

## **Appendix FEIR-C**

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### Construction Health Risk Assessment

September 15, 2022

Envicom Corporation  
4165 East Thousand Oaks Boulevard, Suite 290  
Westlake Village, California 91362  
Attn: Travis Cullen

Re: 4th and Hewitt Project - Construction Health Risk Assessment

Mr. Cullen:

At your direction, Air Quality Dynamics has prepared a health risk assessment (HRA) to quantify the impact of diesel particulate matter (DPM), which is identified as a toxic air contaminant pursuant to California Code of Regulations Section 93001, associated with the generation of off-road equipment emissions during construction of the Project. This was done to supplement the air quality analysis prepared by Envicom Corporation, which evaluated criteria pollutant exposures associated with Project construction.

The HRA quantifies both carcinogenic risks and noncarcinogenic hazards for the maximum exposed sensitive receptors located in proximity to the Project Site. A sensitive receptor is any residence, as well as schools, daycare centers and health facilities or similar live-in housing. To ensure a viable quantification of exposure, the technical approach used in the preparation of the HRA was composed of all relevant and appropriate assessment and dispersion modeling methodologies presented by the U.S. Environmental Protection Agency (USEPA), California Environmental Protection Agency (CalEPA) and South Coast Air Quality Management District (SCAQMD).

Results of the HRA showed that carcinogenic risk and noncarcinogenic hazard estimates for the maximum exposed sensitive receptors did not exceed identified significance thresholds. The following discussion outlines the methodology utilized to conduct the HRA and summarizes the protocol used to evaluate DPM exposures.

#### Source Identification

The Project proposes the demolition of an existing office building, two storage/garage buildings, and surface parking lots and the construction of an 18-story Office Building. The Office Building would accommodate approximately 8,149 square feet of ground floor restaurant space, 311,682 square feet of commercial office space and 16,294 square feet of office exterior common areas.

The Project would include a landscaped outdoor courtyard along the western portion of the site. The ground floor would also provide bicycle parking spaces, as well as outdoor amenity spaces, including balconies/decks for commercial tenants. Vehicle parking spaces would be provided within three subterranean levels and on the 2nd through 5th floors of the Office Building. Office space would comprise the 6th through 17th floors, with mechanical equipment located on the 18th floor and rooftop levels. It is estimated that approximately 84,600 cubic yards of soil and

related construction debris will be removed to accommodate the subterranean parking and associated site development design.

The 1.31 acre Project Site is located along East 4th Street between South Hewitt Street to the east and Colyton Street to the west. Industrial/commercial uses predominate to the south. The northwest portion of the site is comprised of the building formerly occupied by the Architecture and Design (A+D) Museum (0.23 acres) which is not subject to proposed site development with the exception of minor sidewalk improvements and related utility connections. The Project is located within the Central City North Community Plan area with a land use designation of M3-1-RIO (Heavy Industrial, Height District No. 1, River Improvement Overlay). The neighboring community consists of a mix of low intensity industrial warehouse/commercial uses, including several live/work and residential occupancies. In consideration of sensitive land uses, the following list identifies the occupancies and their relative location proximate to the Project Site.

- 825 East 4th Street - 200 feet northwest
- 801 East 4th Place - 350 feet north
- 428 South Hewitt Street - 80 feet southeast
- 510 South Hewitt Street - 380 feet southeast
- 442 Colyton Street - 200 feet south

It is anticipated that the Project will begin and complete construction within an approximate 30-month calendar period. Figure 1 presents an aerial photograph of the Project location and neighboring community.

Figure 1  
Project Site Location /Vicinity Aerial Photograph



### Source Characterization

On-site construction emission estimates were based upon the Los Angeles-South Coast County profile generated by the California Emissions Estimator Model (CalEEMod) prepared by Envicom Corporation. CalEEMod is an emissions model that provides a uniform platform quantifying pollutant emissions associated with project construction and operation. The model is considered a comprehensive tool for quantifying air quality impacts for land use development projects located throughout the State. In response to public comments received on the Project Draft Environmental Impact Report (DEIR), an update to the CalEEMod model was provided which removed the requirement for Tier 4 construction equipment and updated the initial construction timeline. This analysis is based on the updated model scenario, which is appended to the Final Environmental Impact Report (FEIR) in its entirety.

In 1999, the California Air Resources Board identified the particulate fraction ( $PM_{10}$ ) in diesel exhaust as a toxic air contaminant. As such, the off-road  $PM_{10}$  exhaust estimates reported by CalEEMod were used as a surrogate for DPM emissions. The emission rates for both winter and summer scenarios were found to be commensurate.

To assess localized impacts, construction phase, calendar year and number of days associated with each activity were identified to produce an average daily emission rate. Construction activities are reported to occur for 642 days over a 898 day period (2.46 years) based upon a 5 day per week (261 days per year) operational schedule, which accounts for a portion of concurrent phase activities during building construction, paving and architectural coating operations.

Table 1 provides a summary of estimated average daily particulate emissions associated with each identified construction phase and year. Attachment B presents the emission calculation worksheet used to quantify pollutant source strength. Excerpts from the CalEEMod output file, which identify construction phase timelines and associated emission rates, are provided in Attachment C.

**Table 1**  
**Average Daily Emissions/PM<sub>10</sub>**

| Construction Phase/Year                                       | Emissions (Lbs/Day) |
|---|---------------------|
| Demolition / 2022   | 0.8379              |
| Demolition / 2023   | 0.6766              |
| Grading / 2023  | 0.7275              |
| Building Construction / 2023                                  | 0.5145              |
| Building Construction / 2024                                  | 0.4506              |
| Building Construction / 2025                                  | 0.3925              |
| Building Construction / Paving / Architectural Coating / 2025 | 0.6905              |
| Building Construction / 2025                                  | 0.3925              |
| <b>Average Emissions</b>                                      | <b>0.5365</b>       |

Note: Emission estimates are derived from CalEEMod Version 2020.4.0, run date 7/28/2022 for the winter scenario.

### Exposure Quantification

In order to assess the impact of DPM emissions, air quality modeling utilizing the American Meteorological Society (AMS)/EPA Regulatory Model (AERMOD) was performed. AERMOD is a steady-state Gaussian plume model applicable to directly emitted air pollutants that employs best state-of-practice parameterizations for characterizing meteorological influences and atmospheric dispersion. AERMOD is the USEPA's guideline model for the assessment of near-field pollutant dispersion.

The SCAQMD provides guidance (*Localized Significance Threshold Methodology*, July 2008) on the evaluation of localized air quality impacts to public agencies conducting environmental review of projects located within its jurisdiction. As such, source treatment outlined in the Localized Significance Threshold (LST) methodology was utilized, whereby exhaust emissions from construction equipment were treated as a set of side-by-side elevated volume sources with a release height of five meters and an initial vertical ( $\sigma_z$ ) dimension of 1.4 meters. The elevated source characterization accounts for a mid-range plume rise height associated with exhaust stack emissions for typical off-road equipment inventories. Horizontal ( $\sigma_y$ ) parameters were produced by dividing source separation distances by a standard deviation of 2.15.

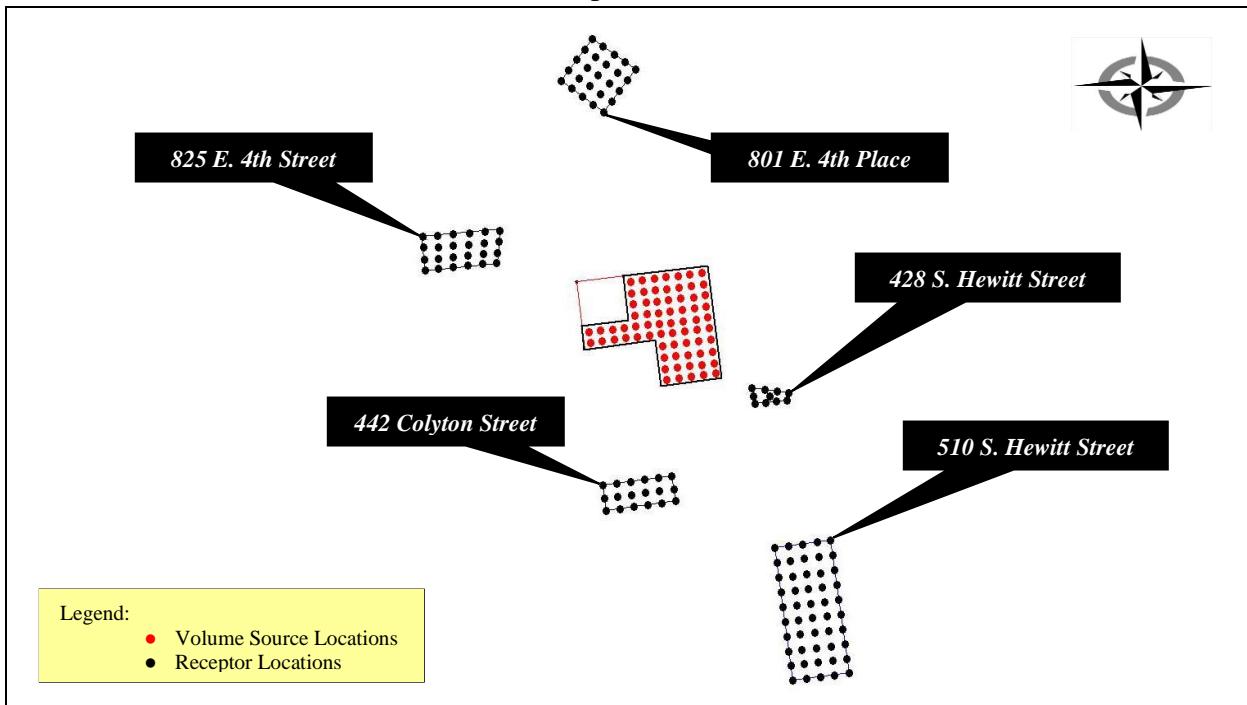
To accommodate a Cartesian grid format, direction dependent calculations were obtained by identifying the universal transverse mercator (UTM) coordinates for each volume source location. UTM coordinates were also identified for sensitive receptors proximate to the Project Site. A flagpole receptor height of two meters was assigned for each receptor location with the exception of 428 South Hewitt Street, which was assigned a flagpole height of 6.1 meters, to accommodate the location of a trailer/motorhome situated atop the two-story commercial structure. Terrain height adjustments were additionally incorporated into the modeling exercise. A graphical representation of the source-receptor grid network, which identifies the sensitive receptor locations, is presented in Figure 2.

Refined air dispersion models require meteorological information to account for local atmospheric conditions. Due to their 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, which is located approximately 1.66 miles northeast of the Project Site, was used to represent local weather conditions and prevailing winds.

In a manner consistent with SCAQMD AERMOD modeling guidance for the assessment of chronic exposures, maximum concentrations were produced by incorporating all five years of available meteorological data. A model scalar value of 1 was assigned to account for emissions

generated during construction related activity corresponding to 8 hours per day, as reported in the CalEEMod construction profile from 8 a.m. to 4 p.m. (ending hours 9 to 16). A scalar value of 0 was used for non-operational hours. A copy of the AERMOD dispersion model output file is provided in Attachment D.

Figure 2  
Source-Receptor Grid Network



### Risk Characterization

Carcinogenic compounds are not considered to have threshold levels (i.e., dose levels below which there are no risks). Any exposure, therefore, will have some associated risk. As a result, the State of California (Title 22, California Code of Regulations, Sections 12705(b) and 12705(d)) has established a threshold of one in one hundred thousand (1.0E-05) as a level posing no significant risk for exposures to carcinogens regulated under the Safe Drinking Water and Toxic Enforcement Act (Proposition 65). Expressed as 10 in one million (10E-06), this threshold is also consistent with the maximum incremental cancer risk established by the SCAQMD.

Health risks associated with exposure to carcinogenic compounds can be defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. Under a deterministic approach (i.e., point estimate methodology), the cancer risk probability is determined by multiplying the chemical's annual concentration by its unit risk factor (URF). The URF is a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It represents an upper-bound estimate of the probability of contracting cancer as a result of continuous exposure to an ambient concentration of one microgram per cubic meter ( $\mu\text{g}/\text{m}^3$ ) over a 70 year lifetime. The URF and corresponding cancer potency factor for DPM utilized in the assessment was obtained from the *Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values*.

A review of available guidance was conducted to determine applicability of the use of early life exposure adjustments to identified carcinogens. For risk assessments conducted under the auspices of The Air Toxics "Hot Spots" Information and Assessment Act (Assembly Bill [AB] 2588, Connelly, Statutes of 1987; Health and Safety Code Section 44300 et seq.) a weighting factor is applied to all carcinogens regardless of purported mechanism of action. Notwithstanding, applicability of AB 2588 is limited to 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 off-road source emissions generated from the construction of the Project are not classified as core operations nor subject to industry-wide source evaluation.

Additionally, 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, 1401.1, 1402 and 212 revisions, use of the revised 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 Response to Comments Staff Report PAR 1401, 1401.1, 1402, and 212 A - 8 June 2015. The Proposed Amended Rules are separate from the CEQA significance thresholds. 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.

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

As such, 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." In 2006, the USEPA published a memorandum that provides guidance regarding the preparation of HRAs should carcinogenic compounds elicit a mutagenic mode of action (USEPA, 2006). 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 < 1% 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 (USEPA, 2018).

In addition, the California 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, has adopted the USEPA's policy in the application of early life exposure adjustments and is consistent with the methodology considered in the assessment of residential exposures.

To quantify dose, the procedure requires the incorporation of several discrete exposure variates. To account for upper-bound exposures associated with residential occupancies, lifetime risk values were adjusted to account for an exposure frequency of 261 days per year for a period of 2.46 years (i.e., 0.25 years for the third trimester, 2.0 years for ages 0 to 2 and 0.21 years for the 2 to 9 year age group). Point estimates for daily breathing rates representing the 95th percentile of 361, 1090 and 861 L/kg-day for the identified age groups were utilized and incorporated into the following dose algorithm.

$$Dose_{air} = C_{air} \times \{BR/BW\} \times A \times EF \times 10^{-6}$$

Where:

|              |   |
|--------------|---|
| $Dose_{air}$ | = dose through inhalation (mg/kg/day)                                   |
| $C_{air}$    | = concentration of contaminant in air ( $\mu\text{g}/\text{m}^3$ )      |
| $\{BR/BW\}$  | = daily breathing rate normalized to body weight (L/kg body weight/day) |
| $A$          | = inhalation absorption factor (unitless)                               |
| $EF$         | = exposure frequency (days/365 days)                                    |
| $10^{-6}$    | = micrograms to milligrams conversion                                   |

The above inhalation dose estimates and residential fractional time adjustments (i.e., 0.85 for the third trimester and ages 0 to 2 years and 0.72 for ages 2 to 16 years) were incorporated into the following equation to produce carcinogenic risk estimates for ages associated with the reported exposure durations.

$$Risk_{inh} = Dose_{air} \times CPF \times ED/AT \times FAH$$

Where:

|              |  |
|--------------|--|
| $Risk_{inh}$ | = inhalation cancer risk   |
| $Dose_{air}$ | = daily inhalation dose (mg/kg/day)  |
| $CPF$        | = inhalation cancer potency factor ( $\text{mg}/\text{kg}/\text{day}^{-1}$ ) |
| $ED$         | = exposure duration for specified age group (years)                          |
| $AT$         | = averaging time (years)   |
| $FAH$        | = fraction of time at home (unitless)  |

Tables 2 through 6 present the carcinogenic risk estimates for the maximum exposed residential receptors. Attachment A, Tables A1 through A15, column b identify the predicted DPM concentrations, columns f-h, present the URF, corresponding cancer potency factor and dose estimates for the exposure scenarios considered in the assessment. The cancer risk estimate is presented in column i.

