7,      0.0);
      ( 377740.9, 3773650.3,   103.4,    553.7,     0.0);        ( 377745.9,
3773650.3,    103.4,    553.7,      0.0);
      ( 377750.9, 3773650.3,   103.5,    553.7,     0.0);        ( 377755.9,
3773650.3,    103.5,    553.7,      0.0);
      ( 377695.9, 3773655.3,   103.9,    553.7,     0.0);        ( 377700.9,
3773655.3,    103.8,    553.7,      0.0);
      ( 377740.9, 3773655.3,   103.5,    553.7,     0.0);        ( 377745.9,
3773655.3,    103.6,    553.7,      0.0);
      ( 377750.9, 3773655.3,   103.6,    553.7,     0.0);        ( 377755.9,
3773655.3,    103.6,    553.7,      0.0);
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc        ***       10/20/23
 *** AERMET - VERSION  16216 ***   ***
***        11:58:10

PAGE  41
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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


     ( 377695.9, 3773660.3,    104.0,    553.7,      0.0);      ( 377700.9,
3773660.3,    103.9,    553.7,      0.0);
     ( 377705.9, 3773660.3,    103.8,    553.7,      0.0);      ( 377720.9,
3773670.3,    103.9,    553.7,      0.0);
     ( 377725.9, 3773670.3,    103.9,    553.7,      0.0);      ( 377730.9,
3773670.3,    103.9,    553.7,      0.0);
     ( 377735.9, 3773670.3,    104.0,    553.7,      0.0);      ( 377720.9,
3773675.3,    104.0,    553.7,      0.0);
     ( 377725.9, 3773675.3,    104.1,    553.7,      0.0);      ( 377730.9,
3773675.3,    104.1,    553.7,      0.0);
     ( 377735.9, 3773675.3,    104.1,    553.7,      0.0);      ( 377720.9,
3773680.3,    104.1,    553.7,      0.0);
     ( 377725.9, 3773680.3,    104.2,    553.7,      0.0);      ( 377730.9,
3773680.3,    104.2,    553.7,      0.0);
     ( 377735.9, 3773680.3,    104.3,    553.7,      0.0);      ( 377720.9,
3773685.3,    104.2,    553.7,      0.0);
     ( 377725.9, 3773685.3,    104.3,    553.7,      0.0);      ( 377730.9,
3773685.3,    104.3,    553.7,      0.0);
     ( 377735.9, 3773685.3,    104.3,    553.7,      0.0);
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc         ***        10/20/23
 *** AERMET - VERSION  16216 ***   ***
***        11:58:10

PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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


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


         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 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc          ***       10/20/23
 *** AERMET - VERSION  16216 ***   ***
***       11:58:10


PAGE  43
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

   Surface file:   KCQT_V9_ADJU\KCQT_v9.SFC
Met Version: 16216
   Profile file:   KCQT_V9_ADJU\KCQT_v9.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:    93134              Upper air station no.:    3190
              Name: UNKNOWN                              Name: UNKNOWN
              Year:   2012                               Year:   2012

 First 24 hours of scalar data
 YR MO DY JDY HR    H0      U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0 BOWEN ALBEDO
REF WS   WD    HT REF TA    HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
 12 01 01   1 01   -4.2  0.081 -9.000 -9.000 -999.   56.     11.6  0.27  2.83   1.00
0.64  306.   5.8 283.1    2.0
 12 01 01   1 02   -5.0  0.089 -9.000 -9.000 -999.   63.     12.6  0.27  2.83   1.00
0.70  334.   5.8 283.1    2.0
 12 01 01   1 03  -10.7  0.131 -9.000 -9.000 -999.  114.     19.1  0.27  2.83   1.00
1.01  357.   5.8 283.1    2.0
 12 01 01   1 04  -18.5  0.186 -9.000 -9.000 -999.  192.     38.0  0.27  2.83   1.00
1.40   15.   5.8 285.4    2.0
 12 01 01   1 05  -16.0  0.162 -9.000 -9.000 -999.  157.     28.9  0.27  2.83   1.00
1.23   44.   5.8 284.2    2.0
 12 01 01   1 06   -6.9  0.104 -9.000 -9.000 -999.   82.     14.9  0.27  2.83   1.00
0.82    7.   5.8 282.5    2.0
 12 01 01   1 07   -3.2  0.071 -9.000 -9.000 -999.   46.     10.4  0.27  2.83   1.00
0.55  282.   5.8 281.4    2.0
 12 01 01   1 08   -7.9  0.119 -9.000 -9.000 -999.   99.     19.4  0.27  2.83   0.55
0.92  359.   5.8 282.5    2.0
 12 01 01   1 09   38.2  0.213  0.345  0.006   39.  237.    -23.0  0.27  2.83   0.32
1.38    8.   5.8 290.4    2.0
 12 01 01   1 10  112.7  0.212  0.730  0.006  125.  235.     -7.7  0.27  2.83   0.24
1.18   14.   5.8 294.9    2.0
 12 01 01   1 11  164.8  0.219  1.173  0.005  355.  246.     -5.8  0.27  2.83   0.21
1.16    6.   5.8 297.5    2.0
 12 01 01   1 12  191.0  0.225  1.516  0.005  660.  257.     -5.4  0.27  2.83   0.20
1.18   34.   5.8 299.2    2.0
 12 01 01   1 13  189.9  0.179  1.806  0.005 1122.  183.     -2.7  0.27  2.83   0.20
0.82  117.   5.8 299.9    2.0
 12 01 01   1 14  162.6  0.158  1.858  0.005 1426.  150.     -2.2  0.27  2.83   0.21
0.69  144.   5.8 300.4    2.0
 12 01 01   1 15  109.2  0.201  1.670  0.005 1541.  216.     -6.7  0.27  2.83   0.25
1.09  202.   5.8 299.9    2.0
 12 01 01   1 16   32.0  0.301  1.113  0.005 1557.  395.    -76.6  0.27  2.83   0.33
2.15  275.   5.8 295.4    2.0
 12 01 01   1 17  -16.0  0.187 -9.000 -9.000 -999.  200.     38.3  0.27  2.83   0.60
1.40  287.   5.8 291.4    2.0
 12 01 01   1 18  -15.4  0.159 -9.000 -9.000 -999.  153.     27.9  0.27  2.83   1.00
1.21  295.   5.8 288.8    2.0
 12 01 01   1 19   -5.2  0.091 -9.000 -9.000 -999.   67.     13.0  0.27  2.83   1.00
0.72  286.   5.8 287.5    2.0
 12 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.27  2.83   1.00
0.00    0.   5.8 286.4    2.0
```

```
 12 01 01   1 21   -2.9  0.069 -9.000 -9.000 -999.   44.     10.3  0.27  2.83   1.00
0.53  319.   5.8 285.9    2.0
 12 01 01   1 22   -6.0  0.098 -9.000 -9.000 -999.   73.     14.0  0.27  2.83   1.00
0.77  336.   5.8 285.4    2.0
 12 01 01   1 23  -13.5  0.148 -9.000 -9.000 -999.  137.     24.1  0.27  2.83   1.00
1.13  293.   5.8 285.4    2.0
 12 01 01   1 24   -8.8  0.118 -9.000 -9.000 -999.   98.     17.1  0.27  2.83   1.00
0.92  315.   5.8 284.9    2.0


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01   5.8 1  306.    0.64   283.2  99.0 -99.00  -99.00

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

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc          ***        10/20/23
 *** AERMET - VERSION  16216 ***   ***
***       11:58:10


PAGE  44
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                            *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                           INCLUDING SOURCE(S):    L0025467   , L0025468   ,
L0025469   , L0025470   , L0025471   ,
                   L0025472   , L0025473   , L0025474   , L0025475   , L0025476   ,
L0025477   , L0025478   , L0025479   ,
                   L0025480   , L0025481   , L0025482   , L0025483   , L0025484   ,
L0025485   , L0025486   , L0025487   ,
                   L0025488   , L0025489   , L0025490   , L0025491   , L0025492   ,
L0025493   , L0025494   , . . .    ,

