Post Meeting Material PC 04.14.21 Item 2

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September 29, 2020 Project No: 19-07875

Brianna Bohonock
Circlepoint
2100 West Orangewood Avenue, Suite 215
Orange, California 92868
Via email: b.bohonok@circlepoint.com

Subject: CoreSite SV9 Data Center Supplemental Air Quality Memorandum

Dear Ms. Bohonock:

Rincon prepared the Air Quality and Greenhouse Gas Study for the CoreSite SV9 Data Center in January 2020 to support the project's California Environmental Quality Act (CEQA) Initial Study-Mitigated Negative Declaration. During the project's public review period the City of Santa Clara received two comments related to air quality. One comment, from the Bay Area Air Quality Management District (BAAQMD), requested revisions to the project's cumulative health risk screening analysis. A second comment, from a member of the public, identified a sensitive receptor near the project site not accounted for in the Air Quality and Greenhouse Gas Study. This memorandum provides a revised health risk assessment analysis for the proposed project.

# Background

The project site is in central Santa Clara, south of US Highway 101 (U.S. 101) and west of the San Tomas Expressway. Land use designations surrounding the project site consist of Light Industrial and Planned Industrial to the west, south, and east; Low Intensity Office/Research and Development to the north, and High Intensity Office/Research and Development farther to the west. Nearby uses include data centers, research and development buildings, biotech companies and other digital technology-oriented uses.

The nearest sensitive receptors identified in the Air Quality and Greenhouse Gas Study were residences located approximately 1,400 feet northwest of the project site. However, a comment letter received during the public review period stated that a sensitive receptor within 1,000 feet of the project site was not identified in the study. The Grace Adult Day Health Care Center, located at 3010 Olcott Street, is approximately 375 feet northeast of the project site boundary. Air quality sensitive receptors are identified as that segment of the public most susceptible to respiratory distress, such as children under 14; the elderly over 65; people engaged in strenuous work or exercise; and people with cardiovascular and chronic respiratory diseases. Therefore, the Grace Adult Day Health Care Center is considered a sensitive receptor.

On a conference call with BAAQMD on August 25, 2020 the air district noted that the cumulative health risk screening analysis should include emissions data from nearby data centers within 1,000 feet of the project site, specifically the CoreSite SV7 Data Center located northwest of the project site. The initial



cumulative health risk assessment analysis was conducted using BAAQMD's Stationary Source Risk & Hazard Analysis Tool (2012) which has since been replaced with Permitted Stationary Source Risk and Hazards mapping tool (2017) that includes data from the CoreSite SV7 Data Center. Therefore, the screening health risk analysis has been revised as described below to include the Grace Adult Day Health Care Center as a new sensitive receptor and the nearby CoreSite Data Centers as stationary sources.

# Significance Thresholds

BAAQMD has established screening criteria applicable to projects that would introduce new stationary sources of toxic air contaminant (TAC) emissions or add vehicle trips to major roadways, which are sources of TAC and particulate matter up to 2.5 microns (PM<sub>2.5</sub>) emissions. Community risk and hazards screening tools from BAAQMD can be applied to provide conservative estimates of TAC exposure. If these screening tools indicate that TAC levels from the project may be excessive, BAAQMD recommends that further, more refined analysis, including site-specific dispersion modeling, be conducted for more accurate (and usually lower) risk and hazard estimates. The screening tools provide estimates for PM<sub>2.5</sub> concentrations, cancer risk, chronic hazard risk, and acute hazard risk from stationary, roadway, and highway sources. The risk and hazard screening analysis process includes the identification of emissions sources (permitted sources, highways, and major roadways [more than 10,000 average daily vehicle trips]) within 1,000 feet of the project's fence line using BAAQMD screening tools. If impacts due to emissions of TACs or PM<sub>2.5</sub> from any individual source would exceed any of the thresholds shown below, the project would result in a significant impact. Thresholds include:

- Non-compliance with a qualified risk reduction plan;
- An excess cancer risk level of more than 10 in one million, or a non-cancer (i.e., chronic or acute)
   hazard index greater than 1.0 would be a cumulatively considerable contribution; or
- An incremental increase of greater than 0.3 micrograms per cubic meter ( $\mu g/m^3$ ) annual average PM<sub>2.5</sub> would be a cumulatively considerable contribution.

# Methodology

### Risk and Hazard Screening

BAAQMD provides community risk and hazards screening tools for agencies to use in deciding whether there should be further environmental review of a project. According to BAAQMD, the screening tools provide conservative estimates and a more refined analysis, including site-specific dispersion modeling, should be conducted for more accurate (and usually lower) risk and hazard estimates<sup>1</sup> The screening tools provide estimates for PM<sub>2.5</sub> concentrations, cancer risk, chronic hazard risk, and acute hazard risk from stationary, roadway, and highway sources. The risk and hazard screening analysis process includes the following steps:

1. Identify emissions sources (permitted sources, highways, major roadways, and railways) within 1,000 feet of the project's fence line using BAAQMD screening tools. If there are no sources within 1,000 feet of the project, then there is no significant impact for risk and hazards and no

<sup>&</sup>lt;sup>1</sup> BAAQMD. 2012. Recommended Methods for Screening and Modeling Local Risks and Hazards. http://www.baaqmd.gov/~/media/files/planning-and-research/cega/risk-modeling-approach-may-2012.pdf



further analysis is needed. If emissions sources exist within 1,000 feet of the project, proceed to Step 2 to conduct initial conservative screening.

- 2. If emissions sources are present within 1,000 feet of the project site, conduct initial conservative screening using BAAQMD screening tools, comparing each source's estimated cancer risk, PM<sub>2.5</sub>, and hazard values to applicable thresholds. Sum all of the sources' impacts for comparison to applicable cumulative thresholds. If the risk and hazard estimates for an individual source and/or the cumulative impacts are below BAAQMD's thresholds of significance, then there is no significant impact for risk and hazards and no further analysis is needed. If thresholds are exceeded, then proceed to Step 3 to conduct advanced screening for more refined estimates.
- 3. If emissions sources present within 1,000 feet of the project site have risk and hazards above BAAQMD thresholds using the method described in Step 2, conduct advanced screening for more refined estimates. To refine estimates, scale highway and roadway risk and PM<sub>2.5</sub> values to reflect actual traffic and distances from the project using BAAQMD methods from the Modeling Report.¹ If the refined risk and hazard estimates are below applicable thresholds, then there is no significant impact for risk and hazards and no further analysis is needed. If thresholds are exceeded, then proceed to Step 4 to conduct refined modeling analysis.
- 4. If emissions sources present within 1,000 feet of the project site have refined risk and hazards estimates above BAAQMD thresholds as determined in Step 3, conduct refined modeling analysis. For highways and major roadways, use local traffic and meteorology data to model risk and hazards using BAAQMD methods from the Modeling Report.¹ If the risk and hazard estimates with refined modeling are below thresholds, then there is no significant impact for risk and hazards and no further analysis is needed. If thresholds are exceeded, then risk reduction strategies should be implemented.

According to BAAQMD, the adult/elderly care center is considered a sensitive air quality receptor. The California Air Resources Board has identified diesel particulate matter (DPM) as the primary airborne carcinogen in the state. The primary source of DPM from the project operation is exhaust from the 16 emergency diesel generators. In addition, BAAQMD recommends analyzing nearby permitted stationary sources, major roadways, highways, and railroads. In order to reassess potential exposure to TACs for sensitive receptors to a new source, the BAAQMD risk and hazard screening analysis using BAAQMD's screening tools was used to assess whether the project may subject nearby sensitive receptors to substantial sources of TACs. Sources within 1,000 ft of the project site were evaluated for cumulative effects per BAAQMD's CEQA Air Quality Guidelines. There are no railways or freeways withing 1,000 feet of the project site. Therefore, only the major road sources were included in the cumulative analysis.

## Health Risks from Generator Operation

Per guidance in BAAQMD's Recommended Methods for Screening and Modeling Local Risks and Hazards (2012), for new sources there is no project radius recommended. Rather the location of the maximum risk, hazard, and PM<sub>2.5</sub> concentration from the new source affecting a receptor should be identified. The nearest sensitive receptors to the project site are the attendants of the Grace Adult Day Health Care Center located approximately 375 feet to the northeast of the project site boundary. Although the generators would be located in the south east corner of the project site adjacent to the Central Expressway approximately 675 feet southwest of the Grace Adult Day Health Care Center, this analysis is conservatively based on the distance between the receptor and the projects boundary. As



recommended by the BAAQMD *CEQA Air Quality Guidelines*<sup>2</sup>, the estimated risk associated with sources permitted by BAAQMD, such as the proposed diesel generators, should be evaluated first using a screening-level analysis. BAAQMD's *Risk and Hazards Emissions Screening Calculator* (Beta Version) was used to calculated cancer risk, chronic hazard index, and PM<sub>2.5</sub> concentrations using the emissions data for the operation of all 16 diesel generators for 50 hours per year, the maximum allowed operational time under BAAQMD stationary source permits.

Diesel generator emission estimates were based on manufacturer specifications, exhaust emission data for U.S. Environmental Protection Agency (EPA) Tier 2 emissions standards, and BAAQMD's maximum allowed operational duration of the generators (i.e., 50 hours/year). To evaluate ground level concentration of DPM and PM<sub>2.5</sub>, it was conservatively assumed that DPM emissions would be equivalent to the generator PM emissions and PM<sub>2.5</sub> emissions made up 97.6 percent of total generator PM emissions.³ Based on the manufacturer exhaust emissions rate certification and implementation of best available control technology, daily average DPM emissions and PM<sub>2.5</sub> emissions would be approximately be 0.18 pounds per day, as included in the Air Quality and Greenhouse Gas Emissions Study (Attachment A). Consequently, at the project site the associated cancer risk would be 253.2 in one million, the chronic hazard index would be 0.068, and PM<sub>2.5</sub> emissions would be 0.34 μg/m³. BAAQMD's Diesel Internal Combustion Engine Distance Multiplier Tool further refines the screening values for risk and PM<sub>2.5</sub> based on the distance to the nearest receptor. The estimated cancer risk, hazard index and PM<sub>2.5</sub> concentration at approximately 375 feet from the project site boundary was compared to the BAAQMD single source thresholds.

Table 1 summarizes the results associated with operation of the generators equipped with a diesel particulate filter for 50 hours at the nearest sensitive receptor considered the maximum exposed individual (MEI) in this revised analysis.

Table 1 Health Risks from Generator Operation (50 Hours Per Year at 375 Feet)

| Scenario                      | Excess Cancer Risk (per million) | Chronic<br>Health Risk <sup>1,2</sup> | PM <sub>2.5</sub> μg/m³ annual<br>average |
|-------------------------------|----------------------------------|---------------------------------------|---|
| Maximum Exposed Individual    | 43.05                            | 0.012                                 | 0.058                                     |
| BAAQMD Significance Threshold | >10                              | >1                                    | >0.3                                      |
| Threshold Exceeded?           | Yes                              | No                                    | No  |

 $PM_{2.5}$  = particulate matter less than 2.5 microns in size;  $\mu g/m^3$  = micrograms per cubic meter;

<sup>&</sup>lt;sup>1</sup> Noncancer health impacts are determined by dividing the airborne concentration at the receptor by the appropriate Reference Exposure Level (REL) for that substance. A REL is defined as the concentration at which no adverse noncancer health effects are anticipated. Because noncancer health impacts are assessed as the ratio of airborne concentration versus the REL, the resulting hazard index is unitless.

<sup>&</sup>lt;sup>2</sup> There is no acute reference exposure level for diesel exhaust to calculate acute health risk. Furthermore, except for unusual circumstances of high exposure, Office of Environmental Health Hazard Assessment does not recommend acute analysis for DPM.

<sup>&</sup>lt;sup>2</sup> Bay Area Air Quality Management District. 2017. California Environmental Quality Act Air Quality Guidelines. May 2017. https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa\_guidelines\_may2017-pdf.pdf?la=en

<sup>&</sup>lt;sup>3</sup> South Coast Air Quality Management District. 2006. Final -Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds. October 2006. http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/particulate-matter-(pm)-2.5-significance-thresholds-and-calculation-methodology/final\_pm2\_5methodology.pdf?sfvrsn=2



As shown in Table 1, operation of the diesel generators equipped with a DPF for 50 hours per year would result in an exceedance of BAAQMD single source significance thresholds for excess cancer risk at the nearest sensitive receptor, Grace Adult Day Health Care Center, but not chronic risk or ground level PM<sub>2.5</sub> concentrations. Mitigation Measure AQ-2, as revised from the prior version of the Air Quality and Greenhouse Gas Study and Draft Initial Study-Mitigated Negative Declaration, would be required to reduce health risks to nearby sensitive receptors associated with DPM exposure from generator operation. Reduced health risks with implementation of Mitigation Measure AQ-2 are shown in Table 4.

# Cumulative Health Risks from Generator Operation

BAAQMD's Recommended Methods for Screening and Modeling Local Risks and Hazards<sup>4</sup> recommends assessing cumulative impacts of a new source or sources in combination with existing sources located within 1,000 feet of the project site. Cumulative impacts to the maximally impacted receptor should include the new source as well as any additional sources located within a 1,000-foot radius of the project site. BAAQMD's Stationary Source Inquiry Form and request process was used to obtain the most updated health risk and PM<sub>2.5</sub> values associated with facilities permitted stationary sources within 1,000 feet of the project site, including nearby data centers as requested by BAAQMD. BAAQMD's Permitted Stationary Source Risk and Hazards mapping tool showed 17 other stationary sources within 1,000 feet of the project site.<sup>5</sup> The source types for all identified stationary sources were generators except for NVIDIA (Facility ID 13074) which included boilers in addition to permitted generators. Because the project site is also located adjacent to the Central Expressway, BAAQMD provided cancer risk and PM<sub>2.5</sub> concentrations associated with nearby highways, major roadways >30,000 AADT (annual average daily traffic), and railroads at the project site. BAAQMD utilized AERMOD and EMFAC2014 data for fleet mix following the California Office of Environmental Health Hazard Assessment's 2015 Air Toxics Hot Spots Guidance methods to model health risk and PM<sub>2.5</sub> concentrations in 20- by 20-meter grid cells across the Bay Area.

The revised cumulative analysis at the MEI included stationary sources as shown in Table 2. Because the Distance Adjustment Multiplier Tool for Diesel Internal Combustion (IC) in the Risk and Hazards Emissions Screening Calculator (Beta Version) does not extend beyond 919 feet, the maximum distance adjustment multiplier provided in the tool was used for each stationary source that was greater than 919 feet from the MEI to provide a conservative analysis.

<sup>&</sup>lt;sup>4</sup> Bay Area Air Quality Management District. 2011. Recommended Methods for Screening and Modeling Local Risks and Hazards. Version 2.0. May 2011. <a href="http://www.baaqmd.gov/~/media/Files/Planning%20and%20Research/CEQA/BAAQMD%20Modeling%20Approach.ashx">http://www.baaqmd.gov/~/media/Files/Planning%20and%20Research/CEQA/BAAQMD%20Modeling%20Approach.ashx</a>

<sup>&</sup>lt;sup>5</sup> BAAQMD confirmed via email on September 9, 2020, that the health risk data for these sources is the mostly recently available.



Table 2 Stationary Sources within 1,000 feet of the Project Site

| ce to MEI     |
|---------------|
| eet southeast |
| et southwest  |
| eet southwest |
| eet southwest |
| eet southwest |
|               |

The revised cumulative analysis includes risk and PM<sub>2.5</sub> concentration associated with roadway traffic on the Central Expressway between Bowers Avenue and San Tomas Expressway, approximately 730 feet south of the MEI. Health risk and PM<sub>2.5</sub> concentrations from the Central Expressway at the MEI were obtained from BAAQMD. Cumulative impacts at the MEI from project operation and other sources within 1,000 feet of the project site are reported in Table 3.

Table 3 Cumulative Health Risks at the MEI

| Source   | Excess Cancer Risk (per million) | Chronic Health Risk <sup>1</sup> | PM <sub>2.5</sub> μg/m³<br>annual average |
|--|----------------------------------|----------------------------------|---|
| Unmitigated Project<br>Operation               | 43.04                            | 0.012                            | 0.058                                     |
| NVIDIA (Facility ID<br>13074) <sup>2</sup>     | 1.86                             | 0.0032                           | 0.013                                     |
| ON Semiconductor Inc.<br>(Facility ID 19856)   | 0.016                            | 0                                | 0   |
| A100 US LLC (Facility ID 22375) <sup>2</sup>   | 2.06                             | 0.002                            | 0.0028                                    |
| Coresite (Facility ID 19539-1) <sup>2</sup>    | 0.41                             | 0.0012                           | 0.0004                                    |
| Coresite (Facility ID 19539-2) <sup>2</sup>    | 0.41                             | 0.0012                           | 0.0004                                    |
| Coresite (Facility ID 19539-3) <sup>2</sup>    | 0.41                             | 0.0012                           | 0.0004                                    |
| Coresite (Facility ID<br>19539-4) <sup>2</sup> | 0.41                             | 0.0012                           | 0.0004                                    |
| Coresite (Facility ID 19539-5) <sup>2</sup>    | 0.31                             | 0.0012                           | 0.0004                                    |
| Coresite (Facility ID 19539-6) <sup>2</sup>    | 0.24                             | 0.0008                           | 0.0004                                    |
| Coresite (Facility ID<br>19539-7) <sup>2</sup> | 0.24                             | 0.0008                           | 0.0004                                    |
| Coresite (Facility ID 19539-8) <sup>2</sup>    | 0.24                             | 0.0008                           | 0.0004                                    |



| Coresite (Facility ID<br>19539-9) <sup>2</sup>                            | 0.24  | 0.0008 | 0.0004 |
|---|-------|--------|--------|
| Coresite (Facility ID<br>19539-Remainder) <sup>2</sup>                    | 0.90  | 0.0024 | 0.0012 |
| Vantage Data Centers<br>Management (Facility ID<br>20295-24) <sup>2</sup> | 0.04  | 0      | 0      |
| Vantage Data Centers<br>Management (Facility ID<br>20295-25) <sup>2</sup> | 0.02  | 0      | 0      |
| Vantage Data Centers<br>Management (Facility ID<br>20295-26) <sup>2</sup> | 0.05  | 0      | 0      |
| Vantage Data Centers<br>Management (Facility ID<br>20295-27) <sup>2</sup> | 0.05  | 0      | 0      |
| Central Expressway <sup>3</sup>   | 18.75 |        | 0.404  |
| <b>Cumulative Total</b>   | 69.69 | 0.03   | 0.4826 |
| BAAQMD Significance<br>Threshold  | >100  | >10    | >0.8   |
| Threshold Exceeded?   | No    | No     | No     |

<sup>&</sup>lt;sup>1</sup> Noncancer health impacts are determined by dividing the airborne concentration at the receptor by the appropriate Reference Exposure Level (REL) for that substance. A REL is defined as the concentration at which no adverse noncancer health effects are anticipated. Because noncancer health impacts are assessed as the ratio of airborne concentration versus the REL, the resulting hazard index is unitless. See Attachment B for calculations and HRA data.

As shown in Table 3, cumulative sources of TACs would not result in an exceedance of annual  $PM_{2.5}$  concentrations, chronic or cancer health risks above cumulative significance thresholds at the MEI with operation of the diesel generators equipped with a diesel particulate filter for 50 hours per year.

### **Mitigation Measures**

Operation of the 16 diesel generators would present a potential excess cancer risk due to DPM exposure if operated at the maximum allowed operational time under BAAQMD stationary source permits. Therefore, the Mitigation Measure AQ-2 modified from the prior version of the Air Quality and Greenhouse Gas Study and the Draft Initial Study-Mitigated Negative Declaration focuses on reduction of DPM emissions through limiting operation of the diesel generators. The following revised mitigation measure would be required to reduce impacts to a less than significant level. Revisions are shown in strikeout and underline.

#### Mitigation Measure AQ-2

In order to reduce  $NO_X$  emissions and health risk below the BAAQMD threshold, the applicant shall limit non-emergency operation (including testing and maintenance) of each back up diesel generator to no more than 1118 hours per year.

<sup>&</sup>lt;sup>2</sup>Calculated using the BAAQMD's *Risk and Hazards Emissions Screening Calculator* (Beta Version) at the maximum distance available in the distance multiplier tools. For backup diesel generators the maximum distance is 918.6 feet and for generic cases is 984.3 feet.

<sup>&</sup>lt;sup>3</sup>Based on health risk raster data for Major Streets provided by BAAQMD No highways or railways within 1,000 feet of the project site.



### **Significance After Mitigation**

Mitigation Measure AQ-2 would require operational hours for each generator not exceed 11 hours per year. Operational emissions after implementation of Mitigation Measure AQ-2 were calculated based on manufacturer specifications, exhaust emission data for U.S. EPA Tier 2 emissions standards, and assuming each generator would be equipped with a DPF. Daily average DPM emissions and PM<sub>2.5</sub> emissions from operation of all project generators after implementation of Mitigation Measure AQ-2 would be approximately be 0.04 pounds per day. Consequently, at the project site the associated cancer risk would be 56.6 in one million, the chronic hazard index would be 0.015, and PM<sub>2.5</sub> emissions would be 0.074  $\mu$ g/m³. The BAAQMD's *Diesel Internal Combustion Engine Distance Multiplier Tool* was used to further refine the screening values for risk and PM<sub>2.5</sub> based on the distance to the nearest receptor (i.e., approximately 375 feet). As shown in Table 4, limitation of non-emergency operation of the generators to 11 hours per year under Mitigation Measure AQ-2 would reduce health risk to below the BAAQMD individual threshold and would therefore ensure that the project would not expose sensitive receptors to substantial pollutant concentrations.