**Table 2**  
**Carcinogenic Risk / Maximum Exposed Residential Receptor**  
**825 East 4th Street**

| Age Group       | Risk           |
|-----------------|----------------|
| Third Trimester | 3.1E-08        |
| 0 to 2 years    | 7.4E-07        |
| 2 to 9 years    | 5.2E-08        |
| <b>Total</b>    | <b>8.2E-07</b> |

Note: 8.2E-07 denotes an excess case of cancer of 0.082 in one hundred thousand (100,000) individuals exposed.

**Table 3**  
**Carcinogenic Risk / Maximum Exposed Residential Receptor**  
**801 East 4th Place**

| Age Group       | Risk           |
|-----------------|----------------|
| Third Trimester | 2.2E-08        |
| 0 to 2 years    | 5.4E-07        |
| 2 to 9 years    | 3.8E-08        |
| <b>Total</b>    | <b>6.0E-07</b> |

Note: 6.0E-07 denotes an excess case of cancer of 0.06 in one hundred thousand (100,000) individuals exposed.

**Table 4**  
**Carcinogenic Risk / Maximum Exposed Residential Receptor**  
**428 South Hewitt Street**

| Age Group       | Risk           |
|-----------------|----------------|
| Third Trimester | 1.1E-07        |
| 0 to 2 years    | 2.8E-06        |
| 2 to 9 years    | 1.9E-07        |
| <b>Total</b>    | <b>3.1E-06</b> |

Note: 3.1E-06 denotes an excess case of cancer of 0.31 in one hundred thousand (100,000) individuals exposed.

**Table 5**  
**Carcinogenic Risk / Maximum Exposed Residential Receptor**  
**510 South Hewitt Street**

| Age Group       | Risk           |
|-----------------|----------------|
| Third Trimester | 1.4E-08        |
| 0 to 2 years    | 3.3E-07        |
| 2 to 9 years    | 2.3E-08        |
| <b>Total</b>    | <b>3.7E-07</b> |

Note: 3.7E-07 denotes an excess case of cancer of 0.037 in one hundred thousand (100,000) individuals exposed.

**Table 6**  
**Carcinogenic Risk / Maximum Exposed Residential Receptor**  
**442 Colyton Street**

| Age Group       | Risk           |
|-----------------|----------------|
| Third Trimester | 4.6E-08        |
| 0 to 2 years    | 1.1E-06        |
| 2 to 9 years    | 7.8E-08        |
| <b>Total</b>    | <b>1.2E-06</b> |

Note: 1.2E-06 denotes an excess case of cancer of 0.12 in one hundred thousand (100,000) individuals exposed.

As noted above, the cancer risk for the maximum exposed residential receptor for each occupancy is predicted to be below the significance threshold of one in one hundred thousand (1.0E-05).

An evaluation of the potential noncancer effects of DPM exposure was also conducted. These effects include the exacerbation of chronic heart and lung disease, including asthma and decreased lung function in children. Under the point estimate approach, adverse health effects are evaluated by comparing the pollutant concentration with the appropriate Reference Exposure Level (REL). The chronic REL presented in the *Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values* was considered in the assessment. There are no available acute/8-hour reference exposure levels for DPM.

To quantify noncarcinogenic impacts, the hazard index approach was used. The hazard index assumes that subthreshold exposures adversely affect a specific organ or organ system (i.e., toxicological endpoint). To calculate the hazard index, the pollutant concentration or dose is divided by its toxicity value. Should the total equal or exceed one (i.e., unity), a health hazard is presumed to exist. No exposure frequency or duration adjustments are considered for noncarcinogenic exposures.

Table 7 presents the hazard index values for the identified sensitive receptor locations. Attachment A, Tables A1 through A15, column j, present the REL used in the evaluation of chronic noncarcinogenic exposures. The noncancer hazard index generated from off-road equipment activity is presented in column l.

**Table 7**  
**Noncarcinogenic Hazards**

| Receptor                | Hazard  |
|-------------------------|---------|
| 825 East 4th Street     | 7.5E-03 |
| 801 East 4th Place      | 5.4E-03 |
| 428 South Hewitt Street | 2.8E-02 |
| 510 South Hewitt Street | 3.3E-03 |
| 442 Colyton Street      | 1.1E-02 |

Note: 7.5E-03, 5.4E-03, 2.8E-02, 3.3E-03 and 1.1E-02 are commensurate with numeric values of 0.0075, 0.0054, 0.028, 0.0033 and 0.011, respectively.

As noted above, the hazard index for the respiratory endpoint totaled less than one for all sensitive receptor occupancies.

### Conclusion

The carcinogenic risks for residential receptors were predicted to be below the significance threshold of one in one hundred thousand (1.0E-05). The noncarcinogenic hazard index for the respiratory endpoint were predicted to be less than one for all residential occupancies. Based upon the carcinogenic risk and noncarcinogenic hazard estimates, the HRA demonstrates that DPM emissions associated with construction of the Project will result in less than significant impacts.

I can be reached at (818) 703-3294 should you have any questions or require additional information.

Sincerely,



Bill Piazza

- Attachment A: Carcinogenic Risk/Noncarcinogenic Hazard Calculation Worksheets
- Attachment B: Emission Calculation Worksheet
- Attachment C: CalEEMod Output File
- Attachment D: Dispersion Model Output File
- Attachment E: List of References

**ATTACHMENT A**

Carcinogenic Risk/Noncarcinogenic Hazard Calculation Worksheets

**Table A1**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Hazard**  
**825 East 4th Street / Maximum Exposed Residential Receptor (Third Trimester)**

| Source          | Mass GLC                           |                             | Weight Fraction | Contaminant        | Carcinogenic Risk                                |   |                            |             | Noncarcinogenic Hazard             |                           |             |
|-----------------|------------------------------------|-----------------------------|-----------------|--------------------|--|---|----------------------------|-------------|------------------------------------|---------------------------|-------------|
|                 | (a)<br>(ug/m <sup>3</sup> )<br>(b) | (c)<br>(mg/m <sup>3</sup> ) |                 |                    | URF<br>(ug/m <sup>3</sup> ) <sup>-1</sup><br>(f) | CPF<br>(mg/kg/day) <sup>-1</sup><br>(g) | DOSE<br>(mg/kg-day)<br>(h) | RISK<br>(i) | REL<br>(ug/m <sup>3</sup> )<br>(j) | RfD<br>(mg/kg/day)<br>(k) | RESP<br>(l) |
| On-Site Exhaust | 0.03730                            | 3.73E-05                    | 1.00E+00        | Diesel Particulate | 3.0E-04  | 1.1E+00                                 | 9.6E-06                    | 3.1E-08     | 5.0E+00                            | 1.4E-03                   | 7.5E-03     |
| TOTAL           |                                    |                             |                 |                    |  |   |                            | 3.1E-08     |                                    |                           | 7.5E-03     |

Note:

Exposure factors used to calculate contaminant intake

|                                |      |
|--------------------------------|------|
| exposure frequency (days/year) | 261  |
| exposure duration (years)      | 0.25 |
| inhalation rate (L/kg-day))    | 361  |
| inhalation absorption factor   | 1    |
| averaging time (years)         | 70   |
| fraction of time at home       | 0.85 |

**Table A2**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Hazard**  
**825 East 4th Street / Maximum Exposed Residential Receptor (0 to 2 Year Age Group)**

| Source          | Mass GLC                           |                             | Weight Fraction | Contaminant        | Carcinogenic Risk                                |   |                            |             | Noncarcinogenic Hazard             |                           |             |
|-----------------|------------------------------------|-----------------------------|-----------------|--------------------|--|---|----------------------------|-------------|------------------------------------|---------------------------|-------------|
|                 | (a)<br>(ug/m <sup>3</sup> )<br>(b) | (c)<br>(mg/m <sup>3</sup> ) |                 |                    | URF<br>(ug/m <sup>3</sup> ) <sup>-1</sup><br>(f) | CPF<br>(mg/kg/day) <sup>-1</sup><br>(g) | DOSE<br>(mg/kg-day)<br>(h) | RISK<br>(i) | REL<br>(ug/m <sup>3</sup> )<br>(j) | RfD<br>(mg/kg/day)<br>(k) | RESP<br>(l) |
| On-Site Exhaust | 0.03730                            | 3.73E-05                    | 1.00E+00        | Diesel Particulate | 3.0E-04  | 1.1E+00                                 | 2.9E-05                    | 7.4E-07     | 5.0E+00                            | 1.4E-03                   | 7.5E-03     |
| TOTAL           |                                    |                             |                 |                    |  |   |                            | 7.4E-07     |                                    |                           | 7.5E-03     |

Note:

Exposure factors used to calculate contaminant intake

|                                |      |
|--------------------------------|------|
| exposure frequency (days/year) | 261  |
| exposure duration (years)      | 2    |
| inhalation rate (L/kg-day))    | 1090 |
| inhalation absorption factor   | 1    |
| averaging time (years)         | 70   |
| fraction of time at home       | 0.85 |

**Table A3**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Hazard**  
**825 East 4th Street / Maximum Exposed Residential Receptor (2 to 9 Year Age Group)**

| Source          | Mass GLC                           |                             | Weight Fraction | Contaminant        | Carcinogenic Risk                                |   |                            |             | Noncarcinogenic Hazard             |                           |             |
|-----------------|------------------------------------|-----------------------------|-----------------|--------------------|--|---|----------------------------|-------------|------------------------------------|---------------------------|-------------|
|                 | (a)<br>(ug/m <sup>3</sup> )<br>(b) | (c)<br>(mg/m <sup>3</sup> ) |                 |                    | URF<br>(ug/m <sup>3</sup> ) <sup>-1</sup><br>(f) | CPF<br>(mg/kg/day) <sup>-1</sup><br>(g) | DOSE<br>(mg/kg-day)<br>(h) | RISK<br>(i) | REL<br>(ug/m <sup>3</sup> )<br>(j) | RfD<br>(mg/kg/day)<br>(k) | RESP<br>(l) |
| On-Site Exhaust | 0.03730                            | 3.73E-05                    | 1.00E+00        | Diesel Particulate | 3.0E-04  | 1.1E+00                                 | 2.3E-05                    | 5.2E-08     | 5.0E+00                            | 1.4E-03                   | 7.5E-03     |
| TOTAL           |                                    |                             |                 |                    |  |   |                            | 5.2E-08     |                                    |                           | 7.5E-03     |

Note:

Exposure factors used to calculate contaminant intake

|                                |      |
|--------------------------------|------|
| exposure frequency (days/year) | 261  |
| exposure duration (years)      | 0.21 |
| inhalation rate (L/kg-day))    | 861  |
| inhalation absorption factor   | 1    |
| averaging time (years)         | 70   |
| fraction of time at home       | 0.72 |

**Table A4**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Hazard**  
**801 East 4th Place / Maximum Exposed Residential Receptor (Third Trimester)**

| Source          | Mass GLC                    |                             | Weight Fraction<br>(d) | Contaminant<br>(e) | Carcinogenic Risk                                |   |                            |             | Noncarcinogenic Hazard             |                           |             |
|-----------------|-----------------------------|-----------------------------|------------------------|--------------------|--|---|----------------------------|-------------|------------------------------------|---------------------------|-------------|
|                 | (ug/m <sup>3</sup> )<br>(b) | (mg/m <sup>3</sup> )<br>(c) |                        |                    | URF<br>(ug/m <sup>3</sup> ) <sup>-1</sup><br>(f) | CPF<br>(mg/kg/day) <sup>-1</sup><br>(g) | DOSE<br>(mg/kg-day)<br>(h) | RISK<br>(i) | REL<br>(ug/m <sup>3</sup> )<br>(j) | RfD<br>(mg/kg/day)<br>(k) | RESP<br>(l) |
| On-Site Exhaust | 0.02718                     | 2.72E-05                    | 1.00E+00               | Diesel Particulate | 3.0E-04  | 1.1E+00                                 | 7.0E-06                    | 2.2E-08     | 5.0E+00                            | 1.4E-03                   | 5.4E-03     |
| TOTAL           |                             |                             |                        |                    |  |   |                            | 2.2E-08     |                                    |                           | 5.4E-03     |

Note:

Exposure factors used to calculate contaminant intake

|                                |      |
|--------------------------------|------|
| exposure frequency (days/year) | 261  |
| exposure duration (years)      | 0.25 |
| inhalation rate (L/kg-day))    | 361  |
| inhalation absorption factor   | 1    |
| averaging time (years)         | 70   |
| fraction of time at home       | 0.85 |

**Table A5**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Hazard**  
**801 East 4th Place / Maximum Exposed Residential Receptor (0 to 2 Year Age Group)**

| Source          | Mass GLC                    |                             | Weight Fraction<br>(d) | Contaminant<br>(e) | Carcinogenic Risk                                |   |                            |             | Noncarcinogenic Hazard             |                           |             |
|-----------------|-----------------------------|-----------------------------|------------------------|--------------------|--|---|----------------------------|-------------|------------------------------------|---------------------------|-------------|
|                 | (ug/m <sup>3</sup> )<br>(b) | (mg/m <sup>3</sup> )<br>(c) |                        |                    | URF<br>(ug/m <sup>3</sup> ) <sup>-1</sup><br>(f) | CPF<br>(mg/kg/day) <sup>-1</sup><br>(g) | DOSE<br>(mg/kg-day)<br>(h) | RISK<br>(i) | REL<br>(ug/m <sup>3</sup> )<br>(j) | RfD<br>(mg/kg/day)<br>(k) | RESP<br>(l) |
| On-Site Exhaust | 0.02718                     | 2.72E-05                    | 1.00E+00               | Diesel Particulate | 3.0E-04  | 1.1E+00                                 | 2.1E-05                    | 5.4E-07     | 5.0E+00                            | 1.4E-03                   | 5.4E-03     |
| TOTAL           |                             |                             |                        |                    |  |   |                            | 5.4E-07     |                                    |                           | 5.4E-03     |