                               *** 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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -
        377663.39   3773482.10      20.25819                377668.39
3773482.10     19.80534
        377673.39   3773482.10      19.14146                377678.39
3773482.10     18.30290
        377683.39   3773482.10      17.33313                377688.39
3773482.10     16.28044
        377693.39   3773482.10      15.19183                377698.39
3773482.10     14.10599
        377703.39   3773482.10      13.05408                377708.39
3773482.10     12.05717
        377713.39   3773482.10      11.12649                377718.39
3773482.10     10.26721
        377723.39   3773482.10      9.47924                 377728.39
3773482.10     8.75978
        377733.39   3773482.10      8.10503                 377738.39
3773482.10     7.51020
        377743.39   3773482.10      6.97005                 377748.39
3773482.10     6.47985
        377753.39   3773482.10      6.03444                 377758.39
3773482.10     5.62960
        377763.39   3773482.10      5.26048                 377768.39
3773482.10     4.92401
        377773.39   3773482.10      4.61685                 377778.39
3773482.10     4.33598
        377783.39   3773482.10      4.07874                 377788.39
3773482.10     3.84292
        377793.39   3773482.10      3.62621                 377798.39
3773482.10     3.42674
        377803.39   3773482.10      3.24284                 377663.39
3773487.10     24.45906
        377668.39   3773487.10      23.83520                377673.39
3773487.10     22.91659
        377678.39   3773487.10      21.75761                377683.39
3773487.10     20.42646
        377688.39   3773487.10      19.00182                377693.39
3773487.10     17.55131
        377698.39   3773487.10      16.13226                377703.39
3773487.10     14.78455
```

```
        377708.39   3773487.10      13.53202                377713.39
3773487.10     12.38576
        377718.39   3773487.10      11.34519                377723.39
3773487.10     10.40604
        377728.39   3773487.10      9.56075                 377733.39
3773487.10     8.80113
        377738.39   3773487.10      8.11798                 377743.39
3773487.10     7.50371
        377748.39   3773487.10      6.95093                 377753.39
3773487.10     6.45240
        377758.39   3773487.10      6.00226                 377763.39
3773487.10     5.59423
        377768.39   3773487.10      5.22437                 377773.39
3773487.10     4.88819
        377778.39   3773487.10      4.58220                 377783.39
3773487.10     4.30303
        377788.39   3773487.10      4.04781                 377793.39
3773487.10     3.81418
        377798.39   3773487.10      3.59966                 377803.39
3773487.10     3.40240
        377663.39   3773492.10      30.10257                377668.39
3773492.10     29.22675
        377673.39   3773492.10      27.92259                377678.39
3773492.10     26.27202
        377683.39   3773492.10      24.39313                377688.39
3773492.10     22.41158
        377693.39   3773492.10      20.43824                377698.39
3773492.10     18.55400
        377703.39   3773492.10      16.80832                377708.39
3773492.10     15.22432
        377713.39   3773492.10      13.80603                377718.39
3773492.10     12.54459
        377723.39   3773492.10      11.42587                377728.39
3773492.10     10.43404
        377733.39   3773492.10      9.55395                 377738.39
3773492.10     8.77154
        377743.39   3773492.10      8.07479                 377748.39
3773492.10     7.45307
        377753.39   3773492.10      6.89648                 377758.39
3773492.10     6.39703
        377763.39   3773492.10      5.94733                 377768.39
3773492.10     5.54148
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc         ***      10/20/23
 *** AERMET - VERSION  16216 ***   ***
***      11:58:10

PAGE  45
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                     INCLUDING SOURCE(S):    L0025467   , L0025468   ,
L0025469   , L0025470   , L0025471   ,
              L0025472   , L0025473   , L0025474   , L0025475   , L0025476   ,
L0025477   , L0025478   , L0025479   ,
              L0025480   , L0025481   , L0025482   , L0025483   , L0025484   ,
L0025485   , L0025486   , L0025487   ,
              L0025488   , L0025489   , L0025490   , L0025491   , L0025492   ,
L0025493   , L0025494   , ...   ,

                              *** 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
   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
        377773.39    3773492.10     5.17439               377778.39
3773492.10      4.84151
        377783.39    3773492.10     4.53892               377788.39
3773492.10      4.26330
        377793.39    3773492.10     4.01167               377798.39
3773492.10      3.78124
        377803.39    3773492.10     3.56986               377663.39
3773497.10     37.97208
        377668.39    3773497.10    36.72718               377673.39
3773497.10     34.81411
        377678.39    3773497.10    32.36953               377683.39
3773497.10     29.61024
        377688.39    3773497.10    26.76319               377693.39
3773497.10     24.00777
        377698.39    3773497.10    21.45899               377703.39
3773497.10     19.17036
        377708.39    3773497.10    17.15458               377713.39
3773497.10     15.39618
        377718.39    3773497.10    13.86728               377723.39
3773497.10     12.53684
        377728.39    3773497.10    11.37665               377733.39
3773497.10     10.36097
        377738.39    3773497.10     9.46822               377743.39
3773497.10      8.68085
        377748.39    3773497.10     7.98410               377753.39
3773497.10      7.36482
        377758.39    3773497.10     6.81260               377763.39
3773497.10      6.31811
        377768.39    3773497.10     5.87416               377773.39
3773497.10      5.47433
        377778.39    3773497.10     5.11302               377783.39
3773497.10      4.78584
        377788.39    3773497.10     4.48864               377793.39
3773497.10      4.21796
        377798.39    3773497.10     3.97082               377803.39
3773497.10      3.74464
        377753.39    3773502.10     7.85453               377758.39
3773502.10      7.24639
```

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        377763.39    3773502.10     6.70464               377768.39
3773502.10      6.22048
        377752.30    3773525.09    10.42935               377757.30
3773525.09      9.52130
        377762.30    3773525.09     8.72948               377767.30
3773525.09      8.03386
        377742.30    3773530.09    13.35376               377747.30
3773530.09     12.05152
        377752.30    3773530.09    10.93504               377757.30
3773530.09      9.97027
        377762.30    3773530.09     9.13060               377767.30
3773530.09      8.39445
        377772.30    3773530.09     7.74484               377777.30
3773530.09      7.16876
        377782.30    3773530.09     6.65498               377787.30
3773530.09      6.19385
        377792.30    3773530.09     5.77840               377797.30
3773530.09      5.40364
        377742.30    3773535.09    13.97201               377747.30
3773535.09     12.59258
        377752.30    3773535.09    11.41332               377757.30
3773535.09     10.39556
        377762.30    3773535.09     9.51180               377767.30
3773535.09      8.73858
        377772.30    3773535.09     8.05679               377777.30
3773535.09      7.45260
        377782.30    3773535.09     6.91455               377787.30
3773535.09      6.43229
        377792.30    3773535.09     5.99811               377797.30
3773535.09      5.60678
        377742.30    3773540.09    14.53577               377747.30
3773540.09     13.08901
        377752.30    3773540.09    11.85385               377757.30
3773540.09     10.78993
        377762.30    3773540.09     9.86680               377767.30
3773540.09      9.05962
        377772.30    3773540.09     8.34891               377777.30
3773540.09      7.71987
        377782.30    3773540.09     7.15982               377787.30
3773540.09      6.65810
        377792.30    3773540.09     6.20690               377797.30
3773540.09      5.80018
```

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 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc        ***      10/20/23
 *** AERMET - VERSION  16216 ***   ***
***      11:58:10

PAGE  46
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                         *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                          INCLUDING SOURCE(S):    L0025467   , L0025468   ,
L0025469   , L0025470   , L0025471   ,
              L0025472   , L0025473   , L0025474   , L0025475   , L0025476   ,
L0025477   , L0025478   , L0025479   ,
              L0025480   , L0025481   , L0025482   , L0025483   , L0025484   ,
L0025485   , L0025486   , L0025487   ,
              L0025488   , L0025489   , L0025490   , L0025491   , L0025492   ,
L0025493   , L0025494   , . . .   ,