Table 4 Health Risks from Generator Operation (11 Hours Per Year at 375 Feet)

| Scenario                      | Excess Cancer Risk<br>(per million) | Chronic<br>Health Risk <sup>1,2</sup> | PM <sub>2.5</sub> μg/m³ annual<br>average |
|-------------------------------|-------------------------------------|---------------------------------------|---|
| Maximum Exposed Individual    | 9.63                                | 0.0026                                | 0.013                                     |
| BAAQMD Significance Threshold | >10                                 | >1                                    | >0.3                                      |
| Threshold Exceeded?           | No                                  | No                                    | No  |

 $PM_{2.5}$  = particulate matter less than 2.5 microns in size;  $\mu g/m^3$  = micrograms per cubic meter;

# Conclusions

Operation of the backup diesel generators for 50 hours per year (the permitting maximum) would exceed BAAQMD significance thresholds for health risk for an individual source at the nearest sensitive receptor (Grace Adult Day Health Care Center). Mitigation Measure AQ-2, as revised from the Air Quality and Greenhouse Gas Study, would limit non-emergency operation of the generators to 11 hours annually, thereby reducing the associated health risk below BAAQMDs individual health risk threshold. It should be noted that this level of operation is in line with applicant's standard testing and maintenance schedule where during generator testing, the engines would be tested with no engine load for 5 to 10 minutes per month. In addition to monthly engine testing and operation for maintenance purposes, each engine would undergo quarterly testing at site load or 100 percent load. Each engine would also be tested at full load (100 percent load) for 4 hours every 36 to 60 months.

Project operation would not result in an exceedance of BAAQMD's cumulative health risk threshold at the MEI due to combined health risk from the project operation and other permitted and non-permitted

<sup>&</sup>lt;sup>1</sup> Noncancer health impacts are determined by dividing the airborne concentration at the receptor by the appropriate Reference Exposure Level (REL) for that substance. A REL is defined as the concentration at which no adverse noncancer health effects are anticipated. Because noncancer health impacts are assessed as the ratio of airborne concentration versus the REL, the resulting hazard index is unitless.

<sup>&</sup>lt;sup>2</sup> There is no acute reference exposure level for diesel exhaust to calculate acute health risk. Furthermore, except for unusual circumstances of high exposure, Office of Environmental Health Hazard Assessment does not recommend acute analysis for DPM.



sources within 1,000 feet of the project site when operating under the permitting maximum of 50 hours annually. Therefore, implementation of Mitigation Measure AQ-2 would not result in an exceedance of BAAQMD's cumulative health risk threshold.

Sincerely,

Rincon Consultants, Inc.

Kari Zajac, MESM Project Manager

#### **Attachments**

Attachment A: Backup Diesel Generator Emissions Attachment B: BAAQMD Health Risk Calculators

# Attachment A

**Backup Diesel Generator Emissions** 

| Stational   | ry Source Crit                            | eria Pollutant       | ts             |       |                   |  |  |  |
|---|---|----------------------|----------------|-------|-------------------|--|--|--|
| Emergency Generator (Cummins C3500 D6e) - Full Standby                                |   |                      |                |       |                   |  |  |  |
|   | Gross engine output bhp @ 100% load 5,051 |                      |                |       |                   |  |  |  |
|   | Annual use per generator (Hours) 50       |                      |                |       |                   |  |  |  |
|   | Number of Units 16                        |                      |                |       |                   |  |  |  |
|   |   | Tota                 | l Annual Hours | 800   |                   |  |  |  |
|   | нс  | NO <sub>x</sub>      | со             | PM    | PM <sub>2.5</sub> |  |  |  |
| Emissions (full standby) (g-hp/hr)  | 0.05                                      | 6.10                 | 0.40           | 0.05  | 0.05              |  |  |  |
| Emissions (full standby) (g/sec)  | 0.07                                      | 8.56                 | 0.56           | 0.07  | 0.07              |  |  |  |
| Uncontrolled Emissions (full standby) (lbs/hr)  | 0.56                                      | 67.93                | 4.45           | 0.56  | 0.54              |  |  |  |
| DPF Controlled Emissions (full standby) (lbs/hr)                                      | 0.56                                      | 67.93                | 4.45           | 0.08  | 0.08              |  |  |  |
|   |   |                      |                |       |                   |  |  |  |
| Uncontrolled Emissions Total lbs/year   | 27.84                                     | 3396.36              | 222.71         | 27.84 | 27.17             |  |  |  |
| DPF Controlled Emissions Total lbs/year   | 27.84                                     | 3396.36              | 222.71         | 4.18  | 4.08              |  |  |  |
|   | Individual Gene                           | rator                |                |       |                   |  |  |  |
| DPF Controlled Emissions Total tons/year  |   | 1.70                 | 0.11           | 0.00  | 0.00              |  |  |  |
| Daily Avg (lbs/day)   |   | 9.31                 | 0.61           | 0.01  | 0.01              |  |  |  |
| , (,, ,   |   | 0.00                 |                | ****  |                   |  |  |  |
|   | All Generators                            |                      |                |       |                   |  |  |  |
| DPF Controlled Emissions Total tons/year  | 0.22                                      | 27.17                | 1.78           | 0.03  | 0.03              |  |  |  |
| Daily Avg (lbs/day)   | 1.22                                      | 148.88               | 9.76           | 0.18  | 0.18              |  |  |  |
| Notes:  1. Exhaust emissions were obtained from the Cummins C3500                     | D6e emission dat                          | a sheet (EPA Tier 2) |                |       |                   |  |  |  |
| <ol> <li>PM<sub>2.5</sub> estimated as 97.6% of PM from diesel combustion.</li> </ol> |   |                      |                |       |                   |  |  |  |
| Conversions   |   |                      |                |       |                   |  |  |  |
| 1lb=453.59g   |   |                      |                |       |                   |  |  |  |
| 2000lbs = 1 ton   |   |                      |                |       |                   |  |  |  |

|          |             |                  |                      | 50 Hrs Oper | ation of all         | 16 Hrs of Opera | tion of One          |                   |                      |
|----------|-------------|------------------|----------------------|-------------|----------------------|-----------------|----------------------|-------------------|----------------------|
|          |             | 50 Hrs Operation | of one Engine        | Engi        | nes                  | Engin           | e                    | 16 Hrs of Operati | on of All Engines    |
|          | Fuel        | Fuel             |                      | Fuel        |                      | Fuel            |                      | Fuel              |                      |
|          | Consumption | Consumption      |                      | Consumption |                      | Consumption     |                      | Consumption       |                      |
| peration | (gals/hr)   | (gallons)        | MT CO <sub>2</sub> e | (gallons)   | MT CO <sub>2</sub> e | (gallons)       | MT CO <sub>2</sub> e | (gallons)         | MT CO <sub>2</sub> e |
| 00% load | 241         | 12,050.00        | 533.82               | 192,800.00  | 8,541.04             | 3,856.00        | 170.82               | 61,696.00         | 2,733.13             |
| 5% load  | 184         | 9,200.00         | 407.56               | 147,200.00  | 6,520.96             | 2,944.00        | 130.42               | 47,104.00         | 2,086.71             |
| 0% load  | 134         | 6,700.00         | 296.81               | 107,200.00  | 4,748.96             | 2,144.00        | 94.98                | 34,304.00         | 1,519.67             |
| 5% load  | 78          | 3,900.00         | 172.77               | 62,400.00   | 2,764.32             | 1,248.00        | 55.29                | 19,968.00         | 884.58               |

#2 Distillate Diesel Enission factors
kg CO2 per gallon
kg CH2 per gallon
0,41
kg N2O per gallon
0,08

Source:Federal Register EPA; 40 CFR Part 98; e-CFR, June 13, 2017 (see link below). Table C-1, Table C-2, Table AA-1.

Note: 1 kg = 0.001 Metric Tons (MT)

CO <sub>2</sub> Equivalencies

CO<sub>2</sub> CH<sub>4</sub> 25  $N_2O$  298 Source: Intergovernmental Panel on Climate Change (IPCC), Fourth Assessment 298

| Stationary  | y Source Crit                       | eria Pollutant       | ts             |             |                   |  |  |  |
|---|-------------------------------------|----------------------|----------------|-------------|-------------------|--|--|--|
|   | Emergency Gen                       | erator (Cummins      | C3500 D6e) - F | ull Standby |                   |  |  |  |
| Gross engine output bhp @ 100% load 5,051                             |                                     |                      |                |             |                   |  |  |  |
|   | Annual use per generator (Hours) 11 |                      |                |             |                   |  |  |  |
|   | Number of Units 16                  |                      |                |             |                   |  |  |  |
|   |                                     | Tota                 | l Annual Hours | 176         |                   |  |  |  |
| 1   | нс                                  | NO <sub>x</sub>      | со             | PM          | PM <sub>2.5</sub> |  |  |  |
| Emissions (full standby) (g-hp/hr)                                    | 0.05                                | 6.10                 | 0.40           | 0.05        | 0.05              |  |  |  |
| Emissions (full standby) (g/sec)                                      | 0.07                                | 8.56                 |                | 0.07        | 0.07              |  |  |  |
| Uncontrolled Emissions (full standby) (lbs/hr)                        | 0.56                                | 67.93                |                | 0.56        | 0.54              |  |  |  |
| DPF Controlled Emissions (full standby) (lbs/hr)                      | 0.56                                | 67.93                | 4.45           | 0.08        | 0.08              |  |  |  |
| Uncontrolled Emissions Total lbs/year                                 | 6.12                                | 747.20               | 49.00          | 6.12        | 5.98              |  |  |  |
| DPF Controlled Emissions Total lbs/year                               | 6.12                                | 747.20               | 49.00          | 0.92        | 0.90              |  |  |  |
|   | Individual Gener                    |                      |                |             |                   |  |  |  |
| DPF Controlled Emissions Total tons/year                              | 0.00                                | 0.37                 | 0.02           | 0.00        | 0.00              |  |  |  |
| Daily Avg (lbs/day)   | 0.02                                | 2.05                 | 0.13           | 0.00        | 0.00              |  |  |  |
| ·   |                                     |                      |                |             |                   |  |  |  |
| -   | All Generators                      |                      |                |             |                   |  |  |  |
| DPF Controlled Emissions Total tons/year                              | 0.05                                | 5.98                 |                | 0.01        | 0.01              |  |  |  |
| Daily Avg (Ibs/day)   | 0.27                                | 32.75                | 2.15           | 0.04        | 0.04              |  |  |  |
| Notes:  |                                     |                      |                |             |                   |  |  |  |
| Exhaust emissions were obtained from the Cummins C3500 li             | D6e emission data                   | a sheet (EPA Tier 2) |                |             |                   |  |  |  |
| 2. PM <sub>2.5</sub> estimated as 97.6% of PM from diesel combustion. |                                     |                      |                |             |                   |  |  |  |
| Conversions   |                                     |                      |                |             |                   |  |  |  |
| 1lb=453.59g   |                                     |                      |                |             |                   |  |  |  |
| 2000lbs = 1 ton   |                                     |                      |                |             |                   |  |  |  |

| GHG Emissions for #2 Distillate Diesel Fuel Consumption  |               |                  |                      |             |                      |                 |                      |             |                      |
|--|---------------|------------------|----------------------|-------------|----------------------|-----------------|----------------------|-------------|----------------------|
|  |               |                  |                      | 50 Hrs Oper | ration of all        | 16 Hrs of Opera | ition of One         |             |                      |
|  |               | 50 Hrs Operation | of one Engine        |             |                      | Engin           | e                    |             | ion of All Engines   |
|  | Fuel          | Fuel             |                      | Fuel        |                      | Fuel            |                      | Fuel        |                      |
|  | Consumption   | Consumption      |                      | Consumption |                      | Consumption     |                      | Consumption |                      |
| Operation  | (gals/hr)     | (gallons)        | MT CO <sub>2</sub> e | (gallons)   | MT CO <sub>2</sub> e | (gallons)       | MT CO <sub>2</sub> e | (gallons)   | MT CO <sub>2</sub> e |
| 100% load  | 241           | 12,050.00        | 533.82               | 192,800.00  | 8,541.04             | 3,856.00        | 170.82               | 61,696.00   | 2,733.13             |
| 75% load   | 184           | 9,200.00         | 407.56               | 147,200.00  | 6,520.96             | 2,944.00        | 130.42               | 47,104.00   | 2,086.71             |
| 50% load   | 134           | 6,700.00         | 296.81               | 107,200.00  | 4,748.96             | 2,144.00        | 94.98                | 34,304.00   | 1,519.67             |
| 25% load   | 78            | 3,900.00         | 172.77               | 62,400.00   | 2,764.32             | 1,248.00        | 55.29                | 19,968.00   | 884.58               |
| Source: Cat C175-16 Diesel Generator Sets manufacturer s | pecifications |                  |                      |             |                      |                 |                      |             |                      |

#2 Distillate Diesel Emission factors

kg CO2 per gallon

kg CH4 per gallon

0.41

kg N2O per gallon

0.08

Source:Federal Register EPA; 40 CFR Part 98; e-CFR, June 13, 2017 (see link below). Table C-1, Table C-2, Table AA-1.

Note: 1 kg = 0.001 Metric Tons (MT)

CO <sub>2</sub> Equivalencies

CO<sub>2</sub> CH₄ 25 N<sub>2</sub>O 298

Source: Intergovernmental Panel on Climate Change (IPCC), Fourth Assessment

# Appendix B

**BAAQMD Health Risk Calculations** 



Plant Name

Step 1:
Enter Facility Data
CoreSite Santa Clara Data

Center SV9

Specify Source Type

Does facility have only diesel

backup generators?
Is this analysis for a
gas station?

Cancer Risk Total

Chronic Hazard Total PM2.5

Concentration

Step 3:

yes no

Step 2:

Estimate Distance

What is the distance (m) from the facility boundary to the

ME!?

Step 5:
Read Estimates
Total

253.204

0.068

per 1,000,000

0.340 μg/m<sup>1</sup>

Step 2:

|  |                    | Enter Emissions Data |                 |         |   |
|--|--------------------|----------------------|-----------------|---------|---|
| Chemical Name  | CAS No.            | Emission             | Cancer          | Chronic | Concentratio                            |
|  | (dashes removed)   | (lb/day)             | (# / 1,000,000) | (index) | (µg/m3)                                 |
| Fine Particulate Matter (PM2.5)                        |                    | 1.80E-01             |                 |         | 0.34                                    |
| ACETALDEHYDE   | 75070              | 0.00E+00             |                 |         |   |
| ACETAMIDE  | 60355              | 0.00E+00             |                 |         |   |
| ACROLEIN   | 107028             | 0.00E+00             |                 |         |   |
| ACRYLAMIDE   | 79061              | 0.00E+00             |                 |         |   |
| ACRYLIC ACID   | 79107              | 0.00E+00             |                 |         |   |
| ACRYLONITRILE  | 107131             | 0.00E+00             |                 |         |   |
| ALLYL CHLORIDE   | 107051             | 0.00E+00             |                 |         |   |
| 2-AMINOANTHRAQUINONE<br>AMMONIA                        | 117793<br>7664417  | 0.00E+00             |                 |         |   |
| AMMONIA<br>ANILINE                                     | 62533              | 0.00E+00<br>0.00E+00 |                 |         |   |
| ARSENIC AND COMPOUNDS (INORGANIC) <sup>1,2</sup>       | 7440382            | 0.00E+00             |                 |         |   |
| ARSINE   | 7784421            | 0.00E+00             |                 |         |   |
| ASBESTOS <sup>3</sup>                                  | 1332214            | 0.00E+00             |                 |         |   |
| BENZENE <sup>1</sup>                                   | 71432              | 0.00E+00             |                 |         |   |
| BENZIDINE (AND ITS SALTS) values also apply to:        | 92875              | 0.00E+00             |                 |         |   |
| Benzidine based dyes                                   | 92875              | 0.00E+00             |                 |         |   |
| Direct Black 38  | 1937377            | 0.00E+00             |                 |         |   |
| Direct Blue 6  | 2602462            | 0.00E+00             |                 |         |   |
| Direct Brown 95 (technical grade) BENZYL CHLORIDE      | 16071866<br>100447 | 0.00E+00<br>0.00E+00 |                 |         |   |
| BERYLLIUM AND COMPOUNDS <sup>2</sup>                   | 7440417            | 0.00E+00             |                 |         |   |
| BIS(2-CHLOROETHYL)ETHER (Dichloroethyl ether)          | 111444             | 0.00E+00             |                 |         | -7///////////////////////////////////// |
|  | 542881             |                      |                 |         |   |
| BIS(CHLOROMETHYL)ETHER                                 |                    | 0.00E+00             |                 |         |   |
| BROMINE AND COMPOUNDS see Potassium Bromate            | 7758012            | 0.00E+00             |                 |         |   |
| 1,3-BUTADIENE  | 106990             | 0.00E+00             |                 |         |   |
| CADMIUM AND COMPOUNDS <sup>2</sup>                     | 7440439            | 0.00E+00             |                 |         |   |
| CAPROLACTAM  | 105602             | 0.00E+00             |                 |         |   |
| CARBON DISULFIDE <sup>1</sup>                          | 75150              | 0.00E+00             |                 |         |   |
| CARBON MONOXIDE  | 630080             | 0.00E+00             |                 |         |   |
| CARBON TETRACHLORIDE <sup>1</sup> (Tetrachloromethane) | 56235              | 0.00E+00             |                 |         |   |
| CHLORINATED PARAFFINS                                  | 108171262          | 0.00E+00             |                 |         |   |
| CHLORINE   | 7782505            | 0.00E+00             |                 |         |   |
| CHLORINE DIOXIDE                                       | 10049044           | 0.00E+00             |                 |         |   |
| 4-CHLORO-O-PHENYLENEDIAMINE                            | 95830              | 0.00E+00             |                 |         |   |
| CHLOROBENZENE  | 108907             | 0.00E+00             |                 |         |   |
| CHLOROFORM <sup>1</sup>                                | 67663              | 0.00E+00             |                 |         |   |
| Chlorophenols  | 87865              | 0.00E+00             |                 |         |   |
| PENTACHLOROPHENOL                                      | 87865              | 0.00E+00             |                 |         |   |
| 2,4,6-TRICHLOROPHENOL                                  | 88062              | 0.00E+00             |                 |         |   |
| CHLOROPICRIN   | 76062              | 0.00E+00             |                 |         | -7///////////////////////////////////// |
|  |                    |                      |                 |         |   |
| p-CHLORO-o-TOLUIDINE                                   | 95692              | 0.00E+00             |                 |         |   |
| CHROMIUM 6+2   | 18540299           | 0.00E+00             |                 |         |   |
| Barium chromate <sup>2</sup>                           | 10294403           | 0.00E+00             |                 |         |   |
| Calcium chromate <sup>2</sup>                          | 13765190           | 0.00E+00             |                 |         |   |
| Lead chromate <sup>2</sup>                             | 7758976            | 0.00E+00             |                 |         |   |
| Sodium dichromate <sup>2</sup>                         | 10588019           | 0.00E+00             |                 |         |   |
| Strontium chromate <sup>2</sup>                        | 7789062            | 0.00E+00             |                 |         |   |
| CHROMIC TRIOXIDE (as chromic acid mist)                | 1333820            | 0.00E+00             |                 |         |   |
| COPPER AND COMPOUNDS                                   | 7440508            | 0.00E+00             |                 |         |   |
| p-CRESIDINE  | 120718             | 0.00E+00             |                 |         |   |
| CRESOLS  | 1319773            | 0.00E+00             |                 |         |   |
| M-CRESOL   | 108394             | 0.00E+00             |                 |         |   |
| O-CRESOL   | 95487              | 0.00E+00             |                 |         |   |
| P-CRESOL   | 106445             | 0.00E+00             |                 |         |   |