Note:

Exposure factors used to calculate contaminant intake

|                                |      |
|--------------------------------|------|
| exposure frequency (days/year) | 261  |
| exposure duration (years)      | 2    |
| inhalation rate (L/kg-day))    | 1090 |
| inhalation absorption factor   | 1    |
| averaging time (years)         | 70   |
| fraction of time at home       | 0.85 |

**Table A6**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Hazard**  
**801 East 4th Place / Maximum Exposed Residential Receptor (2 to 9 Year Age Group)**

| Source          | Mass GLC                    |                             | Weight Fraction<br>(d) | Contaminant<br>(e) | Carcinogenic Risk                                |   |                            |             | Noncarcinogenic Hazard             |                           |             |
|-----------------|-----------------------------|-----------------------------|------------------------|--------------------|--|---|----------------------------|-------------|------------------------------------|---------------------------|-------------|
|                 | (ug/m <sup>3</sup> )<br>(b) | (mg/m <sup>3</sup> )<br>(c) |                        |                    | URF<br>(ug/m <sup>3</sup> ) <sup>-1</sup><br>(f) | CPF<br>(mg/kg/day) <sup>-1</sup><br>(g) | DOSE<br>(mg/kg-day)<br>(h) | RISK<br>(i) | REL<br>(ug/m <sup>3</sup> )<br>(j) | RfD<br>(mg/kg/day)<br>(k) | RESP<br>(l) |
| On-Site Exhaust | 0.02718                     | 2.72E-05                    | 1.00E+00               | Diesel Particulate | 3.0E-04  | 1.1E+00                                 | 1.7E-05                    | 3.8E-08     | 5.0E+00                            | 1.4E-03                   | 5.4E-03     |
| TOTAL           |                             |                             |                        |                    |  |   |                            | 3.8E-08     |                                    |                           | 5.4E-03     |

Note:

Exposure factors used to calculate contaminant intake

|                                |      |
|--------------------------------|------|
| exposure frequency (days/year) | 261  |
| exposure duration (years)      | 0.21 |
| inhalation rate (L/kg-day))    | 861  |
| inhalation absorption factor   | 1    |
| averaging time (years)         | 70   |
| fraction of time at home       | 0.72 |

**Table A7**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Hazard**  
**428 South Hewitt Street / Maximum Exposed Residential Receptor (Third Trimester)**

| Source          | Mass GLC                    |                             | Weight Fraction<br>(d) | Contaminant<br>(e) | Carcinogenic Risk                                |   |                            |             | Noncarcinogenic Hazard             |                           |             |
|-----------------|-----------------------------|-----------------------------|------------------------|--------------------|--|---|----------------------------|-------------|------------------------------------|---------------------------|-------------|
|                 | (ug/m <sup>3</sup> )<br>(b) | (mg/m <sup>3</sup> )<br>(c) |                        |                    | URF<br>(ug/m <sup>3</sup> ) <sup>-1</sup><br>(f) | CPF<br>(mg/kg/day) <sup>-1</sup><br>(g) | DOSE<br>(mg/kg-day)<br>(h) | RISK<br>(i) | REL<br>(ug/m <sup>3</sup> )<br>(j) | RfD<br>(mg/kg/day)<br>(k) | RESP<br>(l) |
| On-Site Exhaust | 0.13927                     | 1.39E-04                    | 1.00E+00               | Diesel Particulate | 3.0E-04  | 1.1E+00                                 | 3.6E-05                    | 1.1E-07     | 5.0E+00                            | 1.4E-03                   | 2.8E-02     |
| TOTAL           |                             |                             |                        |                    |  |   |                            | 1.1E-07     |                                    |                           | 2.8E-02     |

Note:

Exposure factors used to calculate contaminant intake

|                                |      |
|--------------------------------|------|
| exposure frequency (days/year) | 261  |
| exposure duration (years)      | 0.25 |
| inhalation rate (L/kg-day))    | 361  |
| inhalation absorption factor   | 1    |
| averaging time (years)         | 70   |
| fraction of time at home       | 0.85 |

**Table A8**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Hazard**  
**428 South Hewitt Street / Maximum Exposed Residential Receptor (0 to 2 Year Age Group)**

| Source          | Mass GLC                    |                             | Weight Fraction<br>(d) | Contaminant<br>(e) | Carcinogenic Risk                                |   |                            |             | Noncarcinogenic Hazard             |                           |             |
|-----------------|-----------------------------|-----------------------------|------------------------|--------------------|--|---|----------------------------|-------------|------------------------------------|---------------------------|-------------|
|                 | (ug/m <sup>3</sup> )<br>(b) | (mg/m <sup>3</sup> )<br>(c) |                        |                    | URF<br>(ug/m <sup>3</sup> ) <sup>-1</sup><br>(f) | CPF<br>(mg/kg/day) <sup>-1</sup><br>(g) | DOSE<br>(mg/kg-day)<br>(h) | RISK<br>(i) | REL<br>(ug/m <sup>3</sup> )<br>(j) | RfD<br>(mg/kg/day)<br>(k) | RESP<br>(l) |
| On-Site Exhaust | 0.13927                     | 1.39E-04                    | 1.00E+00               | Diesel Particulate | 3.0E-04  | 1.1E+00                                 | 1.1E-04                    | 2.8E-06     | 5.0E+00                            | 1.4E-03                   | 2.8E-02     |
| TOTAL           |                             |                             |                        |                    |  |   |                            | 2.8E-06     |                                    |                           | 2.8E-02     |

Note:

Exposure factors used to calculate contaminant intake

|                                |      |
|--------------------------------|------|
| exposure frequency (days/year) | 261  |
| exposure duration (years)      | 2    |
| inhalation rate (L/kg-day))    | 1090 |
| inhalation absorption factor   | 1    |
| averaging time (years)         | 70   |
| fraction of time at home       | 0.85 |

**Table A9**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Hazard**  
**428 South Hewitt Street / Maximum Exposed Residential Receptor (2 to 9 Year Age Group)**

| Source          | Mass GLC                    |                             | Weight Fraction<br>(d) | Contaminant<br>(e) | Carcinogenic Risk                                |   |                            |             | Noncarcinogenic Hazard             |                           |             |
|-----------------|-----------------------------|-----------------------------|------------------------|--------------------|--|---|----------------------------|-------------|------------------------------------|---------------------------|-------------|
|                 | (ug/m <sup>3</sup> )<br>(b) | (mg/m <sup>3</sup> )<br>(c) |                        |                    | URF<br>(ug/m <sup>3</sup> ) <sup>-1</sup><br>(f) | CPF<br>(mg/kg/day) <sup>-1</sup><br>(g) | DOSE<br>(mg/kg-day)<br>(h) | RISK<br>(i) | REL<br>(ug/m <sup>3</sup> )<br>(j) | RfD<br>(mg/kg/day)<br>(k) | RESP<br>(l) |
| On-Site Exhaust | 0.13927                     | 1.39E-04                    | 1.00E+00               | Diesel Particulate | 3.0E-04  | 1.1E+00                                 | 8.6E-05                    | 1.9E-07     | 5.0E+00                            | 1.4E-03                   | 2.8E-02     |
| TOTAL           |                             |                             |                        |                    |  |   |                            | 1.9E-07     |                                    |                           | 2.8E-02     |

Note:

Exposure factors used to calculate contaminant intake

|                                |      |
|--------------------------------|------|
| exposure frequency (days/year) | 261  |
| exposure duration (years)      | 0.21 |
| inhalation rate (L/kg-day))    | 861  |
| inhalation absorption factor   | 1    |
| averaging time (years)         | 70   |
| fraction of time at home       | 0.72 |

**Table A10**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Hazard**  
**510 South Hewitt Street / Maximum Exposed Residential Receptor (Third Trimester)**

| Source          | Mass GLC                    |                             | Weight Fraction<br>(d) | Contaminant<br>(e) | Carcinogenic Risk                                |   |                            |             | Noncarcinogenic Hazard             |                           |             |
|-----------------|-----------------------------|-----------------------------|------------------------|--------------------|--|---|----------------------------|-------------|------------------------------------|---------------------------|-------------|
|                 | (ug/m <sup>3</sup> )<br>(b) | (mg/m <sup>3</sup> )<br>(c) |                        |                    | URF<br>(ug/m <sup>3</sup> ) <sup>-1</sup><br>(f) | CPF<br>(mg/kg/day) <sup>-1</sup><br>(g) | DOSE<br>(mg/kg-day)<br>(h) | RISK<br>(i) | REL<br>(ug/m <sup>3</sup> )<br>(j) | RfD<br>(mg/kg/day)<br>(k) | RESP<br>(l) |
| On-Site Exhaust | 0.01674                     | 1.67E-05                    | 1.00E+00               | Diesel Particulate | 3.0E-04  | 1.1E+00                                 | 4.3E-06                    | 1.4E-08     | 5.0E+00                            | 1.4E-03                   | 3.3E-03     |
| TOTAL           |                             |                             |                        |                    |  |   |                            | 1.4E-08     |                                    |                           | 3.3E-03     |

Note:

Exposure factors used to calculate contaminant intake

|                                |      |
|--------------------------------|------|
| exposure frequency (days/year) | 261  |
| exposure duration (years)      | 0.25 |
| inhalation rate (L/kg-day))    | 361  |
| inhalation absorption factor   | 1    |
| averaging time (years)         | 70   |
| fraction of time at home       | 0.85 |

**Table A11**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Hazard**  
**510 South Hewitt Street / Maximum Exposed Residential Receptor (0 to 2 Year Age Group)**

| Source          | Mass GLC                    |                             | Weight Fraction<br>(d) | Contaminant<br>(e) | Carcinogenic Risk                                |   |                            |             | Noncarcinogenic Hazard             |                           |             |
|-----------------|-----------------------------|-----------------------------|------------------------|--------------------|--|---|----------------------------|-------------|------------------------------------|---------------------------|-------------|
|                 | (ug/m <sup>3</sup> )<br>(b) | (mg/m <sup>3</sup> )<br>(c) |                        |                    | URF<br>(ug/m <sup>3</sup> ) <sup>-1</sup><br>(f) | CPF<br>(mg/kg/day) <sup>-1</sup><br>(g) | DOSE<br>(mg/kg-day)<br>(h) | RISK<br>(i) | REL<br>(ug/m <sup>3</sup> )<br>(j) | RfD<br>(mg/kg/day)<br>(k) | RESP<br>(l) |
| On-Site Exhaust | 0.01674                     | 1.67E-05                    | 1.00E+00               | Diesel Particulate | 3.0E-04  | 1.1E+00                                 | 1.3E-05                    | 3.3E-07     | 5.0E+00                            | 1.4E-03                   | 3.3E-03     |
| TOTAL           |                             |                             |                        |                    |  |   |                            | 3.3E-07     |                                    |                           | 3.3E-03     |

Note:

Exposure factors used to calculate contaminant intake

|                                |      |
|--------------------------------|------|
| exposure frequency (days/year) | 261  |
| exposure duration (years)      | 2    |
| inhalation rate (L/kg-day))    | 1090 |
| inhalation absorption factor   | 1    |
| averaging time (years)         | 70   |
| fraction of time at home       | 0.85 |

**Table A12**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Hazard**  
**510 South Hewitt Street / Maximum Exposed Residential Receptor (2 to 9 Year Age Group)**

| Source          | Mass GLC                    |                             | Weight Fraction<br>(d) | Contaminant<br>(e) | Carcinogenic Risk                                |   |                            |             | Noncarcinogenic Hazard             |                           |             |
|-----------------|-----------------------------|-----------------------------|------------------------|--------------------|--|---|----------------------------|-------------|------------------------------------|---------------------------|-------------|
|                 | (ug/m <sup>3</sup> )<br>(b) | (mg/m <sup>3</sup> )<br>(c) |                        |                    | URF<br>(ug/m <sup>3</sup> ) <sup>-1</sup><br>(f) | CPF<br>(mg/kg/day) <sup>-1</sup><br>(g) | DOSE<br>(mg/kg-day)<br>(h) | RISK<br>(i) | REL<br>(ug/m <sup>3</sup> )<br>(j) | RfD<br>(mg/kg/day)<br>(k) | RESP<br>(l) |
| On-Site Exhaust | 0.01674                     | 1.67E-05                    | 1.00E+00               | Diesel Particulate | 3.0E-04  | 1.1E+00                                 | 1.0E-05                    | 2.3E-08     | 5.0E+00                            | 1.4E-03                   | 3.3E-03     |
| TOTAL           |                             |                             |                        |                    |  |   |                            | 2.3E-08     |                                    |                           | 3.3E-03     |

Note:

Exposure factors used to calculate contaminant intake

|                                |      |
|--------------------------------|------|
| exposure frequency (days/year) | 261  |
| exposure duration (years)      | 0.21 |
| inhalation rate (L/kg-day))    | 861  |
| inhalation absorption factor   | 1    |
| averaging time (years)         | 70   |
| fraction of time at home       | 0.72 |

**Table A13**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Hazard**  
**442 Colyton Street / Maximum Exposed Residential Receptor (Third Trimester)**

| Source          | Mass GLC             |                      | Weight Fraction | Contaminant        | Carcinogenic Risk                         |                                  |                     |         | Noncarcinogenic Hazard      |                    |         |
|-----------------|----------------------|----------------------|-----------------|--------------------|---|----------------------------------|---------------------|---------|-----------------------------|--------------------|---------|
|                 | (ug/m <sup>3</sup> ) | (mg/m <sup>3</sup> ) |                 |                    | URF<br>(ug/m <sup>3</sup> ) <sup>-1</sup> | CPF<br>(mg/kg/day) <sup>-1</sup> | DOSE<br>(mg/kg-day) | RISK    | REL<br>(ug/m <sup>3</sup> ) | RfD<br>(mg/kg/day) | RESP    |
| On-Site Exhaust | 0.05605              | 5.61E-05             | 1.00E+00        | Diesel Particulate | 3.0E-04                                   | 1.1E+00                          | 1.4E-05             | 4.6E-08 | 5.0E+00                     | 1.4E-03            | 1.1E-02 |
| TOTAL           |                      |                      |                 |                    |   |                                  |                     | 4.6E-08 |                             |                    | 1.1E-02 |

Note:

Exposure factors used to calculate contaminant intake

|                                |      |
|--------------------------------|------|
| exposure frequency (days/year) | 261  |
| exposure duration (years)      | 0.25 |
| inhalation rate (L/kg-day))    | 361  |
| inhalation absorption factor   | 1    |
| averaging time (years)         | 70   |
| fraction of time at home       | 0.85 |

