



## 2010 Human Health Risk Assessment Addendum: Refined Evaluation on Proposed Daycare Facility in Redwood City Precise Plan

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## Contents

	Page
<b>1. Introduction</b>	<b>1</b>
<b>2. Background PM<sub>2.5</sub></b>	<b>2</b>
<b>3. Methodology</b>	<b>3</b>
3.1. Individual PM <sub>2.5</sub> Assessment, Pentair Thermal Management Operations	3
3.1.1. Dispersion Modeling	3
3.2. Cumulative PM <sub>2.5</sub> Assessment	6
3.2.1. Onsite Stationary Sources	6
3.2.2. Offsite Stationary Sources	6
3.2.3. Roadways	7
3.3. Individual and Cumulative Cancer Risk and Hazard Index Analyses	7
3.3.1. Potential Project Emergency Generators	7
3.3.2. Offsite Diesel Generators	8
3.3.3. Diesel Generators, Risk Assessment Methodology	9
3.3.4. Other Offsite Stationary Sources	12
3.3.5. Roadways	12
<b>4. Results</b>	<b>13</b>
4.1. Potential Daycare Placement Area	13
4.2. Individual PM <sub>2.5</sub> Assessment, Pentair Thermal Management Operations	13
4.3. Cumulative PM <sub>2.5</sub> Assessment	13
4.3.1. Onsite Stationary Sources	13
4.3.2. Offsite Stationary Sources	14
4.3.3. Roadways	14
4.4. Individual and Cumulative Cancer Risk and Hazard Index Analyses	14
4.5. Proposed Daycare Location	14
<b>5. References</b>	<b>15</b>

## **List of Tables**

- Table 1: Redwood City NAAQS Comparison
- Table 2: Building Downwash Parameters
- Table 3: Pentair Thermal Management Modeled Point Sources
- Table 4: Pentair Thermal Management Modeled Volume Sources
- Table 5: Potential Project Emergency Generators, Modeled Point Sources
- Table 6: Offsite Diesel Generators, Modeled Point Sources
- Table 7: Exposure Assumptions
- Table 8: Toxicity Values
- Table 9: Cumulative Analysis

## **List of Figures**

- Figure 1: Pentair Thermal Management Source Configuration
- Figure 2: Potential Project Emergency Generator Source Configuration
- Figure 3: Offsite Diesel Generator Source Configuration
- Figure 4: Potential Daycare Placement Area (pre- Pentair Thermal Management Impacts)
- Figure 5: Pentair Thermal Management PM<sub>2.5</sub> Concentration
- Figure 6: Cumulative PM<sub>2.5</sub> Concentration
- Figure 7: Potential Daycare Placement Area (post- Pentair Thermal Management Impacts)
- Figure 8: Proposed Daycare Location (within the Acceptable Placement Area)

## **List of Appendices**

- Appendix A: Pentair Thermal Management Air Dispersion Modeling Files
- Appendix B: Project Emergency Generator Air Dispersion Modeling Files
- Appendix C: Offsite Diesel Generators Air Dispersion Modeling Files
- Appendix D: Offsite Stationary Sources Identified by BAAQMD
- Appendix E: Screening Traffic Analysis - Highway 101 and Surface Streets
- Appendix F: Proposed Daycare Location, Nearby Generator Operational Limitations

## Acronyms, and Abbreviations

ACTM	Airborne Toxic Control Measures
ADT	Average Daily Trips
ARB	California Air Resource's Board
ASF	Age Sensitivity Factor
BAAQMD	Bay Area Air Quality Management District
BPIP	Building Profile Input Program
Cal/EPA	California Environmental Protection Agency
CEQA	California Environmental Quality Act
CPF	Cancer Potency Factor
EIR	Environmental Impact Report
DPM	Diesel Particulate Matter
HHRA	Human Health Risk Assessment
HIs	Hazard Indices
ISC	Industrial Source Complex
ISC-PRIME	Industrial Source Complex model with Plume Rise Model Enhancements
ISCST3	Industrial Source Complex Short Term Model
NAAQS	National Ambient Air Quality Standard
NED	National Elevation Dataset
OEHHA	Office of Environmental Health Hazard Assessment
PM <sub>2.5</sub>	Particulate Matter less than 2.5 microns in diameter
REL	Reference Exposure Level
SSIF	Stationary Source Inquiry Form
TAC	Toxic Air Contaminants
TSD	Technical Support Document
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey

### List of Units

µg	microgram
g/s	gram per second

2010 Human Health Risk Assessment Addendum:  
Refined Evaluation on Proposed Daycare Facility  
in Redwood City Precise Plan

kg	kilogram
kW	kilowatt
m <sup>3</sup>	cubic meter
X/Q	chi over q

## 1. Introduction

Subject to the Stanford in Redwood City Precise Plan (“Precise Plan” or “Project”) Final Environmental Impact Report (EIR), any daycare center in the Precise Plan area must satisfy EIR Mitigation Measure 8-3.<sup>1</sup> This mitigation measure specifies where on the 48.5-acre Stanford in Redwood City campus the daycare center may be located. The overarching goal of Mitigation Measure 8-3 is to “[b]uffer the child care center from existing and planned emission sources, and include project features to reduce TAC and PM<sub>2.5</sub> exposure from air pollutant sources—which include US 101 traffic, the Tyco Thermal Controls facility, and existing and proposed generators....”

In 2010, ENVIRON completed a Human Health Risk Assessment (HHRA) for toxic air contaminants (TACs) and fine particulate matter less than 2.5 microns in diameter (PM<sub>2.5</sub>)<sup>2</sup> (“2010 analysis”). The analysis determined that the lifetime cancer risks and noncancer hazard indices (HIs) from onsite construction activities, onsite operational generators, offsite sources, and nearby roadways were below the individual and cumulative threshold values. Based on this analysis, if the child care facility was placed at least 700 feet away from Highway 101 (indicated in the original Figure 5), cancer risks and noncancer HIs would not be exceeded. The exception is that PM<sub>2.5</sub> exceeds the relevant thresholds due to the existence of the Tyco facility (herein referred to as “Pentair Thermal Management” as the facility has changed names since the 2010 analysis). Therefore, for this refined analysis, ENVIRON has evaluated existing and planned emission sources of PM<sub>2.5</sub> that could impact the Project site.

The Project also anticipates the siting of another onsite emergency diesel generator, in addition to 13 onsite generators included in the 2010 analysis. Therefore, ENVIRON has evaluated individual and cumulative cancer risks across the Project site to evaluate where the daycare can be safely placed.

ENVIRON has used air dispersion modeling and screening tools as discussed below to identify zones in which the daycare can be situated to meet the goals of Mitigation Measure 8-3 Part 3, specifically to an annual PM<sub>2.5</sub> concentration of less than 0.3 µg/m<sup>3</sup> from any single source or less than 0.8 µg/m<sup>3</sup> from cumulative sources, and to ensure that cancer risks and hazard indices remain below the single source and cumulative thresholds when evaluated for a potential daycare exposure.

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<sup>1</sup> City of Redwood City. 2013. Final Environmental Impact Report for the Stanford in Redwood City Precise Plan. May. Available online at [http://www.redwoodcity.org/%5C/phed/planning/stanford\\_in\\_redwoodcity/StanfordFEIR05032012.pdf](http://www.redwoodcity.org/%5C/phed/planning/stanford_in_redwoodcity/StanfordFEIR05032012.pdf).

<sup>2</sup> ENVIRON. 2010. Human Health Risk Assessment. Construction, Operational, and Traffic Emissions. Stanford in Redwood City. Redwood City, CA. December.

## 2. Background PM<sub>2.5</sub>

To provide context for the 0.3  $\mu\text{g}/\text{m}^3$  single source and the 0.8  $\mu\text{g}/\text{m}^3$  cumulative thresholds, which are not based on health protective endpoints, background PM<sub>2.5</sub> concentration in the area was evaluated based on historical monitoring data from the Bay Area Air Quality Management District (BAAQMD) Redwood City Monitoring Station. The PM<sub>2.5</sub> single source and cumulative thresholds were developed to provide an indication of whether state or federal ambient air quality standards could be exceeded at a project; however, the thresholds are not the same as the ambient air quality standards that are based on health protective values.

Based on data collected over a ten-year period from 2004-2013, the primary annual National Ambient Air Quality Standard (NAAQS) for PM<sub>2.5</sub> of 12  $\mu\text{g}/\text{m}^3$  is never exceeded in Redwood City.<sup>3</sup> Further, when evaluating the daily averages against the NAAQS 24-hour PM<sub>2.5</sub> standard of 35  $\mu\text{g}/\text{m}^3$ , exceedances were only found for 2% or less of valid sample days within each given year, and the past five years have only seen a total of five 24-hour exceedances. A summary of PM<sub>2.5</sub> monitoring data against the 24-hour and annual NAAQS from the Redwood City station is shown in Table 1.