                           *** 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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
        377742.30   3773545.09    15.03499            377747.30
3773545.09   13.53048
        377752.30   3773545.09    12.24856            377757.30
3773545.09   11.14542
        377762.30   3773545.09    10.18861            377767.30
3773545.09    9.35253
        377772.30   3773545.09     8.61677            377777.30
3773545.09    7.96556
        377782.30   3773545.09     7.38624            377787.30
3773545.09    6.86769
        377792.30   3773545.09     6.40124            377797.30
3773545.09    5.98120
        377757.30   3773550.09    11.45464            377762.30
3773550.09   10.47068
        377767.30   3773550.09     9.61112            377772.30
3773550.09    8.85518
        377777.30   3773550.09     8.18584            377782.30
3773550.09    7.59042
        377787.30   3773550.09     7.05748            377792.30
3773550.09    6.57830
        377797.30   3773550.09     6.14656            377742.30
3773555.09   15.79835
        377747.30   3773555.09    14.21684            377752.30
3773555.09   12.87006
        377757.30   3773555.09    11.71239            377762.30
3773555.09   10.70832
        377767.30   3773555.09     9.83116            377772.30
3773555.09    9.05931
        377777.30   3773555.09     8.37606            377742.30
3773560.09   16.04761
        377747.30   3773560.09    14.44719            377752.30
3773560.09   13.08467
        377757.30   3773560.09    11.91239            377762.30
3773560.09   10.89614
        377767.30   3773560.09    10.00763            377772.30
3773560.09    9.22553
        377772.30   3773565.09     9.34983            377737.30
3773570.09   18.15513
```

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        377742.30   3773570.09    16.25984            377747.30
3773570.09   14.66286
        377752.30   3773570.09    13.30153            377757.30
3773570.09   12.12929
        377762.30   3773570.09    11.11054            377767.30
3773570.09   10.21837
        377772.30   3773570.09     9.43196            377777.30
3773570.09    8.73458
        377782.30   3773570.09     8.11274            377787.30
3773570.09    7.55552
        377792.30   3773570.09     7.05406            377797.30
3773570.09    6.60123
        377737.30   3773575.09    18.08605            377742.30
3773575.09   16.21907
        377747.30   3773575.09    14.64484            377752.30
3773575.09   13.30185
        377757.30   3773575.09    12.14378            377762.30
3773575.09   11.13617
        377767.30   3773575.09    10.25172            377772.30
3773575.09    9.47128
        377777.30   3773575.09     8.77831            377782.30
3773575.09    8.15978
        377787.30   3773575.09     7.60521            377792.30
3773575.09    7.10634
        377797.30   3773575.09     6.65520            377737.30
3773580.09   17.89992
        377742.30   3773580.09    16.07806            377747.30
3773580.09   14.54032
        377752.30   3773580.09    13.22662            377757.30
3773580.09   12.09311
        377762.30   3773580.09    11.10375            377767.30
3773580.09   10.23405
        377772.30   3773580.09     9.46501            377777.30
3773580.09    8.78158
        377782.30   3773580.09     8.17069            377787.30
3773580.09    7.62241
        377792.30   3773580.09     7.12919            377797.30
3773580.09    6.68244
        377727.30   3773585.09    22.29374            377732.30
3773585.09   19.71215
        377737.30   3773585.09    17.59887            377742.30
3773585.09   15.83865
```

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 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc         ***       10/20/23
 *** AERMET - VERSION  16216 ***   ***
***        11:58:10

PAGE  47
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                           *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                       INCLUDING SOURCE(S):     L0025467    , L0025468    ,
L0025469    , L0025470    , L0025471    ,
             L0025472    , L0025473    , L0025474    , L0025475    , L0025476    ,
L0025477    , L0025478    , L0025479    ,
             L0025480    , L0025481    , L0025482    , L0025483    , L0025484    ,
L0025485    , L0025486    , L0025487    ,
             L0025488    , L0025489    , L0025490    , L0025491    , L0025492    ,
L0025493    , L0025494    , ...      ,


                          *** 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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
        377747.30    3773585.09      14.35046                 377752.30
3773585.09      13.07730
        377757.30    3773585.09      11.97644                 377762.30
3773585.09      11.01397
        377767.30    3773585.09      10.16489                 377772.30
3773585.09       9.41305
        377777.30    3773585.09       8.74392                 377782.30
3773585.09       8.14448
        377787.30    3773585.09       7.60613                 377792.30
3773585.09       7.12165
        377797.30    3773585.09       6.68210                 377727.30
3773590.09      21.66679
        377732.30    3773590.09      19.20580                 377737.30
3773590.09      17.18813
        377742.30    3773590.09      15.50394                 377747.30
3773590.09      14.07751
        377752.30    3773590.09      12.85495                 377757.30
3773590.09      11.79505
        377762.30    3773590.09      10.86673                 377767.30
3773590.09      10.04427
        377772.30    3773590.09       9.31507                 377777.30
3773590.09       8.66450
        377782.30    3773590.09       8.08084                 377787.30
3773590.09       7.55595
        377792.30    3773590.09       7.08321                 377797.30
3773590.09       6.65384
        377727.30    3773595.09      20.89718                 377732.30
3773595.09      18.58016
        377737.30    3773595.09      16.67483                 377742.30
3773595.09      15.07988
        377747.30    3773595.09      13.72488                 377752.30
3773595.09      12.55967
        377757.30    3773595.09      11.54745                 377762.30
3773595.09      10.65830
        377767.30    3773595.09       9.87027                 377772.30
3773595.09       9.16927
        377777.30    3773595.09       8.54216                 377782.30
3773595.09       7.97865
        377787.30    3773595.09       7.47099                 377792.30
3773595.09       7.01278
        377797.30    3773595.09       6.59627                 377727.30
3773600.09      20.00150
        377732.30    3773600.09      17.84884                 377737.30
3773600.09      16.07105
        377742.30    3773600.09      14.57652                 377747.30
3773600.09      13.30217
        377752.30    3773600.09      12.20243                 377757.30
3773600.09      11.24445
        377762.30    3773600.09      10.40056                 377767.30
3773600.09       9.65056
        377772.30    3773600.09       8.98188                 377777.30
3773600.09       8.38215
        377782.30    3773600.09       7.84201                 377787.30
3773600.09       7.35380
        377792.30    3773600.09       6.91287                 377797.30
3773600.09       6.51126
        377742.30    3773605.09      14.00503                 377747.30
3773605.09      12.81876
        377752.30    3773605.09      11.79086                 377757.30
3773605.09      10.89161
        377762.30    3773605.09      10.09694                 377767.30
3773605.09       9.38965
        377772.30    3773605.09       8.75644                 377777.30
3773605.09       8.18716
        377782.30    3773605.09       7.67305                 377787.30
3773605.09       7.20738
        377792.30    3773605.09       6.78579                 377797.30
3773605.09       6.40125
        377695.93    3773630.32      25.07916                 377700.93
3773630.32      22.37156
        377740.93    3773630.32      10.76085                 377745.93
3773630.32      10.02558
        377750.93    3773630.32       9.37027                 377755.93
3773630.32       8.78261
        377760.93    3773630.32       8.25210                 377765.93
3773630.32       7.76902
        377770.93    3773630.32       7.32840                 377775.93
3773630.32       6.92543
        377695.93    3773635.32      21.39678                 377700.93
3773635.32      19.43118
```

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 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc         ***       10/20/23
 *** AERMET - VERSION  16216 ***   ***
***        11:58:10

PAGE  48
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                            *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                            INCLUDING SOURCE(S):   L0025467   , L0025468   ,
L0025469   , L0025470   , L0025471   ,
             L0025472   , L0025473   , L0025474   , L0025475   , L0025476   ,
L0025477   , L0025478   , L0025479   ,
             L0025480   , L0025481   , L0025482   , L0025483   , L0025484   ,
L0025485   , L0025486   , L0025487   ,
             L0025488   , L0025489   , L0025490   , L0025491   , L0025492   ,
L0025493   , L0025494   , . . .   ,

                            *** 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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - -
       377740.93   3773635.32    10.03318            377745.93
3773635.32      9.38699
       377750.93   3773635.32     8.80705            377755.93
3773635.32      8.28375
       377760.93   3773635.32     7.80867            377765.93
3773635.32      7.37192
       377770.93   3773635.32     6.97217            377775.93
3773635.32      6.60497
       377695.93   3773640.32    18.39547            377700.93
3773640.32     16.94741
       377740.93   3773640.32     9.32751            377745.93
3773640.32      8.76304
       377750.93   3773640.32     8.25335            377755.93
3773640.32      7.79079
       377760.93   3773640.32     7.36859            377765.93
3773640.32      6.97577
       377770.93   3773640.32     6.61481            377775.93
3773640.32      6.28133
       377695.93   3773645.32    15.92263            377700.93
3773645.32     14.84435
       377740.93   3773645.32     8.65168            377745.93
3773645.32      8.16370
       377750.93   3773645.32     7.71998            377755.93
3773645.32      7.31626
       377760.93   3773645.32     6.94444            377765.93
3773645.32      6.58946
       377770.93   3773645.32     6.26290            377775.93
3773645.32      5.95983
       377695.93   3773650.32    13.86275            377700.93
3773650.32     13.04925
       377740.93   3773650.32     8.01626            377745.93
3773650.32      7.59658
       377750.93   3773650.32     7.21028            377755.93
3773650.32      6.85544
       377695.93   3773655.32    12.14448            377700.93
3773655.32     11.52113
       377740.93   3773655.32     7.41701            377745.93
3773655.32      7.05168
```