**Table A14**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Hazard**  
**442 Colyton Street / Maximum Exposed Residential Receptor (0 to 2 Year Age Group)**

| Source          | Mass GLC             |                      | Weight Fraction | Contaminant        | Carcinogenic Risk                         |                                  |                     |         | Noncarcinogenic Hazard      |                    |         |
|-----------------|----------------------|----------------------|-----------------|--------------------|---|----------------------------------|---------------------|---------|-----------------------------|--------------------|---------|
|                 | (ug/m <sup>3</sup> ) | (mg/m <sup>3</sup> ) |                 |                    | URF<br>(ug/m <sup>3</sup> ) <sup>-1</sup> | CPF<br>(mg/kg/day) <sup>-1</sup> | DOSE<br>(mg/kg-day) | RISK    | REL<br>(ug/m <sup>3</sup> ) | RfD<br>(mg/kg/day) | RESP    |
| On-Site Exhaust | 0.05605              | 5.61E-05             | 1.00E+00        | Diesel Particulate | 3.0E-04                                   | 1.1E+00                          | 4.4E-05             | 1.1E-06 | 5.0E+00                     | 1.4E-03            | 1.1E-02 |
| TOTAL           |                      |                      |                 |                    |   |                                  |                     | 1.1E-06 |                             |                    | 1.1E-02 |

Note:

Exposure factors used to calculate contaminant intake

|                                |      |
|--------------------------------|------|
| exposure frequency (days/year) | 261  |
| exposure duration (years)      | 2    |
| inhalation rate (L/kg-day))    | 1090 |
| inhalation absorption factor   | 1    |
| averaging time (years)         | 70   |
| fraction of time at home       | 0.85 |

**Table A15**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Hazard**  
**442 Colyton Street / Maximum Exposed Residential Receptor (2 to 9 Year Age Group)**

| Source          | Mass GLC             |                      | Weight Fraction | Contaminant        | Carcinogenic Risk                         |                                  |                     |         | Noncarcinogenic Hazard      |                    |         |
|-----------------|----------------------|----------------------|-----------------|--------------------|---|----------------------------------|---------------------|---------|-----------------------------|--------------------|---------|
|                 | (ug/m <sup>3</sup> ) | (mg/m <sup>3</sup> ) |                 |                    | URF<br>(ug/m <sup>3</sup> ) <sup>-1</sup> | CPF<br>(mg/kg/day) <sup>-1</sup> | DOSE<br>(mg/kg-day) | RISK    | REL<br>(ug/m <sup>3</sup> ) | RfD<br>(mg/kg/day) | RESP    |
| On-Site Exhaust | 0.05605              | 5.61E-05             | 1.00E+00        | Diesel Particulate | 3.0E-04                                   | 1.1E+00                          | 3.5E-05             | 7.8E-08 | 5.0E+00                     | 1.4E-03            | 1.1E-02 |
| TOTAL           |                      |                      |                 |                    |   |                                  |                     | 7.8E-08 |                             |                    | 1.1E-02 |

Note:

Exposure factors used to calculate contaminant intake

|                                |      |
|--------------------------------|------|
| exposure frequency (days/year) | 261  |
| exposure duration (years)      | 0.21 |
| inhalation rate (L/kg-day))    | 861  |
| inhalation absorption factor   | 1    |
| averaging time (years)         | 70   |
| fraction of time at home       | 0.72 |

**ATTACHMENT B**

**Emission Calculation Worksheet**

## Emission Calculation Worksheet

| Emissions                           | Phase  | Start/End Dates      | Lb/Day | # Days     | Emissions                  |
|-------------------------------------|--|----------------------|--------|------------|----------------------------|
| On-Site<br>Exhaust PM 10            | Demolition   | 12/05/22 to 12/31/22 | 0.8379 | 20         | 16.76                      |
|                                     | Demolition   | 01/01/23 to 01/06/23 | 0.6766 | 5          | 3.38                       |
|                                     | Grading  | 01/09/23 to 04/14/23 | 0.7275 | 70         | 50.93                      |
|                                     | Building Construction                              | 04/17/23 to 12/31/23 | 0.5145 | 185        | 95.18                      |
|                                     | Building Construction                              | 01/01/24 to 12/31/24 | 0.4506 | 262        | 118.06                     |
|                                     | Building Construction                              | 01/01/25 to 02/04/25 | 0.3925 | 25         | 9.81                       |
|                                     | Building Construction/Paving/Architectural Coating | 02/05/25 to 05/13/25 | 0.6905 | 70         | 48.34                      |
|                                     | Building Construction                              | 05/14/25 to 05/20/25 | 0.3925 | 5          | 1.9625                     |
|                                     |  |                      |        | 642        | 344.42                     |
| Average Daily Construction (Lb/Day) |  |                      |        | 0.5365     |                            |
| Exhaust PM10                        | Combustion Sources                                 | 70                   | 0.5365 | 1.2070E-04 | Combustion mass g/s/source |

**ATTACHMENT C**

**CalEEMod Output File**

## 4th and Hewitt Project MXD-TDM - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****4th and Hewitt Project MXD-TDM  
Los Angeles-South Coast County, Winter****1.0 Project Characteristics****1.1 Land Usage**

| Land Uses                           | Size   | Metric            | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|-------------------|-------------|--------------------|------------|
| General Office Building             | 327.98 | 1000sqft          | 1.31        | 327,980.00         | 0          |
| User Defined Commercial             | 1.00   | User Defined Unit | 0.00        | 0.00               | 0          |
| Enclosed Parking with Elevator      | 660.00 | Space             | 0.00        | 254,881.00         | 0          |
| Other Non-Asphalt Surfaces          | 11.10  | 1000sqft          | 0.25        | 11,098.00          | 0          |
| High Turnover (Sit Down Restaurant) | 8.15   | 1000sqft          | 0.00        | 8,150.00           | 0          |

**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            | 12/5/2022  | 1/6/2023   | 5             | 25       |                   |
| 2            | Site Preparation      | Site Preparation      | 12/31/2022 | 12/30/2022 | 5             | 0        |                   |
| 3            | Grading               | Grading               | 1/9/2023   | 4/14/2023  | 5             | 70       |                   |
| 4            | Building Construction | Building Construction | 4/17/2023  | 5/20/2025  | 5             | 547      |                   |
| 5            | Paving                | Paving                | 2/5/2025   | 5/13/2025  | 5             | 70       |                   |
| 6            | Architectural Coating | Architectural Coating | 2/5/2025   | 5/13/2025  | 5             | 70       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0.25

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 504,195; Non-Residential Outdoor: 168,065; Striped Parking Area: 15,959

## 4th and Hewitt Project MXD-TDM - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****OffRoad Equipment**

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Demolition            | Tractors/Loaders/Backhoes | 3      | 8.00        | 97          | 0.37        |
| Site Preparation      | Graders                   | 0      | 8.00        | 187         | 0.41        |
| Site Preparation      | Rubber Tired Dozers       | 0      | 7.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 0      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 1      | 6.00        | 158         | 0.38        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Grading               | Tractors/Loaders/Backhoes | 3      | 7.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 6.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 1      | 6.00        | 89          | 0.20        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Tractors/Loaders/Backhoes | 1      | 6.00        | 97          | 0.37        |
| Building Construction | Welders                   | 3      | 8.00        | 46          | 0.45        |
| Paving                | Cement and Mortar Mixers  | 1      | 6.00        | 9           | 0.56        |
| Paving                | Pavers                    | 1      | 6.00        | 130         | 0.42        |
| Paving                | Paving Equipment          | 1      | 8.00        | 132         | 0.36        |
| Paving                | Rollers                   | 1      | 7.00        | 80          | 0.38        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |

## 4th and Hewitt Project MXD-TDM - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****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      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |        |            |
| Fugitive Dust |        |         |         |        | 1.5596        | 0.0000       | 1.5596     | 0.2361         | 0.0000        | 0.2361      |          |            | 0.0000     |        |     | 0.0000 |            |
| Off-Road      | 1.6889 | 16.6217 | 13.9605 | 0.0241 |               | 0.8379       | 0.8379     |                | 0.7829        | 0.7829      |          | 2,323.4168 | 2,323.4168 | 0.5921 |     |        | 2,338.2191 |
| Total         | 1.6889 | 16.6217 | 13.9605 | 0.0241 | 1.5596        | 0.8379       | 2.3975     | 0.2361         | 0.7829        | 1.0190      |          | 2,323.4168 | 2,323.4168 | 0.5921 |     |        | 2,338.2191 |

**3.2 Demolition - 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      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |        |            |
| Fugitive Dust |        |         |         |        | 1.5596        | 0.0000       | 1.5596     | 0.2361         | 0.0000        | 0.2361      |          |            | 0.0000     |        |     | 0.0000 |            |
| Off-Road      | 1.4725 | 14.3184 | 13.4577 | 0.0241 |               | 0.6766       | 0.6766     |                | 0.6328        | 0.6328      |          | 2,324.3959 | 2,324.3959 | 0.5893 |     |        | 2,339.1278 |
| Total         | 1.4725 | 14.3184 | 13.4577 | 0.0241 | 1.5596        | 0.6766       | 2.2362     | 0.2361         | 0.6328        | 0.8689      |          | 2,324.3959 | 2,324.3959 | 0.5893 |     |        | 2,339.1278 |

## 4th and Hewitt Project MXD-TDM - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****3.4 Grading - 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      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |        |            |
| Fugitive Dust |        |         |         |        | 6.1663        | 0.0000       | 6.1663     | 3.3311         | 0.0000        | 3.3311      |          |            | 0.0000     |        |     | 0.0000 |            |
| Off-Road      | 1.6070 | 16.9728 | 13.0995 | 0.0272 |               | 0.7275       | 0.7275     |                | 0.6693        | 0.6693      |          | 2,634.5734 | 2,634.5734 | 0.8521 |     |        | 2,655.8753 |
| Total         | 1.6070 | 16.9728 | 13.0995 | 0.0272 | 6.1663        | 0.7275       | 6.8938     | 3.3311         | 0.6693        | 4.0004      |          | 2,634.5734 | 2,634.5734 | 0.8521 |     |        | 2,655.8753 |

**3.5 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 | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |      |            |
| Off-Road | 1.5233 | 11.7104 | 12.6111 | 0.0221 |               | 0.5145       | 0.5145     |                | 0.4968        | 0.4968      |          | 2,001.7877 | 2,001.7877 | 0.3399 |     |      | 2,010.2858 |
| Total    | 1.5233 | 11.7104 | 12.6111 | 0.0221 |               | 0.5145       | 0.5145     |                | 0.4968        | 0.4968      |          | 2,001.7877 | 2,001.7877 | 0.3399 |     |      | 2,010.2858 |

## 4th and Hewitt Project MXD-TDM - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****3.5 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 | lb/day |         |         |        |               |              |            |                |               |             |          | lb/day     |            |        |     |            |  |
| Off-Road | 1.4200 | 11.0639 | 12.5172 | 0.0221 |               | 0.4506       | 0.4506     |                | 0.4348        | 0.4348      |          | 2,001.9214 | 2,001.9214 | 0.3334 |     | 2,010.2563 |  |
| Total    | 1.4200 | 11.0639 | 12.5172 | 0.0221 |               | 0.4506       | 0.4506     |                | 0.4348        | 0.4348      |          | 2,001.9214 | 2,001.9214 | 0.3334 |     | 2,010.2563 |  |

**3.5 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 | lb/day |         |         |        |               |              |            |                |               |             |          | lb/day     |            |        |     |            |  |
| Off-Road | 1.3246 | 10.4128 | 12.4393 | 0.0221 |               | 0.3925       | 0.3925     |                | 0.3785        | 0.3785      |          | 2,002.1524 | 2,002.1524 | 0.3269 |     | 2,010.3248 |  |
| Total    | 1.3246 | 10.4128 | 12.4393 | 0.0221 |               | 0.3925       | 0.3925     |                | 0.3785        | 0.3785      |          | 2,002.1524 | 2,002.1524 | 0.3269 |     | 2,010.3248 |  |

## 4th and Hewitt Project MXD-TDM - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****3.6 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 | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 0.5732 | 5.3259 | 8.7951 | 0.0136 |               | 0.2465       | 0.2465     |                | 0.2276        | 0.2276      |          | 1,297.8096 | 1,297.8096 | 0.4114 |     | 1,308.0951 |
| Paving   | 0.0000 |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |     | 0.0000     |
| Total    | 0.5732 | 5.3259 | 8.7951 | 0.0136 |               | 0.2465       | 0.2465     |                | 0.2276        | 0.2276      |          | 1,297.8096 | 1,297.8096 | 0.4114 |     | 1,308.0951 |

**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        | lb/day  |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |     |          |
| Archit. Coating | 45.5699 |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |           | 0.0000    |        |     | 0.0000   |
| Off-Road        | 0.1709  | 1.1455 | 1.8091 | 2.9700e-003 |               | 0.0515       | 0.0515     |                | 0.0515        | 0.0515      |          | 281.4481  | 281.4481  | 0.0154 |     | 281.8319 |
| Total           | 45.7408 | 1.1455 | 1.8091 | 2.9700e-003 |               | 0.0515       | 0.0515     |                | 0.0515        | 0.0515      |          | 281.4481  | 281.4481  | 0.0154 |     | 281.8319 |

**ATTACHMENT D**

**Dispersion Model Output File**

\*\*BEE-Line Software: (Version 12.09) data input file  
\*\* Model: AERMOD.EXE Input File Creation Date: 9/15/2022 Time: 12:45:39 PM  
NO ECHO

\*\*\* 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 372 MOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 372 MOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

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

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* 4th and Hewitt Project \*\*\* 09/15/22  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Particulate (DPM) / Construction \*\*\* 12:45:43  
PAGE 1

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

-----

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCenration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDplete = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 70 Source(s),  
for Total of 1 Urban Area(s):

Urban Population = 9818605.0 ; Urban Roughness Length = 1.000 m  
\* Urban Roughness Length of 1.0 Meter Used.  
\* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET  
\* TEMP\_Sub - Meteorological data includes TEMP substitutions  
\* Model Accepts FLAGPOLE Receptor . Heights.  
\* The User Specified a Pollutant Type of: OTHER

\*\*Model Calculates ANNUAL Averages Only

\*\*This Run Includes: 70 Source(s); 1 Source Group(s); and 128 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 70 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINEx/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
and: 0 SWPOINT source(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 ANNUAL Averages by Receptor  
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)  
 Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

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

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 87.00 ; 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: F:\WD Passport\4th and Hewitt\model\SETUP\_2010-2016\_OTHER.DTA  
 \*\*Output Print File: F:\WD Passport\4th and Hewitt\model\SETUP\_2010-2016\_OTHER.LST