Given that Pentair Thermal Management emissions would be captured by the Redwood City monitor, and that ambient air quality standards are not routinely exceeded, it can be argued that the 0.3 and 0.8  $\mu\text{g}/\text{m}^3$  standards are not appropriate as an absolute comparison as they are intended to be a conservative screening value. However, as a conservative measure, emissions from Pentair Thermal Management have been evaluated against the single source threshold of 0.3  $\mu\text{g}/\text{m}^3$  and cumulative PM<sub>2.5</sub> impacts have been evaluated against the cumulative threshold of 0.8  $\mu\text{g}/\text{m}^3$ , as discussed in detail in Sections 3 and 4 below.

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<sup>3</sup> A 3-year average of the annual mean is taken for comparison to the annual primary PM<sub>2.5</sub> standard.

## 3. Methodology

The standards in Mitigation Measure 8-3 align with the BAAQMD California Environmental Quality Act (CEQA) standards of significance for projects (BAAQMD 2011b). The BAAQMD has guidance for conducting air quality and greenhouse gas analyses under CEQA.<sup>4</sup> The BAAQMD guidance covers conducting HRAs for both construction and operation, including a cumulative HRA. This addendum covers the following:

- An individual PM<sub>2.5</sub> analysis focusing on Pentair Thermal Management operations;
- A cumulative PM<sub>2.5</sub> analysis of onsite and offsite existing and planned operational sources; and
- Individual and cumulative analyses for cancer risks and hazard indices for a potential onsite daycare receptor on the Stanford in Redwood City campus.

### 3.1. Individual PM<sub>2.5</sub> Assessment, Pentair Thermal Management Operations

Pentair Thermal Management has operations with PM<sub>2.5</sub> emission sources at the following addresses:

- 2501 Bay Road, Redwood City, California
- 2555 Bay Road, Redwood City, California

Through a stationary source inquiry form (SSIF) and public records request to BAAQMD, ENVIRON collected data on Pentair Thermal Management PM<sub>2.5</sub> emission sources including emission rates and stack parameters, when available.

Using this collected data, dispersion modeling was performed to estimate the annual concentration of PM<sub>2.5</sub> due to Pentair Thermal Management operations across the potential daycare placement area identified on the Stanford in Redwood City campus, and discussed in Section 4.1. The annual concentration was then compared to the single source PM<sub>2.5</sub> threshold of 0.3 µg/m<sup>3</sup>.

#### 3.1.1. Dispersion Modeling

To estimate ambient air concentrations of PM<sub>2.5</sub> from the Pentair Thermal Management facilities, near-field air dispersion modeling was conducted using the United States Environmental Protection Agency's (USEPA's) Industrial Source Complex model with Plume Rise Model Enhancements (ISC-Prime). The Industrial Source Complex Short Term Model

<sup>4</sup> BAAQMD CEQA Guidelines, May 2011 and May 2012. A March 2012 Alameda County Superior Court judgment determined that the BAAQMD had failed to evaluate the environmental impacts of the land use development patterns that would result from adoption of the thresholds and ordered the thresholds set aside. The Court of Appeal reversed that judgment and the California Supreme Court is currently reviewing the limited issue of whether CEQA requires an analysis of the environment's air quality impact on a project (as opposed to a project's impact on the environment).

(ISCST3) is a recommended model for performing refined modeling under CEQA (BAAQMD 2012b).

Meteorological data used in this assessment was processed by BAAQMD and was obtained through a public records request. One year of data<sup>5</sup> from a BAAQMD Redwood City station<sup>6</sup> was used.

Air dispersion models such as Industrial Source Complex (ISC) require a variety of inputs such as source parameters, meteorological parameters, topography information, and receptor parameters. In the absence of site-specific information, ENVIRON used default parameter sets that are designed to produce conservative (i.e. overestimates) of air concentrations.

### **Dispersion Parameters**

Due to the Project site's location and modeling domain, the urban dispersion option was selected. As discussed in the AERMOD Implementation Guide (USEPA 2009), the urban heat island effect is not a localized effect, but is regional in character. Given this, users are cautioned against applying the Auer Land Use Procedure on a source-by-source basis, particularly for cases such as this where the site is located next to a body of water, but is within a larger urban area. As such, the selection of dispersion parameters here was based on regional characteristics.

### **Terrain**

Terrain data were obtained from the United States Geological Survey (USGS), with 1/3 arcsec (~10 meter) National Elevation Dataset (NED) data downloaded (USGS 2013). Elevations were calculated for all sources, buildings, and receptors, using the latest version of AERMAP (v 11103).

### **Building Downwash**

Building downwash algorithms incorporated into the ISC air dispersion modeling program account for the plume dispersion effects of the aerodynamic wakes and eddies produced by buildings and structures. Building downwash algorithms were used in the modeling of emissions from Pentair Thermal Management.

ENVIRON included any surrounding buildings when the distance between the stack and the nearest part of the building in question was less than or equal to five times the building height (USEPA 1995). Future buildings anticipated to be built as part of the Project were also included. The buildings included and corresponding heights are shown in Table 2.<sup>7</sup> ENVIRON used digital mapping resources (Google Earth 2014) and information provided by Stanford to define building heights for structures on and adjacent to the Project site.

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<sup>5</sup> A cross year from April 1, 1986 - March 31, 1987 was used as a representative year of meteorological data.

<sup>6</sup> This BAAQMD Redwood City meteorological station is no longer in operation.

<sup>7</sup> Note that buildings outside of the range for Pentair's operations are also included in this table, as they are applicable to the offsite generator modeling performed, as discussed below.

## **Receptors**

ENVIRON created a grid of receptors covering the entire Stanford in Redwood City campus using 20 meter spacing. Modeled concentrations were evaluated at ground-level, in accordance with BAAQMD guidance (BAAQMD 2012b).

## **Source Configuration**

As discussed above, through a public records request to BAAQMD, ENVIRON collected data on Pentair Thermal Management PM<sub>2.5</sub> emission sources. Point sources were used when stack data was available for a given source or group of sources. For cases where release data was not available, sources were either mapped to a similar source type with available data or were modeled assuming a series of volume sources representing the building or portion of a building where the source is located. Figure 1 shows the point and volume sources set up to represent Pentair Thermal Management operations. PM<sub>2.5</sub> emission sources, stack parameters, and associated emission rates are presented in Tables 3 and 4 for modeled point and volume sources, respectively.

## **Averaging Times**

Period average concentrations over the one-year span of the Redwood City meteorological data were calculated for use in estimating annual PM<sub>2.5</sub> impacts across the potential daycare placement area.

## **Dispersion Factors**

Both point and volume source emissions were modeled using the X/Q (“chi over q”) method, such that emission source groups are input to the model with unit average annual emission rates (*i.e.*, 1 gram per second [g/s]), and the model estimates period average dispersion factors (with units of [ $\mu\text{g}/\text{m}^3$ ]/[g/s]). To calculate annual average ambient air concentrations, the period average dispersion factors were multiplied by the annual emission rates.

## **Emission Rates**

As discussed above, through a SSIF to BAAQMD, ENVIRON collected daily emission rates (in pounds per day) for all emission sources currently operational at the Pentair Thermal Management Facility. Daily emission rates were converted to gram per second emissions rates and assumed to operate 24 hours a day, 7 days a week. PM<sub>2.5</sub> emission rates were estimated assuming all particulate emissions are 2.5 microns or less, which is a conservative assumption.

## **Estimated Air Concentrations**

The following equation was used to estimate annual averaged PM<sub>2.5</sub> concentrations from the modeled dispersion factors:

$$\text{Annual Average Concentration} = \left( Q_{annual} \times \left( \frac{\chi}{Q} \right)_{annual} \right)_i$$

Where:

$Q$  = emission rate of PM<sub>2.5</sub> (grams [g]/second [s])

$\left(\frac{\chi}{Q}\right)$  = unit emissions dispersion factor ( $\mu\text{g}/\text{m}^3$ )/(g/s)

$i$  = point or volume source group

The results of the dispersion analysis were used in conjunction with the PM<sub>2.5</sub> emission rates to determine air concentrations.

All files used for the Pentair Thermal Management air dispersion model are included in Appendix A, including ISC-Prime, AERMAP, and BPIP input and output files; meteorological data; and terrain data.

### 3.2. Cumulative PM<sub>2.5</sub> Assessment

The cumulative PM<sub>2.5</sub> assessment considers the impact of existing and planned stationary sources, highways, and surface streets at the Stanford in Redwood City campus. The combined PM<sub>2.5</sub> concentrations from all sources are then compared to the 0.8  $\mu\text{g}/\text{m}^3$  PM<sub>2.5</sub> cumulative threshold specified in Mitigation Measure 8-3 Part 3.

#### 3.2.1. Onsite Stationary Sources

Future potential onsite sources associated with the proposed development comprise only emergency diesel generators. PM<sub>2.5</sub> impacts from onsite stationary sources at the Stanford in Redwood City campus were evaluated using refined modeling as discussed in further detail in Section 3.3.1 below.