| CUPFERRON  | 135206   | 0.00E+00 |  |
|--|----------|----------|--|
| Cyanide And Compounds (inorganic)                        | 57125    | 0.00E+00 |  |
| HYDROGEN CYANIDE (Hydrocyanic acid)                      | 74908    | 0.00E+00 |  |
| 2,4-DIAMINOANISOLE                                       | 615054   | 0.00E+00 |  |
| 2,4-DIAMINOTOLUENE                                       | 95807    | 0.00E+00 |  |
| 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)                       | 96128    | 0.00E+00 |  |
| 1,4-DICHLOROBENZENE (p-Dichlorobenzene)                  | 106467   | 0.00E+00 |  |
|  | 91941    |          |  |
| 3,3-DICHLOROBENZIDINE                                    |          | 0.00E+00 |  |
| 1,1,-DICHLOROETHANE (Ethylidene dichloride)              | 75343    | 0.00E+00 |  |
| DI(2-ETHYLHEXYL)PHTHALATE (DEHP)                         | 117817   | 0.00E+00 |  |
| DIETHANOLAMINE   | 111422   | 0.00E+00 |  |
| p-DIMETHYLAMINOAZOBENZENE                                | 60117    | 0.00E+00 |  |
| N,N-DIMETHYL FORMAMIDE                                   | 68122    | 0.00E+00 |  |
| 2,4-DINITROTOLUENE                                       | 121142   | 0.00E+00 |  |
| 1,4-DIOXANE (1,4-Diethylene dioxide)                     | 123911   | 0.00E+00 |  |
|  |          |          |  |
| EPICHLOROHYDRIN (1-Chloro-2,3-epoxypropane)              | 106898   | 0.00E+00 |  |
| 1,2-EPOXYBUTANE  | 106887   | 0.00E+00 |  |
| ETHYL BENZENE  | 100414   | 0.00E+00 |  |
| ETHYL CHLORIDE (Chloroethane)                            | 75003    | 0.00E+00 |  |
| ETHYLENE DIBROMIDE (1,2-Dibromoethane)                   | 106934   | 0.00E+00 |  |
| ETHYLENE DICHLORIDE (1,2-Dichloroethane)                 | 107062   | 0.00E+00 |  |
| ETHYLENE GLYCOL  | 107211   | 0.00E+00 |  |
| ETHYLENE OXIDE (1,2-Epoxyethane)                         | 75218    | 0.00E+00 |  |
|  |          |          |  |
| ETHYLENE THIOUREA  | 96457    | 0.00E+00 |  |
| Fluorides  | 1101     | 0.00E+00 |  |
| HYDROGEN FLUORIDE (Hydrofluoric acid)                    | 7664393  | 0.00E+00 |  |
| FORMALDEHYDE   | 50000    | 0.00E+00 |  |
| GLUTARALDEHYDE   | 111308   | 0.00E+00 |  |
| GLYCOL ETHERS  | 107211   | 0.00E+00 |  |
| ETHYLENE GLYCOL BUTYL ETHER – EGBE                       | 111762   | 0.00E+00 |  |
|  | 110805   | 0.00E+00 |  |
| ETHYLENE GLYCOL ETHYL ETHER – EGEE 1                     | 111159   |          |  |
| ETHYLENE GLYCOL ETHYL ETHER ACETATE - EGEEA              |          | 0.00E+00 |  |
| ETHYLENE GLYCOL METHYL ETHER – EGME <sup>1</sup>         | 109864   | 0.00E+00 |  |
| ETHYLENE GLYCOL METHYL ETHER ACETATE – EGMEA             | 110496   | 0.00E+00 |  |
| HEXACHLOROBENZENE  | 118741   | 0.00E+00 |  |
| HEXACHLOROCYCLOHEXANES (mixed or technical grade)        | 608731   | 0.00E+00 |  |
| alpha-HEXACHLOROCYCLOHEXANE                              | 319846   | 0.00F+00 |  |
| beta- HEXACHI OROCYCI OHEXANE                            | 319857   | 0.00F+00 |  |
|  | 58899    | 0.00E+00 |  |
| gamma-HEXACHLOROCYCLOHEXANE (Lindane)                    |          | 0.000    |  |
| n-HEXANE   | 110543   | 0.00E+00 |  |
| HYDRAZINE  | 302012   | 0.00E+00 |  |
| HYDROCHLORIC ACID (Hydrogen chloride)                    | 7647010  | 0.00E+00 |  |
| HYDROGEN SULFIDE   | 7783064  | 0.00E+00 |  |
| ISOPHORONE   | 78591    | 0.00E+00 |  |
| ISOPROPYL ALCOHOL (Isopropanol)                          | 67630    | 0.00E+00 |  |
| LEAD AND COMPOUNDS 2.4 (inorganic) values also apply to: | 7439921  | 0.00E+00 |  |
|  | 301042   | 0.00E+00 |  |
| Lead acetate <sup>2</sup>                                |          |          |  |
| Lead phosphate <sup>2</sup>                              | 7446277  | 0.00E+00 |  |
| Lead subacetate <sup>2</sup>                             | 1335326  | 0.00E+00 |  |
| LINDANE [see gamma-Hexachlorocyclohexanes]               | 58899    | 0.00E+00 |  |
| MALEIC ANHYDRIDE   | 108316   | 0.00E+00 |  |
| MANGANESE AND COMPOUNDS                                  | 7439965  | 0.00E+00 |  |
| MERCURY AND COMPOUNDS (INORGANIC)                        | 7439976  | 0.00E+00 |  |
| Mercuric chloride  | 7487947  | 0.00E+00 |  |
| METHANOL   | 67561    | 0.00E+00 |  |
| METHYL BROMIDE (Bromomethane)                            | 74839    | 0.00E+00 |  |
|  | 1634044  |          |  |
| METHYL tertiary-BUTYL ETHER                              |          | 0.00E+00 |  |
| METHYL CHLOROFORM (1,1,1-Trichloroethane)                | 71556    | 0.00E+00 |  |
| METHYL ETHYL KETONE (2-Butanone)                         | 78933    | 0.00E+00 |  |
| METHYL ISOCYANATE  | 624839   | 0.00E+00 |  |
| 4,4'-METHYLENE BIS (2-CHLOROANILINE) (MOCA)              | 101144   | 0.00E+00 |  |
| METHYLENE CHLORIDE (Dichloromethane)                     | 75092    | 0.00E+00 |  |
| 4,4'-METHYLENE DIANILINE (AND ITS DICHLORIDE)            | 101779   | 0.00E+00 |  |
| METHYLENE DIPHENYL ISOCYANATE                            | 101688   | 0.00E+00 |  |
|  | 90948    | 0.00E+00 |  |
| MICHLER'S KETONE (4,4'-Bis(dimethylamino)benzophenone)   |          |          |  |
| N-NITROSODI-n-BUTYLAMINE                                 | 924163   | 0.00E+00 |  |
| N-NITROSODI-n-PROPYLAMINE                                | 621647   | 0.00E+00 |  |
| N-NITROSODIETHYLAMINE                                    | 55185    | 0.00E+00 |  |
| N-NITROSODIMETHYLAMINE                                   | 62759    | 0.00E+00 |  |
| N-NITROSODIPHENYLAMINE                                   | 86306    | 0.00E+00 |  |
| N-NITROSO-N-METHYLETHYLAMINE                             | 10595956 | 0.00E+00 |  |
| N-NITROSOMORPHOLINE                                      | 59892    | 0.00E+00 |  |
|  | 100754   | 0.00E+00 |  |
| N-NITROSOPIPERIDINE                                      |          |          |  |
| N-NITROSOPYRROLIDINE                                     | 930552   | 0.00E+00 |  |
|  |          |          |  |

| NAPTHALENE [see Polycylcic aromatic hydrocarbons]                                | 91203              | 0.00E+00             |          |          |  |
|--|--------------------|----------------------|----------|----------|--|
| NICKEL AND COMPOUNDS <sup>2</sup> (values also apply to:)                        | 7440020            | 0.00E+00             |          |          |  |
| Nickel acetate <sup>2</sup>  | 373024             | 0.00E+00             |          |          |  |
| Nickel carbonate <sup>2</sup>  | 3333673            | 0.00E+00             |          |          |  |
| Nickel carbonyl <sup>2</sup>   | 13463393           | 0.00E+00             |          |          |  |
| Nickel hydroxide <sup>2</sup>  | 12054487           | 0.00E+00             |          |          |  |
| Nickelocene <sup>2</sup>   | 1271289            | 0.00E+00             |          |          |  |
| NICKEL OXIDE <sup>2</sup>  | 1313991            | 0.00E+00             |          |          |  |
| Nickel refinery dust from the pyrometallurgical process <sup>2</sup>             | 1146               | 0.00E+00             |          |          |  |
| Nickel subsulfide <sup>2</sup>   | 12035722           | 0.00E+00             |          |          |  |
| NITRIC ACID  | 7697372            | 0.00E+00             |          |          |  |
| NITROGEN DIOXIDE   | 10102440           | 0.00E+00             |          |          |  |
| p-NITROSODIPHENYLAMINE<br>OZONE  | 156105<br>10028156 | 0.00E+00<br>0.00E+00 |          |          |  |
| PARTICULATE EMISSIONS FROM DIESEL-FUELED ENGINES                                 | 85105              | 1.80E-01             | 2.53E+02 | 6.80E-02 |  |
| PERCHLOROETHYLENE (Tetrachloroethylene)  | 127184             | 0.00E+00             | 2.33E+U2 | 0.6UE+UZ |  |
| PHENOL   | 108952             | 0.00E+00             |          |          |  |
| PHOSGENE   | 75445              | 0.00E+00             |          |          |  |
| PHOSPHINE  | 7803512            | 0.00E+00             |          |          |  |
| PHOSPHORIC ACID  | 7664382            | 0.00E+00             |          |          |  |
| THOSI HOME FIELD   |                    | 0.002100             |          |          |  |
| PHTHALIC ANHYDRIDE   | 85449              | 0.00E+00             |          |          |  |
| PCB (POLYCHLORINATED BIPHENYLS)  | 1336363            | 0.00E+00             |          |          |  |
| POLYCHLORINATED DIBENZO-P-DIOXINS (PCDD) (Treated as 2,3,7,8-TCDD for HRA) 2,7   | 1746016            | 0.00E+00             |          |          |  |
| POLYCHLORINATED DIBENZOFURANS (PCDF)<br>(Treated as 2,3,7,8-TCDD for HRA) 2,7    | 1746016            | 0.00E+00             |          |          |  |
| POLYCYCLIC AROMATIC HYDROCARBON <sup>2</sup> (PAH) (AS B(a)P-EQUIV) <sup>5</sup> | 50328              | 0.00E+00             |          |          |  |
| NAPHTHALENE  | 91203              | 0.00E+00             |          |          |  |
| POTASSIUM BROMATE  | 7758012            | 0.00E+00             |          |          |  |
| 1,3-PROPANE SULTONE  | 1120714            | 0.00E+00             |          |          |  |
| PROPYLENE (PROPENE) PROPYLENE GLYCOL MONOMETHYL ETHER                            | 115071<br>107982   | 0.00E+00<br>0.00E+00 |          |          |  |
| PROPYLENE OXIDE  | 75569              | 0.00E+00             |          |          |  |
| SELENIUM AND COMPOUNDS   | 7782492            | 0.00E+00             |          |          |  |
| HYDROGEN SELENIDE  | 7783075            | 0.00E+00             |          |          |  |
| Selenium sulfide   | 7446346            | 0.00E+00             |          |          |  |
| SILICA (Crystalline, Respirable)   | 7631869            | 0.00E+00             |          |          |  |
| SODIUM HYDROXIDE   | 1310732            | 0.00E+00             |          |          |  |
| STYRENE  | 100425             | 0.00E+00             |          |          |  |
| SULFATES   | 9960               | 0.00E+00             |          |          |  |
| SULFUR DIOXIDE   | 7446095            | 0.00E+00             |          |          |  |
| SULFURIC ACID  | 7664939            | 0.00E+00             |          |          |  |
| SULFUR TRIOXIDE  | 7446719            | 0.00E+00             |          |          |  |
| OLEUM  | 8014957            | 0.00E+00             |          |          |  |
| 1,1,2,2-TETRACHLOROETHANE  | 79345              | 0.00E+00             |          |          |  |
| THIOACETAMIDE  | 62555              | 0.00E+00             |          |          |  |
| TOLUENE  | 108883             | 0.00E+00             |          |          |  |
| Toluene diisocyantates   | 26471625<br>584849 | 0.00E+00             |          |          |  |
| TOLUENE-2,4-DIISOCYANATE TOLUENE-2,6-DIISOCYANATE                                | 91087              | 0.00E+00<br>0.00E+00 |          |          |  |
| 1,1,2-TRICHLOROETHANE (Vinyl trichloride)  | 79005              | 0.00E+00             |          |          |  |
| TRICHLOROETHANE (VIII) Trichloride)  | 79016              | 0.00E+00             |          |          |  |
| TRIETHYLAMINE  | 121448             | 0.00E+00             |          |          |  |
| URETHANE (Ethyl carbamate)   | 51796              | 0.00E+00             |          |          |  |
| Vanadium Compounds   | 7440622            | 0.00E+00             |          |          |  |
| Vanadium (fume or dust)  | 7440622            | 0.00E+00             |          |          |  |
| VANADIUM PENTOXIDE   | 1314621            | 0.00E+00             |          |          |  |
| VINYL ACETATE  | 108054             | 0.00E+00             |          |          |  |
| VINYL CHLORIDE (Chloroethylene)  | 75014              | 0.00E+00             |          |          |  |
| VINYLIDENE CHLORIDE (1,1-Dichloroethylene)                                       | 75354              | 0.00E+00             |          |          |  |
| XYLENES (mixed isomers)  | 1330207            | 0.00E+00             |          |          |  |
| m-XYLENE   | 108383             | 0.00E+00             |          |          |  |
| o-XYLENE   | 95476              | 0.00E+00             |          |          |  |
| p-XYLENE   | 106423             | 0.00E+00             |          |          |  |
|  |                    |                      |          |          |  |

CoreSite Unmitigated operation (50 hrs)

| Diesel Backup Generator |                    |                                      |                      |                         |                 |                    |                              |                                 |  |  |
|-------------------------|--------------------|--------------------------------------|----------------------|-------------------------|-----------------|--------------------|------------------------------|---------------------------------|--|--|
| Distance<br>(meters)    | Distance<br>(feet) | Distance<br>adjustment<br>multiplier | Enter Cancer<br>Risk | Adjusted<br>Cancer Risk | Enter<br>Hazard | Adjusted<br>Hazard | Enter PM2.5<br>Concentration | Adjusted PM2.5<br>Concentration |  |  |
| 0                       | 0.0                | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |
| 5                       | 16.4               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |
| 10                      | 32.8               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |
| 15                      | 49.2               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |
| 20                      | 65.6               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |
| 25                      | 82.0               | 0.85                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |
| 30                      | 98.4               | 0.73                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |
| 35                      | 114.8              | 0.64                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |
| 40                      | 131.2              | 0.58                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |
| 50                      | 164.0              | 0.5                                  |                      | 0                       |                 | 0                  |                              | O                               |  |  |
| 60                      | 196.9              | 0.41                                 |                      | 0                       |                 | 0                  |                              | С                               |  |  |
| 70                      | 229.7              | 0.31                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |
| 80                      | 262.5              | 0.28                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |
| 90                      | 295.3              | 0.25                                 |                      | 0                       |                 | 0                  |                              | С                               |  |  |
| 100                     | 328.1              | 0.22                                 |                      | 0                       |                 | 0                  |                              | С                               |  |  |
| 110                     | 360.9              | 0.18                                 |                      | 0                       |                 | 0                  |                              | С                               |  |  |
| 115                     | 377.3              | 0.17                                 | 253.204              | 43.045                  | 0.068           | 0.012              | 0.340                        | 0.058                           |  |  |
| 120                     | 393.7              | 0.16                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |
| 130                     | 426.5              | 0.15                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |
| 140                     | 459.3              | 0.14                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |
| 150                     | 492.1              | 0.12                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |
| 160                     | 524.9              | 0.1                                  |                      | 0                       |                 | 0                  |                              | C                               |  |  |
| 180                     | 590.6              | 0.09                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |
| 200                     | 656.2              | 0.08                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |
| 220                     | 721.8              | 0.07                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |
| 240                     | 787.4              | 0.06                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |
| 260                     | 853.0              | 0.05                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |
| 280                     | 918.6              | 0.04                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |

| FID  | OBJECTID FACID  | Name       | Address     | City    | St       | Zip |       | County      | Cancer | Hazard | PM_      | 25 Type        | Latitude  | Longitude > | •            | У           |
|------|-----------------|------------|-------------|---------|----------|-----|-------|-------------|--------|--------|----------|----------------|-----------|-------------|--------------|-------------|
| 1436 | 1,436 13074     | NVIDIA     | 2701 San    | Γ Santa | Clara CA |     | 95050 | Santa Clara | 46.4   | 0.08   | 3        | 0.32 Contact B | A 37.373  | -121.966    | -13577221.77 | 4491286.508 |
| 4375 | 4,375 19856     | ON Semico  | o 2975 Sten | d Santa | Clara CA |     | 95054 | Santa Clara | 0.3    | 2 (    | )        | 0 Generato     | rs 37.375 | -121.97     | -13577659.59 | 4491565.097 |
| 5651 | 5,651 22375     | A100 US L  | L 2950 Sten | d Santa | Clara CA |     | 95054 | Santa Clara | 51.4   | 0.05   | 5        | 0.07 Generato  | rs 37.373 | -121.97     | -13577642.21 | 4491238.095 |
| 9511 | 9,511 19539-1   | CoreSite   | 2901 Coro   | r Santa | Clara CA |     | 95054 | Santa Clara | 10.2   | 0.03   | 3        | 0.01 Generato  | rs 37.375 | -121.972    | -13577816.98 | 4491565.084 |
| 9512 | 9,512 19539-2   | CoreSite   | 2901 Coro   | r Santa | Clara CA |     | 95054 | Santa Clara | 10.2   | 0.03   | 3        | 0.01 Generato  | rs 37.375 | -121.972    | -13577816.98 | 4491565.084 |
| 9513 | 9,513 19539-3   | CoreSite   | 2901 Coro   | r Santa | Clara CA |     | 95054 | Santa Clara | 10.2   | 0.03   | 3        | 0.01 Generato  | rs 37.375 | -121.972    | -13577816.98 | 4491565.084 |
| 9514 | 9,514 19539-4   | CoreSite   | 2901 Coro   | r Santa | Clara CA |     | 95054 | Santa Clara | 10.2   | 0.03   | 3        | 0.01 Generato  | rs 37.375 | -121.972    | -13577816.98 | 4491565.084 |
| 9515 | 9,515 19539-5   | CoreSite   | 2901 Coro   | r Santa | Clara CA |     | 95054 | Santa Clara | 7.6    | 0.03   | 3        | 0.01 Generato  | rs 37.375 | -121.972    | -13577816.98 | 4491565.084 |
| 9516 | 9,516 19539-6   | CoreSite   | 2901 Coro   | r Santa | Clara CA |     | 95054 | Santa Clara | 5.9    | 0.02   | <u>)</u> | 0.01 Generato  | rs 37.375 | -121.972    | -13577812.02 | 4491566.187 |
| 9517 | 9,517 19539-7   | CoreSite   | 2901 Coro   | r Santa | Clara CA |     | 95054 | Santa Clara | 5.9    | 0.02   | 2        | 0.01 Generato  | rs 37.375 | -121.972    | -13577812.02 | 4491566.187 |
| 9518 | 9,518 19539-8   | CoreSite   | 2901 Coro   | r Santa | Clara CA |     | 95054 | Santa Clara | 5.9    | 0.02   | 2        | 0.01 Generato  | rs 37.375 | -121.972    | -13577822.42 | 4491567.386 |
| 9519 | 9,519 19539-9   | CoreSite   | 2901 Coro   | r Santa | Clara CA |     | 95054 | Santa Clara | 5.9    | 0.02   | <u>)</u> | 0.01 Generato  | rs 37.375 | -121.972    | -13577822.42 | 4491567.386 |
| 9520 | 9,520 19539-REM | v CoreSite | 2901 Coro   | r Santa | Clara CA |     | 95054 | Santa Clara | 22.4   | 7 0.06 | 6        | 0.03 Contact B | A 37.375  | -121.972    | -13577838.52 | 4491522.453 |
| 9562 | 9,562 20295-24  | Vantage D  | 2625 Wals   | l Santa | Clara CA |     | 95051 | Santa Clara | 0.9    | ) (    | )        | 0 Generato     | rs 37.374 | -121.973    | -13577967.65 | 4491352.088 |
| 9563 | 9,563 20295-25  | Vantage D  | 2625 Wals   | l Santa | Clara CA |     | 95051 | Santa Clara | 0.6    | L (    | )        | 0 Generato     | rs 37.374 | -121.973    | -13577958.83 | 4491353.255 |
| 9564 | 9,564 20295-26  | Vantage D  | 2625 Wals   | l Santa | Clara CA |     | 95051 | Santa Clara | 3 1.1  | 3 (    | )        | 0 Generato     | rs 37.374 | -121.973    | -13577950.03 | 4491353.158 |
| 9565 | 9,565 20295-27  | Vantage D  | a 2625 Wals | l Santa | Clara CA |     | 95051 | Santa Clara | 1.1    | 3 (    | )        | 0 Generato     | rs 37.374 | -121.973    | -13577941.23 | 4491353.062 |

CoreSite
Mitigated operation (11 hrs)

|                      | Diesel Backup Generator |                                      |                      |                         |                 |                    |                              |                                 |  |  |  |
|----------------------|-------------------------|--------------------------------------|----------------------|-------------------------|-----------------|--------------------|------------------------------|---------------------------------|--|--|--|
| Distance<br>(meters) | Distance<br>(feet)      | Distance<br>adjustment<br>multiplier | Enter Cancer<br>Risk | Adjusted<br>Cancer Risk | Enter<br>Hazard | Adjusted<br>Hazard | Enter PM2.5<br>Concentration | Adjusted PM2.5<br>Concentration |  |  |  |
| 0                    | 0.0                     | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 5                    | 16.4                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 10                   | 32.8                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 15                   | 49.2                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 20                   | 65.6                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 25                   | 82.0                    | 0.85                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 30                   | 98.4                    | 0.73                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 35                   | 114.8                   | 0.64                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 40                   | 131.2                   | 0.58                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 50                   | 164.0                   | 0.5                                  |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 60                   | 196.9                   | 0.41                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 70                   | 229.7                   | 0.31                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 80                   | 262.5                   | 0.28                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 90                   | 295.3                   | 0.25                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 100                  | 328.1                   | 0.22                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 110                  | 360.9                   | 0.18                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 115                  | 377.3                   | 0.17                                 | 56.267               | 9.565                   | 0.015           | 0.003              | 0.076                        | 0.013                           |  |  |  |
| 120                  | 393.7                   | 0.16                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 130                  | 426.5                   | 0.15                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 140                  | 459.3                   | 0.14                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 150                  | 492.1                   | 0.12                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 160                  | 524.9                   | 0.1                                  |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 180                  | 590.6                   | 0.09                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 200                  | 656.2                   | 0.08                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 220                  | 721.8                   | 0.07                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 240                  | 787.4                   | 0.06                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 260                  | 853.0                   | 0.05                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 280                  | 918.6                   | 0.04                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |

<sup>\*</sup>Distance to MEI: 375 feet

**ON Semiconductor Inc** 

FACID: 19856

| FACID: 198           | 56                      |                                      |                      |                         |                 |                    |                              |                                 |  |  |  |  |
|----------------------|-------------------------|--------------------------------------|----------------------|-------------------------|-----------------|--------------------|------------------------------|---------------------------------|--|--|--|--|
|                      | Diesel Backup Generator |                                      |                      |                         |                 |                    |                              |                                 |  |  |  |  |
| Distance<br>(meters) | Distance<br>(feet)      | Distance<br>adjustment<br>multiplier | Enter Cancer<br>Risk | Adjusted<br>Cancer Risk | Enter<br>Hazard | Adjusted<br>Hazard | Enter PM2.5<br>Concentration | Adjusted PM2.5<br>Concentration |  |  |  |  |
| 0                    | 0.0                     | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 5                    | 16.4                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 10                   | 32.8                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 15                   | 49.2                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 20                   | 65.6                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 25                   | 82.0                    | 0.85                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 30                   | 98.4                    | 0.73                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 35                   | 114.8                   | 0.64                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 40                   | 131.2                   | 0.58                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 50                   | 164.0                   | 0.5                                  |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 60                   | 196.9                   | 0.41                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 70                   | 229.7                   | 0.31                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 80                   | 262.5                   | 0.28                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 90                   | 295.3                   | 0.25                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 100                  | 328.1                   | 0.22                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 110                  | 360.9                   | 0.18                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 120                  | 393.7                   | 0.16                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 130                  | 426.5                   | 0.15                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 140                  | 459.3                   | 0.14                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 150                  | 492.1                   | 0.12                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 160                  | 524.9                   | 0.1                                  |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 180                  | 590.6                   | 0.09                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 200                  | 656.2                   | 0.08                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 220                  | 721.8                   | 0.07                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 240                  | 787.4                   | 0.06                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 260                  | 853.0                   | 0.05                                 | 0.32                 | 0.016                   | 0               | 0                  | 0                            | 0                               |  |  |  |  |
| 280                  | 918.6                   | 0.04                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |

<sup>\*</sup>Distance to MEI: 840 feet

A100 US LLC FACID: 22375

| FACID: 223           | 75                 |                                      |                      |                         |                 |                    |                              |                                 |
|----------------------|--------------------|--------------------------------------|----------------------|-------------------------|-----------------|--------------------|------------------------------|---------------------------------|
|                      |                    |                                      | Diesel               | Backup                  | Gene            | erator             |                              |                                 |
| Distance<br>(meters) | Distance<br>(feet) | Distance<br>adjustment<br>multiplier | Enter Cancer<br>Risk | Adjusted<br>Cancer Risk | Enter<br>Hazard | Adjusted<br>Hazard | Enter PM2.5<br>Concentration | Adjusted PM2.5<br>Concentration |
| 0                    | 0.0                | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 5                    | 16.4               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 10                   | 32.8               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 15                   | 49.2               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 20                   | 65.6               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 25                   | 82.0               | 0.85                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 30                   | 98.4               | 0.73                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 35                   | 114.8              | 0.64                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 40                   | 131.2              | 0.58                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 50                   | 164.0              | 0.5                                  |                      | 0                       |                 | 0                  |                              | 0                               |
| 60                   | 196.9              | 0.41                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 70                   | 229.7              | 0.31                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 80                   | 262.5              | 0.28                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 90                   | 295.3              | 0.25                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 100                  | 328.1              | 0.22                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 110                  | 360.9              | 0.18                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 120                  | 393.7              | 0.16                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 130                  | 426.5              | 0.15                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 140                  | 459.3              | 0.14                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 150                  | 492.1              | 0.12                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 160                  | 524.9              | 0.1                                  |                      | 0                       |                 | 0                  |                              | 0                               |
| 180                  | 590.6              | 0.09                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 200                  | 656.2              | 0.08                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 220                  | 721.8              | 0.07                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 240                  | 787.4              | 0.06                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 260                  | 853.0              | 0.05                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 280                  | 918.6              | 0.04                                 | 51.48                | 2.0592                  | 0.05            | 0.002              | 0.07                         | 0.0028                          |

<sup>\*</sup>Distance to MEI: 1,430 feet

|                      |                    |                                      | Diesel               | Backup                  | Gene            | rator              |                              |                                 |
|----------------------|--------------------|--------------------------------------|----------------------|-------------------------|-----------------|--------------------|------------------------------|---------------------------------|
| Distance<br>(meters) | Distance<br>(feet) | Distance<br>adjustment<br>multiplier | Enter Cancer<br>Risk | Adjusted<br>Cancer Risk | Enter<br>Hazard | Adjusted<br>Hazard | Enter PM2.5<br>Concentration | Adjusted PM2.5<br>Concentration |
| 0                    | 0.0                | 1.000                                |                      | 0                       |                 | 0                  |                              | (                               |
| 5                    | 16.4               | 1.000                                |                      | 0                       |                 | 0                  |                              | (                               |
| 10                   | 32.8               | 1.000                                |                      | 0                       |                 | 0                  |                              | (                               |
| 15                   | 49.2               | 1.000                                |                      | 0                       |                 | 0                  |                              | (                               |
| 20                   | 65.6               | 1.000                                |                      | 0                       |                 | 0                  |                              | C                               |
| 25                   | 82.0               | 0.85                                 |                      | 0                       |                 | 0                  |                              | (                               |
| 30                   | 98.4               | 0.73                                 |                      | 0                       |                 | 0                  |                              | C                               |
| 35                   | 114.8              | 0.64                                 |                      | 0                       |                 | 0                  |                              | (                               |
| 40                   | 131.2              | 0.58                                 |                      | 0                       |                 | 0                  |                              | (                               |
| 50                   | 164.0              | 0.5                                  |                      | 0                       |                 | 0                  |                              | (                               |
| 60                   | 196.9              | 0.41                                 |                      | 0                       |                 | 0                  |                              | (                               |
| 70                   | 229.7              | 0.31                                 |                      | 0                       |                 | 0                  |                              | (                               |
| 80                   | 262.5              | 0.28                                 |                      | 0                       |                 | 0                  |                              | (                               |
| 90                   | 295.3              | 0.25                                 |                      | 0                       |                 | 0                  |                              | (                               |
| 100                  | 328.1              | 0.22                                 |                      | 0                       |                 | 0                  |                              | (                               |
| 110                  | 360.9              | 0.18                                 |                      | 0                       |                 | 0                  |                              | (                               |
| 120                  | 393.7              | 0.16                                 |                      | 0                       |                 | 0                  |                              | (                               |
| 130                  | 426.5              | 0.15                                 |                      | 0                       |                 | 0                  |                              | (                               |
| 140                  | 459.3              | 0.14                                 |                      | 0                       |                 | 0                  |                              | (                               |
| 150                  | 492.1              | 0.12                                 |                      | 0                       |                 | 0                  |                              | (                               |
| 160                  | 524.9              | 0.1                                  |                      | 0                       |                 | 0                  |                              | (                               |
| 180                  | 590.6              | 0.09                                 |                      | 0                       |                 | 0                  |                              | (                               |
| 200                  | 656.2              | 0.08                                 |                      | 0                       |                 | 0                  |                              | (                               |
| 220                  | 721.8              | 0.07                                 |                      | 0                       |                 | 0                  |                              | (                               |
| 240                  | 787.4              | 0.06                                 |                      | 0                       |                 | 0                  |                              | (                               |
| 260                  | 853.0              | 0.05                                 |                      | 0                       |                 | 0                  |                              | (                               |
| 280                  | 918.6              | 0.04                                 | 10.26                | 0.4104                  | 0.03            | 0.0012             | 0.01                         | 0.0004                          |

<sup>\*</sup>Distance to MEI: 1,080 feet

|                      | Diesel Backup Generator |                                      |                      |                         |                 |                    |                              |                                 |  |  |  |
|----------------------|-------------------------|--------------------------------------|----------------------|-------------------------|-----------------|--------------------|------------------------------|---------------------------------|--|--|--|
| Distance<br>(meters) | Distance<br>(feet)      | Distance<br>adjustment<br>multiplier | Enter Cancer<br>Risk | Adjusted<br>Cancer Risk | Enter<br>Hazard | Adjusted<br>Hazard | Enter PM2.5<br>Concentration | Adjusted PM2.5<br>Concentration |  |  |  |
| 0                    | 0.0                     | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 5                    | 16.4                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 10                   | 32.8                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 15                   | 49.2                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 20                   | 65.6                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 25                   | 82.0                    | 0.85                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 30                   | 98.4                    | 0.73                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 35                   | 114.8                   | 0.64                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 40                   | 131.2                   | 0.58                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 50                   | 164.0                   | 0.5                                  |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 60                   | 196.9                   | 0.41                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 70                   | 229.7                   | 0.31                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 80                   | 262.5                   | 0.28                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 90                   | 295.3                   | 0.25                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 100                  | 328.1                   | 0.22                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 110                  | 360.9                   | 0.18                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 120                  | 393.7                   | 0.16                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 130                  | 426.5                   | 0.15                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 140                  | 459.3                   | 0.14                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 150                  | 492.1                   | 0.12                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 160                  | 524.9                   | 0.1                                  |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 180                  | 590.6                   | 0.09                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 200                  | 656.2                   | 0.08                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 220                  | 721.8                   | 0.07                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 240                  | 787.4                   | 0.06                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 260                  | 853.0                   | 0.05                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |
| 280                  | 918.6                   | 0.04                                 | 10.26                | 0.4104                  | 0.03            | 0.0012             | 0.01                         | 0.0004                          |  |  |  |

<sup>\*</sup>Distance to MEI: 1,080 feet

| FACID: 195           | 33 3                    |                                      |                      |                         |                 |                    |                              |                                 |  |  |  |  |
|----------------------|-------------------------|--------------------------------------|----------------------|-------------------------|-----------------|--------------------|------------------------------|---------------------------------|--|--|--|--|
|                      | Diesel Backup Generator |                                      |                      |                         |                 |                    |                              |                                 |  |  |  |  |
| Distance<br>(meters) | Distance<br>(feet)      | Distance<br>adjustment<br>multiplier | Enter Cancer<br>Risk | Adjusted<br>Cancer Risk | Enter<br>Hazard | Adjusted<br>Hazard | Enter PM2.5<br>Concentration | Adjusted PM2.5<br>Concentration |  |  |  |  |
| 0                    | 0.0                     | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 5                    | 16.4                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 10                   | 32.8                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 15                   | 49.2                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 20                   | 65.6                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 25                   | 82.0                    | 0.85                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 30                   | 98.4                    | 0.73                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 35                   | 114.8                   | 0.64                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 40                   | 131.2                   | 0.58                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 50                   | 164.0                   | 0.5                                  |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 60                   | 196.9                   | 0.41                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 70                   | 229.7                   | 0.31                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 80                   | 262.5                   | 0.28                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 90                   | 295.3                   | 0.25                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 100                  | 328.1                   | 0.22                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 110                  | 360.9                   | 0.18                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 120                  | 393.7                   | 0.16                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 130                  | 426.5                   | 0.15                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 140                  | 459.3                   | 0.14                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 150                  | 492.1                   | 0.12                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 160                  | 524.9                   | 0.1                                  |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 180                  | 590.6                   | 0.09                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 200                  | 656.2                   | 0.08                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 220                  | 721.8                   | 0.07                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 240                  | 787.4                   | 0.06                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 260                  | 853.0                   | 0.05                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 280                  | 918.6                   | 0.04                                 | 10.26                | 0.4104                  | 0.03            | 0.0012             | 0.01                         | 0.0004                          |  |  |  |  |

<sup>\*</sup>Distance to MEI: 1,080 feet

| FACID: 195           | 33 <del>4</del>         |                                      |                      |                         |                 |                    |                              |                                 |  |  |  |  |
|----------------------|-------------------------|--------------------------------------|----------------------|-------------------------|-----------------|--------------------|------------------------------|---------------------------------|--|--|--|--|
|                      | Diesel Backup Generator |                                      |                      |                         |                 |                    |                              |                                 |  |  |  |  |
| Distance<br>(meters) | Distance<br>(feet)      | Distance<br>adjustment<br>multiplier | Enter Cancer<br>Risk | Adjusted<br>Cancer Risk | Enter<br>Hazard | Adjusted<br>Hazard | Enter PM2.5<br>Concentration | Adjusted PM2.5<br>Concentration |  |  |  |  |
| 0                    | 0.0                     | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 5                    | 16.4                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 10                   | 32.8                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 15                   | 49.2                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 20                   | 65.6                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 25                   | 82.0                    | 0.85                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 30                   | 98.4                    | 0.73                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 35                   | 114.8                   | 0.64                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 40                   | 131.2                   | 0.58                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 50                   | 164.0                   | 0.5                                  |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 60                   | 196.9                   | 0.41                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 70                   | 229.7                   | 0.31                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 80                   | 262.5                   | 0.28                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 90                   | 295.3                   | 0.25                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 100                  | 328.1                   | 0.22                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 110                  | 360.9                   | 0.18                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 120                  | 393.7                   | 0.16                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 130                  | 426.5                   | 0.15                                 |                      | 0                       |                 | 0                  |                              | (                               |  |  |  |  |
| 140                  | 459.3                   | 0.14                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 150                  | 492.1                   | 0.12                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 160                  | 524.9                   | 0.1                                  |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 180                  | 590.6                   | 0.09                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 200                  | 656.2                   | 0.08                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 220                  | 721.8                   | 0.07                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 240                  | 787.4                   | 0.06                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 260                  | 853.0                   | 0.05                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 280                  | 918.6                   | 0.04                                 | 10.26                | 0.4104                  | 0.03            | 0.0012             | 0.01                         | 0.0004                          |  |  |  |  |

<sup>\*</sup>Distance to MEI: 1,080 feet

| FACID: 195           | 33 3                    |                                      |                      |                         |                 |                    |                              |                                 |  |  |  |  |
|----------------------|-------------------------|--------------------------------------|----------------------|-------------------------|-----------------|--------------------|------------------------------|---------------------------------|--|--|--|--|
|                      | Diesel Backup Generator |                                      |                      |                         |                 |                    |                              |                                 |  |  |  |  |
| Distance<br>(meters) | Distance<br>(feet)      | Distance<br>adjustment<br>multiplier | Enter Cancer<br>Risk | Adjusted<br>Cancer Risk | Enter<br>Hazard | Adjusted<br>Hazard | Enter PM2.5<br>Concentration | Adjusted PM2.5<br>Concentration |  |  |  |  |
| 0                    | 0.0                     | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 5                    | 16.4                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 10                   | 32.8                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 15                   | 49.2                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 20                   | 65.6                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 25                   | 82.0                    | 0.85                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 30                   | 98.4                    | 0.73                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 35                   | 114.8                   | 0.64                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 40                   | 131.2                   | 0.58                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 50                   | 164.0                   | 0.5                                  |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 60                   | 196.9                   | 0.41                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 70                   | 229.7                   | 0.31                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 80                   | 262.5                   | 0.28                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 90                   | 295.3                   | 0.25                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 100                  | 328.1                   | 0.22                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 110                  | 360.9                   | 0.18                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 120                  | 393.7                   | 0.16                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 130                  | 426.5                   | 0.15                                 |                      | 0                       |                 | 0                  |                              | (                               |  |  |  |  |
| 140                  | 459.3                   | 0.14                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 150                  | 492.1                   | 0.12                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 160                  | 524.9                   | 0.1                                  |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 180                  | 590.6                   | 0.09                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 200                  | 656.2                   | 0.08                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 220                  | 721.8                   | 0.07                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |  |  |  |
| 240                  | 787.4                   | 0.06                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 260                  | 853.0                   | 0.05                                 |                      | 0                       |                 | 0                  |                              | C                               |  |  |  |  |
| 280                  | 918.6                   | 0.04                                 | 7.63                 | 0.3052                  | 0.03            | 0.0012             | 0.01                         | 0.0004                          |  |  |  |  |

<sup>\*</sup>Distance to MEI: 1,080 feet

| FACID: 195           | 33 0               |                                      |                      |                         |                 |                    |                              |                                 |
|----------------------|--------------------|--------------------------------------|----------------------|-------------------------|-----------------|--------------------|------------------------------|---------------------------------|
|                      |                    |                                      | Diesel               | Backup                  | Gene            | erator             |                              |                                 |
| Distance<br>(meters) | Distance<br>(feet) | Distance<br>adjustment<br>multiplier | Enter Cancer<br>Risk | Adjusted<br>Cancer Risk | Enter<br>Hazard | Adjusted<br>Hazard | Enter PM2.5<br>Concentration | Adjusted PM2.5<br>Concentration |
| 0                    | 0.0                | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 5                    | 16.4               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 10                   | 32.8               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 15                   | 49.2               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 20                   | 65.6               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 25                   | 82.0               | 0.85                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 30                   | 98.4               | 0.73                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 35                   | 114.8              | 0.64                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 40                   | 131.2              | 0.58                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 50                   | 164.0              | 0.5                                  |                      | 0                       |                 | 0                  |                              | 0                               |
| 60                   | 196.9              | 0.41                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 70                   | 229.7              | 0.31                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 80                   | 262.5              | 0.28                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 90                   | 295.3              | 0.25                                 |                      | 0                       |                 | 0                  |                              | C                               |
| 100                  | 328.1              | 0.22                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 110                  | 360.9              | 0.18                                 |                      | 0                       |                 | 0                  |                              | C                               |
| 120                  | 393.7              | 0.16                                 |                      | 0                       |                 | 0                  |                              | C                               |
| 130                  | 426.5              | 0.15                                 |                      | 0                       |                 | 0                  |                              | C                               |
| 140                  | 459.3              | 0.14                                 |                      | 0                       |                 | 0                  |                              | C                               |
| 150                  | 492.1              | 0.12                                 |                      | 0                       |                 | 0                  |                              | C                               |
| 160                  | 524.9              | 0.1                                  |                      | 0                       |                 | 0                  |                              | 0                               |
| 180                  | 590.6              | 0.09                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 200                  | 656.2              | 0.08                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 220                  | 721.8              | 0.07                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 240                  | 787.4              | 0.06                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 260                  | 853.0              | 0.05                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 280                  | 918.6              | 0.04                                 | 5.95                 | 0.238                   | 0.02            | 0.0008             | 0.01                         | 0.0004                          |

<sup>\*</sup>Distance to MEI: 1,080 feet

|                      | Diesel Backup Generator |                                      |                      |                         |                 |                    |                              |                                 |  |  |  |
|----------------------|-------------------------|--------------------------------------|----------------------|-------------------------|-----------------|--------------------|------------------------------|---------------------------------|--|--|--|
| Distance<br>(meters) | Distance<br>(feet)      | Distance<br>adjustment<br>multiplier | Enter Cancer<br>Risk | Adjusted<br>Cancer Risk | Enter<br>Hazard | Adjusted<br>Hazard | Enter PM2.5<br>Concentration | Adjusted PM2.5<br>Concentration |  |  |  |
| 0                    | 0.0                     | 1.000                                |                      | 0                       |                 | 0                  |                              | (                               |  |  |  |
| 5                    | 16.4                    | 1.000                                |                      | 0                       |                 | 0                  |                              | (                               |  |  |  |
| 10                   | 32.8                    | 1.000                                |                      | 0                       |                 | 0                  |                              | (                               |  |  |  |
| 15                   | 49.2                    | 1.000                                |                      | 0                       |                 | 0                  |                              | (                               |  |  |  |
| 20                   | 65.6                    | 1.000                                |                      | 0                       |                 | 0                  |                              | (                               |  |  |  |
| 25                   | 82.0                    | 0.85                                 |                      | 0                       |                 | 0                  |                              | (                               |  |  |  |
| 30                   | 98.4                    | 0.73                                 |                      | 0                       |                 | 0                  |                              | (                               |  |  |  |
| 35                   | 114.8                   | 0.64                                 |                      | 0                       |                 | 0                  |                              | (                               |  |  |  |
| 40                   | 131.2                   | 0.58                                 |                      | 0                       |                 | 0                  |                              | (                               |  |  |  |
| 50                   | 164.0                   | 0.5                                  |                      | 0                       |                 | 0                  |                              |                                 |  |  |  |
| 60                   | 196.9                   | 0.41                                 |                      | 0                       |                 | 0                  |                              |                                 |  |  |  |
| 70                   | 229.7                   | 0.31                                 |                      | 0                       |                 | 0                  |                              |                                 |  |  |  |
| 80                   | 262.5                   | 0.28                                 |                      | 0                       |                 | 0                  |                              |                                 |  |  |  |
| 90                   | 295.3                   | 0.25                                 |                      | 0                       |                 | 0                  |                              |                                 |  |  |  |
| 100                  | 328.1                   | 0.22                                 |                      | 0                       |                 | 0                  |                              | (                               |  |  |  |
| 110                  | 360.9                   | 0.18                                 |                      | 0                       |                 | 0                  |                              | (                               |  |  |  |
| 120                  | 393.7                   | 0.16                                 |                      | 0                       |                 | 0                  |                              |                                 |  |  |  |
| 130                  | 426.5                   | 0.15                                 |                      | 0                       |                 | 0                  |                              |                                 |  |  |  |
| 140                  | 459.3                   | 0.14                                 |                      | 0                       |                 | 0                  |                              | (                               |  |  |  |
| 150                  | 492.1                   | 0.12                                 |                      | 0                       |                 | 0                  |                              |                                 |  |  |  |
| 160                  | 524.9                   | 0.1                                  |                      | 0                       |                 | 0                  |                              | (                               |  |  |  |
| 180                  | 590.6                   | 0.09                                 |                      | 0                       |                 | 0                  |                              |                                 |  |  |  |
| 200                  | 656.2                   | 0.08                                 |                      | 0                       |                 | 0                  |                              |                                 |  |  |  |
| 220                  | 721.8                   | 0.07                                 |                      | 0                       |                 | 0                  |                              | (                               |  |  |  |
| 240                  | 787.4                   | 0.06                                 |                      | 0                       |                 | 0                  |                              |                                 |  |  |  |
| 260                  | 853.0                   | 0.05                                 |                      | 0                       |                 | 0                  |                              |                                 |  |  |  |
| 280                  | 918.6                   | 0.04                                 | 5.95                 | 0.238                   | 0.02            | 0.0008             | 0.01                         | 0.0004                          |  |  |  |