\*\*File for Summary of Results: F:\WD Passport\4th and Hewitt\model\SETUP\_2010-2016\_OTHER.SUM

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* 4th and Hewitt Project \*\*\* 09/15/22  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Particulate (DPM) / Construction \*\*\* 12:45:43  
 PAGE 2

\*\*\* MODELOPTS: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE<br>ID | NUMBER<br>PART.<br>CATS. | EMISSION RATE<br>(GRAMS/SEC) | BASE<br>X<br>(METERS) | RELEASE<br>Y<br>(METERS) | INIT.<br>ELEV.<br>(METERS) | INIT.<br>HEIGHT<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>SZ<br>(METERS) | URBAN<br>SOURCE | EMISSION RATE<br>SCALAR<br>BY |
|--------------|--------------------------|------------------------------|-----------------------|--------------------------|----------------------------|-----------------------------|-------------------------|-------------------------|-----------------|-------------------------------|
| C_1          | 0                        | 0.12070E-03                  | 385888.6              | 3767626.3                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_2          | 0                        | 0.12070E-03                  | 385896.6              | 3767627.1                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_3          | 0                        | 0.12070E-03                  | 385904.2              | 3767628.0                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_4          | 0                        | 0.12070E-03                  | 385909.3              | 3767651.1                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_5          | 0                        | 0.12070E-03                  | 385910.4              | 3767644.0                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_6          | 0                        | 0.12070E-03                  | 385911.3              | 3767636.4                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_7          | 0                        | 0.12070E-03                  | 385912.1              | 3767629.3                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_8          | 0                        | 0.12070E-03                  | 385917.5              | 3767652.2                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_9          | 0                        | 0.12070E-03                  | 385918.9              | 3767644.9                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_10         | 0                        | 0.12070E-03                  | 385919.4              | 3767637.5                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_11         | 0                        | 0.12070E-03                  | 385920.3              | 3767630.2                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_12         | 0                        | 0.12070E-03                  | 385925.1              | 3767653.0                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_13         | 0                        | 0.12070E-03                  | 385926.2              | 3767645.7                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_14         | 0                        | 0.12070E-03                  | 385927.0              | 3767638.1                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_15         | 0                        | 0.12070E-03                  | 385927.8              | 3767630.8                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_16         | 0                        | 0.12070E-03                  | 385932.7              | 3767653.9                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_17         | 0                        | 0.12070E-03                  | 385933.8              | 3767646.8                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_18         | 0                        | 0.12070E-03                  | 385934.6              | 3767639.0                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_19         | 0                        | 0.12070E-03                  | 385935.5              | 3767631.6                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_20         | 0                        | 0.12070E-03                  | 385936.6              | 3767624.9                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_21         | 0                        | 0.12070E-03                  | 385937.5              | 3767617.3                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_22         | 0                        | 0.12070E-03                  | 385938.6              | 3767609.4                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_23         | 0                        | 0.12070E-03                  | 385939.7              | 3767601.8                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_24         | 0                        | 0.12070E-03                  | 385940.8              | 3767655.0                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_25         | 0                        | 0.12070E-03                  | 385942.0              | 3767647.7                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_26         | 0                        | 0.12070E-03                  | 385942.8              | 3767640.1                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_27         | 0                        | 0.12070E-03                  | 385943.7              | 3767632.6                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_28         | 0                        | 0.12070E-03                  | 385944.5              | 3767626.0                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_29         | 0                        | 0.12070E-03                  | 385945.6              | 3767618.4                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_30         | 0                        | 0.12070E-03                  | 385946.8              | 3767610.2                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_31         | 0                        | 0.12070E-03                  | 385947.9              | 3767602.7                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_32         | 0                        | 0.12070E-03                  | 385949.0              | 3767656.1                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_33         | 0                        | 0.12070E-03                  | 385950.5              | 3767648.5                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_34         | 0                        | 0.12070E-03                  | 385951.3              | 3767641.2                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_35         | 0                        | 0.12070E-03                  | 385952.1              | 3767633.6                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_36         | 0                        | 0.12070E-03                  | 385952.9              | 3767626.9                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_37         | 0                        | 0.12070E-03                  | 385953.8              | 3767619.5                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_38         | 0                        | 0.12070E-03                  | 385954.9              | 3767611.3                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_39         | 0                        | 0.12070E-03                  | 385956.1              | 3767603.6                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |
| C_40         | 0                        | 0.12070E-03                  | 385908.5              | 3767658.7                | 79.0                       | 5.00                        | 3.72                    | 1.40                    | YES             | HROFDY                        |

\*\*\* AERMOD - VERSION 22112 \*\*\*    \*\*\* 4th and Hewitt Project    \*\*\*  
\*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* Particulate (DPM) / Construction    \*\*\*  
    \*\*\* PAGE 3  
\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE ID | NUMBER CATS. | EMISSION RATE (GRAMS/SEC) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|-----------|--------------|---------------------------|------------|------------|---------------------|-------------------------|-------------------|-------------------|--------------|------------------------------|
| C_41      | 0            | 0.12070E-03               | 385916.5   | 3767659.7  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_42      | 0            | 0.12070E-03               | 385924.4   | 3767660.6  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_43      | 0            | 0.12070E-03               | 385932.1   | 3767661.7  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_44      | 0            | 0.12070E-03               | 385940.2   | 3767662.6  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_45      | 0            | 0.12070E-03               | 385948.1   | 3767663.6  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_46      | 0            | 0.12070E-03               | 385956.0   | 3767664.6  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_47      | 0            | 0.12070E-03               | 385957.0   | 3767657.2  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_48      | 0            | 0.12070E-03               | 385958.1   | 3767649.8  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_49      | 0            | 0.12070E-03               | 385959.1   | 3767642.4  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_50      | 0            | 0.12070E-03               | 385960.1   | 3767635.0  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_51      | 0            | 0.12070E-03               | 385961.1   | 3767628.0  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_52      | 0            | 0.12070E-03               | 385962.0   | 3767620.4  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_53      | 0            | 0.12070E-03               | 385963.1   | 3767612.4  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_54      | 0            | 0.12070E-03               | 385964.2   | 3767604.6  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_55      | 0            | 0.12070E-03               | 385965.2   | 3767597.8  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_56      | 0            | 0.12070E-03               | 385957.2   | 3767596.7  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_57      | 0            | 0.12070E-03               | 385949.0   | 3767595.6  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_58      | 0            | 0.12070E-03               | 385940.8   | 3767594.5  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_59      | 0            | 0.12070E-03               | 385932.7   | 3767593.5  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_60      | 0            | 0.12070E-03               | 385931.8   | 3767600.5  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_61      | 0            | 0.12070E-03               | 385930.8   | 3767608.3  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_62      | 0            | 0.12070E-03               | 385929.8   | 3767616.3  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_63      | 0            | 0.12070E-03               | 385928.7   | 3767624.0  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_64      | 0            | 0.12070E-03               | 385921.1   | 3767623.1  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_65      | 0            | 0.12070E-03               | 385913.0   | 3767622.1  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_66      | 0            | 0.12070E-03               | 385905.1   | 3767621.3  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_67      | 0            | 0.12070E-03               | 385897.5   | 3767620.4  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_68      | 0            | 0.12070E-03               | 385889.3   | 3767619.4  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_69      | 0            | 0.12070E-03               | 385881.7   | 3767618.5  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |
| C_70      | 0            | 0.12070E-03               | 385880.7   | 3767625.4  | 79.0                | 5.00                    | 3.72              | 1.40              | YES          | HROFDY                       |

\*\*\* AERMOD - VERSION 22112 \*\*\*    \*\*\* 4th and Hewitt Project    \*\*\*  
\*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* Particulate (DPM) / Construction                                  \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

| SRCGROUP ID | SOURCE IDs |   |      |   |      |   |      |   |      |   |      |   |      |   |      |   |
|-------------|------------|---|------|---|------|---|------|---|------|---|------|---|------|---|------|---|
| ALL         | C_1        | , | C_2  | , | C_3  | , | C_4  | , | C_5  | , | C_6  | , | C_7  | , | C_8  | , |
|             | C_9        | , | C_10 | , | C_11 | , | C_12 | , | C_13 | , | C_14 | , | C_15 | , | C_16 | , |
|             | C_17       | , | C_18 | , | C_19 | , | C_20 | , | C_21 | , | C_22 | , | C_23 | , | C_24 | , |
|             | C_25       | , | C_26 | , | C_27 | , | C_28 | , | C_29 | , | C_30 | , | C_31 | , | C_32 | , |
|             | C_33       | , | C_34 | , | C_35 | , | C_36 | , | C_37 | , | C_38 | , | C_39 | , | C_40 | , |
|             | C_41       | , | C_42 | , | C_43 | , | C_44 | , | C_45 | , | C_46 | , | C_47 | , | C_48 | , |
|             | C_49       | , | C_50 | , | C_51 | , | C_52 | , | C_53 | , | C_54 | , | C_55 | , | C_56 | , |
|             | C_57       | , | C_58 | , | C_59 | , | C_60 | , | C_61 | , | C_62 | , | C_63 | , | C_64 | , |

C\_65 , C\_66 , C\_67 , C\_68 , C\_69 , C\_70 ,  
\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* 4th and Hewitt Project \*\*\* 09/15/22  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Particulate (DPM) / Construction \*\*\* 12:45:43  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ\_U\*

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

| URBAN_ID | URBAN_POP   | SOURCE_IDS                                |
|----------|---|---|
| C_8      | 9818605.  | C_1 , C_2 , C_3 , C_4 , C_5 , C_6 , C_7 , |
|          | C_9 , C_10 , C_11 , C_12 , C_13 , C_14 , C_15 , C_16 ,  | ,   |
|          | C_17 , C_18 , C_19 , C_20 , C_21 , C_22 , C_23 , C_24 , | ,   |
|          | C_25 , C_26 , C_27 , C_28 , C_29 , C_30 , C_31 , C_32 , | ,   |
|          | C_33 , C_34 , C_35 , C_36 , C_37 , C_38 , C_39 , C_40 , | ,   |
|          | C_41 , C_42 , C_43 , C_44 , C_45 , C_46 , C_47 , C_48 , | ,   |
|          | C_49 , C_50 , C_51 , C_52 , C_53 , C_54 , C_55 , C_56 , | ,   |
|          | C_57 , C_58 , C_59 , C_60 , C_61 , C_62 , C_63 , C_64 , | ,   |
|          | C_65 , C_66 , C_67 , C_68 , C_69 , C_70 ,               | ,   |

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT 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