#### 3.2.2. Offsite Stationary Sources

PM<sub>2.5</sub> impacts from offsite stationary sources within a 1,000 foot buffer of the Stanford in Redwood City campus were evaluated using the BAAQMD Stationary Source Screening Analysis Tool<sup>8</sup>, with the following exceptions where refined modeling was performed:

- Pentair Thermal Management;
- Genentech, Inc.;
- AT&T Corporation; and
- City of Redwood City #8511.

Refined modeling for Genentech, Inc., AT&T Corporation, and the City of Redwood City #8511 are discussed in further detail in Section 3.3.2 below. Screening level PM<sub>2.5</sub> values were

<sup>8</sup> The BAAQMD Stationary Source Screening Analysis Tool is available online at:

<http://www.baaqmd.gov/Home/Divisions/Planning%20and%20Research/CEQA%20GUIDELINES/Tools%20and%20Methodology.aspx>

confirmed with BAAQMD through a SSIF request, and in some cases updated to reflect more refined analyses conducted by BAAQMD. For applicable diesel generator sources, distance adjustment multipliers were applied to correct for the distance from the source to the Stanford in Redwood City campus. Appropriate distances were calculated based on a mapping of Facility addresses in Google Earth and conservatively using the closest point on the Facility property.

### **3.2.3. Roadways**

As recommended by BAAQMD CEQA Guidelines, all roads within 1,000 feet of the Site with daily traffic of greater than 10,000 average daily trips (ADT) were evaluated. These roads include Highway 101 and two surface streets: Broadway Street and Bay Road.

To evaluate PM<sub>2.5</sub> impacts from Highway 101, the BAAQMD Highway Screening Analysis Tool was used.<sup>9</sup> Existing traffic rates were modeled using Caltrans traffic data and future project conditions were evaluated based on the most recent Project traffic data. When distances or traffic volumes fell in between bins provided in the screening tool, corresponding PM<sub>2.5</sub> concentrations were estimated through linear interpolation.

PM<sub>2.5</sub> impacts from Broadway Street and Bay Road were evaluated using the BAAQMD Roadway Screening Analysis Tables for San Mateo County.<sup>10</sup> Traffic volumes match what was utilized in the 2010 analysis as the estimated volumes have not changed. When traffic volumes fell in between bins provided in the screening tables, corresponding PM<sub>2.5</sub> concentrations were estimated through interpolation.

## **3.3. Individual and Cumulative Cancer Risk and Hazard Index Analyses**

Since the Project anticipates the siting of another onsite diesel emergency generator, in addition to 13 onsite generators included in the 2010 analysis, ENVIRON evaluated individual and cumulative cancer risks across the Project site to evaluate where the daycare can be safely placed.

### **3.3.1. Potential Project Emergency Generators**

Future potential onsite sources associated with the proposed development comprise only emergency diesel generators. Cancer risks, hazard indices, and PM<sub>2.5</sub> impacts from future generators were modeled using a consistent methodology to that described for Pentair Thermal Management in Section 3.1.1. Any deviations or additional methodology descriptions are discussed below.

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<sup>9</sup> The BAAQMD Highway Screening Analysis Tool is available online at: <http://www.baaqmd.gov/Home/Divisions/Planning%20and%20Research/CEQA%20GUIDELINES/Tools%20and%20Methodology.aspx>. The screening tool for a 6 foot receptor height was used in accordance with BAAQMD guidance to represent receptors located on the ground floor of a building.

<sup>10</sup> The BAAQMD Roadway Screening Analysis Tables are available online at: <http://www.baaqmd.gov/Divisions/Planning-and-Research/CEQA-GUIDELINES/Tools-and-Methodology.aspx>

### **Source Configuration**

Generator locations mirror those in the 2010 HHRA, with the addition of one generator on the southeast corner of the southernmost building, as shown in Figure 2. Stack height and stack diameter represent the median default modeling parameters for stationary diesel engines, as presented in the technical memorandum from Sonoma Technology, Inc. to BAAQMD (BAAQMD 2011a), prepared specifically to assist with CEQA evaluations. Stack temperature and flow rate (used to derive exit velocity) were obtained from a Caterpillar spec sheet for a Tier 4 Interim generator of similar size to that expected for the future onsite generators (Caterpillar 2014).

### **Emission Rates**

ENVIRON calculated diesel particulate matter (DPM) emission rates for the new generators based on the 2011 to 2014 Tier 4 Interim exhaust emissions standard for a 560 to 900 kilowatt (kW) generator (0.10 g/kW-hr)<sup>11</sup>. A generator rating of 560 kW<sup>12</sup> was assumed, along with 50 hours of operation per year for each new generator. ENVIRON conservatively assumed that 100% of DPM emissions are PM<sub>2.5</sub>.

Onsite generators were assumed to be tested over hours corresponding to potential daycare operation: 7 am to 7 pm. Therefore, variable emission rates were used in the model to reflect this operational schedule.

Stack parameters and associated emission rates for future potential onsite emergency generators are presented in Table 5.

### **Dispersion Factors**

Instead of using the X/Q (“chi over q”) method, actual emission rates were modeled for the onsite generators with one source group representing all 14 emergency diesel generators. Therefore, annual average ambient air concentrations were calculated directly in the model and are presented in the period average plot file.

ISC-Prime, AERMAP, and BPIP input and output files used for the Project emergency generators air dispersion model are included in Appendix B. Meteorological data and terrain data files are included in Appendix A.

#### **3.3.2. Offsite Diesel Generators**

Using the BAAQMD Stationary Source Screening Tool and the Distance Adjustment Multiplier for diesel generators, cancer risks from three (3) offsite Facilities (with diesel generators) were determined to be above 10 in one million: Genentech, Inc., AT&T Corporation, and City of Redwood City #8511. Therefore, refined dispersion modeling was performed for these generators. Cancer risks, hazard indices, and PM<sub>2.5</sub> impacts from the offsite diesel generators

<sup>11</sup> The USEPA Nonroad Compression-Ignition Engines – Exhaust Emission Standards are available online at: <http://www.epa.gov/oms/standards/nonroad/nonroadci.htm>

<sup>12</sup> This estimate is conservative as the assumed generator rating is greater than the approximately 400 kW rated generators Stanford expects to install onsite. The emission factor selected is correspondingly conservative.

were modeled using a consistent methodology to that described for Pentair Thermal Management in Section 3.1.1. Any deviations or additional methodology descriptions are discussed below.

### **Source Configuration**

Generator locations were determined through a combination of mapping the Facility addresses in Google Earth and inspecting aerial photos to determine where the diesel generators are located at each Facility. Stack parameters represent the median default modeling parameters for stationary diesel engines, as presented in the technical memorandum from Sonoma Technology, Inc. to BAAQMD (BAAQMD 2011a), prepared specifically to assist with CEQA evaluations. Figure 3 shows the modeled locations of the offsite emergency generators.

### **Emission Rates**

Current emission rates for each Facility were determined through a SSIF to BAAQMD. ENVIRON conservatively assumed that 100% of DPM emissions are PM<sub>2.5</sub>.

Offsite generators were assumed to be tested over hours corresponding to potential daycare operation: 7 am to 7 pm. Therefore, variable emission rates were used in the model to reflect this operational schedule.

Stack parameters and associated emission rates for offsite diesel generators are presented in Table 6.

ISC-Prime, AERMAP, and BPIP input and output files used for the offsite generators air dispersion model are included in Appendix C. Meteorological data and terrain data files are included in Appendix A.

### **3.3.3. Diesel Generators, Risk Assessment Methodology**

The following sections discuss the various components required for evaluating cancer risks and hazard indices from both onsite and offsite emergency generators.

#### **Chemical Selection**

The BAAQMD recommends using DPM as a surrogate for all TAC emissions from diesel-fueled compression-ignition internal combustion engines, according to Footnote 6 of Table 2-5-1 of Regulation 2-5. Thus, DPM is the only compound that was evaluated.

#### **Exposure Assessment**

The components of the exposure assessment include the identification of potentially exposed populations, the identification of exposure pathways, estimation of exposure concentrations, and the selection of exposure assumptions to quantify chemical intakes. The methodology for estimating air concentrations was discussed in Sections 3.3.1 and 3.3.2 above.

### **Potentially Exposed Populations**

The purpose of this refined analysis is to evaluate where a daycare can be safely placed on the Stanford in Redwood City campus. As such, the potentially exposed population in this assessment is limited to an onsite daycare child.

### **Exposure Pathways**

The primary exposure pathway identified for the potential onsite daycare child is inhalation. Non-inhalation pathways were considered in accordance with BAAQMD and the California Environmental Protection Agency (Cal/EPA) guidance. Pursuant to BAAQMD guidance, a multipathway analysis is required for chemicals with known cancer and noncancer health effects from non-inhalation pathways. These chemicals are identified by Cal/EPA (2003).