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       377750.93   3773655.32     6.71380            377755.93
3773655.32      6.40061
       377695.93   3773660.32    10.70397            377700.93
3773660.32     10.21966
       377705.93   3773660.32     9.73504            377720.93
3773670.32      6.90810
       377725.93   3773670.32     6.61773            377730.93
3773670.32      6.34139
       377735.93   3773670.32     6.07934            377720.93
3773675.32      6.29728
       377725.93   3773675.32     6.05132            377730.93
3773675.32      5.81609
       377735.93   3773675.32     5.59246            377720.93
3773680.32      5.75241
       377725.93   3773680.32     5.54314            377730.93
3773680.32      5.34203
       377735.93   3773680.32     5.14955            377720.93
3773685.32      5.27124
       377725.93   3773685.32     5.09216            377730.93
3773685.32      4.91859
       377735.93   3773685.32     4.75287
```

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 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc        ***       10/20/23
 *** AERMET - VERSION  16216 ***   ***
***       11:58:10

PAGE  49
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GENERATO ***
                          INCLUDING SOURCE(S):     GENERATOR   ,

                             *** 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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
        377663.39    3773482.10      3.32614                377668.39
3773482.10      3.33581
        377673.39    3773482.10      3.33425                377678.39
3773482.10      3.32034
        377683.39    3773482.10      3.29513                377688.39
3773482.10      3.25926
        377693.39    3773482.10      3.21291                377698.39
3773482.10      3.15822
        377703.39    3773482.10      3.09564                377708.39
3773482.10      3.02582
        377713.39    3773482.10      2.95059                377718.39
3773482.10      2.87058
        377723.39    3773482.10      2.78755                377728.39
3773482.10      2.70304
        377733.39    3773482.10      2.61761                377738.39
3773482.10      2.53226
        377743.39    3773482.10      2.44824                377748.39
3773482.10      2.36553
        377753.39    3773482.10      2.28547                377758.39
3773482.10      2.20781
        377763.39    3773482.10      2.13467                377768.39
3773482.10      2.06450
        377773.39    3773482.10      1.99739                377778.39
3773482.10      1.93328
        377783.39    3773482.10      1.87210                377788.39
3773482.10      1.81327
        377793.39    3773482.10      1.75713                377798.39
3773482.10      1.70352
        377803.39    3773482.10      1.65230                377663.39
3773487.10      3.58454
        377668.39    3773487.10      3.59625                377673.39
3773487.10      3.59489
        377678.39    3773487.10      3.57917                377683.39
3773487.10      3.55108
        377688.39    3773487.10      3.50913                377693.39
3773487.10      3.45664
        377698.39    3773487.10      3.39401                377703.39
3773487.10      3.32247
        377708.39    3773487.10      3.24340                377713.39
3773487.10      3.15708
        377718.39    3773487.10      3.06690                377723.39
3773487.10      2.97361
        377728.39    3773487.10      2.87861                377733.39
3773487.10      2.78266
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        377738.39    3773487.10      2.68831                377743.39
3773487.10      2.59555
        377748.39    3773487.10      2.50480                377753.39
3773487.10      2.41746
        377758.39    3773487.10      2.33318                377763.39
3773487.10      2.25419
        377768.39    3773487.10      2.17838                377773.39
3773487.10      2.10639
        377778.39    3773487.10      2.03747                377783.39
3773487.10      1.97180
        377788.39    3773487.10      1.90921                377793.39
3773487.10      1.84901
        377798.39    3773487.10      1.79176                377803.39
3773487.10      1.73702
        377663.39    3773492.10      3.86842                377668.39
3773492.10      3.88327
        377673.39    3773492.10      3.88211                377678.39
3773492.10      3.86505
        377683.39    3773492.10      3.83193                377688.39
3773492.10      3.78462
        377693.39    3773492.10      3.72426                377698.39
3773492.10      3.65234
        377703.39    3773492.10      3.57035                377708.39
3773492.10      3.47990
        377713.39    3773492.10      3.38216                377718.39
3773492.10      3.27966
        377723.39    3773492.10      3.17419                377728.39
3773492.10      3.06742
        377733.39    3773492.10      2.96086                377738.39
3773492.10      2.85622
        377743.39    3773492.10      2.75404                377748.39
3773492.10      2.65474
        377753.39    3773492.10      2.55970                377758.39
3773492.10      2.46883
        377763.39    3773492.10      2.38292                377768.39
3773492.10      2.30145
```

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 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc        ***      10/20/23
 *** AERMET - VERSION 16216 ***   ***
***      11:58:10

PAGE  50
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                           *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GENERATO ***
                          INCLUDING SOURCE(S):     GENERATOR   ,

                             *** 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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
         377773.39   3773492.10     2.22391                 377778.39
3773492.10     2.15011
         377783.39   3773492.10     2.07982                 377788.39
3773492.10     2.01253
         377793.39   3773492.10     1.94807                 377798.39
3773492.10     1.88674
         377803.39   3773492.10     1.82806                 377663.39
3773497.10     4.18167
         377668.39   3773497.10     4.19931                 377673.39
3773497.10     4.19827
         377678.39   3773497.10     4.17888                 377683.39
3773497.10     4.14184
         377688.39   3773497.10     4.08729                 377693.39
3773497.10     4.01768
         377698.39   3773497.10     3.93480                 377703.39
3773497.10     3.84153
         377708.39   3773497.10     3.73798                 377713.39
3773497.10     3.62646
         377718.39   3773497.10     3.51001                 377723.39
3773497.10     3.39154
         377728.39   3773497.10     3.27161                 377733.39
3773497.10     3.15281
         377738.39   3773497.10     3.03707                 377743.39
3773497.10     2.92489
         377748.39   3773497.10     2.81656                 377753.39
3773497.10     2.71346
         377758.39   3773497.10     2.61528                 377763.39
3773497.10     2.52275
         377768.39   3773497.10     2.43483                 377773.39
3773497.10     2.35123
         377778.39   3773497.10     2.27207                 377783.39
3773497.10     2.19634
         377788.39   3773497.10     2.12410                 377793.39
3773497.10     2.05512
         377798.39   3773497.10     1.98917                 377803.39
3773497.10     1.92600
         377753.39   3773502.10     2.87965                 377758.39
3773502.10     2.77378
         377763.39   3773502.10     2.67422                 377768.39
3773502.10     2.57967
         377752.30   3773525.09     3.89327                 377757.30
3773525.09     3.74140
         377762.30   3773525.09     3.59342                 377767.30
3773525.09     3.45108
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         377742.30   3773530.09     4.52081                 377747.30
3773530.09     4.33984
         377752.30   3773530.09     4.16670                 377757.30
3773530.09     3.99881
         377762.30   3773530.09     3.83557                 377767.30
3773530.09     3.67829
         377772.30   3773530.09     3.52769                 377777.30
3773530.09     3.38287
         377782.30   3773530.09     3.24516                 377787.30
3773530.09     3.11654
         377792.30   3773530.09     2.99618                 377797.30
3773530.09     2.88081
         377742.30   3773535.09     4.85036                 377747.30
3773535.09     4.65219
         377752.30   3773535.09     4.46016                 377757.30
3773535.09     4.27538
         377762.30   3773535.09     4.09403                 377767.30
3773535.09     3.91831
         377772.30   3773535.09     3.75113                 377777.30
3773535.09     3.59126
         377782.30   3773535.09     3.43875                 377787.30
3773535.09     3.29596
         377792.30   3773535.09     3.16270                 377797.30
3773535.09     3.03536
         377742.30   3773540.09     5.20971                 377747.30
3773540.09     4.98921
         377752.30   3773540.09     4.77537                 377757.30
3773540.09     4.56785
         377762.30   3773540.09     4.36547                 377767.30
3773540.09     4.17053
         377772.30   3773540.09     3.98444                 377777.30
3773540.09     3.80605
         377782.30   3773540.09     3.63722                 377787.30
3773540.09     3.47963
         377792.30   3773540.09     3.33233                 377797.30
3773540.09     3.19269
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc        ***      10/20/23
 *** AERMET - VERSION  16216 ***   ***
***        11:58:10