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SOURCE ID = C_1           ; 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 .00000E+00      9 .10000E+01     10 .10000E+01     11 .10000E+01     12 .10000E+01
     13 .10000E+01     14 .10000E+01     15 .10000E+01     16 .10000E+01     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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SOURCE ID = C_2          ; 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 .00000E+00      9 .10000E+01     10 .10000E+01     11 .10000E+01     12 .10000E+01
   13 .10000E+01     14 .10000E+01     15 .10000E+01     16 .10000E+01     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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SOURCE ID = C_3           ; 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 .00000E+00      9 .10000E+01     10 .10000E+01     11 .10000E+01     12 .10000E+01
     13 .10000E+01     14 .10000E+01     15 .10000E+01     16 .10000E+01     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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```
SOURCE ID = C_4 ; 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 .00000E+00   9 .10000E+01  10 .10000E+01  11 .10000E+01  12 .10000E+01
   13 .10000E+01  14 .10000E+01  15 .10000E+01  16 .10000E+01  17 .00000E+00  18 .00000E+00
```

|    |            |    |            |    |            |    |            |    |            |    |            |
|----|------------|----|------------|----|------------|----|------------|----|------------|----|------------|
| 1  | .00000E+00 | 2  | .00000E+00 | 3  | .00000E+00 | 4  | .00000E+00 | 5  | .00000E+00 | 6  | .00000E+00 |
| 7  | .00000E+00 | 8  | .00000E+00 | 9  | .10000E+01 | 10 | .10000E+01 | 11 | .10000E+01 | 12 | .10000E+01 |
| 13 | .10000E+01 | 14 | .10000E+01 | 15 | .10000E+01 | 16 | .10000E+01 | 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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 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Particulate (DPM) / Construction \*\*\* 12:45:43  
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\*\*\* MODELOPTS: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ\_U\*

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

| HOUR | SCALAR |
|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|

SOURCE ID = C\_6 ; 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  | .00000E+00 | 9  | .10000E+01 | 10 | .10000E+01 | 11 | .10000E+01 | 12 | .10000E+01 |
| 13 | .10000E+01 | 14 | .10000E+01 | 15 | .10000E+01 | 16 | .10000E+01 | 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 = C\_7 ; 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  | .00000E+00 | 9  | .10000E+01 | 10 | .10000E+01 | 11 | .10000E+01 | 12 | .10000E+01 |
| 13 | .10000E+01 | 14 | .10000E+01 | 15 | .10000E+01 | 16 | .10000E+01 | 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 = C\_8 ; 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  | .00000E+00 | 9  | .10000E+01 | 10 | .10000E+01 | 11 | .10000E+01 | 12 | .10000E+01 |
| 13 | .10000E+01 | 14 | .10000E+01 | 15 | .10000E+01 | 16 | .10000E+01 | 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 = C\_9 ; 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  | .00000E+00 | 9  | .10000E+01 | 10 | .10000E+01 | 11 | .10000E+01 | 12 | .10000E+01 |
| 13 | .10000E+01 | 14 | .10000E+01 | 15 | .10000E+01 | 16 | .10000E+01 | 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 = C\_10 ; 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  | .00000E+00 | 9  | .10000E+01 | 10 | .10000E+01 | 11 | .10000E+01 | 12 | .10000E+01 |
| 13 | .10000E+01 | 14 | .10000E+01 | 15 | .10000E+01 | 16 | .10000E+01 | 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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\*\*\* MODELOPTS: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ\_U\*

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

| HOUR | SCALAR |
|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|

SOURCE ID = C\_11 ; 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  | .00000E+00 | 9  | .10000E+01 | 10 | .10000E+01 | 11 | .10000E+01 | 12 | .10000E+01 |
| 13 | .10000E+01 | 14 | .10000E+01 | 15 | .10000E+01 | 16 | .10000E+01 | 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 = C\_12 ; 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  | .00000E+00 | 9  | .10000E+01 | 10 | .10000E+01 | 11 | .10000E+01 | 12 | .10000E+01 |
| 13 | .10000E+01 | 14 | .10000E+01 | 15 | .10000E+01 | 16 | .10000E+01 | 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 = C\_13 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 = C\_14 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 = C\_15 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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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 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Particulate (DPM) / Construction \*\*\* 12:45:43  
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\*\*\* MODELOPTS: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ\_U\*

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

| HOUR | SCALAR |
|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| -    | -      | -    | -      | -    | -      | -    | -      | -    | -      | -    | -      |

SOURCE ID = C\_16 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 = C\_17 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 = C\_18 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 = C\_19 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 = C\_20 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 22112 \*\*\* \*\*\* 4th and Hewitt Project \*\*\* 09/15/22  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Particulate (DPM) / Construction \*\*\* 12:45:43  
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\*\*\* MODELOPTS: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT 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 = C_21 ; 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 .00000E+00  | 9 .10000E+01  | 10 .10000E+01 | 11 .10000E+01 | 12 .10000E+01 |      |        |      |        |      |        |
| 13 .10000E+01   | 14 .10000E+01 | 15 .10000E+01 | 16 .10000E+01 | 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 = C_22 ; 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 .00000E+00  | 9 .10000E+01  | 10 .10000E+01 | 11 .10000E+01 | 12 .10000E+01 |      |        |      |        |      |        |
| 13 .10000E+01   | 14 .10000E+01 | 15 .10000E+01 | 16 .10000E+01 | 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 = C_23 ; 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 .00000E+00  | 9 .10000E+01  | 10 .10000E+01 | 11 .10000E+01 | 12 .10000E+01 |      |        |      |        |      |        |
| 13 .10000E+01   | 14 .10000E+01 | 15 .10000E+01 | 16 .10000E+01 | 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 = C_24 ; 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 .00000E+00  | 9 .10000E+01  | 10 .10000E+01 | 11 .10000E+01 | 12 .10000E+01 |      |        |      |        |      |        |
| 13 .10000E+01   | 14 .10000E+01 | 15 .10000E+01 | 16 .10000E+01 | 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 = C_25 ; 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 .00000E+00  | 9 .10000E+01  | 10 .10000E+01 | 11 .10000E+01 | 12 .10000E+01 |      |        |      |        |      |        |
| 13 .10000E+01   | 14 .10000E+01 | 15 .10000E+01 | 16 .10000E+01 | 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 22112 *** *** 4th and Hewitt Project                   |               |               |               |               |               |      |        |      |        |      |        |
| *** AERMET - VERSION 16216 *** *** Particulate (DPM) / Construction         |               |               |               |               |               |      |        |      |        |      |        |
| *** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT 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 = C_26 ; 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 .00000E+00  | 9 .10000E+01  | 10 .10000E+01 | 11 .10000E+01 | 12 .10000E+01 |      |        |      |        |      |        |
| 13 .10000E+01   | 14 .10000E+01 | 15 .10000E+01 | 16 .10000E+01 | 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 = C_27 ; 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 .00000E+00  | 9 .10000E+01  | 10 .10000E+01 | 11 .10000E+01 | 12 .10000E+01 |      |        |      |        |      |        |
| 13 .10000E+01   | 14 .10000E+01 | 15 .10000E+01 | 16 .10000E+01 | 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 = C_28 ; 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 .00000E+00  | 9 .10000E+01  | 10 .10000E+01 | 11 .10000E+01 | 12 .10000E+01 |      |        |      |        |      |        |
| 13 .10000E+01   | 14 .10000E+01 | 15 .10000E+01 | 16 .10000E+01 | 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 = C_29 ; 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  | .00000E+00 | 9  | .10000E+01 | 10 | .10000E+01 | 11 | .10000E+01 | 12 | .10000E+01 |
| 13 | .10000E+01 | 14 | .10000E+01 | 15 | .10000E+01 | 16 | .10000E+01 | 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 = C\_30 ; 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  | .00000E+00 | 9  | .10000E+01 | 10 | .10000E+01 | 11 | .10000E+01 | 12 | .10000E+01 |
| 13 | .10000E+01 | 14 | .10000E+01 | 15 | .10000E+01 | 16 | .10000E+01 | 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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\*\*\* MODELOPTS: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ\_U\*

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

| HOUR | SCALAR |
|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|

SOURCE ID = C\_31 ; 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  | .00000E+00 | 9  | .10000E+01 | 10 | .10000E+01 | 11 | .10000E+01 | 12 | .10000E+01 |
| 13 | .10000E+01 | 14 | .10000E+01 | 15 | .10000E+01 | 16 | .10000E+01 | 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 = C\_32 ; 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  | .00000E+00 | 9  | .10000E+01 | 10 | .10000E+01 | 11 | .10000E+01 | 12 | .10000E+01 |
| 13 | .10000E+01 | 14 | .10000E+01 | 15 | .10000E+01 | 16 | .10000E+01 | 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 = C\_33 ; 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  | .00000E+00 | 9  | .10000E+01 | 10 | .10000E+01 | 11 | .10000E+01 | 12 | .10000E+01 |
| 13 | .10000E+01 | 14 | .10000E+01 | 15 | .10000E+01 | 16 | .10000E+01 | 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 = C\_34 ; 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  | .00000E+00 | 9  | .10000E+01 | 10 | .10000E+01 | 11 | .10000E+01 | 12 | .10000E+01 |
| 13 | .10000E+01 | 14 | .10000E+01 | 15 | .10000E+01 | 16 | .10000E+01 | 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 = C\_35 ; 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  | .00000E+00 | 9  | .10000E+01 | 10 | .10000E+01 | 11 | .10000E+01 | 12 | .10000E+01 |
| 13 | .10000E+01 | 14 | .10000E+01 | 15 | .10000E+01 | 16 | .10000E+01 | 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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\*\*\* MODELOPTS: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ\_U\*

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

| HOUR | SCALAR |
|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|

SOURCE ID = C\_36 ; 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  | .00000E+00 | 9  | .10000E+01 | 10 | .10000E+01 | 11 | .10000E+01 | 12 | .10000E+01 |
| 13 | .10000E+01 | 14 | .10000E+01 | 15 | .10000E+01 | 16 | .10000E+01 | 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 = C\_37 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 = C\_38 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 = C\_39 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 = C\_40 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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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\*\*\* MODELOPTS: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ\_U\*

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

| HOUR | SCALAR |
|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| -    | -      | -    | -      | -    | -      | -    | -      | -    | -      | -    | -      |

SOURCE ID = C\_41 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 = C\_42 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 = C\_43 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 = C\_44 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 = C\_45 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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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\*\*\* MODELOPTS: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT 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 = C_46 ; 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 .00000E+00  | 9 .10000E+01  | 10 .10000E+01 | 11 .10000E+01 | 12 .10000E+01 |           |           |           |           |           |           |
| 13 .10000E+01                             | 14 .10000E+01 | 15 .10000E+01 | 16 .10000E+01 | 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 = C_47 ; 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 .00000E+00  | 9 .10000E+01  | 10 .10000E+01 | 11 .10000E+01 | 12 .10000E+01 |  |  |  |  |  |  |
| 13 .10000E+01                             | 14 .10000E+01 | 15 .10000E+01 | 16 .10000E+01 | 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 = C_48 ; 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 .00000E+00  | 9 .10000E+01  | 10 .10000E+01 | 11 .10000E+01 | 12 .10000E+01 |  |  |  |  |  |  |
| 13 .10000E+01                             | 14 .10000E+01 | 15 .10000E+01 | 16 .10000E+01 | 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 = C_49 ; 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 .00000E+00  | 9 .10000E+01  | 10 .10000E+01 | 11 .10000E+01 | 12 .10000E+01 |  |  |  |  |  |  |
| 13 .10000E+01                             | 14 .10000E+01 | 15 .10000E+01 | 16 .10000E+01 | 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 = C_50 ; 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 .00000E+00  | 9 .10000E+01  | 10 .10000E+01 | 11 .10000E+01 | 12 .10000E+01 |  |  |  |  |  |  |
| 13 .10000E+01                             | 14 .10000E+01 | 15 .10000E+01 | 16 .10000E+01 | 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 22112 \*\*\* \*\*\* 4th and Hewitt Project  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Particulate (DPM) / Construction

\*\*\* 09/15/22  
12:45:43  
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\*\*\* MODELOPTS: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT 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 = C_51 ; 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 .00000E+00  | 9 .10000E+01  | 10 .10000E+01 | 11 .10000E+01 | 12 .10000E+01 |           |           |           |           |           |           |
| 13 .10000E+01                             | 14 .10000E+01 | 15 .10000E+01 | 16 .10000E+01 | 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 = C_52 ; 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 .00000E+00  | 9 .10000E+01  | 10 .10000E+01 | 11 .10000E+01 | 12 .10000E+01 |  |  |  |  |  |  |
| 13 .10000E+01                             | 14 .10000E+01 | 15 .10000E+01 | 16 .10000E+01 | 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 = C\_53 ; SOURCE TYPE = VOLUME :

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

SOURCE ID = C\_61 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 = C\_62 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 = C\_63 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 = C\_64 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 = C\_65 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 22112 \*\*\* \*\*\* 4th and Hewitt Project \*\*\* 09/15/22  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Particulate (DPM) / Construction \*\*\* 12:45:43  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ\_U\*

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

| HOUR | SCALAR |
|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| -    | -      | -    | -      | -    | -      | -    | -      | -    | -      | -    | -      |

SOURCE ID = C\_66 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 = C\_67 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 = C\_68 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 = C\_69 ; 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 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 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 = C_70      ; 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  .00000E+00    9  .10000E+01   10  .10000E+01   11  .10000E+01   12  .10000E+01
 13  .10000E+01   14  .10000E+01   15  .10000E+01   16  .10000E+01   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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*** AERMOD - VERSION 22112 ***   *** 4th and Hewitt Project          ***        09/15/22
*** AERMET - VERSION 16216 ***   *** Particulate (DPM) / Construction ***        12:45:43
                                         *** PAGE 20
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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ_U*
```

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

|                        |       |       |       |                         |       |       |       |
|------------------------|-------|-------|-------|-------------------------|-------|-------|-------|
| ( 385780.1, 3767681.8, | 79.0, | 79.0, | 2.0); | ( 385790.2, 3767682.5,  | 79.0, | 79.0, | 2.0); |
| ( 385800.5, 3767683.4, | 79.0, | 79.0, | 2.0); | ( 385810.8, 3767684.3,  | 79.0, | 79.0, | 2.0); |
| ( 385780.4, 3767674.1, | 79.0, | 79.0, | 2.0); | ( 385790.0, 3767674.8,  | 79.0, | 79.0, | 2.0); |
| ( 385800.1, 3767676.2, | 79.0, | 79.0, | 2.0); | ( 385810.2, 3767677.0,  | 79.0, | 79.0, | 2.0); |
| ( 385769.7, 3767688.7, | 79.0, | 79.0, | 2.0); | ( 385779.7, 3767689.3,  | 79.0, | 79.0, | 2.0); |
| ( 385790.2, 3767690.2, | 79.0, | 79.0, | 2.0); | ( 385800.9, 3767691.1,  | 79.0, | 79.0, | 2.0); |
| ( 385811.2, 3767692.1, | 79.0, | 79.0, | 2.0); | ( 385821.2, 3767692.8,  | 79.0, | 79.0, | 2.0); |
| ( 385820.4, 3767685.5, | 79.0, | 79.0, | 2.0); | ( 385819.7, 3767677.6,  | 79.0, | 79.0, | 2.0); |
| ( 385818.9, 3767671.1, | 79.0, | 79.0, | 2.0); | ( 385809.9, 3767670.5,  | 79.0, | 79.0, | 2.0); |
| ( 385799.8, 3767669.4, | 79.0, | 79.0, | 2.0); | ( 385790.0, 3767668.4,  | 79.0, | 79.0, | 2.0); |
| ( 385780.4, 3767667.5, | 79.0, | 79.0, | 2.0); | ( 385771.7, 3767666.3,  | 79.0, | 79.0, | 2.0); |
| ( 385771.1, 3767673.6, | 79.0, | 79.0, | 2.0); | ( 385770.5, 3767681.5,  | 79.0, | 79.0, | 2.0); |
| ( 385884.9, 3767807.8, | 79.0, | 79.0, | 2.0); | ( 385879.4, 3767800.6,  | 79.0, | 79.0, | 2.0); |
| ( 385874.0, 3767793.7, | 79.0, | 79.0, | 2.0); | ( 385892.0, 3767802.7,  | 79.0, | 79.0, | 2.0); |
| ( 385886.6, 3767795.6, | 79.0, | 79.0, | 2.0); | ( 385881.1, 3767788.8,  | 79.0, | 79.0, | 2.0); |
| ( 385899.7, 3767797.6, | 79.0, | 79.0, | 2.0); | ( 385894.3, 3767790.5,  | 79.0, | 79.0, | 2.0); |
| ( 385888.6, 3767783.2, | 79.0, | 79.0, | 2.0); | ( 385883.0, 3767820.0,  | 79.0, | 79.0, | 2.0); |
| ( 385890.2, 3767814.9, | 79.0, | 79.0, | 2.0); | ( 385897.4, 3767809.7,  | 79.0, | 79.0, | 2.0); |
| ( 385904.6, 3767804.6, | 79.0, | 79.0, | 2.0); | ( 385911.8, 3767799.4,  | 79.0, | 79.0, | 2.0); |
| ( 385906.5, 3767792.4, | 79.0, | 79.0, | 2.0); | ( 385901.2, 3767785.3,  | 79.0, | 79.0, | 2.0); |
| ( 385895.9, 3767778.3, | 79.0, | 79.0, | 2.0); | ( 385890.6, 3767771.2,  | 79.0, | 79.0, | 2.0); |
| ( 385883.7, 3767776.4, | 79.0, | 79.0, | 2.0); | ( 385876.3, 37677781.6, | 79.0, | 79.0, | 2.0); |
| ( 385869.2, 3767786.8, | 79.0, | 79.0, | 2.0); | ( 385862.0, 3767792.0,  | 79.0, | 79.0, | 2.0); |
| ( 385867.3, 3767799.0, | 79.0, | 79.0, | 2.0); | ( 385872.5, 3767806.0,  | 79.0, | 79.0, | 2.0); |
| ( 385877.8, 3767813.0, | 79.0, | 79.0, | 2.0); | ( 386001.4, 3767582.7,  | 79.0, | 79.0, | 6.1); |
| ( 385989.7, 3767588.0, | 79.0, | 79.0, | 6.1); | ( 385998.0, 3767587.0,  | 79.0, | 79.0, | 6.1); |
| ( 386006.3, 3767586.0, | 79.0, | 79.0, | 6.1); | ( 386014.0, 3767585.0,  | 79.0, | 79.0, | 6.1); |
| ( 386013.0, 3767580.0, | 79.0, | 79.0, | 6.1); | ( 386005.8, 3767579.2,  | 79.0, | 79.0, | 6.1); |
| ( 385998.5, 3767578.4, | 79.0, | 79.0, | 6.1); | ( 385991.5, 3767577.7,  | 79.0, | 79.0, | 6.1); |
| ( 385990.7, 3767582.9, | 79.0, | 79.0, | 6.1); | ( 386015.2, 3767473.5,  | 79.0, | 79.0, | 2.0); |
| ( 386016.7, 3767463.2, | 79.0, | 79.0, | 2.0); | ( 386018.2, 3767453.8,  | 79.0, | 79.0, | 2.0); |
| ( 386019.5, 3767443.9, | 79.0, | 79.0, | 2.0); | ( 386020.6, 3767434.1,  | 79.0, | 79.0, | 2.0); |
| ( 386021.9, 3767424.7, | 79.0, | 79.0, | 2.0); | ( 386023.0, 3767414.4,  | 79.0, | 79.0, | 2.0); |
| ( 386024.5, 3767405.0, | 79.0, | 79.0, | 2.0); | ( 386024.5, 3767475.0,  | 79.0, | 79.0, | 2.0); |
| ( 386026.0, 3767464.5, | 79.0, | 79.0, | 2.0); | ( 386027.4, 3767454.9,  | 79.0, | 79.0, | 2.0); |
| ( 386028.7, 3767445.0, | 79.0, | 79.0, | 2.0); | ( 386030.0, 3767435.6,  | 79.0, | 79.0, | 2.0); |
| ( 386031.3, 3767425.9, | 79.0, | 79.0, | 2.0); | ( 386032.6, 3767415.5,  | 79.0, | 79.0, | 2.0); |
| ( 386033.7, 3767406.1, | 79.0, | 79.0, | 2.0); | ( 386034.3, 3767476.2,  | 79.0, | 79.0, | 2.0); |
| ( 386035.6, 3767465.5, | 79.0, | 79.0, | 2.0); | ( 386036.7, 3767456.1,  | 79.0, | 79.0, | 2.0); |
| ( 386038.2, 3767446.3, | 79.0, | 79.0, | 2.0); | ( 386039.6, 3767436.6,  | 79.0, | 79.0, | 2.0); |
| ( 386040.9, 3767426.8, | 79.0, | 79.0, | 2.0); | ( 386042.2, 3767416.7,  | 79.0, | 79.0, | 2.0); |
| ( 386043.5, 3767407.5, | 79.0, | 79.0, | 2.0); | ( 386005.0, 3767482.0,  | 79.0, | 79.0, | 2.0); |
| ( 386014.1, 3767483.3, | 79.0, | 79.0, | 2.0); | ( 386023.5, 3767484.6,  | 79.0, | 79.0, | 2.0); |
| ( 386033.2, 3767486.1, | 79.0, | 79.0, | 2.0); | ( 386042.0, 3767487.0,  | 79.0, | 79.0, | 2.0); |
| ( 386043.4, 3767477.2, | 79.0, | 79.0, | 2.0); | ( 386044.7, 3767467.4,  | 79.0, | 79.0, | 2.0); |