For sources emitting diesel exhaust, according to the Cal/EPA, the potential cancer and chronic noncancer health risk from inhalation exposure to whole diesel exhaust generally outweigh the cancer and chronic noncancer health risk from multipathway exposure from the speciated components. Thus, the only exposure pathway evaluated was inhalation for sources emitting DPM.

### **Exposure Assumptions/Durations**

The exposure parameters used were obtained using site-specific information and risk assessment guidelines from BAAQMD, Cal/EPA, and USEPA, with the exception of scenario-specific exposure durations. Children between the ages of six weeks to five years were conservatively assumed to attend the daycare facility. Therefore, the exposure duration was assumed to be 4.9 years for the daycare child. The exposure assumptions and durations used for the onsite daycare child are presented in Table 7.

### **Calculation of Intake**

The intake factor for inhalation,  $IF_{inh}$ , can be calculated as follows:

$$IF_{inh} = \frac{DBR \times CF \times EF \times ED \times T \times ET}{AT \times 24 \text{ (hours/day)}}$$

Where:

$IF_{inh}$	= Intake Factor for Inhalation ( $\text{m}^3/\text{kg-day}$ )
DBR	= Daily Breathing Rate ( $\text{L/kg-day}$ )
CF	= Conversion Factor ( $\text{m}^3/\text{L}$ )
EF	= Exposure Frequency (days/year)
ED	= Exposure Duration (years)
T	= Modeling-adjustment factor (unitless)
ET	= Exposure Time (hours/day)
AT	= Averaging Time (days)

### **Toxicity Assessment**

The toxicity values for DPM used in this evaluation are summarized in Table 8.

Both the USEPA and Cal/EPA have identified diesel exhaust as a respiratory carcinogen. In 1998, Cal/EPA listed DPM as a TAC based on its potential to cause cancer and other adverse health effects. Diesel exhaust is a complex mixture that includes hundreds of individual constituents (Cal/EPA 1998). Under California regulatory guidelines, diesel exhaust, as a mixture, is identified by the State of California as a known carcinogen (Cal/EPA 1998, 2009a). However, under California regulatory guidelines (Cal/EPA 1998, 2009a), DPM is used as a surrogate measure of exposure for the mixture of chemicals that make up diesel exhaust as a whole. Consistent with Cal/EPA risk assessment guidance, we used the Cal/EPA cancer potency factor (CPF) for DPM to estimate cancer risks associated with exposure to diesel emissions (Cal/EPA 2014b). The chronic reference exposure level (REL) for DPM represents the average daily exposure concentrations at (or below) which no adverse health effects are anticipated (Cal/EPA 2014a). An acute REL has not been published by Cal/EPA and therefore acute impacts for DPM were not evaluated.

### **Age-Sensitivity Factors**

The current BAAQMD CEQA Guidelines recommend estimation of cancer risk using methods from the Office of Environmental Health Hazard Assessment (OEHHA) *Technical Support Document for Cancer Potency Factors: Methodologies for Derivation, Listing of Available Values, and Adjustment to Allow for Early Life Stage Exposures* (BAAQMD 2012a; Cal/EPA 2009b). The OEHHA Technical Support Document (TSD) proposes the use of age-specific sensitivity factors (ASFs) to account for an "anticipated sensitivity to carcinogens" of infants and children to carcinogens. Under the revised approach, cancer risk estimates are weighted by a factor of 10 for exposures that occur from the third trimester of pregnancy to two years of age and by a factor of three for exposures that occur from two years to 16 years of age. No weighting factor (i.e., an ASF of one, which is equivalent to no adjustment) is applied to ages 16 to 70 years.

ENVIRON used the guidelines provided by BAAQMD and in the OEHHA TSD to develop ASF values for this evaluation as presented in Table 7.

### **Estimation of Cancer Risks**

The following equation was used to calculate excess lifetime cancer risk:

$$\text{Risk}_i = C_i \times CF \times IF_{inh} \times CPF_i \times ASF$$

Where:

Risk <sub>i</sub>	= Lifetime Excess Cancer Risk from exposure to chemical <sub>i</sub>
C <sub>i</sub>	= Annual Average Air Concentration for chemical <sub>i</sub> ( $\mu\text{g}/\text{m}^3$ )
CF	= Conversion Factor (mg/ $\mu\text{g}$ )
IF <sub>inh</sub>	= Intake Factor for Inhalation ( $\text{m}^3/\text{kg}\cdot\text{day}$ ), See equation above.
CPF <sub>i</sub>	= Cancer Potency Factor for chemical <sub>i</sub> ( $\text{mg}/\text{kg}\cdot\text{day}$ ) <sup>-1</sup>
ASF	= Age Sensitivity Factor (unitless)

Carcinogenic risks are estimated as the incremental probability that an individual will develop cancer over a lifetime as a direct result of exposure to potential carcinogens (Cal/EPA 2003). The estimated risk is expressed as a unitless probability.

### **Estimation of Chronic Noncancer Hazard Quotients/Indices**

The potential for exposure to result in chronic noncancer effects is evaluated by comparing the estimated annual average air concentration to the noncancer chronic REL for DPM. When calculated for a single chemical, the comparison yields a ratio termed a hazard quotient (HQ). To evaluate the potential for adverse chronic noncancer health effects from simultaneous exposure to multiple chemicals, the HQs for all chemicals are summed, yielding a HI.

The equation used to calculate the HQs is:

$$HQ_i = C_i / cREL_i$$

Where:

$HQ_i$	= Hazard Quotient for Chemical <sub>i</sub>
$C_i$	= Average Daily Air Concentration for Chemical <sub>i</sub> ( $\mu\text{g}/\text{m}^3$ )
$cREL_i$	= Chronic Noncancer Reference Exposure Level for Chemical <sub>i</sub> ( $\mu\text{g}/\text{m}^3$ )

#### **3.3.4. Other Offsite Stationary Sources**

Cancer risks and hazard indices from offsite stationary sources within the 1,000 foot buffer of the Stanford in Redwood City campus, other than those discussed above (Genentech, Inc., AT&T Corporation, and City of Redwood City #8511), were evaluated using the BAAQMD Stationary Source Screening Analysis Tool, with a parallel methodology to that discussed for PM<sub>2.5</sub> impacts in Section 3.2.2 above.

#### **3.3.5. Roadways**

Cancer risks and hazard indices from all roads within 1,000 feet of the Site with daily traffic of greater than 10,000 ADT were evaluated, with a parallel methodology to that discussed for PM<sub>2.5</sub> impacts in Section 3.2.3 above.

Since screening cancer risks reflect the excess cancer risk assuming a 70-year residential exposure, cancer risks were adjusted to reflect the potential exposure of an onsite daycare child.<sup>13</sup>

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<sup>13</sup> Exposure assumptions for an adult resident are presented in Table 7.

## 4. Results

### 4.1. Potential Daycare Placement Area

Based on BAAQMD screening tools available at the time of the 2010 analysis, a “potential daycare placement area” was designated where, with the exclusion of Pentair Thermal Management, PM<sub>2.5</sub> concentrations and risks and hazards were below applicable thresholds. The limiting factor at the time of the 2010 analysis was PM<sub>2.5</sub> impacts from Highway 101 which did not drop below the single source threshold of 0.3 µg/m<sup>3</sup> until a distance of 700 feet from the highway. This original “potential daycare placement area” was designated in Figure 5 of the 2010 HHRA.

Due to updates to the BAAQMD screening tools (e.g. the BAAQMD Highway Screening Analysis Tool), this area has been redefined as shown in Figure 4 of this addendum. The limiting factor (with the exclusion of Pentair Thermal Management) is now cancer risks from Highway 101, which, when evaluated for daycare exposure, do not drop below the cancer risk single source threshold of 10 in a million until a distance of 405 feet from the highway. Further limitations due to PM<sub>2.5</sub> concentrations from the Pentair Thermal Management Facility are discussed below and are presented in later figures.

### 4.2. Individual PM<sub>2.5</sub> Assessment, Pentair Thermal Management Operations

Based on results of the air dispersion modeling performed for the Pentair Thermal Management operations at 2501 and 2555 Bay Road, Redwood City, resulting PM<sub>2.5</sub> concentrations across the potential daycare placement area on the Stanford in Redwood City campus are shown in Figure 5. As can be seen in this figure, PM<sub>2.5</sub> concentrations from Pentair Thermal Management operations are below the single source threshold of 0.3 µg/m<sup>3</sup> over the majority of the potential daycare placement area.

### 4.3. Cumulative PM<sub>2.5</sub> Assessment

Using a combination of screening assessments and refined modeling, cumulative PM<sub>2.5</sub> impacts were assessed across the potential daycare placement area identified on the Stanford in Redwood City campus. Figure 6 presents the cumulative PM<sub>2.5</sub> concentrations including impacts from Pentair Thermal Management, future potential project emergency generators, offsite stationary sources, and roadways. Contributions from each group of sources are presented in Table 9 and in further detail below (and above for Pentair Thermal Management).