PAGE  51
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                            *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GENERATO ***
                            INCLUDING SOURCE(S):     GENERATOR   ,

                                 *** 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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
          377742.30    3773545.09      5.59675                 377747.30
3773545.09      5.34938
          377752.30    3773545.09      5.10778                 377757.30
3773545.09      4.87349
          377762.30    3773545.09      4.64703                 377767.30
3773545.09      4.42952
          377772.30    3773545.09      4.22246                 377777.30
3773545.09      4.02572
          377782.30    3773545.09      3.83916                 377787.30
3773545.09      3.66493
          377792.30    3773545.09      3.50335                 377797.30
3773545.09      3.34953
          377757.30    3773550.09      5.18844                 377762.30
3773550.09      4.93499
          377767.30    3773550.09      4.69263                 377772.30
3773550.09      4.46179
          377777.30    3773550.09      4.24460                 377782.30
3773550.09      4.03953
          377787.30    3773550.09      3.84875                 377792.30
3773550.09      3.67171
          377797.30    3773550.09      3.50457                 377742.30
3773555.09      6.42918
          377747.30    3773555.09      6.10790                 377752.30
3773555.09      5.79938
          377757.30    3773555.09      5.50250                 377762.30
3773555.09      5.22027
          377767.30    3773555.09      4.95176                 377772.30
3773555.09      4.69851
          377777.30    3773555.09      4.46012                 377742.30
3773560.09      6.85217
          377747.30    3773560.09      6.49005                 377752.30
3773560.09      6.14052
          377757.30    3773560.09      5.81197                 377762.30
3773560.09      5.49809
          377767.30    3773560.09      5.20285                 377772.30
3773560.09      4.92585
          377772.30    3773565.09      5.14313                 377737.30
3773570.09      8.09611
          377742.30    3773570.09      7.63707                 377747.30
3773570.09      7.19401
          377752.30    3773570.09      6.77305                 377757.30
3773570.09      6.38031
          377762.30    3773570.09      6.00974                 377767.30
3773570.09      5.66297
          377772.30    3773570.09      5.33943                 377777.30
3773570.09      5.03923
          377782.30    3773570.09      4.76199                 377787.30
3773570.09      4.50661
          377792.30    3773570.09      4.27293                 377797.30
3773570.09      4.05525
          377737.30    3773575.09      8.46035                 377742.30
3773575.09      7.95990
          377747.30    3773575.09      7.48405                 377752.30
3773575.09      7.03413
          377757.30    3773575.09      6.61335                 377762.30
3773575.09      6.22053
          377767.30    3773575.09      5.85079                 377772.30
3773575.09      5.50885
          377777.30    3773575.09      5.19267                 377782.30
3773575.09      4.90028
          377787.30    3773575.09      4.63176                 377792.30
3773575.09      4.38851
          377797.30    3773575.09      4.16144                 377737.30
3773580.09      8.74122
          377742.30    3773580.09      8.21303                 377747.30
3773580.09      7.71306
          377752.30    3773580.09      7.23938                 377757.30
3773580.09      6.80203
          377762.30    3773580.09      6.38840                 377767.30
3773580.09      6.00236
          377772.30    3773580.09      5.64482                 377777.30
3773580.09      5.31640
          377782.30    3773580.09      5.01333                 377787.30
3773580.09      4.73547
          377792.30    3773580.09      4.48400                 377797.30
3773580.09      4.24960
          377727.30    3773585.09     10.09601                 377732.30
3773585.09      9.50082
          377737.30    3773585.09      8.92521                 377742.30
3773585.09      8.38647
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 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc         ***      10/20/23
 *** AERMET - VERSION  16216 ***   ***
***        11:58:10

PAGE  52
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                        *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GENERATO ***
                           INCLUDING SOURCE(S):    GENERATOR   ,

                          *** 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
  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
         377747.30    3773585.09     7.87017             377752.30
3773585.09      7.38487
         377757.30    3773585.09     6.93462             377762.30
3773585.09      6.51121
         377767.30    3773585.09     6.11282             377772.30
3773585.09      5.74614
         377777.30    3773585.09     5.40970             377782.30
3773585.09      5.09830
         377787.30    3773585.09     4.81425             377792.30
3773585.09      4.55729
         377797.30    3773585.09     4.31793             377727.30
3773590.09     10.17331
         377732.30    3773590.09     9.57524             377737.30
3773590.09      9.00630
         377742.30    3773590.09     8.46078             377747.30
3773590.09      7.94522
         377752.30    3773590.09     7.45959             377757.30
3773590.09      7.00611
         377762.30    3773590.09     6.58101             377767.30
3773590.09      6.17717
         377772.30    3773590.09     5.80705             377777.30
3773590.09      5.46620
         377782.30    3773590.09     5.15205             377787.30
3773590.09      4.86535
         377792.30    3773590.09     4.60599             377797.30
3773590.09      4.36514
         377727.30    3773595.09    10.09284             377732.30
3773595.09      9.51633
         377737.30    3773595.09     8.96091             377742.30
3773595.09      8.43023
         377747.30    3773595.09     7.92357             377752.30
3773595.09      7.44558
         377757.30    3773595.09     7.00064             377762.30
3773595.09      6.58003
         377767.30    3773595.09     6.18331             377772.30
3773595.09      5.81720
         377777.30    3773595.09     5.47945             377782.30
3773595.09      5.16762
         377787.30    3773595.09     4.88370             377792.30
3773595.09      4.62644
         377797.30    3773595.09     4.38714             377727.30
3773600.09      9.87440
         377732.30    3773600.09     9.33827             377737.30
3773600.09      8.81242
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         377742.30    3773600.09     8.30689             377747.30
3773600.09      7.82446
         377752.30    3773600.09     7.36425             377757.30
3773600.09      6.93630
         377762.30    3773600.09     6.52982             377767.30
3773600.09      6.14454
         377772.30    3773600.09     5.78794             377777.30
3773600.09      5.45790
         377782.30    3773600.09     5.15355             377787.30
3773600.09      4.87364
         377792.30    3773600.09     4.62147             377797.30
3773600.09      4.38635
         377742.30    3773605.09     8.10764             377747.30
3773605.09      7.65539
         377752.30    3773605.09     7.22408             377757.30
3773605.09      6.81769
         377762.30    3773605.09     6.42976             377767.30
3773605.09      6.06354
         377772.30    3773605.09     5.72120             377777.30
3773605.09      5.40310
         377782.30    3773605.09     5.10870             377787.30
3773605.09      4.83814
         377792.30    3773605.09     4.59362             377797.30
3773605.09      4.36493
         377695.93    3773630.32     7.79571             377700.93
3773630.32      7.71932
         377740.93    3773630.32     6.43865             377745.93
3773630.32      6.19822
         377750.93    3773630.32     5.95534             377755.93
3773630.32      5.71330
         377760.93    3773630.32     5.47434             377765.93
3773630.32      5.24075
         377770.93    3773630.32     5.01396             377775.93
3773630.32      4.79526
         377695.93    3773635.32     7.18700             377700.93
3773635.32      7.10776
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 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine
Vine v2.isc           ***       10/20/23
 *** AERMET - VERSION  16216 ***   ***
***          11:58:10