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*** AERMOD - VERSION 22112 ***   *** 4th and Hewitt Project          ***        09/15/22
*** AERMET - VERSION 16216 ***   *** Particulate (DPM) / Construction ***        12:45:43
                                         *** PAGE 21
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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ_U*
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\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

|                        |       |       |       |                        |       |       |       |
|------------------------|-------|-------|-------|------------------------|-------|-------|-------|
| ( 386046.1, 3767457.6, | 79.0, | 79.0, | 2.0); | ( 386047.4, 3767447.8, | 79.0, | 79.0, | 2.0); |
|------------------------|-------|-------|-------|------------------------|-------|-------|-------|

( 386048.8, 3767438.1, 79.0, 79.0, 2.0); ( 386050.1, 3767428.3, 79.0, 79.0, 2.0);  
 ( 386051.5, 3767418.5, 79.0, 79.0, 2.0); ( 386052.8, 3767408.7, 79.0, 79.0, 2.0);  
 ( 386054.2, 3767398.9, 79.0, 79.0, 2.0); ( 386044.9, 3767397.7, 79.0, 79.0, 2.0);  
 ( 386035.6, 3767396.5, 79.0, 79.0, 2.0); ( 386026.3, 3767395.3, 79.0, 79.0, 2.0);  
 ( 386017.0, 3767394.1, 79.0, 79.0, 2.0); ( 386015.7, 3767403.9, 79.0, 79.0, 2.0);  
 ( 386014.3, 3767413.6, 79.0, 79.0, 2.0); ( 386013.0, 3767423.4, 79.0, 79.0, 2.0);  
 ( 386011.7, 3767433.2, 79.0, 79.0, 2.0); ( 386010.3, 3767442.9, 79.0, 79.0, 2.0);  
 ( 386009.0, 3767452.7, 79.0, 79.0, 2.0); ( 386007.7, 3767462.5, 79.0, 79.0, 2.0);  
 ( 386006.3, 3767472.2, 79.0, 79.0, 2.0); ( 386005.0, 3767482.0, 79.0, 79.0, 2.0);  
 ( 385899.9, 3767516.3, 79.0, 79.0, 2.0); ( 385909.3, 3767517.4, 79.0, 79.0, 2.0);  
 ( 385918.6, 3767518.7, 79.0, 79.0, 2.0); ( 385927.8, 3767520.1, 79.0, 79.0, 2.0);  
 ( 385937.4, 3767521.2, 79.0, 79.0, 2.0); ( 385889.8, 3767523.5, 79.0, 79.0, 2.0);  
 ( 385899.1, 3767524.8, 79.0, 79.0, 2.0); ( 385908.4, 3767526.0, 79.0, 79.0, 2.0);  
 ( 385917.7, 3767527.3, 79.0, 79.0, 2.0); ( 385926.9, 3767528.5, 79.0, 79.0, 2.0);  
 ( 385936.1, 3767529.8, 79.0, 79.0, 2.0); ( 385938.6, 3767513.1, 79.0, 79.0, 2.0);  
 ( 385929.3, 3767511.8, 79.0, 79.0, 2.0); ( 385920.0, 3767510.6, 79.0, 79.0, 2.0);  
 ( 385910.6, 3767509.3, 79.0, 79.0, 2.0); ( 385901.3, 3767508.1, 79.0, 79.0, 2.0);  
 ( 385892.0, 3767506.8, 79.0, 79.0, 2.0); ( 385890.9, 3767515.2, 79.0, 79.0, 2.0);

\*\*\* AERMOD - VERSION 22112 \*\*\*    \*\*\* 4th and Hewitt Project                                     \*\*\*      09/15/22  
 \*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* Particulate (DPM) / Construction                             \*\*\*      12:45:43  
 \*\*\* MODELOPTS: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT 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 |

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 22112 \*\*\*    \*\*\* 4th and Hewitt Project                                     \*\*\*      09/15/22  
 \*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* Particulate (DPM) / Construction                             \*\*\*      12:45:43  
 \*\*\* MODELOPTS: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ\_U\*

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

Surface file: F:\WD Passport\4th and Hewitt\metdata\CELA\_v9.SFC                          Met Version: 16216  
 Profile file: F:\WD Passport\4th and Hewitt\metdata\CELA\_v9.PFL  
 Surface format: FREE  
 Profile format: FREE  
 Surface station no.: 99999                                Upper air station no.: 3190  
 Name: UNKNOWN    Name: UNKNOWN  
 Year: 2010    Year: 2010

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 |
|----|----|----|-----|----|-------|-------|--------|--------|-------|-------|--------|------|------|-------|--------|-----|------|-------|------|-----|----|----|
| 10 | 01 | 01 | 1   | 01 | -33.0 | 0.331 | -9.000 | -9.000 | -999. | 456.  | 120.2  | 0.56 | 0.86 | 1.00  | 3.10   | 38. | 21.3 | 284.9 | 17.7 |     |    |    |
| 10 | 01 | 01 | 1   | 02 | -26.9 | 0.285 | -9.000 | -9.000 | -999. | 367.  | 89.6   | 0.56 | 0.86 | 1.00  | 2.70   | 38. | 21.3 | 284.2 | 17.7 |     |    |    |
| 10 | 01 | 01 | 1   | 03 | -38.6 | 0.387 | -9.000 | -9.000 | -999. | 577.  | 164.6  | 0.56 | 0.86 | 1.00  | 3.60   | 35. | 21.3 | 284.2 | 17.7 |     |    |    |
| 10 | 01 | 01 | 1   | 04 | -33.0 | 0.331 | -9.000 | -9.000 | -999. | 458.  | 120.2  | 0.56 | 0.86 | 1.00  | 3.10   | 34. | 21.3 | 283.8 | 17.7 |     |    |    |
| 10 | 01 | 01 | 1   | 05 | -33.1 | 0.331 | -9.000 | -9.000 | -999. | 456.  | 120.2  | 0.56 | 0.86 | 1.00  | 3.10   | 37. | 21.3 | 283.1 | 17.7 |     |    |    |
| 10 | 01 | 01 | 1   | 06 | -38.7 | 0.387 | -9.000 | -9.000 | -999. | 577.  | 164.5  | 0.56 | 0.86 | 1.00  | 3.60   | 24. | 21.3 | 283.1 | 17.7 |     |    |    |
| 10 | 01 | 01 | 1   | 07 | -38.6 | 0.387 | -9.000 | -9.000 | -999. | 577.  | 164.5  | 0.56 | 0.86 | 1.00  | 3.60   | 35. | 21.3 | 283.8 | 17.7 |     |    |    |
| 10 | 01 | 01 | 1   | 08 | -29.6 | 0.435 | -9.000 | -9.000 | -999. | 688.  | 251.8  | 0.56 | 0.86 | 0.55  | 4.00   | 35. | 21.3 | 283.8 | 17.7 |     |    |    |
| 10 | 01 | 01 | 1   | 09 | 30.0  | 0.426 | 0.367  | 0.008  | 59.   | 666.  | -232.0 | 0.56 | 0.86 | 0.32  | 3.60   | 38. | 21.3 | 286.4 | 17.7 |     |    |    |
| 10 | 01 | 01 | 1   | 10 | 72.3  | 0.359 | 0.629  | 0.008  | 124.  | 519.  | -57.8  | 0.56 | 0.86 | 0.24  | 2.70   | 34. | 21.3 | 290.4 | 17.7 |     |    |    |

|    |    |    |   |    |       |       |        |        |       |      |        |      |      |      |      |      |      |       |      |
|----|----|----|---|----|-------|-------|--------|--------|-------|------|--------|------|------|------|------|------|------|-------|------|
| 10 | 01 | 01 | 1 | 11 | 104.4 | 0.321 | 0.998  | 0.008  | 344.  | 437. | -28.6  | 0.56 | 0.86 | 0.21 | 2.20 | 43.  | 21.3 | 292.5 | 17.7 |
| 10 | 01 | 01 | 1 | 12 | 115.1 | 0.283 | 1.156  | 0.008  | 484.  | 363. | -17.9  | 0.56 | 0.86 | 0.20 | 1.80 | 62.  | 21.3 | 295.9 | 17.7 |
| 10 | 01 | 01 | 1 | 13 | 91.4  | 0.406 | 1.130  | 0.008  | 568.  | 622. | -66.2  | 0.56 | 0.86 | 0.20 | 3.10 | 263. | 21.3 | 294.2 | 17.7 |
| 10 | 01 | 01 | 1 | 14 | 89.3  | 0.316 | 1.168  | 0.008  | 642.  | 432. | -31.9  | 0.56 | 0.86 | 0.21 | 2.20 | 259. | 21.3 | 294.9 | 17.7 |
| 10 | 01 | 01 | 1 | 15 | 42.6  | 0.295 | 0.928  | 0.008  | 675.  | 384. | -54.0  | 0.56 | 0.86 | 0.25 | 2.20 | 267. | 21.3 | 294.9 | 17.7 |
| 10 | 01 | 01 | 1 | 16 | 12.0  | 0.359 | 0.609  | 0.008  | 680.  | 516. | -347.9 | 0.56 | 0.86 | 0.33 | 3.10 | 264. | 21.3 | 292.5 | 17.7 |
| 10 | 01 | 01 | 1 | 17 | -15.7 | 0.231 | -9.000 | -9.000 | -999. | 276. | 70.7   | 0.56 | 0.86 | 0.60 | 2.20 | 288. | 21.3 | 290.9 | 17.7 |
| 10 | 01 | 01 | 1 | 18 | -6.1  | 0.135 | -9.000 | -9.000 | -999. | 124. | 36.7   | 0.56 | 0.86 | 1.00 | 1.30 | 344. | 21.3 | 289.2 | 17.7 |
| 10 | 01 | 01 | 1 | 19 | -11.4 | 0.184 | -9.000 | -9.000 | -999. | 190. | 49.2   | 0.56 | 0.86 | 1.00 | 1.80 | 2.   | 21.3 | 288.8 | 17.7 |
| 10 | 01 | 01 | 1 | 20 | -17.4 | 0.229 | -9.000 | -9.000 | -999. | 263. | 62.1   | 0.56 | 0.86 | 1.00 | 2.20 | 22.  | 21.3 | 288.1 | 17.7 |
| 10 | 01 | 01 | 1 | 21 | -17.4 | 0.229 | -9.000 | -9.000 | -999. | 263. | 61.9   | 0.56 | 0.86 | 1.00 | 2.20 | 40.  | 21.3 | 287.0 | 17.7 |
| 10 | 01 | 01 | 1 | 22 | -11.5 | 0.184 | -9.000 | -9.000 | -999. | 190. | 49.1   | 0.56 | 0.86 | 1.00 | 1.80 | 306. | 21.3 | 287.0 | 17.7 |
| 10 | 01 | 01 | 1 | 23 | -11.5 | 0.184 | -9.000 | -9.000 | -999. | 190. | 49.0   | 0.56 | 0.86 | 1.00 | 1.80 | 45.  | 21.3 | 286.4 | 17.7 |
| 10 | 01 | 01 | 1 | 24 | -11.5 | 0.184 | -9.000 | -9.000 | -999. | 190. | 49.0   | 0.56 | 0.86 | 1.00 | 1.80 | 67.  | 21.3 | 286.4 | 17.7 |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR  | WSPD   | AMB_TMP | sigmA | sigmaw | sigmav |
|----|----|----|----|--------|---|-------|--------|---------|-------|--------|--------|
| 10 | 01 | 01 | 01 | 17.7   | 0 | -999. | -99.00 | 284.9   | 99.0  | -99.00 | -99.00 |
| 10 | 01 | 01 | 01 | 21.3   | 1 | 38.   | 3.10   | -999.0  | 99.0  | -99.00 | -99.00 |