As can be seen from Figures 5 and 6, individual PM<sub>2.5</sub> impacts from the Pentair Thermal Management Facility are the limiting factor on the west side of the Project site. Considering both the cancer risk limitation from Highway 101 and the PM<sub>2.5</sub> impacts from Pentair Thermal Management, Figure 7 shows the area across the Project site where a daycare could be located and meet the requirements under Mitigation Measure 8-3.

#### 4.3.1. Onsite Stationary Sources

Maximum onsite impacts from future potential Project emergency generators are presented in Table 9.

### **4.3.2. Offsite Stationary Sources**

Offsite stationary sources within the 1,000 foot buffer and related PM<sub>2.5</sub> impacts on the Stanford in Redwood City campus are summarized in Table 9. Details of the derivation of PM<sub>2.5</sub> concentrations are presented in Appendix D.

### **4.3.3. Roadways**

Table 9 presents the maximum impacts from applicable roadways within the potential daycare placement area identified in Figure 4. Detailed results of the Highway 101 screening analysis and the surface street screening analysis for Broadway Street and Bay Road are presented in Appendix E. When evaluating cumulative PM<sub>2.5</sub> impacts across the Project site, PM<sub>2.5</sub> concentrations are estimated by the corresponding distance "bin" from the edge of each respective roadway.

## **4.4. Individual and Cumulative Cancer Risk and Hazard Index Analyses**

Using a combination of screening assessments and refined modeling, cancer risks and hazard indices were assessed across the potential daycare placement area identified on the Stanford in Redwood City campus. As shown in Table 9, the single source and cumulative thresholds of 10 and 100 in a million for cancer risks and 1 and 10 for chronic HI are not triggered when evaluating potential exposure for an onsite daycare. Additionally, the single source threshold of 1 for acute HI is not triggered. Details of the offsite stationary source and roadway analyses are shown in Appendices D and E, respectively.

## **4.5. Proposed Daycare Location**

While Figure 7 shows the area where a daycare could be located and meet the requirements under Mitigation Measure 8-3, Stanford is currently proposing to place the daycare at Building A1, as shown in Figure 8.

Due to the potential for BAAQMD to limit the operation of generators within 500 feet of a daycare location (referred to as the "near-school provision"), ENVIRON performed an additional model run for the Project emergency generators to confirm the proposed daycare siting. The BAAQMD "near-school provision" prohibits the operation of nearby generators between 7:30 am and 3:30 pm on days when school is in session. This limitation was assumed to apply to any generators within 500 feet of the proposed daycare. Since the ISC model only allows hourly refinement, nearby generators were assumed to operate between 3 pm and 7 pm. The resulting change in PM<sub>2.5</sub> concentrations and cancer risks are shown in Appendix F. ISC-Prime input and output files for this additional model run are also included in Appendix F.

Based on the analyses performed above, the PM<sub>2.5</sub> concentrations and risks and hazards at the proposed daycare location shown in Figure 8 are below the thresholds specified in Mitigation Measure 8-3.

## 5. References

- Bay Area Air Quality Management District (BAAQMD). 2011a. Technical Memorandum. To: Phil Martien and Virginia Lau, BAAQMD. From: John Stilley and Stephen Reid (Sonoma Technology, Inc.). Re: Default Modeling Parameters for Stationary Sources. April 1.
- BAAQMD. 2011b. California Environmental Quality Act Air Quality Guidelines. May.
- BAAQMD. 2012a. California Environmental Quality Act Air Quality Guidelines. May.
- BAAQMD. 2012b. Recommended Methods for Screening and Modeling Local Risks and Hazards. May.
- California Environmental Protection Agency (Cal/EPA). 1998. Findings of the Scientific Review Panel on The Report on Diesel Exhaust, as adopted at the Panel's April 22, 1998, meeting. Office of Environmental Health Hazard Assessment.
- Cal/EPA. 2003. The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments. Office of Environmental Health Hazard Assessment. August.
- Cal/EPA. 2009a. Air Toxics Hot Spots Program Risk Assessment Guidelines: Part II Technical Support Document for Describing Available Cancer Potency Factors. Office of Environmental Health Hazard Assessment. May.
- Cal/EPA. 2009b. Technical Support Document for Cancer Potency Factors: Methodologies for Derivation, Listing of Available Values, and Adjustment to Allow for Early Life Stage Exposures. May.
- Cal/EPA. 2014a. OEHHA Acute, 8-hour and Chronic Reference Exposure Level (REL) Summary. Office of Environmental Health Hazard Assessment. June.
- Cal/EPA. 2014b. Toxicity Criteria Database. Accessed November.
- Caterpillar. Standby Diesel Generator Set Specification Sheet. 500 ekW, 625 kVA, 60 Hz, 1800 rpm, 480 Volts, EPA Tier 4 Interim. Available online at: <http://s7d2.scene7.com/is/content/Caterpillar/LEHE0305-01>. Accessed November, 2014.
- Google Earth. 2014. Imagery date of February 23, 2014. Available for download at: <https://www.google.com/earth/>.
- United States Environmental Protection Agency (USEPA). 1995. User's Guide for the Industrial Source Complex (ISC3) Dispersion Models. Volume II – Description of Model Algorithms. Office of Air Quality Planning and Standards Emissions, Monitoring, and Analysis Division. Research Triangle Park, North Carolina. September.
- USEPA. 2009. AERMOD Implementation Guide. AERMOD Implementation Workgroup, Office of Air Quality Planning and Standards, Air Quality Assessment Division. Research Triangle Park, North Carolina. March 19.

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United States Geological Survey (USGS). National Elevation Dataset. Available for download at:  
<http://ned.usgs.gov/>. Accessed March, 2013.

## **Tables**

**Table 1**  
**Redwood City NAAQS Comparison**  
**Stanford in Redwood City**  
**Redwood City, California**

Year	Number of Days above 24-hr standard <sup>1,2</sup>	ARB Annual Average <sup>3</sup> ( $\mu\text{g}/\text{m}^3$ )	BAAQMD Annual Average <sup>4</sup> ( $\mu\text{g}/\text{m}^3$ )	3-year Average of Annual Mean <sup>5</sup> ( $\mu\text{g}/\text{m}^3$ )	Exceedance of Primary Standard
2004	5	11.2	11	-	-
2005	7	12.2	12	-	-
2006	2	9.7	9	10.7	NO
2007	5	10.0	10	10.3	NO
2008	1	10.6	11	10.0	NO
2009	0	10.3	10	10.3	NO
2010	1	8.4	9	10.0	NO
2011	1	8.8	9	9.3	NO
2012	0	8.5	9	9.0	NO
2013	3	10.8	11	9.7	NO

**Notes:**

1. Number of days in exceedance of NAAQS according to ARB meteorological data collected in Redwood City.
2. National Ambient Air Quality Standards (NAAQS) are federal standards for air quality and California Ambient Air Quality Standards (CAAQS) are state-specific standards for air quality. PM<sub>2.5</sub> standards are summarized in the table below.

24-hr (NAAQS)	Primary & Secondary	35	$\mu\text{g}/\text{m}^3$
Annual (NAAQS & CAAQS)	Primary	12.0	$\mu\text{g}/\text{m}^3$
Annual (NAAQS)	Secondary	15.0	$\mu\text{g}/\text{m}^3$

3. Annual average was calculated as the average of all reported daily averages.
4. BAAQMD annual average is the average reported by BAAQMD based on Redwood City monitoring data.
5. A 3-year average of the annual mean is taken for comparison to the annual primary PM<sub>2.5</sub> standard.

**Abbreviations:**

BAAQMD = Bay Area Air Quality Management District  
hr = hour  
 $\mu\text{g}$  = micrograms  
NAAQS = National Ambient Air Quality Standards  
PM<sub>2.5</sub> = particulate matter less than 2.5 micrometers in diameter

**Sources:**

- Air Resources Board, Air Quality Data (PST) Query Tool, Accessed 19 August 2014:  
<http://www.arb.ca.gov/aqmis2/aqdselect.php?tab=specialrpt>
- Bay Area Air Quality Management District, Air Quality Data Display System, Accessed 19 August 2014:  
<http://gate1.baaqmd.gov/aqmet/AQYearly.aspx>
- USEPA, National Ambient Air Quality Standards (NAAQS), Accessed 19 August 2014: <http://www.epa.gov/air/criteria.html>