<sup>\*</sup>Distance to MEI: 1,080 feet

| FACID: 195           | 39-8<br>           |                                      |                      |                         |                 |                    |                              |                                 |
|----------------------|--------------------|--------------------------------------|----------------------|-------------------------|-----------------|--------------------|------------------------------|---------------------------------|
|                      |                    |                                      | Diesel               | Backup                  | Gene            | erator             |                              |                                 |
| Distance<br>(meters) | Distance<br>(feet) | Distance<br>adjustment<br>multiplier | Enter Cancer<br>Risk | Adjusted<br>Cancer Risk | Enter<br>Hazard | Adjusted<br>Hazard | Enter PM2.5<br>Concentration | Adjusted PM2.5<br>Concentration |
| 0                    | 0.0                | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 5                    | 16.4               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 10                   | 32.8               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 15                   | 49.2               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 20                   | 65.6               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 25                   | 82.0               | 0.85                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 30                   | 98.4               | 0.73                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 35                   | 114.8              | 0.64                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 40                   | 131.2              | 0.58                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 50                   | 164.0              | 0.5                                  |                      | 0                       |                 | 0                  |                              | 0                               |
| 60                   | 196.9              | 0.41                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 70                   | 229.7              | 0.31                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 80                   | 262.5              | 0.28                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 90                   | 295.3              | 0.25                                 |                      | 0                       |                 | 0                  |                              | C                               |
| 100                  | 328.1              | 0.22                                 |                      | 0                       |                 | 0                  |                              | C                               |
| 110                  | 360.9              | 0.18                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 120                  | 393.7              | 0.16                                 |                      | 0                       |                 | 0                  |                              | C                               |
| 130                  | 426.5              | 0.15                                 |                      | 0                       |                 | 0                  |                              | C                               |
| 140                  | 459.3              | 0.14                                 |                      | 0                       |                 | 0                  |                              | C                               |
| 150                  | 492.1              | 0.12                                 |                      | 0                       |                 | 0                  |                              | C                               |
| 160                  | 524.9              | 0.1                                  |                      | 0                       |                 | 0                  |                              | C                               |
| 180                  | 590.6              | 0.09                                 |                      | 0                       |                 | 0                  |                              | C                               |
| 200                  | 656.2              | 0.08                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 220                  | 721.8              | 0.07                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 240                  | 787.4              | 0.06                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 260                  | 853.0              | 0.05                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 280                  | 918.6              | 0.04                                 | 5.95                 | 0.238                   | 0.02            | 0.0008             | 0.01                         | 0.0004                          |
|                      | 918.6              | 0.04                                 | 5.95                 |                         | 0.02            |                    | 0.01                         |                                 |

<sup>\*</sup>Distance to MEI: 1,080 feet

| FACID: 195           |                    |                                      |                      |                         |                 |                    |                              |                                 |
|----------------------|--------------------|--------------------------------------|----------------------|-------------------------|-----------------|--------------------|------------------------------|---------------------------------|
|                      |                    |                                      | Diesel               | Backup                  | Gene            | erator             |                              |                                 |
| Distance<br>(meters) | Distance<br>(feet) | Distance<br>adjustment<br>multiplier | Enter Cancer<br>Risk | Adjusted<br>Cancer Risk | Enter<br>Hazard | Adjusted<br>Hazard | Enter PM2.5<br>Concentration | Adjusted PM2.5<br>Concentration |
| 0                    | 0.0                | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 5                    | 16.4               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 10                   | 32.8               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 15                   | 49.2               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 20                   | 65.6               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 25                   | 82.0               | 0.85                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 30                   | 98.4               | 0.73                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 35                   | 114.8              | 0.64                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 40                   | 131.2              | 0.58                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 50                   | 164.0              | 0.5                                  |                      | 0                       |                 | 0                  |                              | 0                               |
| 60                   | 196.9              | 0.41                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 70                   | 229.7              | 0.31                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 80                   | 262.5              | 0.28                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 90                   | 295.3              | 0.25                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 100                  | 328.1              | 0.22                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 110                  | 360.9              | 0.18                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 120                  | 393.7              | 0.16                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 130                  | 426.5              | 0.15                                 |                      | 0                       |                 | 0                  |                              | C                               |
| 140                  | 459.3              | 0.14                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 150                  | 492.1              | 0.12                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 160                  | 524.9              | 0.1                                  |                      | 0                       |                 | 0                  |                              | 0                               |
| 180                  | 590.6              | 0.09                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 200                  | 656.2              | 0.08                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 220                  | 721.8              | 0.07                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 240                  | 787.4              | 0.06                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 260                  | 853.0              | 0.05                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 280                  | 918.6              | 0.04                                 | 5.95                 | 0.238                   | 0.02            | 0.0008             | 0.01                         | 0.0004                          |

<sup>\*</sup>Distance to MEI: 1,080 feet

CoreSite

FACID: 19539-Remainder

| (meters) (f | istance<br>(feet)<br>0.0<br>16.4<br>32.8<br>49.2<br>65.6 | Distance adjustment multiplier 1.000 1.000 1.000 1.000 | Diesel<br>Enter Cancer<br>Risk | Adjusted Cancer Risk 0 | Enter<br>Hazard | Adjusted<br>Hazard | Enter PM2.5<br>Concentration | Adjusted PM2.5<br>Concentration |
|-------------|--|--|--------------------------------|------------------------|-----------------|--------------------|------------------------------|---------------------------------|
| (meters) (f | 0.0<br>16.4<br>32.8<br>49.2<br>65.6                      | adjustment<br>multiplier<br>1.000<br>1.000<br>1.000    |                                | Cancer Risk            |                 | Hazard             |                              | -                               |
| 5 1         | 16.4<br>32.8<br>49.2<br>65.6                             | 1.000<br>1.000<br>1.000                                |                                |                        |                 | 0                  |                              |                                 |
|             | 32.8<br>49.2<br>65.6                                     | 1.000<br>1.000   |                                | 0                      |                 |                    |                              | 0                               |
| 10 3        | 49.2<br>65.6   | 1.000  |                                |                        |                 | 0                  |                              | 0                               |
|             | 65.6   |  |                                | 0                      |                 | 0                  |                              | 0                               |
| 15          |  |  |                                | 0                      |                 | 0                  |                              | 0                               |
| 20          |  | 1.000  |                                | 0                      |                 | 0                  |                              | 0                               |
| 25 8        | 82.0   | 0.85   |                                | 0                      |                 | 0                  |                              | 0                               |
| 30          | 98.4   | 0.73   |                                | 0                      |                 | 0                  |                              | 0                               |
| 35 1        | 114.8  | 0.64   |                                | 0                      |                 | 0                  |                              | 0                               |
| 40 1        | 131.2  | 0.58   |                                | 0                      |                 | 0                  |                              | 0                               |
| 50 1        | 164.0  | 0.5  |                                | 0                      |                 | 0                  |                              | 0                               |
| 60 1        | 196.9  | 0.41   |                                | 0                      |                 | 0                  |                              | 0                               |
| 70 2        | 229.7  | 0.31   |                                | 0                      |                 | 0                  |                              | 0                               |
| 80 2        | 262.5  | 0.28   |                                | 0                      |                 | 0                  |                              | 0                               |
| 90 2        | 295.3  | 0.25   |                                | 0                      |                 | 0                  |                              | 0                               |
| 100 3       | 328.1  | 0.22   |                                | 0                      |                 | 0                  |                              | 0                               |
| 110 3       | 360.9  | 0.18   |                                | 0                      |                 | 0                  |                              | 0                               |
| 120 3       | 393.7  | 0.16   |                                | 0                      |                 | 0                  |                              | 0                               |
| 130 4       | 426.5  | 0.15   |                                | 0                      |                 | 0                  |                              | 0                               |
| 140 4       | 459.3  | 0.14   |                                | 0                      |                 | 0                  |                              | 0                               |
| 150 4       | 492.1  | 0.12   |                                | 0                      |                 | 0                  |                              | 0                               |
| 160 5       | 524.9  | 0.1  |                                | 0                      |                 | 0                  |                              | 0                               |
| 180 5       | 590.6  | 0.09   |                                | 0                      |                 | 0                  |                              | 0                               |
| 200 6       | 656.2  | 0.08   |                                | 0                      |                 | 0                  |                              | 0                               |
| 220 7       | 721.8  | 0.07   |                                | 0                      |                 | 0                  |                              | 0                               |
| 240 7       | 787.4  | 0.06   |                                | 0                      |                 | 0                  |                              | 0                               |
| 260 8       | 853.0  | 0.05   |                                | 0                      |                 | 0                  |                              | 0                               |
| 280 9       | 918.6  | 0.04   | 22.47                          | 0.8988                 | 0.06            | 0.0024             | 0.03                         | 0.0012                          |

<sup>\*</sup>Distance to MEI: 1,080 feet

Vantage Data Centers Management

FACID: 20295-24

| Diesel Backup Generator |                    |                                      |                      |                         |                 |                    |                              |                                 |
|-------------------------|--------------------|--------------------------------------|----------------------|-------------------------|-----------------|--------------------|------------------------------|---------------------------------|
| Distance<br>(meters)    | Distance<br>(feet) | Distance<br>adjustment<br>multiplier | Enter Cancer<br>Risk | Adjusted<br>Cancer Risk | Enter<br>Hazard | Adjusted<br>Hazard | Enter PM2.5<br>Concentration | Adjusted PM2.5<br>Concentration |
| 0                       | 0.0                | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 5                       | 16.4               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 10                      | 32.8               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 15                      | 49.2               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 20                      | 65.6               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 25                      | 82.0               | 0.85                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 30                      | 98.4               | 0.73                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 35                      | 114.8              | 0.64                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 40                      | 131.2              | 0.58                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 50                      | 164.0              | 0.5                                  |                      | 0                       |                 | 0                  |                              | 0                               |
| 60                      | 196.9              | 0.41                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 70                      | 229.7              | 0.31                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 80                      | 262.5              | 0.28                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 90                      | 295.3              | 0.25                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 100                     | 328.1              | 0.22                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 110                     | 360.9              | 0.18                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 120                     | 393.7              | 0.16                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 130                     | 426.5              | 0.15                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 140                     | 459.3              | 0.14                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 150                     | 492.1              | 0.12                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 160                     | 524.9              | 0.1                                  |                      | 0                       |                 | 0                  |                              | 0                               |
| 180                     | 590.6              | 0.09                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 200                     | 656.2              | 0.08                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 220                     | 721.8              | 0.07                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 240                     | 787.4              | 0.06                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 260                     | 853.0              | 0.05                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 280                     | 918.6              | 0.04                                 | 0.99                 | 0.0396                  | 0               | 0                  | 0                            | 0                               |

<sup>\*</sup>Distance to MEI: 1,675 feet

Vantage Data Centers Management

FACID: 20295-25

|                      | 95-25                   |                                      |                      |                         |                 |                    |                              |                                 |  |
|----------------------|-------------------------|--------------------------------------|----------------------|-------------------------|-----------------|--------------------|------------------------------|---------------------------------|--|
|                      | Diesel Backup Generator |                                      |                      |                         |                 |                    |                              |                                 |  |
| Distance<br>(meters) | Distance<br>(feet)      | Distance<br>adjustment<br>multiplier | Enter Cancer<br>Risk | Adjusted<br>Cancer Risk | Enter<br>Hazard | Adjusted<br>Hazard | Enter PM2.5<br>Concentration | Adjusted PM2.5<br>Concentration |  |
| 0                    | 0.0                     | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 5                    | 16.4                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 10                   | 32.8                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 15                   | 49.2                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 20                   | 65.6                    | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 25                   | 82.0                    | 0.85                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 30                   | 98.4                    | 0.73                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 35                   | 114.8                   | 0.64                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 40                   | 131.2                   | 0.58                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 50                   | 164.0                   | 0.5                                  |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 60                   | 196.9                   | 0.41                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 70                   | 229.7                   | 0.31                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 80                   | 262.5                   | 0.28                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 90                   | 295.3                   | 0.25                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 100                  | 328.1                   | 0.22                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 110                  | 360.9                   | 0.18                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 120                  | 393.7                   | 0.16                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 130                  | 426.5                   | 0.15                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 140                  | 459.3                   | 0.14                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 150                  | 492.1                   | 0.12                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 160                  | 524.9                   | 0.1                                  |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 180                  | 590.6                   | 0.09                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 200                  | 656.2                   | 0.08                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 220                  | 721.8                   | 0.07                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 240                  | 787.4                   | 0.06                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 260                  | 853.0                   | 0.05                                 |                      | 0                       |                 | 0                  |                              | 0                               |  |
| 280                  | 918.6                   | 0.04                                 | 0.61                 | 0.0244                  | 0               | 0                  | 0                            | 0                               |  |

<sup>\*</sup>Distance to MEI: 1,675 feet

Vantage Data Centers Management

FACID: 20295-26

| Diesel Backup Generator |                    |                                      |                      |                         |                 |                    |                              |                                 |
|-------------------------|--------------------|--------------------------------------|----------------------|-------------------------|-----------------|--------------------|------------------------------|---------------------------------|
| Distance<br>(meters)    | Distance<br>(feet) | Distance<br>adjustment<br>multiplier | Enter Cancer<br>Risk | Adjusted<br>Cancer Risk | Enter<br>Hazard | Adjusted<br>Hazard | Enter PM2.5<br>Concentration | Adjusted PM2.5<br>Concentration |
| 0                       | 0.0                | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 5                       | 16.4               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 10                      | 32.8               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 15                      | 49.2               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 20                      | 65.6               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 25                      | 82.0               | 0.85                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 30                      | 98.4               | 0.73                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 35                      | 114.8              | 0.64                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 40                      | 131.2              | 0.58                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 50                      | 164.0              | 0.5                                  |                      | 0                       |                 | 0                  |                              | 0                               |
| 60                      | 196.9              | 0.41                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 70                      | 229.7              | 0.31                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 80                      | 262.5              | 0.28                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 90                      | 295.3              | 0.25                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 100                     | 328.1              | 0.22                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 110                     | 360.9              | 0.18                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 120                     | 393.7              | 0.16                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 130                     | 426.5              | 0.15                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 140                     | 459.3              | 0.14                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 150                     | 492.1              | 0.12                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 160                     | 524.9              | 0.1                                  |                      | 0                       |                 | 0                  |                              | 0                               |
| 180                     | 590.6              | 0.09                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 200                     | 656.2              | 0.08                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 220                     | 721.8              | 0.07                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 240                     | 787.4              | 0.06                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 260                     | 853.0              | 0.05                                 |                      | 0                       |                 | 0                  |                              | C                               |
| 280                     | 918.6              | 0.04                                 | 1.18                 | 0.0472                  | 0               | 0                  | 0                            | C                               |

<sup>\*</sup>Distance to MEI: 1,675 feet

Vantage Data Centers Management

FACID: 20295-27

#### Diesel Backup Generator Distance Distance Distance **Enter Cancer** Adjusted Enter **Adjusted Enter PM2.5** Adjusted PM2.5 adjustment (meters) (feet) Risk **Cancer Risk** Hazard Hazard Concentration Concentration multiplier 0 0 0 0.0 1.000 0 0 0 0 5 16.4 1.000 0 0 0 10 32.8 1.000 0 0 15 49.2 1.000 0 0 0 20 65.6 1.000 0 0 0 25 82.0 0.85 0 0 0.73 0 0 30 98.4 0 114.8 0 0 35 0.64 0 40 131.2 0.58 0 0 50 164.0 0.5 0 0 0 0 0 60 196.9 0.41 0 0 0 0 70 229.7 0.31 0 262.5 0.28 0 0 80 0 295.3 0 0 90 0.25 0 0 100 328.1 0.22 0 360.9 0 0 0 110 0.18 0 0 0 120 393.7 0.16 0 0 0 130 426.5 0.15 0 0 0 140 459.3 0.14 0 0 0 150 492.1 0.12 0 0 0 160 524.9 0.1 0 0 180 590.6 0.09 0 0 200 656.2 0.08 0 0

0

0

0

0.0472

1.18

0

0

0

0

0

0

0

0

0

721.8

787.4

853.0

918.6

0.07

0.06

0.05

0.04

220

240

260

280

<sup>\*</sup>Distance to MEI: 1,675 feet



Plant Name

Plant No.

Step 1:
Enter Facility Data
CoreSite Santa Clara Data

Center SV9

Specify Source Type

Does facility have only diesel

backup generators? Is this analysis for a

> Chronic Hazard Total PM2.5

Concentration

Step 3:

yes no

Step 2:

Estimate Distance

What is the distance (m) from the facility boundary to the

Step 5: Read Estimates
Total Cancer Risk Total

per 1,000,000 56.267 0.015

0.076

Step 2: Enter Emissions Data

|  |                    | Eliter Ellissions Data |                 |         |   |
|--|--------------------|------------------------|-----------------|---------|---|
| Chemical Name  | CAS No.            | Emission               | Cancer          | Chronic | Concentration                           |
|  | (dashes removed)   | (lb/day)               | (# / 1,000,000) | (index) | (µg/m3)                                 |
| Fine Particulate Matter (PM2.5)                          |                    | 4.00E-02               |                 |         | 0.08                                    |
| ACETALDEHYDE   | 75070              | 0.00E+00               |                 |         |   |
| ACETAMIDE  | 60355              | 0.00E+00               |                 |         |   |
| ACROLEIN   | 107028             | 0.00E+00               |                 |         |   |
| ACRYLAMIDE   | 79061              | 0.00E+00               |                 |         |   |
| ACRYLIC ACID   | 79107              | 0.00E+00               |                 |         |   |
| ACRYLONITRILE  | 107131             | 0.00E+00               |                 |         |   |
| ALLYL CHLORIDE 2-AMINOANTHRAQUINONE                      | 107051<br>117793   | 0.00E+00               |                 |         |   |
| AMMONIA  | 7664417            | 0.00E+00               |                 |         |   |
| ANILINE  | 62533              | 0.00E+00<br>0.00E+00   |                 |         |   |
| ARSENIC AND COMPOUNDS (INORGANIC) <sup>1,2</sup>         | 7440382            | 0.00E+00               |                 |         |   |
| ARSINE AND COMPOUNDS (INORGANIC)                         | 7784421            | 0.00E+00               |                 |         |   |
| ASBESTOS <sup>3</sup>                                    | 1332214            | 0.00E+00               |                 |         |   |
| BENZENE <sup>1</sup>                                     | 71432              | 0.00E+00               |                 |         |   |
| BENZIDINE (AND ITS SALTS) values also apply to:          | 92875              | 0.00E+00               |                 |         | _////////////////////////////////////// |
| Benzidine based dyes                                     | 92875              | 0.00E+00               |                 |         |   |
| Direct Black 38 Direct Blue 6                            | 1937377<br>2602462 | 0.00E+00<br>0.00E+00   |                 |         |   |
| Direct Brown 95 (technical grade)                        | 16071866           | 0.00E+00               |                 |         |   |
| BENZYL CHLORIDE  | 100447             | 0.00E+00               |                 |         |   |
| BERYLLIUM AND COMPOUNDS <sup>2</sup>                     | 7440417            | 0.00E+00               |                 |         |   |
| BIS(2-CHLOROETHYL)ETHER (Dichloroethyl ether)            | 111444             | 0.00E+00               |                 |         |   |
| BIS(CHLOROMETHYL)ETHER                                   | 542881             | 0.00E+00               |                 |         |   |
| BROMINE AND COMPOUNDS see Potassium Bromate              | 7758012            | 0.00E+00               |                 |         |   |
| 1,3-BUTADIENE  | 106990             | 0.00E+00               |                 |         |   |
| CADMIUM AND COMPOUNDS <sup>2</sup>                       | 7440439            | 0.00E+00               |                 |         |   |
| CAPROLACTAM  | 105602             | 0.00E+00               |                 |         |   |
| CARBON DISULFIDE <sup>1</sup>                            | 75150              | 0.00E+00               |                 |         |   |
| CARBON MONOXIDE  | 630080             | 0.00E+00               |                 |         |   |
| CARBON TETRACHLORIDE <sup>1</sup> (Tetrachloromethane)   | 56235              | 0.00E+00               |                 |         |   |
| CHLORINATED PARAFFINS                                    | 108171262          | 0.00E+00               |                 |         |   |
| CHLORINE   | 7782505            | 0.00E+00               |                 |         |   |
| CHLORINE DIOXIDE   | 10049044           | 0.00E+00               |                 |         |   |
| 4-CHLORO-O-PHENYLENEDIAMINE                              | 95830              | 0.00E+00               |                 |         |   |
| CHLOROBENZENE  | 108907             | 0.00E+00               |                 |         |   |
| CHLOROFORM <sup>1</sup>                                  | 67663              | 0.00E+00               |                 |         |   |
| Chlorophenols  | 87865              | 0.00E+00               |                 |         |   |
| PENTACHLOROPHENOL  | 87865              | 0.00E+00               |                 |         |   |
| 2,4,6-TRICHLOROPHENOL                                    | 88062              | 0.00E+00               |                 |         |   |
| CHLOROPICRIN   | 76062              | 0.00E+00               |                 |         |   |
| p-CHLORO-o-TOLUIDINE                                     | 95692              | 0.00E+00               |                 |         |   |
| CHROMIUM 6+2   | 18540299           | 0.00E+00               |                 |         |   |
| Barium chromate <sup>2</sup>                             | 10294403           | 0.00E+00               |                 |         |   |
|  | 13765190           | 0.00E+00               |                 |         |   |
| Calcium chromate <sup>2</sup> Lead chromate <sup>2</sup> |                    |                        |                 |         |   |
|  | 7758976            | 0.00E+00               |                 |         |   |
| Sodium dichromate <sup>2</sup>                           | 10588019           | 0.00E+00               |                 |         |   |
| Strontium chromate <sup>2</sup>                          | 7789062            | 0.00E+00               |                 |         |   |
| CHROMIC TRIOXIDE (as chromic acid mist)                  | 1333820            | 0.00E+00               |                 |         |   |
| COPPER AND COMPOUNDS                                     | 7440508            | 0.00E+00               |                 |         |   |
| p-CRESIDINE  | 120718             | 0.00E+00               |                 |         |   |
| CRESOLS  | 1319773            | 0.00E+00               |                 |         |   |
| M-CRESOL   | 108394             | 0.00E+00               |                 |         |   |
| O-CRESOL   | 95487              | 0.00E+00               |                 |         |   |
| P-CRESOL   | 106445             | 0.00E+00               |                 |         |   |