PAGE  53
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                            *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GENERATO ***
                                INCLUDING SOURCE(S):     GENERATOR   ,

                                  *** 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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
         377740.93    3773635.32      6.03690                   377745.93
3773635.32        5.83339
         377750.93    3773635.32      5.62565                   377755.93
3773635.32        5.41617
         377760.93    3773635.32      5.20705                   377765.93
3773635.32        5.00076
         377770.93    3773635.32      4.79867                   377775.93
3773635.32        4.60229
         377695.93    3773640.32      6.60237                   377700.93
3773640.32        6.52989
         377740.93    3773640.32      5.64355                   377745.93
3773640.32        5.47136
         377750.93    3773640.32      5.29425                   377755.93
3773640.32        5.11435
         377760.93    3773640.32      4.93376                   377765.93
3773640.32        4.75471
         377770.93    3773640.32      4.57728                   377775.93
3773640.32        4.40288
         377695.93    3773645.32      6.05744                   377700.93
3773645.32        5.99391
         377740.93    3773645.32      5.26009                   377745.93
3773645.32        5.11623
         377750.93    3773645.32      4.96780                   377755.93
3773645.32        4.81492
         377760.93    3773645.32      4.66023                   377765.93
3773645.32        4.50640
         377770.93    3773645.32      4.35223                   377775.93
3773645.32        4.19928
         377695.93    3773650.32      5.56127                   377700.93
3773650.32        5.50595
         377740.93    3773650.32      4.89636                   377745.93
3773650.32        4.77649
         377750.93    3773650.32      4.65193                   377755.93
3773650.32        4.52272
         377695.93    3773655.32      5.11727                   377700.93
3773655.32        5.06913
         377740.93    3773655.32      4.55383                   377745.93
3773655.32        4.45548
         377750.93    3773655.32      4.35185                   377755.93
3773655.32        4.24377
         377695.93    3773660.32      4.71816                   377700.93
3773660.32        4.67718
         377705.93    3773660.32      4.63563                   377720.93
3773670.32        3.85283
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         377725.93    3773670.32      3.81001                   377730.93
3773670.32        3.76513
         377735.93    3773670.32      3.71737                   377720.93
3773675.32        3.57641
         377725.93    3773675.32      3.53805                   377730.93
3773675.32        3.49857
         377735.93    3773675.32      3.45772                   377720.93
3773680.32        3.32481
         377725.93    3773680.32      3.29079                   377730.93
3773680.32        3.25620
         377735.93    3773680.32      3.22042                   377720.93
3773685.32        3.09887
         377725.93    3773685.32      3.06874                   377730.93
3773685.32        3.03791
         377735.93    3773685.32      3.00718
```

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 *** AERMOD - VERSION 21112 ***    *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc          ***       10/20/23
 *** AERMET - VERSION  16216 ***    ***
***        11:58:10

PAGE  54
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                            *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING  ***
                         INCLUDING SOURCE(S):     L0012220    , L0012221    ,
L0012222    , L0012223    , L0012224    ,
                 L0012225    , L0012226    , L0012227    ,

                                  *** 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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -
         377663.39    3773482.10       6.33325                   377668.39
3773482.10      6.35793
         377673.39    3773482.10       6.35652                   377678.39
3773482.10      6.32878
         377683.39    3773482.10       6.27537                   377688.39
3773482.10      6.19747
         377693.39    3773482.10       6.09674                   377698.39
3773482.10      5.97557
         377703.39    3773482.10       5.83646                   377708.39
3773482.10      5.68215
         377713.39    3773482.10       5.51567                   377718.39
3773482.10      5.33993
         377723.39    3773482.10       5.15786                   377728.39
3773482.10      4.97222
         377733.39    3773482.10       4.78539                   377738.39
3773482.10      4.59948
         377743.39    3773482.10       4.41634                   377748.39
3773482.10      4.23729
         377753.39    3773482.10       4.06351                   377758.39
3773482.10      3.89568
         377763.39    3773482.10       3.73451                   377768.39
3773482.10      3.58006
         377773.39    3773482.10       3.43245                   377778.39
3773482.10      3.29164
         377783.39    3773482.10       3.15750                   377788.39
3773482.10      3.02983
         377793.39    3773482.10       2.90843                   377798.39
3773482.10      2.79303
         377803.39    3773482.10       2.68336                   377663.39
3773487.10      7.00047
         377668.39    3773487.10       7.03028                   377673.39
3773487.10      7.02853
         377678.39    3773487.10       6.99495                   377683.39
3773487.10      6.93051
         377688.39    3773487.10       6.83648                   377693.39
3773487.10      6.71544
         377698.39    3773487.10       6.57022                   377703.39
3773487.10      6.40416
         377708.39    3773487.10       6.22089                   377713.39
3773487.10      6.02400
         377718.39    3773487.10       5.81745                   377723.39
3773487.10      5.60471
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3773487.10      4.75150
         377748.39    3773487.10       4.54866                   377753.39
3773487.10      4.35288
         377758.39    3773487.10       4.16479                   377763.39
3773487.10      3.98498
         377768.39    3773487.10       3.81338                   377773.39
3773487.10      3.65002
         377778.39    3773487.10       3.49470                   377783.39
3773487.10      3.34720
         377788.39    3773487.10       3.20722                   377793.39
3773487.10      3.07442
         377798.39    3773487.10       2.94850                   377803.39
3773487.10      2.82909
         377663.39    3773492.10       7.77361                   377668.39
3773492.10      7.80996
         377673.39    3773492.10       7.80771                   377678.39
3773492.10      7.76679
         377683.39    3773492.10       7.68808                   377688.39
3773492.10      7.57383
         377693.39    3773492.10       7.42712                   377698.39
3773492.10      7.25178
         377703.39    3773492.10       7.05220                   377708.39
3773492.10      6.83309
         377713.39    3773492.10       6.59915                   377718.39
3773492.10      6.35516
         377723.39    3773492.10       6.10554                   377728.39
3773492.10      5.85425
         377733.39    3773492.10       5.60469                   377738.39
3773492.10      5.35972
         377743.39    3773492.10       5.12141                   377748.39
3773492.10      4.89125
         377753.39    3773492.10       4.67037                   377758.39
3773492.10      4.45929
         377763.39    3773492.10       4.25833                   377768.39
3773492.10      4.06741
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 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc        ***      10/20/23
 *** AERMET - VERSION  16216 ***   ***
***       11:58:10

PAGE  55
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING  ***
                          INCLUDING SOURCE(S):    L0012220   , L0012221   ,
L0012222   , L0012223   , L0012224   ,
                   L0012225   , L0012226   , L0012227   ,

                                  *** 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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -
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3773492.10      3.71471
      377783.39    3773492.10       3.55224                  377788.39
3773492.10      3.39847
      377793.39    3773492.10       3.25297                  377798.39
3773492.10      3.11532
      377803.39    3773492.10       2.98507                  377663.39
3773497.10      8.67575
      377668.39    3773497.10       8.72028                  377673.39
3773497.10      8.71730
      377678.39    3773497.10       8.66672                  377683.39
3773497.10      8.56995
      377688.39    3773497.10       8.42972                  377693.39
3773497.10      8.25035
      377698.39    3773497.10       8.03695                  377703.39
3773497.10      7.79548
      377708.39    3773497.10       7.53183                  377713.39
3773497.10      7.25218
      377718.39    3773497.10       6.96261                  377723.39
3773497.10      6.66863
      377728.39    3773497.10       6.37485                  377733.39
3773497.10      6.08532
      377738.39    3773497.10       5.80317                  377743.39
3773497.10      5.53059
      377748.39    3773497.10       5.26899                  377753.39