**Table 2**  
**Building Downwash Parameters**  
**Stanford in Redwood City**  
**Redwood City, California**

Building ID <sup>1</sup>	Building Centroid UTM East <sup>2</sup> (m)	Building Centroid UTM North <sup>2</sup> (m)	Elevation (m)	Height (m)
F1	570,173.2	4,149,000.7	2.89	18.3
F2	570,048.5	4,148,937.8	3.78	18.3
F3	570,116.1	4,148,910.2	3.92	18.3
F4	570,206.8	4,148,890.7	4.13	18.3
F5	570,349.1	4,148,852.0	3.02	22.9
F6	570,422.6	4,148,837.3	3.25	15.2
F7	570,544.1	4,148,933.7	2.62	19.8
F8	570,613.1	4,148,922.6	2.76	14.9
F9	570,405.4	4,148,971.8	2.68	22.9
F10	570,480.8	4,148,946.9	3.16	22.9
F11	570,236.4	4,148,993.6	3.02	22.9
F12	570,341.5	4,148,975.5	2.94	18.3
F13	570,359.4	4,149,066.2	2.79	22.9
F14	570,341.7	4,149,122.5	2.96	36.6
F15	570,289.3	4,149,096.9	2.18	18.3
F16	570,211.4	4,149,141.7	2.40	21.3
F17	570,105.2	4,149,029.4	3.35	22.9
F18	570,284.1	4,148,867.2	4.16	18.3
C1	570,204.3	4,149,094.1	2.88	7.0
C2	570,577.8	4,149,084.6	3.97	21.3
C5	570,510.7	4,149,094.2	3.71	21.3
C6	570,015.3	4,148,997.2	3.57	4.9
C7	569,917.7	4,148,992.0	3.84	7.9
C8	569,810.5	4,149,011.4	3.79	6.7
C9	570,038.1	4,149,049.3	2.66	7.9
C10	569,950.3	4,149,069.7	2.64	7.3
C11	569,896.4	4,149,082.3	3.22	7.0
C12	569,810.2	4,149,093.8	2.81	7.9
C13	569,750.2	4,149,047.2	3.48	6.4
C14	569,738.9	4,149,014.3	3.38	6.7
C15	569,748.6	4,148,977.8	3.69	7.0
C16	569,930.6	4,148,884.5	3.71	7.6
C17	569,764.1	4,148,919.7	3.73	7.9
C18	569,787.6	4,148,920.0	3.89	5.8
C19	569,811.9	4,148,908.0	3.82	7.0
C4	570,465.3	4,149,057.4	4.12	16.0
C3	570,592.0	4,149,032.7	4.04	16.0
C20	570,637.4	4,148,551.9	5.78	5.5
C21	570,646.4	4,148,513.6	5.67	10.4
C22	570,673.2	4,148,500.2	5.63	15.5
C23	570,688.7	4,148,477.9	5.54	52.4
C24	570,665.3	4,148,906.6	3.50	4.3
C25	570,665.1	4,148,915.6	3.52	4.9
C26	570,672.5	4,148,928.9	3.29	7.0
C27	570,691.7	4,149,019.6	2.97	18.6

**Notes:**

1. "C" denotes a current (existing) building, while "F" denotes a future building.
2. Refer to modeling files for coordinates of each vertex.

**Abbreviations:**

m = meter

UTM = Universal Transverse Mercator

**Sources:**

Google Earth. 2014. Imagery date of February 23, 2014. Available for download at:  
<https://www.google.com/earth/>.

**Table 3**  
**Pentair Thermal Management Modeled Point Sources**  
**Stanford in Redwood City**  
**Redwood City, California**

Source Number	Source	UTM East (m)	UTM North (m)	Base Elevation (m)	Modeled Emission Rate (g/s)	Actual Emission Rate (g/s)	Stack Height (m)	Stack Diameter (m)	Stack Temperature (K)	Exhaust Velocity (m/s)
P1	Davis Extruders (S1, 33, 34, 54)	569,979.1	4,148,942.7	3.92	1	1.6E-02	10.7	0.60	298	14.4
P2	Fiber Extruders (S70-73)	569,935.1	4,148,988.8	3.95	1	1.6E-02	12.2	0.50	394	2.7
P3	Beringer Cleaning Unit (S106)	569,827.4	4,149,017.3	3.91	1	5.9E-06	11.0	0.40	293	13.2
P4	Compounding Area (S107, 108)	569,989.2	4,149,013.6	3.62	1	4.9E-04	6.9	0.50	293	11.3
P5	Carbon Feeder (S110)	569,857.4	4,148,994.3	3.89	1	3.1E-05	9.1	0.40	293	8.5
P6	Beringer Vacuum (S111)	569,934.9	4,148,988.9	3.95	1	3.0E-05	7.0	0.20	293	40.8

**Abbreviations:**

BAAQMD = Bay Area Air Quality Management District

g/s = grams per second

K = Kelvin

m = meter

m/s = meters per second

UTM = Universal Transverse Mercator

SSIF = Stationary Source Inquiry Form

**Sources:**

BAAQMD. 2014. Public Records request and Stationary Source Inquiry Form (SSIF) request. Requests made on August 13, 2014 and August 20, 2014, respectively.

**Table 4**  
**Pentair Thermal Management Modeled Volume Sources**  
**Stanford in Redwood City**  
**Redwood City, California**

Source Number	Source	UTM East <sup>1</sup> (m)	UTM North <sup>1</sup> (m)	Base Elevation (m)	Modeled Emission Rate (g/s)	Actual Emission Rate (g/s)	Release Height <sup>2</sup> (m)	Initial Lateral Dimension <sup>3</sup> (m)	Initial Vertical Dimension <sup>4</sup> (m)
V1_1	Sparking Line (S9-24)	569952.1	4149004.6	3.87	1.0	5.0E-03	7.9	1.4	3.69
V1_2		569951.5	4149001.7	3.88					
V1_3		569950.9	4148998.7	3.89					
V1_4		569950.4	4148995.8	3.89					
V2_1	Dryers & Hoppers (S41-44, 46, 49-52, 66-68)	569947.6	4148990.2	3.91	1.0	3.3E-04	7.9	2.79	3.69
V2_2		569946.4	4148984.3	3.91					
V2_3		569945.4	4148978.4	3.9					
V2_4		569944.2	4148972.5	3.74					
V3_1	Building, 2555 Bay Road (S84-85)	569982.4	4148999.0	3.86	1.0	2.5E-03	7.9	9.3	3.69
V3_2		569978.9	4148979.3	3.92					
V3_3		569975.6	4148959.6	3.91					
V3_4		569972.1	4148939.9	3.93					
V3_5		569962.7	4149002.5	3.85					
V3_6		569959.2	4148982.8	3.9					
V3_7		569955.9	4148963.1	3.89					
V3_8		569952.4	4148943.4	3.89					
V4_1	Building, 2501 Bay Road (S25-28)	569840.8	4149027.3	3.84	1.0	2.9E-03	7.9	11.63	3.69
V4_2		569865.4	4149022.6	3.82					
V4_3		569889.9	4149018.0	3.89					
V4_4		569914.5	4149013.4	3.97					
V4_5		569939.1	4149008.7	3.92					
V4_6		569836.2	4149002.7	3.9					
V4_7		569860.7	4148998.1	3.88					
V4_8		569885.3	4148993.4	3.92					
V4_9		569909.9	4148988.8	4					
V4_10		569934.4	4148984.2	3.95					

**Notes:**

1. Represents the coordinates of the first vertex as it appears in the modeling files.
2. Release heights have been set to the building height.
3. The initial lateral dimension for each volume source represents the length of the side divided by 2.15, per model guidance.
4. The initial vertical dimension for each volume source represents the building height divided by 2.15, per model guidance.

**Abbreviations:**

BAAQMD = Bay Area Air Quality Management District

g/s = grams per second

m = meter

UTM = Universal Transverse Mercator

SSIF = Stationary Source Inquiry Form

**Sources:**

BAAQMD. 2014. Public Records request and Stationary Source Inquiry Form (SSIF) request. Requests made on August 13, 2014 and August 20, 2014, respectively.

**Table 5**  
**Potential Project Emergency Generators, Modeled Point Sources**  
**Stanford in Redwood City**  
**Redwood City, California**

Source Number	Source	UTM East (m)	UTM North (m)	Base Elevation (m)	Modeled Emission Rate (g/s) <sup>1</sup>	Stack Height (m) <sup>2</sup>	Stack Diameter (m) <sup>2</sup>	Stack Temperature (K) <sup>3</sup>	Exhaust Velocity (m/s) <sup>3</sup>
NEW_EG1	New Onsite Generator	570,550.9	4,148,884.2	3.12	8.88E-05	3.7	0.18	957	57.2
NEW_EG2	New Onsite Generator	570,609.6	4,148,867.3	3.36	8.88E-05	3.7	0.18	957	57.2
NEW_EG3	New Onsite Generator	570,412.7	4,148,954.2	3.38	8.88E-05	3.7	0.18	957	57.2
NEW_EG4	New Onsite Generator	570,491.9	4,148,895.6	2.96	8.88E-05	3.7	0.18	957	57.2
NEW_EG5	New Onsite Generator	570,369.4	4,148,816.5	3.82	8.88E-05	3.7	0.18	957	57.2
NEW_EG6	New Onsite Generator	570,274.0	4,148,986.2	3.47	8.88E-05	3.7	0.18	957	57.2
NEW_EG7	New Onsite Generator	570,353.0	4,148,934.2	3.38	8.88E-05	3.7	0.18	957	57.2
NEW_EG8	New Onsite Generator	570,293.7	4,148,832.2	3.88	8.88E-05	3.7	0.18	957	57.2
NEW_EG9	New Onsite Generator	570,136.2	4,149,017.8	3.37	8.88E-05	3.7	0.18	957	57.2
NEW_EG10	New Onsite Generator	570,185.8	4,148,951.6	4.09	8.88E-05	3.7	0.18	957	57.2
NEW_EG11	New Onsite Generator	570,048.0	4,148,898.8	3.92	8.88E-05	3.7	0.18	957	57.2
NEW_EG12	New Onsite Generator	570,386.7	4,149,099.3	2.71	8.88E-05	3.7	0.18	957	57.2
NEW_EG13	New Onsite Generator	570,375.7	4,149,036.3	2.39	8.88E-05	3.7	0.18	957	57.2
NEW_EG14	New Onsite Generator	570,447.3	4,148,797.3	3.69	8.88E-05	3.7	0.18	957	57.2