| CUPFERRON  | 135206   | 0.00E+00 |  |
|--|----------|----------|--|
| Cyanide And Compounds (inorganic)                        | 57125    | 0.00E+00 |  |
| HYDROGEN CYANIDE (Hydrocyanic acid)                      | 74908    | 0.00E+00 |  |
| 2,4-DIAMINOANISOLE                                       | 615054   | 0.00E+00 |  |
| 2,4-DIAMINOTOLUENE                                       | 95807    | 0.00E+00 |  |
| 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)                       | 96128    | 0.00E+00 |  |
| 1,4-DICHLOROBENZENE (p-Dichlorobenzene)                  | 106467   | 0.00E+00 |  |
|  | 91941    |          |  |
| 3,3-DICHLOROBENZIDINE                                    |          | 0.00E+00 |  |
| 1,1,-DICHLOROETHANE (Ethylidene dichloride)              | 75343    | 0.00E+00 |  |
| DI(2-ETHYLHEXYL)PHTHALATE (DEHP)                         | 117817   | 0.00E+00 |  |
| DIETHANOLAMINE   | 111422   | 0.00E+00 |  |
| p-DIMETHYLAMINOAZOBENZENE                                | 60117    | 0.00E+00 |  |
| N,N-DIMETHYL FORMAMIDE                                   | 68122    | 0.00E+00 |  |
| 2,4-DINITROTOLUENE                                       | 121142   | 0.00E+00 |  |
| 1,4-DIOXANE (1,4-Diethylene dioxide)                     | 123911   | 0.00E+00 |  |
|  |          |          |  |
| EPICHLOROHYDRIN (1-Chloro-2,3-epoxypropane)              | 106898   | 0.00E+00 |  |
| 1,2-EPOXYBUTANE  | 106887   | 0.00E+00 |  |
| ETHYL BENZENE  | 100414   | 0.00E+00 |  |
| ETHYL CHLORIDE (Chloroethane)                            | 75003    | 0.00E+00 |  |
| ETHYLENE DIBROMIDE (1,2-Dibromoethane)                   | 106934   | 0.00E+00 |  |
| ETHYLENE DICHLORIDE (1,2-Dichloroethane)                 | 107062   | 0.00E+00 |  |
| ETHYLENE GLYCOL  | 107211   | 0.00E+00 |  |
| ETHYLENE OXIDE (1,2-Epoxyethane)                         | 75218    | 0.00E+00 |  |
|  |          |          |  |
| ETHYLENE THIOUREA  | 96457    | 0.00E+00 |  |
| Fluorides  | 1101     | 0.00E+00 |  |
| HYDROGEN FLUORIDE (Hydrofluoric acid)                    | 7664393  | 0.00E+00 |  |
| FORMALDEHYDE   | 50000    | 0.00E+00 |  |
| GLUTARALDEHYDE   | 111308   | 0.00E+00 |  |
| GLYCOL ETHERS  | 107211   | 0.00E+00 |  |
| ETHYLENE GLYCOL BUTYL ETHER – EGBE                       | 111762   | 0.00E+00 |  |
|  | 110805   | 0.00E+00 |  |
| ETHYLENE GLYCOL ETHYL ETHER – EGEE 1                     | 111159   |          |  |
| ETHYLENE GLYCOL ETHYL ETHER ACETATE - EGEEA              |          | 0.00E+00 |  |
| ETHYLENE GLYCOL METHYL ETHER – EGME <sup>1</sup>         | 109864   | 0.00E+00 |  |
| ETHYLENE GLYCOL METHYL ETHER ACETATE – EGMEA             | 110496   | 0.00E+00 |  |
| HEXACHLOROBENZENE  | 118741   | 0.00E+00 |  |
| HEXACHLOROCYCLOHEXANES (mixed or technical grade)        | 608731   | 0.00E+00 |  |
| alpha-HEXACHLOROCYCLOHEXANE                              | 319846   | 0.00F+00 |  |
| beta- HEXACHI OROCYCI OHEXANE                            | 319857   | 0.00F+00 |  |
|  | 58899    | 0.00E+00 |  |
| gamma-HEXACHLOROCYCLOHEXANE (Lindane)                    |          | 0.000    |  |
| n-HEXANE   | 110543   | 0.00E+00 |  |
| HYDRAZINE  | 302012   | 0.00E+00 |  |
| HYDROCHLORIC ACID (Hydrogen chloride)                    | 7647010  | 0.00E+00 |  |
| HYDROGEN SULFIDE   | 7783064  | 0.00E+00 |  |
| ISOPHORONE   | 78591    | 0.00E+00 |  |
| ISOPROPYL ALCOHOL (Isopropanol)                          | 67630    | 0.00E+00 |  |
| LEAD AND COMPOUNDS 2.4 (inorganic) values also apply to: | 7439921  | 0.00E+00 |  |
|  | 301042   | 0.00E+00 |  |
| Lead acetate <sup>2</sup>                                |          |          |  |
| Lead phosphate <sup>2</sup>                              | 7446277  | 0.00E+00 |  |
| Lead subacetate <sup>2</sup>                             | 1335326  | 0.00E+00 |  |
| LINDANE [see gamma-Hexachlorocyclohexanes]               | 58899    | 0.00E+00 |  |
| MALEIC ANHYDRIDE   | 108316   | 0.00E+00 |  |
| MANGANESE AND COMPOUNDS                                  | 7439965  | 0.00E+00 |  |
| MERCURY AND COMPOUNDS (INORGANIC)                        | 7439976  | 0.00E+00 |  |
| Mercuric chloride  | 7487947  | 0.00E+00 |  |
| METHANOL   | 67561    | 0.00E+00 |  |
| METHYL BROMIDE (Bromomethane)                            | 74839    | 0.00E+00 |  |
|  | 1634044  |          |  |
| METHYL tertiary-BUTYL ETHER                              |          | 0.00E+00 |  |
| METHYL CHLOROFORM (1,1,1-Trichloroethane)                | 71556    | 0.00E+00 |  |
| METHYL ETHYL KETONE (2-Butanone)                         | 78933    | 0.00E+00 |  |
| METHYL ISOCYANATE  | 624839   | 0.00E+00 |  |
| 4,4'-METHYLENE BIS (2-CHLOROANILINE) (MOCA)              | 101144   | 0.00E+00 |  |
| METHYLENE CHLORIDE (Dichloromethane)                     | 75092    | 0.00E+00 |  |
| 4,4'-METHYLENE DIANILINE (AND ITS DICHLORIDE)            | 101779   | 0.00E+00 |  |
| METHYLENE DIPHENYL ISOCYANATE                            | 101688   | 0.00E+00 |  |
|  | 90948    | 0.00E+00 |  |
| MICHLER'S KETONE (4,4'-Bis(dimethylamino)benzophenone)   |          |          |  |
| N-NITROSODI-n-BUTYLAMINE                                 | 924163   | 0.00E+00 |  |
| N-NITROSODI-n-PROPYLAMINE                                | 621647   | 0.00E+00 |  |
| N-NITROSODIETHYLAMINE                                    | 55185    | 0.00E+00 |  |
| N-NITROSODIMETHYLAMINE                                   | 62759    | 0.00E+00 |  |
| N-NITROSODIPHENYLAMINE                                   | 86306    | 0.00E+00 |  |
| N-NITROSO-N-METHYLETHYLAMINE                             | 10595956 | 0.00E+00 |  |
| N-NITROSOMORPHOLINE                                      | 59892    | 0.00E+00 |  |
|  | 100754   | 0.00E+00 |  |
| N-NITROSOPIPERIDINE                                      |          |          |  |
| N-NITROSOPYRROLIDINE                                     | 930552   | 0.00E+00 |  |
|  |          |          |  |