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

|                                |                                      |      |          |
|--------------------------------|--------------------------------------|------|----------|
| *** AERMOD - VERSION 22112 *** | *** 4th and Hewitt Project           | ***  | 09/15/22 |
| *** AERMET - VERSION 16216 *** | *** Particulate (DPM) / Construction | ***  | 12:45:43 |
| *** MODELOPTS:                 |                                      | PAGE | 24       |

\*\*\* MODELOPTS: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ\_U\*

| *** THE ANNUAL AVERAGE CONCENTRATION |        | VALUES AVERAGED OVER                       | 5 YEARS FOR SOURCE GROUP: ALL | *** |
|--------------------------------------|--------|--|-------------------------------|-----|
| INCLUDING SOURCE(S):                 |        | C_1 , C_2 , C_3 , C_4 , C_5 ,              |                               | ,   |
| C_6 ,                                | C_7 ,  | C_8 , C_9 , C_10 , C_11 , C_12 , C_13 ,    |                               | ,   |
| C_14 ,                               | C_15 , | C_16 , C_17 , C_18 , C_19 , C_20 , C_21 ,  |                               | ,   |
| C_22 ,                               | C_23 , | C_24 , C_25 , C_26 , C_27 , C_28 , . . . , |                               | ,   |

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

| ** CONC OF OTHER | IN MICROGRAMS/M**3 | ** |
|------------------|--------------------|----|
|------------------|--------------------|----|

| X-COORD (M) | Y-COORD (M) | CONC    | X-COORD (M) | Y-COORD (M) | CONC    |
|-------------|-------------|---------|-------------|-------------|---------|
| 385780.10   | 3767681.80  | 0.01848 | 385790.20   | 3767682.50  | 0.02129 |
| 385800.50   | 3767683.40  | 0.02476 | 385810.80   | 3767684.30  | 0.02903 |
| 385780.40   | 3767674.10  | 0.01934 | 385790.00   | 3767674.80  | 0.02224 |
| 385800.10   | 3767676.20  | 0.02585 | 385810.20   | 3767677.00  | 0.03044 |
| 385769.70   | 3767688.70  | 0.01546 | 385779.70   | 3767689.30  | 0.01759 |
| 385790.20   | 3767690.20  | 0.02024 | 385800.90   | 3767691.10  | 0.02352 |
| 385811.20   | 3767692.10  | 0.02735 | 385821.20   | 3767692.80  | 0.03194 |
| 385820.40   | 3767685.50  | 0.03382 | 385819.70   | 3767677.60  | 0.03587 |
| 385818.90   | 3767671.10  | 0.03730 | 385809.90   | 3767670.50  | 0.03174 |
| 385799.80   | 3767669.40  | 0.02684 | 385790.00   | 3767668.40  | 0.02302 |
| 385780.40   | 3767667.50  | 0.01997 | 385771.70   | 3767666.30  | 0.01769 |
| 385771.10   | 3767673.60  | 0.01700 | 385770.50   | 3767681.50  | 0.01623 |
| 385884.90   | 3767807.80  | 0.01661 | 385879.40   | 3767800.60  | 0.01732 |
| 385874.00   | 3767793.70  | 0.01800 | 385892.00   | 3767802.70  | 0.01842 |
| 385886.60   | 3767795.60  | 0.01931 | 385881.10   | 3767788.80  | 0.02012 |
| 385899.70   | 3767797.60  | 0.02054 | 385894.30   | 3767790.50  | 0.02166 |
| 385888.60   | 3767783.20  | 0.02282 | 385883.00   | 3767820.00  | 0.01440 |
| 385890.20   | 3767814.90  | 0.01589 | 385897.40   | 3767809.70  | 0.01758 |
| 385904.60   | 3767804.60  | 0.01944 | 385911.80   | 3767799.40  | 0.02153 |
| 385906.50   | 3767792.40  | 0.02283 | 385901.20   | 3767785.30  | 0.02423 |
| 385895.90   | 3767778.30  | 0.02566 | 385890.60   | 3767771.20  | 0.02718 |
| 385883.70   | 3767776.40  | 0.02398 | 385876.30   | 3767781.60  | 0.02115 |
| 385869.20   | 3767786.80  | 0.01875 | 385862.00   | 3767792.00  | 0.01667 |
| 385867.30   | 3767799.00  | 0.01612 | 385872.50   | 3767806.00  | 0.01554 |
| 385877.80   | 3767813.00  | 0.01497 | 386001.40   | 3767582.70  | 0.09290 |
| 385989.70   | 3767588.00  | 0.13927 | 385998.00   | 3767587.00  | 0.11081 |
| 386006.30   | 3767586.00  | 0.09023 | 386014.00   | 3767585.00  | 0.07568 |
| 386013.00   | 3767580.00  | 0.06973 | 386005.80   | 3767579.20  | 0.07855 |
| 385998.50   | 3767578.40  | 0.08912 | 385991.50   | 3767577.70  | 0.10118 |
| 385990.70   | 3767582.90  | 0.11827 | 386015.20   | 3767473.50  | 0.01402 |
| 386016.70   | 3767463.20  | 0.01223 | 386018.20   | 3767453.80  | 0.01085 |
| 386019.50   | 3767443.90  | 0.00964 | 386020.60   | 3767434.10  | 0.00862 |
| 386021.90   | 3767424.70  | 0.00777 | 386023.00   | 3767414.40  | 0.00697 |
| 386024.50   | 3767405.00  | 0.00633 | 386024.50   | 3767475.00  | 0.01344 |

|           |            |         |           |            |         |
|-----------|------------|---------|-----------|------------|---------|
| 386026.00 | 3767464.50 | 0.01175 | 386027.40 | 3767454.90 | 0.01044 |
| 386028.70 | 3767445.00 | 0.00930 | 386030.00 | 3767435.60 | 0.00837 |
| 386031.30 | 3767425.90 | 0.00754 | 386032.60 | 3767415.50 | 0.00677 |
| 386033.70 | 3767406.10 | 0.00617 | 386034.30 | 3767476.20 | 0.01275 |
| 386035.60 | 3767465.50 | 0.01118 | 386036.70 | 3767456.10 | 0.01002 |
| 386038.20 | 3767446.30 | 0.00895 | 386039.60 | 3767436.60 | 0.00805 |

\*\*\* AERMOD - VERSION 22112 \*\*\*    \*\*\* 4th and Hewitt Project                                  \*\*\*         09/15/22  
 \*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* Particulate (DPM) / Construction                                  \*\*\*         12:45:43  
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\*\*\* MODELOPTS: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ\_U\*

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
 INCLUDING SOURCE(S): C\_1 , C\_2 , C\_3 , C\_4 , C\_5 , ,  
 C\_6 , C\_7 , C\_8 , C\_9 , C\_10 , C\_11 , C\_12 , C\_13 , ,  
 C\_14 , C\_15 , C\_16 , C\_17 , C\_18 , C\_19 , C\_20 , C\_21 , ,  
 C\_22 , C\_23 , C\_24 , C\_25 , C\_26 , C\_27 , C\_28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER    IN MICROGRAMS/M\*\*3    \*\*

| X-COORD (M) | Y-COORD (M) | CONC    | X-COORD (M) | Y-COORD (M) | CONC    |
|-------------|-------------|---------|-------------|-------------|---------|
| 386040.90   | 3767426.80  | 0.00726 | 386042.20   | 3767416.70  | 0.00656 |
| 386043.50   | 3767407.50  | 0.00600 | 386005.00   | 3767482.00  | 0.01674 |
| 386014.10   | 3767483.30  | 0.01604 | 386023.50   | 3767484.60  | 0.01526 |
| 386033.20   | 3767486.10  | 0.01446 | 386042.00   | 3767487.00  | 0.01366 |
| 386043.40   | 3767477.20  | 0.01208 | 386044.70   | 3767467.40  | 0.01075 |
| 386046.10   | 3767457.60  | 0.00961 | 386047.40   | 3767447.80  | 0.00863 |
| 386048.80   | 3767438.10  | 0.00778 | 386050.10   | 3767428.30  | 0.00704 |
| 386051.50   | 3767418.50  | 0.00638 | 386052.80   | 3767408.70  | 0.00581 |
| 386054.20   | 3767398.90  | 0.00531 | 386044.90   | 3767397.70  | 0.00546 |
| 386035.60   | 3767396.50  | 0.00561 | 386026.30   | 3767395.30  | 0.00575 |
| 386017.00   | 3767394.10  | 0.00587 | 386015.70   | 3767403.90  | 0.00647 |
| 386014.30   | 3767413.60  | 0.00716 | 386013.00   | 3767423.40  | 0.00796 |
| 386011.70   | 3767433.20  | 0.00888 | 386010.30   | 3767442.90  | 0.00996 |
| 386009.00   | 3767452.70  | 0.01124 | 386007.70   | 3767462.50  | 0.01275 |
| 386006.30   | 3767472.20  | 0.01455 | 386005.00   | 3767482.00  | 0.01674 |
| 385899.90   | 3767516.30  | 0.03667 | 385909.30   | 3767517.40  | 0.03930 |
| 385918.60   | 3767518.70  | 0.04188 | 385927.80   | 3767520.10  | 0.04421 |
| 385937.40   | 3767521.20  | 0.04573 | 385889.80   | 3767523.50  | 0.03937 |
| 385899.10   | 3767524.80  | 0.04312 | 385908.40   | 3767526.00  | 0.04680 |
| 385917.70   | 3767527.30  | 0.05041 | 385926.90   | 3767528.50  | 0.05350 |
| 385936.10   | 3767529.80  | 0.05605 | 385938.60   | 3767513.10  | 0.03831 |
| 385929.30   | 3767511.80  | 0.03713 | 385920.00   | 3767510.60  | 0.03561 |
| 385910.60   | 3767509.30  | 0.03371 | 385901.30   | 3767508.10  | 0.03170 |
| 385892.00   | 3767506.80  | 0.02955 | 385890.90   | 3767515.20  | 0.03403 |

\*\*\* AERMOD - VERSION 22112 \*\*\*    \*\*\* 4th and Hewitt Project                                  \*\*\*         09/15/22  
 \*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* Particulate (DPM) / Construction                                  \*\*\*         12:45:43  
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\*\*\* MODELOPTS: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ\_U\*

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

\*\* CONC OF OTHER    IN MICROGRAMS/M\*\*3    \*\*

| GROUP ID | AVERAGE CONC   | RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) | OF TYPE | NETWORK GRID-ID |
|----------|--|--|---------|-----------------|
| ALL      | 1ST HIGHEST VALUE IS 0.13927 AT ( 385989.70, 3767588.00, 79.00, 79.00, 6.10) DC  |  |         |                 |
|          | 2ND HIGHEST VALUE IS 0.11827 AT ( 385990.70, 3767582.90, 79.00, 79.00, 6.10) DC  |  |         |                 |
|          | 3RD HIGHEST VALUE IS 0.11081 AT ( 385998.00, 3767587.00, 79.00, 79.00, 6.10) DC  |  |         |                 |
|          | 4TH HIGHEST VALUE IS 0.10118 AT ( 385991.50, 3767577.70, 79.00, 79.00, 6.10) DC  |  |         |                 |
|          | 5TH HIGHEST VALUE IS 0.09290 AT ( 386001.40, 3767582.70, 79.00, 79.00, 6.10) DC  |  |         |                 |
|          | 6TH HIGHEST VALUE IS 0.09023 AT ( 386006.30, 3767586.00, 79.00, 79.00, 6.10) DC  |  |         |                 |
|          | 7TH HIGHEST VALUE IS 0.08912 AT ( 385998.50, 3767578.40, 79.00, 79.00, 6.10) DC  |  |         |                 |
|          | 8TH HIGHEST VALUE IS 0.07855 AT ( 386005.80, 3767579.20, 79.00, 79.00, 6.10) DC  |  |         |                 |
|          | 9TH HIGHEST VALUE IS 0.07568 AT ( 386014.00, 3767585.00, 79.00, 79.00, 6.10) DC  |  |         |                 |
|          | 10TH HIGHEST VALUE IS 0.06973 AT ( 386013.00, 3767580.00, 79.00, 79.00, 6.10) DC |  |         |                 |

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

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* 4th and Hewitt Project  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Particulate (DPM) / Construction

\*\*\* 09/15/22  
\*\*\* 12:45:43  
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\*\*\* MODELOPTS: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ\_U\*

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

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

A Total of 0 Fatal Error Message(s)  
A Total of 4 Warning Message(s)  
A Total of 808 Informational Message(s)

A Total of 43824 Hours Were Processed

A Total of 4 Calm Hours Identified

A Total of 804 Missing Hours Identified ( 1.83 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

|         |       |   |            |
|---------|-------|---|------------|
| ME W186 | 372   | MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used  | 0.50       |
| ME W187 | 372   | MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET |            |
| MX W450 | 17521 | CHKDAT: Record Out of Sequence in Meteorological File at: | 14010101   |
| MX W450 | 17521 | CHKDAT: Record Out of Sequence in Meteorological File at: | 2 year gap |

\*\*\*\*\*

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

\*\*\*\*\*

**ATTACHMENT E**

**List of References**

1. California Air Pollution Control Officers Association (CAPCOA), 1987. *Toxic Air Pollutant Source Assessment Manual for California Air Pollution Control Districts and Applicants for Air Pollution Control District Permits*, prepared by Interagency Workshop Group, (Revised) December 1989.
2. California Air Resources Board, 1997. *Methods for Assessing Area Source Emissions in California: Volume III* (Revised).
3. California Air Resources Board, 1998. Initial Statement of Reasons for Rule Making: Proposed Identification of Diesel Exhaust as a Toxic Air Contaminant.
4. California Air Resources Board, 2005. *Air Quality and Land Use Handbook: A Community Health Perspective*.
5. California Air Resources Board, 2020. *Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values*.
6. California Code of Regulations, Title 22, Section 12703 et seq.
7. California Code of Regulations, Section 93001.
8. California Environmental Protection Agency, Office of Environmental Health Hazard Assessment, 2015. The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments.
9. California Health and Safety Code, Section 44360.
10. City of Los Angeles, Department of City Planning, 2022. Draft Environmental Impact Report - 4th and Hewitt Project, Case Number: ENV-2017-470-EIR.
11. Gensler, 2022. Entitlement Set - 401 South Hewitt, Los Angeles, CA 90013
12. Los Angeles County Property Tax Portal. Website: [www.propertytax.lacounty.gov](http://www.propertytax.lacounty.gov).
13. South Coast Air Quality Management District, Meteorological Data Set for Central Los Angeles.
14. South Coast Air Quality Management District, 2005. *Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning*.
15. South Coast Air Quality Management District, 2006. *Final – Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds*.
16. South Coast Air Quality Management District, 2008. *Final Localized Significance Threshold Methodology*.
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