**Notes:**

1. Modeled emission rates are reflective of actual emission rates and assume that the new onsite generators will be Tier 4 Interim (model years 2011-2014) and 560 kW.
2. Stack height and stack diameter represent the median default modeling parameters for stationary diesel engines, as presented in the technical memorandum from Sonoma Technology Inc. to BAAQMD, prepared specifically to assist with CEQA evaluations.
3. Stack temperature and flow rate (used to derive exit velocity) were obtained from a Caterpillar spec sheet for a Tier 4 generator of similar size (500 kW).

**Abbreviations:**

BAAQMD = Bay Area Air Quality Management District

g/s = grams per second

K = Kelvin

m = meter

m/s = meters per second

UTM = Universal Transverse Mercator

**Sources:**

BAAQMD. 2011. Technical Memorandum. To: Phil Martien and Virginia Lau, BAAQMD. From: John Stilley and Stephen Reid (Sonoma Technology, Inc.). Re: Default Modeling Parameters for Stationary Sources. April 1.

Caterpillar. Standby Diesel Generator Set Specification Sheet. 500 ekW, 625 kVA, 60 Hz, 1800 rpm, 480 Volts, EPA Tier 4 Interim. Available online at: <http://s7d2.scene7.com/is/content/Caterpillar/LEHE0305-01>. Accessed, November 2014.

**Table 6**  
**Offsite Diesel Generators, Modeled Point Sources**  
**Stanford in Redwood City**  
**Redwood City, California**

Source Number	Source	UTM East (m)	UTM North (m)	Base Elevation (m)	Modeled Emission Rate (g/s)	Actual Emission Rate (g/s) <sup>1</sup>	Stack Height (m) <sup>2</sup>	Stack Diameter (m) <sup>2</sup>	Stack Temperature (K) <sup>2</sup>	Exhaust Velocity (m/s) <sup>2</sup>
EG1	AT&T Corporation	570,612.0	4,148,544.7	5.51	1	1.6E-03	3.7	0.18	740	45.3
EG2	Genentech Inc., Generator 90a	570,142.5	4,149,105.4	2.88	1	8.7E-04	3.7	0.18	740	45.3
	Genentech Inc., Generator 90b				1	8.7E-04				
	Genentech Inc., Generator 3rd Standby				1	1.1E-05				
EG3	City of Redwood City #8511	570,667.7	4,148,919.5	3.47	1	4.2E-05	3.7	0.18	740	45.3

**Notes:**

1. Actual emission rates were obtained from a Stationary Source Information Form (SSIF) Request to the BAAQMD. Lb/day emission rates were converted to g/s assuming 24 hours per day operation.
2. Parameters for offsite generators represent the median default modeling parameters for stationary diesel engines, as presented in the technical memorandum from Sonoma Technology Inc. to BAAQMD, prepared specifically to assist with CEQA evaluations.

**Abbreviations:**

BAAQMD = Bay Area Air Quality Management District

g/s = grams per second

K = Kelvin

m = meter

m/s = meters per second

UTM = Universal Transverse Mercator

**Sources:**

BAAQMD. 2011. Technical Memorandum. To: Phil Martien and Virginia Lau, BAAQMD. From: John Stilley and Stephen Reid (Sonoma Technology, Inc.). Re: Default Modeling Parameters for Stationary Sources. April 1.

**Table 7**  
**Exposure Assumptions**  
**Stanford in Redwood City**  
**Redwood City, California**

Parameter Symbol	Parameter Definition	Units	Receptor Population		For Cancer Risk Scaling <sup>5</sup>	
			Day Care Child	Adult Resident		
IR	Inhalation Rate	L/kg-day	581	1	302	1
ET	Exposure Time	hours/day	12		24	1
EF	Exposure frequency	days/year	245	1	350	1
ED	Exposure duration	years	4.9	2	70	1
T	Modeling Adjustment Factor	unitless	2.8	3	1	
CF1	Conversion Factor 1	mg/µg	1.E-03		1.E-03	
CF2	Conversion Factor 2	day/24 hours	0.042		0.042	
AT	Averaging time	days	25,550		25,550	
ASF	Age Sensitivity Factor	unitless	5.7	4	1.7	1

**Notes:**

1. BAAQMD 2010.
2. Children were assumed to attend the daycare from age 6 weeks to 5 years.
3. Since the annual average concentrations were estimated assuming continuous exposure (i.e., 24 hours per day, 7 days per week), an adjustment must be applied to the modeling to account for the time the receptor is actually present at school or work (Cal/EPA 2003). The daycare child is assumed to be present at a daycare location 12 hours per day, 5 days per week. Therefore, a factor of 2.8 (equal to [24 hours/12 hours]\*[7 days/5 days]) was applied to account for the difference in exposure time.
4. For the daycare child, a weighted average age sensitivity factor (ASF) corresponding to ages 6 weeks to 5 years was calculated using the age bins prescribed by BAAQMD (2010).
5. Exposure assumptions for an adult resident are provided here for purposes of scaling screening cancer risks presented in the BAAQMD Highway Screening Analysis Tool and the BAAQMD Roadway Screening Analysis Tables.

**Abbreviations:**

BAAQMD = Bay Area Air Quality Management District

L = Liter

kg = kilogram

mg = milligram

µg = microgram

**Sources:**

- BAAQMD. 2010. BAAQMD Air Toxics NSR Program Health Risk Screening Analysis (HRSA) Guidelines. January.
- California Environmental Protection Agency (Cal/EPA). 2003. Air Toxics Hot Spots Program Risk Assessment Guidelines: The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments. Office of Environmental Health Hazard Assessment. August.

**Table 8**  
**Toxicity Values**  
**Stanford in Redwood City**  
**Redwood City, California**

Chemical	Cancer Potency Factor <sup>1</sup>	Chronic Reference Exposure Level <sup>1,2</sup>	Acute Reference Exposure Level <sup>2</sup>
	([mg/kg-day] <sup>-1</sup> )	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Diesel PM	1.1	5	----

**Notes:**

1. Cal/EPA Nov 2014.
2. Cal/EPA June 2014.

**Abbreviations:**

Cal/EPA = California Environmental Protection Agency

---- = Value not available.

ug/m<sup>3</sup> = micrograms per cubic meter

[mg/kg-day]<sup>-1</sup> = per milligram per kilogram-day

**Sources:**

Cal/EPA. OEHHA Toxicity Criteria Database. Accessed November, 2014.

Cal/EPA. 2014. OEHHA Acute, 8-hour and Chronic Reference Exposure Levels (REL) Summary. Office of Environmental Health Hazard Assessment. June.