| NICEL AND COMPOUNDS* (values also apply to) 7440020 Nickel archanate* 333024 0.00E-00 Nickel archanate* 333024 0.00E-00 Nickel Archanate* 333027 0.00E-00 Nickel Archanate* 3330   | NAPTHALENE [see Polycylcic aromatic hydrocarbons]         | 91203   | 0.00E+00 |          |          |   |
|--|---|---------|----------|----------|----------|---|
| Nickel antibonate   3333873   0.00E-00   | NICKEL AND COMPOUNDS <sup>2</sup> (values also apply to:) | 7440020 | 0.00E+00 |          |          |   |
| NICKEI ORDONE   1346399   0.00E-00   NICKEI ORDONE   131600   NICKEI ORDONE   131399   0.00E-00   NICKEI ORDONE   131500   0.00E-00   NICK   |   |         |          |          |          | <u> </u>                                |
| NECEI PHOTOGRAP  NICKEL OYIDE*  NICK   | Nickel carbonate <sup>2</sup>                             |         | 0.00E+00 |          |          |   |
| NICKEL COMD®   1313991   | Nickel carbonyl <sup>2</sup>                              |         |          |          |          | 3////////////////////////////////////// |
| MICHEL DODG  |   |         |          |          |          |   |
| Macked substitution  |   |         |          |          |          |   |
| NICHE SALD 19 1000   10   | NICKEL OXIDE <sup>2</sup>                                 |         |          |          |          |   |
| NITRIGACRIO 100240 0.00E+0.0 0.00E+0   |   |         |          |          |          |   |
| NITROSOPHENYMANNE   155105   0.00E+00  |   |         |          |          |          |   |
| DATE  |   |         |          |          |          |   |
| DOZNE   10028156   D.00E+00   PARTICLATE RESIDES   PERCHLOROETHYLENE (Tetrachloroethylene)   127184   D.00E+00   PHOSCENE   77845   D.00E+00   PHOSCENE   T.00E+00   PHOSCENE   PHOSCENE   T.00E+00   PHOSCENE   |   |         |          |          |          |   |
| PARTICULATE EMISONS FROM DISSEL PLEIDE NEMBERS 85105 4.005-02 5.658-03 1.516-02 PERCHLOROCETHYLENE (Tetrachlorocethylene) 127184 0.005-00 PHOSEPRE PERCHLOROCETHYLENE (Tetrachlorocethylene) 129552 0.005-00 PHOSEPRE 7545 PHOS   |   |         |          |          |          |   |
| PERCHLOROETHYLENE (Tetrachloroethylene) 127844 PHENDIC   0.00E+00   127845   0.00E+00   0.00E+   |   |         |          | F 62F-04 | 4 545 03 |   |
| PHENDIC  PHOSPHINE  7545  PHOSPHINE  7545  0.00E+00  PHOSPHINE  764382  0.00E+00  PHOTHORIC ACID  764382  0.00E+00  PHITHALIC ANHYDRIDE  85449  0.00E+00  PHITHALIC ANHYDRIDE  85449  0.00E+00  PHITHALIC ANHYDRIDE  85449  0.00E+00  POUCHLORINATED BIENZO-P-DIOXINS (PCDD)  (Treated as 2,3,7,8-TCDD for HRA) <sup>2,7</sup> POLYCHLORINATED DIENZO-P-DIOXINS (PCDD)  (Treated as 2,3,7,8-TCDD for HRA) <sup>2,7</sup> POLYCHLORINATED DIENZO-P-DIOXINS (PCDD)  (Treated as 2,3,7,8-TCDD for HRA) <sup>2,7</sup> POLYCHLORINATED DIENZO-P-DIOXINS (PCDD)  (Treated as 2,3,7,8-TCDD for HRA) <sup>2,7</sup> POLYCHLORINATED DIENZO-P-DIOXINS (PCDD)  (Treated as 2,3,7,8-TCDD for HRA) <sup>2,7</sup> POLYCHLORINATED DIENZO-P-DIOXINS (PCDD)  (Treated as 2,3,7,8-TCDD for HRA) <sup>2,7</sup> POLYCHLORINATED DIENZO-P-DIOXINS (PCDD)  (Treated as 2,3,7,8-TCDD for HRA) <sup>2,7</sup> POLYCHLORINATED DIENZO-P-DIOXINS (PCDD)  (Treated as 2,3,7,8-TCDD for HRA) <sup>2,7</sup> POLYCHLORINATED DIENZO-P-DIOXINS (PCDD)  (Treated as 2,3,7,8-TCDD for HRA) <sup>2,7</sup> POLYCHLORINATED DIENZO-P-DIOXINS (PCDD)  (Treated as 2,3,7,8-TCDD for HRA) <sup>2,7</sup> POLYCHLORINATED DIENZO-P-DIOXINS (PCDD)  (Treated as 2,3,7,8-TCDD for HRA) <sup>2,7</sup> POLYCHLORINATED DIENZO-P-DIOXINS (PCDD)  (Treated as 2,3,7,8-TCDD for HRA) <sup>2,7</sup> POLYCHLORINATED DIENZO-P-DIOXINS (PCDD)  (Treated as 2,3,7,8-TCDD for HRA) <sup>2,7</sup> POLYCHLORINATED DIENZO-P-DIOXINS (PCDD)  (Treated as 2,3,7,8-TCDD for HRA) <sup>2,7</sup> POLYCHLORINATED DIENZO-P-DIOXINS (PCDD)  POLYCHO DIENZO-P-DIOXINS (PCDD)  P |   |         |          | 5.055701 | 1.516-02 |   |
| PHOSPHINE 7845 0.00E+00 PHOSPHORE ACID 7664382 0.00E+00 PHOSPHORE ACID 7664382 0.00E+00 PHOSPHORE ACID 7664382 0.00E+00 PHITHALIC ANHYDRIDE 85449 0.00E+00 PHITHALIC ANHYDRIDE 85449 0.00E+00 PCCB (POLYCHLORINATED BIPHENYLS) 1336363 0.00E+00 POLYCHLORINATED DIBENZOPLICANS (PCDD) (Treated as 2, 3, 7, 8-TCDD for HRA) 2, 7 POLYCHLORINATED DIBENZOPLICANS (PCDD) (Treated as 2, 3, 7, 8-TCDD for HRA) 2, 7 POLYCHLORINATED DIBENZOPLICANS (PCDF) (Treated as 2, 3, 7, 8-TCDD for HRA) 2, 7 POLYCHLORINATED DIBENZOPLICANS (PCDF) (Treated as 2, 3, 7, 8-TCDD for HRA) 2, 7 POLYCHLORINATED DIBENZOPLICANS (PCDF) (Treated as 2, 3, 7, 8-TCDD for HRA) 2, 7 POLYCHLORINATED DIBENZOPLICANS (PCDF) (Treated as 2, 3, 7, 8-TCDD for HRA) 2, 7 POLYCHLORINATED DIBENZOPLICANS (PCDF) (Treated as 2, 3, 7, 8-TCDD for HRA) 2, 7 POLYCHLORINATED DIBENZOPLICANS (PCDF) (Treated as 2, 3, 7, 8-TCDD for HRA) 2, 7 POLYCHLORINATED DIBENZOPLICANS (PCDF) (Treated as 2, 3, 7, 8-TCDD for HRA) 2, 7 POLYCHLORINATED DIBENZOPLICANS (PCDF) (Treated as 2, 3, 7, 8-TCDD for HRA) 2, 7 POLYCHLORINATED DIBENZOPLICANS (PCDF) (Treated as 2, 3, 7, 8-TCDD for HRA) 2, 7 POLYCHLORINATED DIBENZOPLICANS (PCDF) (Treated as 2, 3, 7, 8-TCDD for HRA) 2, 7 POLYCHLORINATED DIBENZOPLICANS (PCDF) (Treated as 2, 3, 7, 8-TCDD for HRA) 2, 7 POLYCHLORINATED DIBENZOPLICANS (PCDF) (Treated as 2, 3, 7, 8-TCDD for HRA) 2, 7 POLYCHLORINATED DIBENZOPLICANS (PCDF) (TREATED SELECTION DIBENZOPLICANS   |   |         |          |          |          |   |
| PHOSPHORIC ACID PHOSPHORIC ACID 7664382 0.00E+00 PHITALIC ANHYDRIDE 85449 0.00E+00 PHITALIC ANHYDRIDE 85449 0.00E+00 PCIVEHLORINATED DIBENZO-P-DIOXINS (PCDD) T(Treated as 2, 3, 78-TCDD for HRA) 27 POLYCHLORINATED DIBENZO-P-DIOXINS (PCDD) T(Treated as 2, 3, 78-TCDD for HRA) 27 POLYCHLORINATED DIBENZO-P-DIOXINS (PCDD) T(Treated as 2, 3, 78-TCDD for HRA) 27 POLYCHLORINATED DIBENZO-P-DIOXINS (PCDD) T(Treated as 2, 3, 78-TCDD for HRA) 27 POLYCHLORINATED DIBENZO-P-DIOXINS (PCDD) T(Treated as 2, 3, 78-TCDD for HRA) 27 POLYCHLORINATED DIBENZO-P-DIOXINS (PCDD) T(Treated as 2, 3, 78-TCDD for HRA) 27 POLYCHLORINATED DIBENZO-P-DIOXINS (PCDD) T(Treated as 2, 3, 78-TCDD for HRA) 27 POLYCHLORINATED DIBENZO-P-DIOXINS (PCDD) T(Treated as 2, 3, 78-TCDD for HRA) 27 POLYCHLORINATED DIBENZO-P-DIOXINS (PCDD) POLYCHLORINATED DI   |   |         |          |          |          |   |
| PHOSPHORIC ACID  PHTHALIC ANHYDRIDE  85449  0.00E+00  PHTHALIC ANHYDRIDE  85449  0.00E+00  POLYCHLORINATED BIPHENYLS)  1336363  0.00E+00  POLYCHLORINATED DIBERZO-P-DIOXINS (PCDD) (Treated as 2,37,8-TCDD for HRA) 27  POLYCHLORINATED DIBERZO-P-DIOXINS (PCDD) (Treated as 2,37,8-TCDD for HRA) 27  POLYCHLORINATED DIBERZO-PRANS (PCDF) (Treated as 2,37,8-TCDD for HRA) 2,7  POLYCHLORINATED DIBERZO-PRANS (PCDF) (Treated as 2,37,8-TCDD for HRA) 2,7  POLYCHLORINATED DIBERZO-PRANS (PCDF) (Treated as 2,37,8-TCDD for HRA) 2,7  POLYCHLORINATED DIBERZO-PRANS (PCDF) (Treated as 2,37,8-TCDD for HRA) 2,7  POLYCHLORINATED DIBERZO-PRANS (PCDF) (Treated as 2,37,8-TCDD for HRA) 2,7  POLYCHLORINATED DIBERZO-PRANS (PCDF) (Treated as 2,37,8-TCDD for HRA) 2,7  POLYCHLORINATED DIBERZO-PRANS (PCDF) (Treated as 2,37,8-TCDD for HRA) 2,7  POLYCHLORINATED DIBERZO-PRANS (PCDF) (Treated as 2,37,8-TCDD for HRA) 2,7  POLYCHLORINATED DIBERZO-PRANS (PCDF) (Treated as 2,37,8-TCDD for HRA) 2,7  POLYCHLORINATED DIBERZO-PRANS (PCDF) (Treated as 2,37,8-TCDD for HRA) 2,7  POLYCHLORINATED DIBERZO-PRANS (PCDF) (Treated as 2,37,8-TCDD for HRA) 2,7  POLYCHLORINATED DIBERZO-PRANS (PCDF) (TREATED AS 0.00E+00  POLYCHORINATED DIBERZO-PRANS (PCDF) (TREATED AS 0.00E+00  PROPYLENE (PROPENE) (TREATED AS 0.00E+00  PROPYLENE (PCDF) (TREATED A   |   |         |          |          |          |   |
| PITHALIC ANHYDRIDE  RES (POLYCHLORINATED BIPHENYLS)  1336363  0.00E+00  POLYCHLORINATED DIBENZO-P-DIDXINS (PCDD)  (Treated as 2, 3, 78-TCDD for HAA) 27  POLYCHLORINATED DIBENZO-PURANS (PCDD)  (Treated as 2, 3, 78-TCDD for HAA) 27  POLYCHLORINATED DIBENZO-PURANS (PCDD)  (Treated as 2, 3, 78-TCDD for HAA) 27  POLYCHLORINATED DIBENZO-PURANS (PCDD)  (Treated as 2, 3, 78-TCDD for HAA) 27  POLYCHLORINATED DIBENZO-PURANS (PCDD)  (Treated as 2, 3, 78-TCDD for HAA) 27  POLYCHLORINATED DIBENZO-PURANS (PCDD)  (Treated as 2, 3, 78-TCDD for HAA) 27  POLYCHLORINATED DIBENZO-PURANS (PCDD)  (Treated as 2, 3, 78-TCDD for HAA) 27  POLYCHLORINATED DIBENZO-PURANS (PCDD)  (Treated as 2, 3, 78-TCDD for HAA) 27  POLYCHLORINATED DIBENZO-PURANS (PCDD)  (Treated as 2, 3, 78-TCDD for HAA) 27  POLYCHLORINATED DIBENZO-PURANS (PCDD)  (Treated as 2, 3, 78-TCDD for HAA) 27  POLYCHLORINATED DIBENZO-PURANS (PCDD)  (Treated as 2, 3, 78-TCDD for HAA) 27  POLYCHLORINATED BIPENZO-PURANS (PCDD)  (Treated as 2, 3, 78-TCDD for HAA) 27  POLYCHLORINATED BIPENZO-PURANS (PCDD)  (Treated as 2, 3, 78-TCDD for HAA) 27  POLYCHLORINATED BIPENZO-PURANS (PCDD)  (Treated as 2, 3, 78-TCDD for HAA) 27  POLYCHLORINATED BIPENZO-PURANS (PCDD)  (Treated as 2, 3, 78-TCDD for HAA) 27  (Treated as 2, 3, 78-   |   | 7664382 |          |          |          |   |
| P.C.B (POLYCHLORINATED BIBHENYLS) POLYCHLORINATED DIBENZO-P-DIOXINS (PCDD) (Treated as 2, 3, 7,8-TCDD for HRA) 27 POLYCHLORINATED DIBENZO-P-DIOXINS (PCDD) (Treated as 2, 3, 7,8-TCDD for HRA) 27 POLYCHLORINATED DIBENZO-PURANS (PCDF) (Treated as 2, 3, 7,8-TCDD for HRA) 2,7 POLYCHLORINATED DIBENZO-PURANS (PCDF) (Treated as 2, 3, 7,8-TCDD for HRA) 2,7 POLYCHLORINATED DIBENZO-PURANS (PDR) 45 POLYCHLORINATED DIBENZO-PURANS (PCDF) (Treated as 2, 3, 7,8-TCDD for HRA) 2,7 POLYCHLORINATED DIBENZO-PURANS (PCDF) (Treated as 2, 3, 7,8-TCDD for HRA) 2,7 POLYCHLORINATED DIBENZO-PURANS (PDR) 45 POLYCHLORINA (PDR) 45 POLYCHLORI   |   |         |          |          |          |   |
| POLYCHLORINATED DIBENZO-P-DIOXINS (PCDD)   Treated as 2,3,7,8-TCDD for HRA) <sup>2,7</sup>   POLYCHLORINATED DIBENZOFURANS (PCDF)   Treated as 2,3,7,8-TCDD for HRA) 2,7   POLYCHLORINATED DIBENZOFURANS (PCDF)   Treated as 2,3,7,8-TCDD for HRA) 2,7   POLYCHLORINATED DIBENZOFURANS (PCDF)   Treated as 2,3,7,8-TCDD for HRA) 2,7   POLYCHLORINATED DIBENZOFURANS (PCDF)   Treated as 2,3,7,8-TCDD for HRA) 2,7   POLYCHLORINATED DIBENZOFURANS (PCDF)   Treated as 2,3,7,8-TCDD for HRA) 2,7   POLYCHLORINATED DIBENZOFURANS (PCDF)   POLYCHLORINATED DIBENZOFURANS (PCDF)   POLYCHLORINATED DIBENZOFURANS (PCDF)   POLYCHLORINATED DIBENZOFURANS (PCDF)   Treated as 2,3,7,8-TCDD for HRA) 2,7   POLYCHLORINATED DIBENZOFURANS (PCDF)   POLYCHLORINATED DIBENZOFURANS (PCDF)   POLYCHLORINATED DIBENZOFURANS (PCDF)   POLYCHLORINATED DIBENZOFURANS (PCDF)   PROPYLENE CLYCOL MONOMETHYL ETHER 107982   |   |         |          |          |          |   |
| Treated as 2, 3, 7,8-TCDD for HRA) 27  | PCB (POLYCHLORINATED BIPHENYLS)                           | 1336363 | 0.00E+00 |          |          |   |
| Treated as 2,37,8-FCDD for HRA] 2,7  |   | 1746016 | 0.00E+00 |          |          |   |
| NAPHTHALENE POTASSIUM BROMATE 7759012 0.00E+00 0   | (Treated as 2,3,7,8-TCDD for HRA) 2,7                     |         |          |          |          |   |
| POTASIUM BROMATE 1,3-PROPANE SULTONE 1120714 0.00E+00 PROPYLENE (PROPENE) 115071 0.00E+00 PROPYLENE GIYCOL MONOMETHYL ETHER 107982 0.00E+00 PROPYLENE GIYCOL MONOMETHYL ETHER 107982 0.00E+00 PROPYLENE GIYCOL MONOMETHYL ETHER 107982 0.00E+00 PROPYLENE GIYCOL MONOMETHYL ETHER 107569 0.00E+00 SELENIUM AND COMPOUNDS 7782492 0.00E+00 SELENIUM AND COMPOUNDS 7783075 0.00E+00 SELENIUM SULTIMER (Respirable) 7631869 0.00E+00 SILICA (Crystalline, Respirable) 1310732 0.00E+00 SILICA (Crystalline, Respirable) 1310732 0.00E+00 SULFUR ENDINGIDE 1310732 0.00E+00 SULFUR BIOMIDE 7446095 SULFUR RICKIDE 746499 0.00E+00 SULFUR RICKIDE 746419 0.00E+00 SULFUR RICKIDE 746419 0.00E+00 SULFUR RICKIDE 7446719 0.00E+00 SULFUR RICKIDE 7446719 0.00E+00 SULFUR RICKIDE 7446719 0.00E+00 THIOACETAMIDE 62555 0.00E+00 TOLUENE 108833 0.00E+00 TOLUENE 108833 0.00E+00 TOLUENE-2,4-DISOCYANATE 191087 10LUENE-2,4-DISOCYANATE 191087 10LUENE-2,4-DISOCYANATE 191087 10LUENE-2,6-DISOCYANATE 10LUENE 10LUENE-2,6-DISOCYANATE 10LUENE 10LU   |   |         |          |          |          |   |
| 1,3-PROPANE SULTONE 1120714 0.00E+00 PROPYLENE (PROPENE) 115071 0.00E+00 PROPYLENE GLYCOL MONOMETHYL ETHER 107982 0.00E+00 PROPYLENE GLYCOL MONOMETHYL ETHER 107982 0.00E+00 SELENIUM AND COMPOUNDS 7782492 0.00E+00 0.00E+00 SELENIUM AND COMPOUNDS 7782492 0.00E+00 0.00E+00 SILICA (Crystalline, Respirable) 7631869 0.00E+00 SILICA (Crystalline, Respirable) 7631869 0.00E+00 SILICA (Crystalline, Respirable) 7631869 0.00E+00 SILICA (Crystalline, Respirable) 1310732 0.00E+00 SULFUR ROXIDE 1310732 0.00E+00 SULFUR ROXIDE 14095 0.00E+00 SULFUR ROXIDE 7446995 0.00E+00 SULFUR RIOXIDE 7446995 0.00E+00 SULFUR RIOXIDE 7446719 0.00E+00 SULFUR RIOXIDE 7446719 0.00E+00 1,1,2,2-TETRACHLOROETHANE 79345 0.00E+00 TOLUENE 108883 0.00E+00 TOLUENE 108883 0.00E+00 TOLUENE 108883 0.00E+00 TOLUENE 108883 0.00E+00 TOLUENE-2,4-DISOCYANATE 191087 0.00E+00 1,1,2-TRICHLOROETHANE (Vinyl trichloride) 19005 1,1,2-TRICHLOROETHANE (Vinyl trichloride) 191087 0.00E+00 TRICHLOROETHANE (Vinyl trichloride) 119087 1100E+00 1110E+00E+00E+00E+00E+00E+00E+00E+00E+00  |   |         |          |          |          |   |
| PROPYLENE (PROPENE) 115071 PROPYLENE GLYCOL MONOMETHYL ETHER 107982 0.00E+00 PROPYLENE GLYCOL MONOMETHYL ETHER 107982 0.00E+00 SELENLUM AND COMPOUNDS 7782492 0.00E+00 PYDROGEN SELENIDE 7783075 0.00E+00 PYDROGEN SELENIDE 7783075 0.00E+00 SILICIA (Crystalline, Respirable) 17831899 0.00E+00 SODIUM HYDROXIDE 1310722 0.00E+00 SODIUM HYDROXIDE 1310722 0.00E+00 SULFUR DIXIDE 100425 0.00E+00 SULFUR DIXIDE 100425 0.00E+00 SULFUR DIXIDE 100405 SULFUR RIXIDE 100405 SULFUR RIXIDE 100406 SULFUR RIXIDE 100406 11,12,2-TETRACHLOROETHANE 100883 0.00E+00 TOLUENE 101883 0.00E+00 TOLUENE 1018883 0.00E+00 TOLUENE 1018883 0.00E+00 TOLUENE-2,4-DISOCYANATE 10180F-2,4-DISOCYANATE 10180F-2,4-DISOCYANATE 10180F-1   |   |         |          |          |          |   |
| PROPYLENE GLYCOL MONOMETHYL ETHER 107982 0.00E+00 PROPYLENE CAIDE 75569 0.00E+00 SELENIUM AND COMPOUNDS 7782492 0.00E+00 SELENIUM AND COMPOUNDS 7782492 0.00E+00 SELENIUM SURFACE 7783075 0.00E+00 SELENIUM SURFACE 7783075 0.00E+00 SELENIUM SURFACE 7783075 0.00E+00 SILICA (Crystalline, Respirable) 7631869 0.00E+00 SODIUM HYDROXIDE 1310732 0.00E+00 SULFATES 9960 0.00E+00 SULFATES 9960 0.00E+00 SULFATES 9960 0.00E+00 SULFUR RIOXIDE 7446995 0.00E+00 SULFUR RIOXIDE 7446995 0.00E+00 SULFUR RIOXIDE 746999 0.00E+00 SULFUR RIOXIDE 746999 0.00E+00 SULFUR RIOXIDE 746719 0.00E+00 SULFUR RIOXIDE 7467162 0.00E+00 SULFUR RIOXIDE 108883 0.00E+00 SULFUR RIOXIDE 108883 0.00E+00 SULFUR RIOXIDE 74671625 0.00E+00 SULFUR RIOXIDE 74671625 0.00E+00 SULFUR RIOXIDE 74671625 0.00E+00 SULFUR RIOXIDE 74671625 0.00E+00 SULFUR RIOXIDE 746022 0.00E+00 SULFUR RIOXIDE 746022 0.00E+00 SULFUR RIOXIDE 746022 0.00E+00 SULFUR RIOXIDE 1314621 0.00E+00 SULFUR RIOXID   |   |         |          |          |          |   |
| PROPYLENE OXIDE 75559 0.00E+00  SELENLIM AND COMPOUNDS 7782492 0.00E+00  HYDROGEN SELENIDE 7783975 0.00E+00  Selenium sulfide 7446346 0.00E+00  SILICA (Crystalline, Respirable) 7631869 0.00E+00  SILICA (Crystalline, Respirable) 7631869 0.00E+00  SILICA (Crystalline, Respirable) 7631869 0.00E+00  SILICA (Crystalline, Respirable) 1310732 0.00E+00  SILICA (Crystalline, Respirable) 1310732 0.00E+00  SULFUR PROXIDE 1310732 0.00E+00  SULFUR RICKALD 744695 0.00E+00  SULFUR RICKALD 744695 0.00E+00  SULFUR RICKALD 7664939 0.00E+00  SULFUR RICKALD 7446719 0.00E+00  SULFUR RICKALD 7446719 0.00E+00  SULFUR RICKALD 7446719 0.00E+00  TALICA_TERRACHLOROETHANE 79345 0.00E+00  TOLUEN 1018683 0.00E+00  TOLUENE 108883 0.00E+00  TOLUENE 108883 0.00E+00  TOLUENE 2,6-DISOCYANATE 584849 0.00E+00  TOLUENE-2,6-DISOCYANATE 91087 0.00E+00  TOLUENE-2,6-DISOCYANATE 91087 0.00E+00  TRICHLOROETHANE (Vinyl trichloride) 79005 0.00E+00  TRICHLOROETHANE (Vinyl trichloride) 79005 0.00E+00  TRICHLOROETHANE (SINYL TERRACH 7446622 0.00E+00  VANADIUM PENTOXIDE 1314621 0.00E+00  VANADIUM PENTOXIDE 1314621 0.00E+00  VANADIUM PENTOXIDE 1314621 0.00E+00  VANADIUM PENTOXIDE 1314621 0.00E+00  VINYL CHORIDE (Chloroethylene) 75014 0.00E+00  VINYLENE (SINXE isomers) 13000F+00  VINYLENE (SINXE isomers) 13000F+0   | . ,   |         |          |          |          |   |
| SELENIUM AND COMPOUNDS   7782492   0.00E+00     HYDROGEN SELENIDE   7783075   0.00E+00     SECIENTIME   7446346   0.00E+00     SILCEA (Crystalline, Respirable)   7631869   0.00E+00     SODIUM HYDROXIDE   1310732   0.00E+00     STYRENE   100425   0.00E+00     SULFUR DIXIDE   1310732   0.00E+00     SULFUR DIXIDE   100425   0.00E+00     SULFUR DIXIDE   7446095   0.00E+00     SULFUR RICKIDE   7664939   0.00E+00     SULFUR RICKIDE   7446719   0.00E+00     SULFUR RICKIDE   7446719   0.00E+00     SULFUR RICKIDE   7446719   0.00E+00     THICACETAMIDE   79345   0.00E+00     TOLUENE   108883   0.00E+00     TOLUENE   108883   0.00E+00     TOLUENE   108883   0.00E+00     TOLUENE-2,4-DISOCYANATE   91087   0.00E+00     TOLUENE-2,4-DISOCYANATE   91087   0.00E+00     TOLUENE-2,4-DISOCYANATE   91087   0.00E+00     1,1,2-TRICHLOROETHYLENE   79016   0.00E+00     TRICHLOROETHYLENE   79016   0.00E+00     TRICHLOROETHYLENE   121448   0.00E+00     URETHANE (Ethyl carbamate)   51796   0.00E+00     Vanadium Compounds   7440622   0.00E+00     VANADIUM PENTOXIDE   131421   0.00E+00     VANADIUM PENTOXIDE   131421   0.00E+00     VINYL CHORIDE (Chloroethylene)   75014   0.00E+00     VINYL CHORIDE (Chloroethylene)   75014   0.00E+00     VINYL CHORIDE (Chloroethylene)   75014   0.00E+00     VXYLENES (mixed isomers)   130207   0.00E+00     VXYLENES (mixed isomers)   130207   0.00E+00     VXYLENES (mixed isomers)  |   |         |          |          |          |   |
| #YDROGEN SELENIDE 7783075 0.00E+00 Selenium sulfide 7446346 0.00E+00 SILICA (Crystalline, Respirable) 7631869 0.00E+00 SODIUM HYDROXIDE 1310732 0.00E+00 STYRENE 100425 0.00E+00 SULFURE 19960 0.00E+00 SULFURE ON ONE+00 THIOACETAMIDE 7446739 0.00E+00 THIOACETAMIDE 62555 0.00E+00 TOLUENE 108883 0.00E+00 TOLUENE 108883 0.00E+00 TOLUENE 108883 0.00E+00 TOLUENE-2,4-DISOCYANATE 584849 0.00E+00 TOLUENE-2,6-DISOCYANATE 91087 0.00E+00 TICHUENE-2,6-DISOCYANATE 91087 0.00E+00 TRICHURORETHYLENE 79016 0.00E+00 TRICHURORETHYLENE 79016 0.00E+00 TRICHURORETHYLENE 121448 0.00E+00 URETHANE (Ethyl carbamate) 51796 0.00E+00 Vanadium (mum or dust) 7440622 0.00E+00 Vanadium Compounds 7440622 0.00E+00 Vanadium Compounds 7440622 0.00E+00 VANADIUM PENTOXIDE 1314621 0.00E+00 VANADIUM PENTOXIDE 1514621 0.00E+00 VINYL CHUROIDE (Chloroethylene) 75514 0.00E+00 VINYL CHUROIDE (Chloroethylene) 75514 0.00E+00 VINYL CHUROIDE (Chloroethylene) 75514 0.00E+00 VXYLENE 95476 0.00E+00 VXYLENE 95476 0.00E+00  **XYLENE**  |   |         |          |          |          |   |
| Selenium sulfide         7446346         0.00E+00           SILCA (Crystalline, Respirable)         7631869         0.00E+00           SODIUM HYPROXIDE         1310732         0.00E+00           STYRENE         100425         0.00E+00           SULFUR SUDIONDE         7446095         0.00E+00           SULFUR DIXIDE         7446095         0.00E+00           SULFUR TRICXIDE         7464939         0.00E+00           SULFUR TRICXIDE         7446719         0.00E+00           SULFUR TRICXIDE         7446719         0.00E+00           1,1,2,2-TETRACHLOROETHANE         79345         0.00E+00           1,1,2,2-TETRACHLOROETHANE         79345         0.00E+00           TOLUENE         108883         0.00E+00           TOLUENE         108883         0.00E+00           TOLUENE-2,6-DISOCYANATE         584849         0.00E+00           TOLUENE-2,6-DISOCYANATE         584849         0.00E+00           TIRICHLORETHANE (Vinyl trichloride)         79005         0.00E+00           TRICHLORETHANE (Vinyl trichloride)         79005         0.00E+00           TRICHLORETHYLENE         79016         0.00E+00           Vanadium Compounds         7440622         0.00E+00           Vanadium C  |   | 7783075 |          |          |          |   |
| SILICA (Crystalline, Respirable)   7631869   0.00E+00  |   |         |          |          |          |   |
| SODIUM HYDROXIDE   1310732   0.00E+00  |   | 7631869 | 0.00E+00 |          |          |   |
| SULFATES         9960         0.00E+00           SULFURI DIOXIDE         7446095         0.00E+00           SULFURI CACID         7664939         0.00E+00           SULFURI TRIOXIDE         7446719         0.00E+00           OLEUM         8014957         0.00E+00           1,1,2,7=TERACHLOROETHANE         79345         0.00E+00           THIOACETAMIDE         62555         0.00E+00           TOLUENE         108883         0.00E+00           TOLUENE         584889         0.00E+00           TOLUENE-2,4-DISOCYANATE         91087         0.00E+00           TOLUENE-2,6-DISOCYANATE         91087         0.00E+00           TICHLOROETHANE (invipl trichloride)         7905         0.00E+00           TRICHLOROETHYLENE         79016         0.00E+00           TRICHLOROETHYLENE         7916         0.00E+00           URETHANE (Ethyl carbamate)         51796         0.00E+00           Vanadium Compounds         7440622         0.00E+00           Vanadium Compounds         7440622         0.00E+00           VANADIUM PENTOXIDE         1314621         0.00E+00           VINYL CHORIDE (Chloroethylene)         75014         0.00E+00           VINYLOENE (Chloroethylene) <td< th=""><th></th><th>1310732</th><th>0.00E+00</th><th></th><th></th><th></th></td<>  |   | 1310732 | 0.00E+00 |          |          |   |
| SULFUR DIOXIDE         7446095         0.00E+00           SULFUR RICK ACID         7664939         0.00E+00           SULFUR RICKIDE         7446719         0.00E+00           OLEUM         8014957         0.00E+00           1,1,2,7-ETERACHLOROETHANE         79345         0.00E+00           THIOLACETAMIDE         62555         0.00E+00           TOLUENE         108833         0.00E+00           TOLUENE 1,0-DISOCYANATE         584849         0.00E+00           TOLUENE-2,6-DIISOCYANATE         91087         0.00E+00           TICHLOROETHANE (Vinyl trichloride)         79005         0.00E+00           TRICHLOROETHANE (Vinyl trichloride)         79016         0.00E+00           TRICHLANE (Ethyl carbamate)         51796         0.00E+00           Vanadium Compounds         7440622         0.00E+00           Vanadium Compounds         7440622         0.00E+00           Vanadium Pentroxide         1314621         0.00E+00           VANADIUM PENTOXIDE         1314621         0.00E+00           VINYL CHLORIDE (Chloroethylene)         75014         0.00E+00           VINYL CHLORIDE (Chloroethylene)         75014         0.00E+00           VINVLOBER (MIXER IS   | STYRENE   | 100425  | 0.00E+00 |          |          |   |
| SULFURIC ACID         7664939         0.00E+00           SULFUR TRICXIDE         746719         0.00E+00           L1,2,2-TETRACHLOROETHANE         8014957         0.00E+00           1,12,2-TETRACHLOROETHANE         79345         0.00E+00           THIDACETAMIDE         62555         0.00E+00           TOLUENE         108883         0.00E+00           TOLUENE         584849         0.00E+00           TOLUENE-2,4-DIISOCYANATE         91087         0.00E+00           1,1,2-TRICHLOROETHANE (Vinyl trichloride)         79005         0.00E+00           TRICHLOROETHYLENE         79016         0.00E+00           TRICHLOROETHYLENE         79016         0.00E+00           URETHANE (Ethyl carbamate)         51796         0.00E+00           Vanadium Compounds         7440622         0.00E+00           Vanadium Compounds         7440622         0.00E+00           VANADIUM PENTOXIDE         1314621         0.00E+00           VINYL ACETATE         108054         0.00E+00           VINYL CHORIDE (Chioroethylene)         75014         0.00E+00           VINVLOENE CHLORIDE (1,1-Dichloroethylene)         75014         0.00E+00           VINVLOENE (Sinixed isomers)         1330207         0.00E+00   | SULFATES  | 9960    | 0.00E+00 |          |          |   |
| SULFUR TRIOXIDE         7446719         0.00E+00           OLEUM         8014957         0.00E+00           1,1,2,2-TERACHLOROETHANE         79345         0.00E+00           THIOACETAMIDE         62555         0.00E+00           TOLUENE         108883         0.00E+00           TOLUENE         26471625         0.00E+00           TOLUENE-2,4-DISOCYANATE         584849         0.00E+00           TOLUENE-2,6-DISOCYANATE         91087         0.00E+00           1,1,2-TRICHLOROETHANE (Vinyl trichloride)         7905         0.00E+00           TRICHLOROETHYLENE         79016         0.00E+00           URETHANNIE         112448         0.00E+00           URETHANE (Ethyl carbamate)         51796         0.00E+00           Vanadium Compounds         7440622         0.00E+00           Vanadium Fume or dust)         7440622         0.00E+00           VANADIUM PENTOXIDE         1314621         0.00E+00           VINYL ACETATE         108054         0.00E+00           VINYL CHORIDE (Chloroethylene)         75014         0.00E+00           VINYL CHORIDE (Chloroethylene)         75014         0.00E+00           VINYLOENE (INCREDE (L),1-Dichloroethylene)         75354         0.00E+00  | SULFUR DIOXIDE  | 7446095 | 0.00E+00 |          |          | <i></i>                                 |
| OLEUM         8014957         0.00E+00           1,1,2,2-TETRACHLOROETHANE         79345         0.00E+00           THIOLACETAMIDE         62555         0.00E+00           TOLUENE         108883         0.00E+00           TOLUENE 3,4-DISOCYANATE         584849         0.00E+00           TOLUENE-2,6-DISOCYANATE         91087         0.00E+00           TICHUENE-2,6-DISOCYANATE         91087         0.00E+00           TIRICHLOROETHANE (Vinyl trichloride)         79005         0.00E+00           TRICHLOROETHANE (Vinyl trichloride)         79016         0.00E+00           TRICHLOROETHANE (Elly) (arbamate)         5196         0.00E+00           Vanadium (Elly)         51976         0.00E+00           Vanadium Compounds         7440622         0.00E+00           Vanadium Compounds         7440622         0.00E+00           Vanadium Compounds         7440622         0.00E+00           Vanadium Pentroxide         1314621         0.00E+00           VINYL CELTATE         108054         0.00E+00           VINYL CHLORIDE (Chloroethylene)         75014         0.00E+00           VINYL CHLORIDE (L),1-Dichloroethylene)         75014         0.00E+00           VINYLOENE (MICROSIDE (L),1-Dichloroethylene)         75014<   |   |         |          |          |          |   |
| 1,1,2,2-TETRACHLOROETHANE 79345 0.00E+00 THIDACETAMIDE 62555 0.00E+00 TOLUENE 108883 0.00E+00 TOLUENE 108883 0.00E+00 TOLUENE 50-00E+00 TOLUENE-2,4-DISOCYANATE 584849 0.00E+00 TOLUENE-2,6-DISOCYANATE 91087 0.00E+00 1,1,2-TRICHLOROETHANE (Vinyl trichloride) 79005 0.00E+00 TRICHLOROETHYLENE 79016 0.00E+00 TRICHLOROETHYLENE 79016 0.00E+00 URETHANE (Ethyl carbamate) 51796 0.00E+00 Vanadium Compounds 7440622 0.00E+00 Vanadium Compounds 7440622 0.00E+00 VANADIUM PENTOXIDE 1314621 0.00E+00 VANADIUM PENTOXIDE 1314621 0.00E+00 VINYL CHORIDE (Chloroethylene) 75014 0.00E+00 VINYL CHORIDE (Chloroethylene) 75014 0.00E+00 VINYLOENE CHLORIDE (1,1-Dichloroethylene) 75014 0.00E+00 VINYLENES (mixed isomers) 1330207 0.00E+00 VYLENES (mixed isomers) 1330207 0.00E+00 VXYLENE 95476 0.00E+00  |   |         |          |          |          | <u> </u>                                |
| THIOACETAMIDE 62555 0.00E+00 TOLLUENE 10883 0.00E+00 TOLUENE 10883 0.00E+00 TOLUENE-2.4-DISOCYANATE 584849 0.00E+00 TOLUENE-2.6-DISOCYANATE 91087 0.00E+00 TOLUENE-2.6-DISOCYANATE 97005 0.00E+00 TILLIA-TRICHLOROETHANE (Vinyl trichloride) 79005 0.00E+00 TRICHLOROETHYLENE 7916 0.00E+00 TRICHLOROETHYLENE 121448 0.00E+00 URETHANE (Ethyl carbamate) 51796 0.00E+00 Vanadium Compounds 7440622 0.00E+00 Vanadium (Tume or dust) 7440622 0.00E+00 VANADIUM PENTOXIDE 1314621 0.00E+00 VINVL ACETATE 108054 0.00E+00 VINVL CHORIDE (Chloroethylene) 75014 0.00E+00 VINVL CHORIDE (Chloroethylene) 75014 0.00E+00 VINVL CHORIDE (L1,1-Dichloroethylene) 75354 0.00E+00 VINVLOENE (INDE (Shoroethylene) 75014 0.00E+00 VINVLOENE (INDE (Shoroethylene) 75354 0.00E+00 VINVLOENE (INDE (Shoroethylene) 75014 0.00E+00 VIVLOENE (INDE (Shoroethylene) 75014 0.00E+00   |   |         |          |          |          |   |
| TOLUENE   108883   0.00E+00   TOLUENE   26471625   0.00E+00   TOLUENE-2,4-DISOCYANATE   584849   0.00E+00   TOLUENE-2,6-DISOCYANATE   91087   0.00E+00   TOLUENE-2,6-DISOCYANATE   91087   0.00E+00   TOLUENE-2,6-DISOCYANATE   91087   0.00E+00   TRICHLOROETHANE (Vinyl trichloride)   79005   0.00E+00   TRICHLOROETHANE (Vinyl trichloride)   79016   0.00E+00   TRICHLOROETHANE (Ethyl carbamate)   51796   0.00E+00   TRICHLOROETHANE (Ethyl carbamate)   7440622   0.00E+00   TRICHLOROETHANE (ETHYL CARBAMATE)   744062   |   |         |          |          |          |   |
| Toluene diisocyantates 26471625 0.00E+00 TOLUENE-2,4-DIISOCYANATE 584849 0.00E+00 1,1,2-TRICHLOROETHANE (Vinyl trichloride) 79005 0.00E+00 1,1,2-TRICHLOROETHYLENE 79016 0.00E+00 TRICHLOROETHYLENE 79016 0.00E+00 TRICHLOROETHYLENE 121448 0.00E+00 URETHANE (Ethyl carbamate) 51796 0.00E+00 Vanadium Compounds 7440622 0.00E+00 Vanadium (Tume or dust) 7440622 0.00E+00 VANADIUM PRITOXIDE 1314621 0.00E+00 VINYL CALCIATE 108054 0.00E+00 VINYL CHORIDE (Chloroethylene) 75014 0.00E+00 VINYL CHORIDE (Chloroethylene) 75014 0.00E+00 VINYLOENE CHLORIDE (1,1-Dichloroethylene) 75354 0.00E+00 VINYLOENE (mixed isomers) 1330207 0.00E+00 VXYLENE 108833 0.00E+00 0.XYLENE 95476 0.00E+00   |   |         |          |          |          |   |
| TOLUENE-2,4-DISOCYANATE 584849 0.00E+00 TOLUENE-2,6-DISOCYANATE 91087 0.00E+00 1,1,2-TRICHLOROETHANE (Vinyl trichloride) 79005 0.00E+00 TRICHCHOROETHYLENE 79016 0.00E+00 URETHANE (Ethyl carbamate) 51796 0.00E+00 URETHANE (Ethyl carbamate) 51796 0.00E+00 Vanadium Compounds 7440622 0.00E+00 Vanadium (fume or dust) 7440622 0.00E+00 VANADIUM PENTOXIDE 1314621 0.00E+00 VINYL CETATE 108054 0.00E+00 VINYL CHLORIDE (L1,1-Dichloroethylene) 75014 0.00E+00 VINYLOENE (CHLORIDE (1,1-Dichloroethylene) 75354 0.00E+00 VINYLOENE (MIXER) 1330207 0.00E+00 VINYLENE 108883 0.00E+00 0.XYLENE 108883 0.00E+00 0.XYLENE 95476 0.00E+00   |   |         |          |          |          |   |
| TOLUENE-2,6-DISOCYANATE 91087 0.00E+00 1,1,2-TRICHLONGETHANE (Vinyl trichloride) 79005 0.00E+00 TRICHLONGETHANE (Vinyl trichloride) 79016 0.00E+00 TRICHLONGETHYLENE 121448 0.00E+00 URETHANE (Ethyl carbamate) 51796 0.00E+00 Vanadium Compounds 7440622 0.00E+00 Vanadium (fume or dust) 7440622 0.00E+00 VANADIUM PENTOXIDE 1314621 0.00E+00 VINYL CAETATE 108054 0.00E+00 VINYL CHIORIDE (Chloroethylene) 75014 0.00E+00 VINYLOENE CHLORIDE (1,1-Dichloroethylene) 75354 0.00E+00 VINYLOENE (Smixed isomers) 1330207 0.00E+00 m-XYLENE (mixed isomers) 1330207 0.00E+00 m-XYLENE 108383 0.00E+00 0.XYLENE 95476 0.00E+00   |   |         | 0.002.00 |          |          |   |
| 1,1,2-TRICHLOROETHANE (Vinyl trichloride) 79005 0.00E+00 TRICHLOROETHYLENE 79016 0.00E+00 TRICHLOROETHYLENE 121448 0.00E+00 URETHANE (Ethyl carbamate) 51796 0.00E+00 Vanadium Compounds 7440622 0.00E+00 Vanadium (Tume or dust) 7440622 0.00E+00 VANADIUM PENTOXIDE 1314621 0.00E+00 VINYL ACETATE 108054 0.00E+00 VINYL CHLORIDE (Chloroethylene) 75014 0.00E+00 VINYLOENE CHLORIDE (1,1-Dichloroethylene) 75354 0.00E+00 VINYLOENE (Sinked isomers) 1330207 0.00E+00  XYLENES (mixed isomers) 130207 0.00E+00  |   |         |          |          |          |   |
| TRICHLOROETHYLENE 79016 0.00E+00 TRICHTYLAMINE 121448 0.00E+00 URETHANE (Ethyl carbamate) 51796 0.00E+00 Vanadium Compounds 7440622 0.00E+00 Vanadium (fume or dust) 7440622 0.00E+00 VANADIUM PENTOXIDE 1314621 0.00E+00 VINYL CETATE 108054 0.00E+00 VINYL CHLORIDE (Chloroethylene) 75014 0.00E+00 VINYLOENE (HLORIDE (1,1-Dichloroethylene) 75354 0.00E+00 VINYLENES (mixed isomers) 1330207 0.00E+00  m-XYLENE (mixed isomers) 108383 0.00E+00 0.XYLENE 108383 0.00E+00 0.XYLENE 95476 0.00E+00   |   |         |          |          |          |   |
| TRIETHYLAMINE 121448 0.00E+00 URETHANE (Ethyl carbamate) 5.1796 0.00E+00 Vanadium Compounds 7440622 0.00E+00 Vanadium (fume or dust) 7440622 0.00E+00 VANADIUM PENTOXIDE 1314621 0.00E+00 VINYL ACETATE 108054 0.00E+00 VINYL CHLORIDE (Chloroethylene) 75014 0.00E+00 VINVLOHLORIDE (L1,1-Dichloroethylene) 75354 0.00E+00 VINVLOHLORIDE (1,1-Dichloroethylene) 75354 0.00E+00 VINVLOHLORIDE (Smixed isomers) 1330207 0.00E+00 m-XYLENE (mixed isomers) 0.00E+00 o-XYLENE 95476 0.00E+00  |   |         |          |          |          |   |
| URETHANE (Ethyl carbamate) 51796 0.00E+00 Vanadium Compounds 7x40622 0.00E+00 Vanadium (Fume or dust) 7x40622 0.00E+00 VANADIUM PENTOXIDE 1314621 0.00E+00 VINYL ACETATE 188054 0.00E+00 VINYL CHIORIDE (Chloroethylene) 75014 0.00E+00 VINYLOENE CHIORIDE (1,1-Dichloroethylene) 75354 0.00E+00 VINYLOENE (Smixed isomers) 1330207 0.00E+00 XYLENES (mixed isomers) 108833 0.00E+00 0-XYLENE 95476 0.00E+00   |   |         |          |          |          |   |
| Vanadium Compounds         7440622         0.00E+00           Vanadium (fume or dust)         7440622         0.00E+00           VANADIUM PENTOXIDE         1314621         0.00E+00           VINYL ACETATE         108054         0.00E+00           VINYL CHLORIDE (Li) Chioroethylene)         75014         0.00E+00           VINYLIDENE CHLORIDE (1,1-Dichloroethylene)         75354         0.00E+00           VINYLENES (mixed isomers)         1330207         0.00E+00           m-XYLENE         108383         0.00E+00           o-XYLENE         95476         0.00E+00  |   | 51796   |          |          |          |   |
| VANADIUM PENTOXIDE         1314621         0.00E+00           VINYL ACETATE         108054         0.00E+00           VINYL CHLORIDE (Chloroethylene)         75014         0.00E+00           VINYLUDENE CHLORIDE (1,1-Dichloroethylene)         75354         0.00E+00           XYLENES (mixed isomers)         1330207         0.00E+00           *XYLENE         108383         0.00E+00           0-XYLENE         95476         0.00E+00  |   |         |          |          |          |   |
| VINYL ACETATE         108054         0.00E+00           VINYL CHLORIDE (Chloroethylene)         75014         0.00E+00           VINYLIDENE CHLORIDE (1,1-Dichloroethylene)         75354         0.00E+00           XYLENES (mixed isomers)         1330207         0.00E+00           m-XYLENE         108383         0.00E+00           o-XYLENE         95476         0.00E+00   | Vanadium (fume or dust)                                   | 7440622 | 0.00E+00 |          |          |   |
| VINYL CHLORIDE (Chloroethylene)         75014         0.00E+00           VINYLDENE CHLORIDE (1,1-Dichloroethylene)         75354         0.00E+00           XYLENES (mixed isomers)         1330207         0.00E+00           m-XYLENE         108383         0.00E+00           o-XYLENE         95476         0.00E+00  | VANADIUM PENTOXIDE  | 1314621 | 0.00E+00 |          |          |   |
| VINYLIDENE CHLORIDE (1,1-Dichloroethylene)         75354         0.00E+00           XYLENES (mixed isomers)         1330207         0.00E+00           m-XYLENE         108383         0.00E+00           o-XYLENE         95476         0.00E+00  |   |         |          |          |          |   |
| XYLENES (mixed isomers) 1330207 0.00E+00 m-XYLENE 108383 0.00E+00 o-XYLENE 95476 0.00E+00  |   |         |          |          |          |   |
| m-XYLENE 108383 0.00E+00<br>o-XYLENE 95476 0.00E+00  |   |         |          |          |          |   |
| o-XYLENE 95476 0.00E+00  |   |         |          |          |          |   |
|  |   |         |          |          |          |   |
| p-XYLENE 106423 0.00E+00   |   |         |          |          |          |   |
|  | p-XYLENE  | 106423  | 0.00E+00 |          |          |   |