3773497.10      5.01937
      377758.39    3773497.10       4.78205                  377763.39
3773497.10      4.55713
      377768.39    3773497.10       4.34429                  377773.39
3773497.10      4.14313
      377778.39    3773497.10       3.95318                  377783.39
3773497.10      3.77386
      377788.39    3773497.10       3.60462                  377793.39
3773497.10      3.44490
      377798.39    3773497.10       3.29415                  377803.39
3773497.10      3.15183
      377753.39    3773502.10       5.40362                  377758.39
3773502.10      5.13627
      377763.39    3773502.10       4.88400                  377768.39
3773502.10      4.64624
      377752.30    3773525.09       7.85459                  377757.30
3773525.09      7.36770
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      377762.30    3773525.09       6.91757                  377767.30
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3773530.09      9.13669
      377752.30    3773530.09       8.52968                  377757.30
3773530.09      7.97180
      377762.30    3773530.09       7.45910                  377767.30
3773530.09      6.98793
      377772.30    3773530.09       6.55477                  377777.30
3773530.09      6.15627
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      377792.30    3773530.09       5.13943                  377797.30
3773530.09      4.85121
      377742.30    3773535.09      10.73590                  377747.30
3773535.09      9.96743
      377752.30    3773535.09       9.26595                  377757.30
3773535.09      8.62578
      377762.30    3773535.09       8.04114                  377767.30
3773535.09      7.50709
      377772.30    3773535.09       7.01902                  377777.30
3773535.09      6.57245
      377782.30    3773535.09       6.16341                  377787.30
3773535.09      5.78828
      377792.30    3773535.09       5.44369                  377797.30
3773535.09      5.12671
      377742.30    3773540.09      11.77079                  377747.30
3773540.09      10.87434
      377752.30    3773540.09      10.06275                  377757.30
3773540.09      9.32756
      377762.30    3773540.09       8.66103                  377767.30
3773540.09      8.05632
      377772.30    3773540.09       7.50705                  377777.30
3773540.09      7.00743
      377782.30    3773540.09       6.55229                  377787.30
3773540.09      6.13696
      377792.30    3773540.09       5.75724                  377797.30
3773540.09      5.40948
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 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc         ***      10/20/23
 *** AERMET - VERSION  16216 ***   ***
***       11:58:10

PAGE  56
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING  ***
                      INCLUDING SOURCE(S):    L0012220   , L0012221   ,
L0012222   , L0012223   , L0012224   ,
                  L0012225   , L0012226   , L0012227   ,

                              *** 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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
        377742.30    3773545.09     12.90040                 377747.30
3773545.09     11.85453
        377752.30    3773545.09     10.91574                 377757.30
3773545.09     10.07244
        377762.30    3773545.09      9.31396                 377767.30
3773545.09      8.63076
        377772.30    3773545.09      8.01432                 377777.30
3773545.09      7.45706
        377782.30    3773545.09      6.95224                 377787.30
3773545.09      6.49396
        377792.30    3773545.09      6.07695                 377797.30
3773545.09      5.69680
        377757.30    3773550.09     10.85250                 377762.30
3773550.09      9.99249
        377767.30    3773550.09      9.22367                 377772.30
3773550.09      8.53474
        377777.30    3773550.09      7.91585                 377782.30
3773550.09      7.35844
        377787.30    3773550.09      6.85502                 377792.30
3773550.09      6.39911
        377797.30    3773550.09      5.98531                 377742.30
3773555.09     15.40925
        377747.30    3773555.09     13.99560                 377752.30
3773555.09     12.75239
        377757.30    3773555.09     11.65598                 377762.30
3773555.09     10.68631
        377767.30    3773555.09      9.82608                 377772.30
3773555.09      9.06055
        377777.30    3773555.09      8.37712                 377742.30
3773560.09     16.75063
        377747.30    3773560.09     15.12225                 377752.30
3773560.09     13.70538
        377757.30    3773560.09     12.46795                 377762.30
3773560.09     11.38264
        377767.30    3773560.09     10.42711                 377772.30
3773560.09      9.58251
        377772.30    3773565.09     10.09001                 377737.30
3773570.09     21.91792
        377742.30    3773570.09     19.44551                 377747.30
3773570.09     17.35327
        377752.30    3773570.09     15.57018                 377757.30
3773570.09     14.04041
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        377762.30    3773570.09     12.71978                 377767.30
3773570.09     11.57299
        377772.30    3773570.09     10.57171                 377777.30
3773570.09      9.69276
        377782.30    3773570.09      8.91730                 377787.30
3773570.09      8.22982
        377792.30    3773570.09      7.61742                 377797.30
3773570.09      7.06997
        377737.30    3773575.09     23.48380                 377742.30
3773575.09     20.70977
        377747.30    3773575.09     18.38757                 377752.30
3773575.09     16.42637
        377757.30    3773575.09     14.75682                 377762.30
3773575.09     13.32523
        377767.30    3773575.09     12.08951                 377772.30
3773575.09     11.01599
        377777.30    3773575.09     10.07784                 377782.30
3773575.09      9.25348
        377787.30    3773575.09      8.52520                 377792.30
3773575.09      7.87822
        377797.30    3773575.09      7.30157                 377737.30
3773580.09     24.90726
        377742.30    3773580.09     21.85138                 377747.30
3773580.09     19.31669
        377752.30    3773580.09     17.19259                 377757.30
3773580.09     15.39619
        377762.30    3773580.09     13.86482                 377767.30
3773580.09     12.54945
        377772.30    3773580.09     11.41164                 377777.30
3773580.09     10.42087
        377782.30    3773580.09      9.55307                 377787.30
3773580.09      8.78857
        377792.30    3773580.09      8.11105                 377797.30
3773580.09      7.50858
        377727.30    3773585.09     35.25998                 377732.30
3773585.09     30.18151
        377737.30    3773585.09     26.11931                 377742.30
3773585.09     22.81996
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 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc        ***       10/20/23
 *** AERMET - VERSION  16216 ***   ***
***        11:58:10

PAGE  57
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING  ***
                   INCLUDING SOURCE(S):    L0012220   , L0012221   ,
L0012222   , L0012223   , L0012224   ,
                  L0012225   , L0012226   , L0012227   ,

                               *** 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
   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
          377747.30   3773585.09      20.10325               377752.30
3773585.09      17.84069
          377757.30   3773585.09      15.93717               377762.30
3773585.09      14.32167
          377767.30   3773585.09      12.93970               377772.30
3773585.09      11.74800
          377777.30   3773585.09      10.71320               377782.30
3773585.09       9.80923
          377787.30   3773585.09       9.01439               377792.30
3773585.09       8.31126
          377797.30   3773585.09       7.68711               377727.30
3773590.09      36.82211
          377732.30   3773590.09      31.37690               377737.30
3773590.09      27.05707
          377742.30   3773590.09      23.57013               377747.30
3773590.09      20.71447
          377752.30   3773590.09      18.34636               377757.30
3773590.09      16.36136
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3773590.09      13.24925
          377772.30   3773590.09      12.01644               377777.30
3773590.09      10.94814
          377782.30   3773590.09      10.01626               377787.30
3773590.09       9.19801
          377792.30   3773590.09       8.47500               377797.30
3773590.09       7.83379
          377727.30   3773595.09      37.82132               377732.30
3773595.09      32.14935
          377737.30   3773595.09      27.66976               377742.30
3773595.09      24.06738
          377747.30   3773595.09      21.12584               377752.30
3773595.09      18.69235
          377757.30   3773595.09      16.65626               377762.30
3773595.09      14.93638
          377767.30   3773595.09      13.47104               377772.30
3773595.09      12.21151
          377777.30   3773595.09      11.12108               377782.30
3773595.09      10.17063
          377787.30   3773595.09       9.33642               377792.30
3773595.09       8.59970
          377797.30   3773595.09       7.94665               377727.30
3773600.09      38.19069
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          377732.30   3773600.09      32.45494               377737.30