CoreSite
Mitigated operation (11 hrs)

| Diesel Backup Generator |                    |                                      |                      |                         |                 |                    |                              |                                 |
|-------------------------|--------------------|--------------------------------------|----------------------|-------------------------|-----------------|--------------------|------------------------------|---------------------------------|
| Distance<br>(meters)    | Distance<br>(feet) | Distance<br>adjustment<br>multiplier | Enter Cancer<br>Risk | Adjusted<br>Cancer Risk | Enter<br>Hazard | Adjusted<br>Hazard | Enter PM2.5<br>Concentration | Adjusted PM2.5<br>Concentration |
| 0                       | 0.0                | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 5                       | 16.4               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 10                      | 32.8               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 15                      | 49.2               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 20                      | 65.6               | 1.000                                |                      | 0                       |                 | 0                  |                              | 0                               |
| 25                      | 82.0               | 0.85                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 30                      | 98.4               | 0.73                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 35                      | 114.8              | 0.64                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 40                      | 131.2              | 0.58                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 50                      | 164.0              | 0.5                                  |                      | 0                       |                 | 0                  |                              | 0                               |
| 60                      | 196.9              | 0.41                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 70                      | 229.7              | 0.31                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 80                      | 262.5              | 0.28                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 90                      | 295.3              | 0.25                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 100                     | 328.1              | 0.22                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 110                     | 360.9              | 0.18                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 115                     | 377.3              | 0.17                                 | 56.267               | 9.565                   | 0.015           | 0.003              | 0.076                        | 0.013                           |
| 120                     | 393.7              | 0.16                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 130                     | 426.5              | 0.15                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 140                     | 459.3              | 0.14                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 150                     | 492.1              | 0.12                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 160                     | 524.9              | 0.1                                  |                      | 0                       |                 | 0                  |                              | 0                               |
| 180                     | 590.6              | 0.09                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 200                     | 656.2              | 0.08                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 220                     | 721.8              | 0.07                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 240                     | 787.4              | 0.06                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 260                     | 853.0              | 0.05                                 |                      | 0                       |                 | 0                  |                              | 0                               |
| 280                     | 918.6              | 0.04                                 |                      | 0                       |                 | 0                  |                              | 0                               |

<sup>\*</sup>Distance to MEI: 375 feet

# MOBILE SOURCE HEALTH RISK - YR2014

| RECEPTOR ID:       |              | 37.376761 | -121.968036 |
|--------------------|--------------|-----------|-------------|
|                    | Туре         | Risk      |             |
| Cancer per million | Highway      |           | 15.763      |
|                    | Major Street |           | 18.754      |
|                    | Rail         |           | 13.947      |
| PM2.5 (ug/m3)      | Highway      |           | 0.352       |
|                    | Major Street |           | 0.404       |
|                    | Rail         |           | 0.026       |

#### METHOD/DATA

Cancer risk and PM2.5 were modeled in AERMOD for all highways/freeways and roadways >30,000 AADT (annual average daily traffic) and rail in 20 x 20 meter grid cells. The files incorporate AADT for that highway using EMFAC 2014 data for fleet mix and includes OEHHA's 2015 Air Toxics Hot Spots Guidance methods.

The Air District assigned vehicle counts on each link using information from the California Department of Transportation (Caltrans) and the Metropolitan Transportation Commission (MTC) for all roads with greater than 30,000 AADT. Traffic counts for state highways are from 2014 while surface streets AADT reflect 2015 counts when available, with older counts from 2010 through 2013 if data were missing. Sources of data used for the activity data are described below.

- State highway activity on the state highway system was represented using 2014 AADT counts from Caltrans. AADT values represent the total traffic volume for the year divided by 365 days, and these counts are reported for state highway segments defined using milepost values. Caltrans provides AADT data for total traffic and for trucks only, with trucks classified by axle number (the two-axle class excludes pickups and vans with only 4 tires).
- Daily traffic counts on surface streets were obtained from Metropolitan Transportation Commission (MTC)
  which receives roadway counts from local agencies as part of the Highway Performance Monitoring System
  (HPMS) with the exception of Santa Rosa, which posts the AADT on their web page.
- Year 2014 traffic volumes were forecast to 2017 using county-level growth factors from the California Air Resources Board's (ARB) EMFAC2014 mobile source emissions model. EMFAC2014 was run for all Bay Area counties for 2014, and vehicle miles of travel (VMT) output data were used to calculate the growth factors needed to project 2014 traffic volumes to 2017.

#### THRESHOLDS OF SIGNIFICANCE BASED ON CEQA GUIDANCE:

Local community risk and hazard impacts are associated with Toxic Air Contaminants (TACs) and fine particulate matter with an aerodynamic resistance diameter of 2.5 micrometers or less ( $PM_{2.5}$ ) because emissions of these pollutants can have significant health impacts at the local level. If emissions of TACs or  $PM_{2.5}$  exceed any of the Thresholds of Significance, a project would result in a significant impact.

#### SIGNIFICANCE THRESHOLD

|               | 0.0                   |
|---------------|-----------------------|
| CANCER        | 10 in a million       |
| AMBIENT PM2.5 | 0.3 ug/m <sup>3</sup> |