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          377742.30   3773600.09      24.29061               377747.30
3773600.09      21.32141
          377752.30   3773600.09      18.86589               377757.30
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          377762.30   3773600.09      15.07628               377767.30
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          377772.30   3773600.09      12.32728               377777.30
3773600.09      11.22713
          377782.30   3773600.09      10.26793               377787.30
3773600.09       9.42634
          377792.30   3773600.09       8.68263               377797.30
3773600.09       8.02333
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3773605.09      21.29623
          377752.30   3773605.09      18.86263               377757.30
3773605.09      16.82357
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3773605.09      11.26442
          377782.30   3773605.09      10.30694               377787.30
3773605.09       9.46595
          377792.30   3773605.09       8.72213               377797.30
3773605.09       8.06230
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          377740.93   3773630.32      21.04420               377745.93
3773630.32      18.85417
          377750.93   3773630.32      16.97673               377755.93
3773630.32      15.35743
          377760.93   3773630.32      13.95253               377765.93
3773630.32      12.72696
          377770.93   3773630.32      11.65227               377775.93
3773630.32      10.70566
          377695.93   3773635.32      60.13112               377700.93
3773635.32      52.76018
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 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc          ***        10/20/23
 *** AERMET - VERSION  16216 ***   ***
***       11:58:10

PAGE  58
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                           *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING  ***
                      INCLUDING SOURCE(S):     L0012220    , L0012221    ,
L0012222    , L0012223    , L0012224    ,
                   L0012225    , L0012226    , L0012227    ,

                               *** 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
  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -
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3773635.32     17.83654
         377750.93   3773635.32      16.14818            377755.93
3773635.32     14.67751
         377760.93   3773635.32      13.39065            377765.93
3773635.32     12.25976
         377770.93   3773635.32      11.26145            377775.93
3773635.32     10.37643
         377695.93   3773640.32      49.31797            377700.93
3773640.32     44.31530
         377740.93   3773640.32      18.47907            377745.93
3773640.32     16.76931
         377750.93   3773640.32      15.26891            377755.93
3773640.32     13.94817
         377760.93   3773640.32      12.78236            377765.93
3773640.32     11.74889
         377770.93   3773640.32      10.83037            377775.93
3773640.32     10.01091
         377695.93   3773645.32      40.68702            377700.93
3773645.32     37.28711
         377740.93   3773645.32      17.16785            377745.93
3773645.32     15.68887
         377750.93   3773645.32      14.38195            377755.93
3773645.32     13.22572
         377760.93   3773645.32      12.19035            377765.93
3773645.32     11.23604
         377770.93   3773645.32      10.38410            377775.93
3773645.32      9.61996
         377695.93   3773650.32      33.83809            377700.93
3773650.32     31.50062
         377740.93   3773650.32      15.91213            377745.93
3773650.32     14.65350
         377750.93   3773650.32      13.51786            377755.93
3773650.32     12.49792
         377695.93   3773655.32      28.42294            377700.93
3773655.32     26.78347
         377740.93   3773655.32      14.69773            377745.93
3773655.32     13.61734
         377750.93   3773655.32      12.63247            377755.93
3773655.32     11.73529
         377695.93   3773660.32      24.10563            377700.93
3773660.32     22.93354
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         377705.93   3773660.32      21.69507            377720.93
3773670.32     14.22001
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3773670.32     12.73912
         377735.93   3773670.32      12.03262            377720.93
3773675.32     12.70344
         377725.93   3773675.32      12.10418            377730.93
3773675.32     11.51426
         377735.93   3773675.32      10.93907            377720.93
3773680.32     11.37426
         377725.93   3773680.32      10.89290            377730.93
3773680.32     10.41507
         377735.93   3773680.32       9.94448            377720.93
3773685.32     10.22014
         377725.93   3773685.32       9.83042            377730.93
3773685.32      9.43967
         377735.93   3773685.32       9.05408
```

```
 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc        ***      10/20/23
 *** AERMET - VERSION  16216 ***   ***
***       11:58:10

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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS)
RESULTS ***


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


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


CONSTRUC  1ST HIGHEST VALUE IS      37.97208 AT (  377663.39,  3773497.10,   100.69,
100.69,    0.00)  DC
          2ND HIGHEST VALUE IS      36.72718 AT (  377668.39,  3773497.10,   100.69,
100.69,    0.00)  DC
          3RD HIGHEST VALUE IS      34.81411 AT (  377673.39,  3773497.10,   100.69,
100.69,    0.00)  DC
          4TH HIGHEST VALUE IS      32.36953 AT (  377678.39,  3773497.10,   100.69,
100.69,    0.00)  DC
          5TH HIGHEST VALUE IS      30.10257 AT (  377663.39,  3773492.10,   100.62,
100.62,    0.00)  DC
          6TH HIGHEST VALUE IS      29.61024 AT (  377683.39,  3773497.10,   100.69,
100.69,    0.00)  DC
          7TH HIGHEST VALUE IS      29.22675 AT (  377668.39,  3773492.10,   100.62,
100.62,    0.00)  DC
          8TH HIGHEST VALUE IS      27.92259 AT (  377673.39,  3773492.10,   100.62,
100.62,    0.00)  DC
          9TH HIGHEST VALUE IS      26.76319 AT (  377688.39,  3773497.10,   100.68,
100.68,    0.00)  DC
          10TH HIGHEST VALUE IS      26.27202 AT (  377678.39,  3773492.10,   100.62,
100.62,    0.00)  DC


GENERATO  1ST HIGHEST VALUE IS      10.17331 AT (  377727.30,  3773590.09,   102.15,
102.15,    0.00)  DC
          2ND HIGHEST VALUE IS      10.09601 AT (  377727.30,  3773585.09,   102.07,
102.07,    0.00)  DC
          3RD HIGHEST VALUE IS      10.09284 AT (  377727.30,  3773595.09,   102.22,
102.22,    0.00)  DC
          4TH HIGHEST VALUE IS       9.87440 AT (  377727.30,  3773600.09,   102.29,
102.29,    0.00)  DC
          5TH HIGHEST VALUE IS       9.57524 AT (  377732.30,  3773590.09,   102.13,
102.13,    0.00)  DC
          6TH HIGHEST VALUE IS       9.51633 AT (  377732.30,  3773595.09,   102.20,
102.20,    0.00)  DC
          7TH HIGHEST VALUE IS       9.50082 AT (  377732.30,  3773585.09,   102.05,
102.05,    0.00)  DC
          8TH HIGHEST VALUE IS       9.33827 AT (  377732.30,  3773600.09,   102.27,
102.27,    0.00)  DC
          9TH HIGHEST VALUE IS       9.00630 AT (  377737.30,  3773590.09,   102.15,
102.15,    0.00)  DC
          10TH HIGHEST VALUE IS       8.96091 AT (  377737.30,  3773595.09,   102.21,
102.21,    0.00)  DC


LOADING  1ST HIGHEST VALUE IS      73.51455 AT (  377695.93,  3773630.32,   103.09,
103.09,    0.00)  DC
```

```
          2ND HIGHEST VALUE IS      62.78231 AT (  377700.93,  3773630.32,   103.06,
103.06,    0.00)  DC
          3RD HIGHEST VALUE IS      60.13112 AT (  377695.93,  3773635.32,   103.26,
103.26,    0.00)  DC
          4TH HIGHEST VALUE IS      52.76018 AT (  377700.93,  3773635.32,   103.22,
103.22,    0.00)  DC
          5TH HIGHEST VALUE IS      49.31797 AT (  377695.93,  3773640.32,   103.43,
103.43,    0.00)  DC
          6TH HIGHEST VALUE IS      44.31530 AT (  377700.93,  3773640.32,   103.38,
103.38,    0.00)  DC
          7TH HIGHEST VALUE IS      40.68702 AT (  377695.93,  3773645.32,   103.61,
103.61,    0.00)  DC
          8TH HIGHEST VALUE IS      38.19069 AT (  377727.30,  3773600.09,   102.29,
102.29,    0.00)  DC
          9TH HIGHEST VALUE IS      37.82132 AT (  377727.30,  3773595.09,   102.22,
102.22,    0.00)  DC
          10TH HIGHEST VALUE IS      37.28711 AT (  377700.93,  3773645.32,   103.55,
103.55,    0.00)  DC


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

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 *** AERMOD - VERSION 21112  ***   *** C:\Users\M.McPherson\Desktop\1360 Vine v2\1360
Vine v2.isc          ***         10/20/23
 *** AERMET - VERSION  16216 ***   ***
***        11:58:10

PAGE  60
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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

 A Total of           0 Fatal Error Message(s)
 A Total of           2 Warning Message(s)
 A Total of        6278 Informational Message(s)

 A Total of       43848 Hours Were Processed

 A Total of        5012 Calm Hours Identified

 A Total of        1266 Missing Hours Identified (  2.89 Percent)


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


     ********   WARNING MESSAGES   ********
 ME W186      975        MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
 ME W187      975        MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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