**Table 9**  
**Cumulative Analysis**  
**Stanford in Redwood City**  
**Redwood City, California**

Source Description		PM <sub>2.5</sub> Concentration ( $\mu\text{g}/\text{m}^3$ )	Cancer Risk (in a million)	Chronic HI	Acute HI
<b>Single Source</b>					
Onsite Sources	Potential Project Standby Diesel Generators (maximum onsite)	0.02	3.8	0.003	--
	Pentair Thermal Management facility (formerly Tyco) <sup>1</sup>	See Figure 5	0	0	--
	Genentech Inc., Generator 90a (maximum onsite) <sup>2</sup>	0.03	7.1	0.01	--
	Genentech Inc., Generator 90b (maximum onsite) <sup>2</sup>	0.03	7.1	0.01	--
	Genentech Inc., Generator, 3rd Standby (maximum onsite) <sup>2</sup>	0.0004	0.1	0.0001	--
	AT&T Corporation (maximum onsite) <sup>2</sup>	0.004	0.9	0.001	--
	City of Redwood City #8511 (maximum onsite) <sup>2</sup>	0.004	1.0	0.001	--
Offsite Sources	Stanford Medicine Outpatient Center <sup>3</sup>	0.01	4.3	0.002	--
	Quality Auto Body & Painting <sup>3</sup>	0	0.3	0.001	--
	Smilovitz Professional Services <sup>3</sup>	0	0	0.001	--
	Precision Micro Components <sup>3</sup>	0	1.7	0.001	--
	MCI <sup>3</sup>	0.0005	2.1	0.001	--
	Paw Prints Inc. <sup>3</sup>	0	0.3	0.001	--
	City of Redwood City <sup>3</sup>	0.0002	0.9	0.0004	--
Roadways	Highway 101 (maximum within potential daycare area) <sup>4</sup>	0.2	10.0	0.02	0.02
	Bay Road (maximum within potential daycare area) <sup>5</sup>	0.1	1.49	<0.02	<0.02
	Broadway (maximum within potential daycare area) <sup>5</sup>	0.2	2.19	<0.02	<0.02
<b>BAAQMD CEQA Threshold<sup>6</sup></b>	--	<b>0.3</b>	<b>10.0</b>	<b>1.0</b>	<b>1.0</b>
<b>Over Threshold?</b>	--	<b>NO, See Figure 5</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
<b>Cumulative Sources</b>					
Total <sup>7</sup>	--	See Figure 6	43.2	0.09	0.06
<b>BAAQMD CEQA Threshold<sup>6</sup></b>	--	<b>0.8</b>	<b>100</b>	<b>10.0</b>	<b>N/A</b>
<b>Over Threshold?</b>	--	<b>See Figure 6</b>	<b>NO</b>	<b>NO</b>	<b>N/A</b>

**Notes:**

1. PM<sub>2.5</sub> concentration for the Pentair Thermal Management facility varies across the site as determined by dispersion modeling. Predicted concentrations are presented in Figure 5.
2. Offsite generator impacts were modeled across the site, though only the maximum onsite risks/concentrations are shown here. Cancer risks represent the excess cancer risk (in a million) for a daycare.
3. For offsite sources where refined modeling was not performed, PM<sub>2.5</sub> concentrations and risks and hazards were determined through BAAQMD screening tools, as detailed in Appendix D.
4. Highway 101 risks/concentrations are conservatively based on the BAAQMD Highway Screening Analysis Tool, as detailed in Appendix E. Risks/concentrations across the project site are estimated by the corresponding distance "bin" (100 ft, 200 ft, 500 ft, etc.) from the edge of Highway 101. Here, the maximum risk/concentration within the potential daycare placement area is presented.
5. Risks/concentrations from Bay Road and Broadway are conservatively based on the BAAQMD Roadway Screening Analysis Tables as detailed in Appendix E. Risks/concentrations across the project site were estimated by the corresponding distance "bin" (10 ft, 50 ft, 100 ft, 200 ft, or 500 ft) from the corresponding roadway. Here, the maximum concentration within the potential daycare placement area is presented.
6. BAAQMD CEQA Guidelines, May 2011.
7. Total PM<sub>2.5</sub> concentration varies across the project site. Concentrations from operation at Pentair Thermal Management were determined by air dispersion modeling (Figure 5), concentrations from offsite sources were determined from a combination of screening tools and air dispersion modeling, and concentrations from each roadway (Highway 101, Bay Road, and Broadway) were determined with screening tools. Net PM<sub>2.5</sub> concentrations are presented in Figure 6.

**Abbreviations:**

BAAQMD = Bay Area Air Quality Management District

CEQA = California Environmental Quality Act

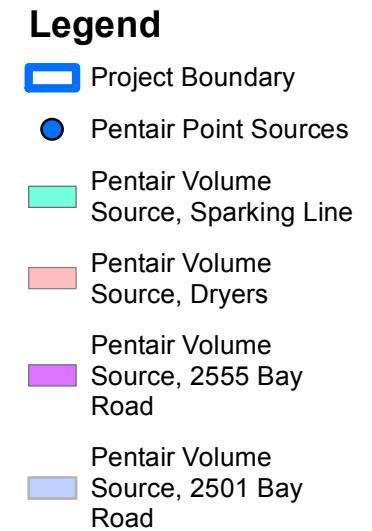
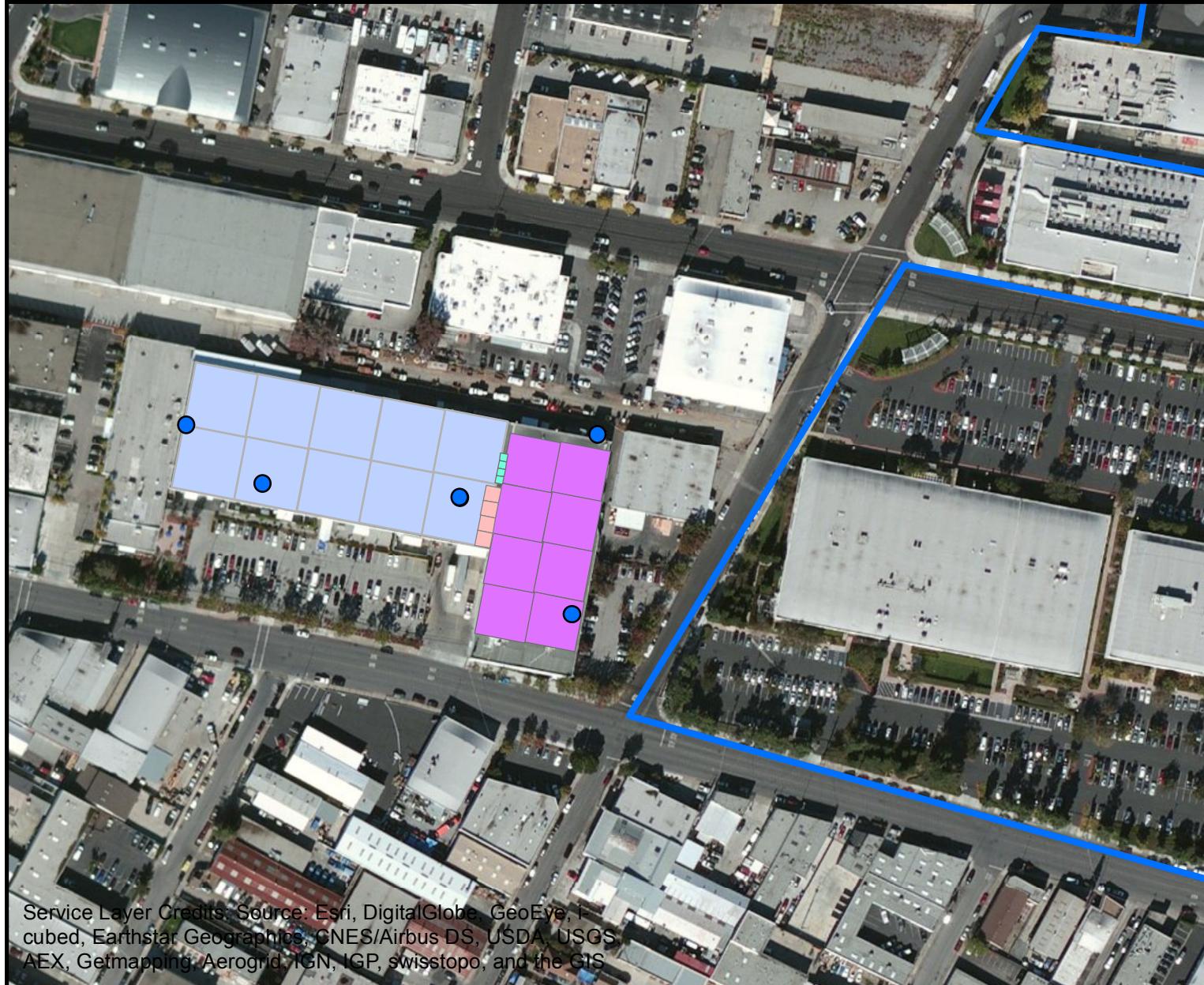
HI = Hazard Index

$\mu\text{g}/\text{m}^3$  = microgram per cubic meter

**Sources:**

BAAQMD. 2011. California Environmental Quality Act Air Quality Guidelines. May.

## Figures



0 125 250  
Feet

0 25 50  
Meters



Figure  
1



**Pentair Thermal Management Source Configuration**  
**Stanford, Redwood City**  
**Redwood City, California**



### Legend

- Project Boundary
- Potential Project Generators
- Potential Project Future Buildings

0 250 500  
Feet

0 50 100  
Meters

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS



Potential Project Emergency Generator Source Configuration  
Stanford, Redwood City  
Redwood City, California



Figure  
2



**Offsite Diesel Generator Source Configuration  
Stanford, Redwood City  
Redwood City, California**



**Figure  
3**



### Legend

- Potential Daycare
- Placement Area (pre-Pentair)
- Project Boundary

0 250 500  
Feet

0 50 100  
Meters

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS



**Potential Daycare Placement Area  
(pre- Pentair Thermal Management Impacts)  
Stanford, Redwood City  
Redwood City, California**



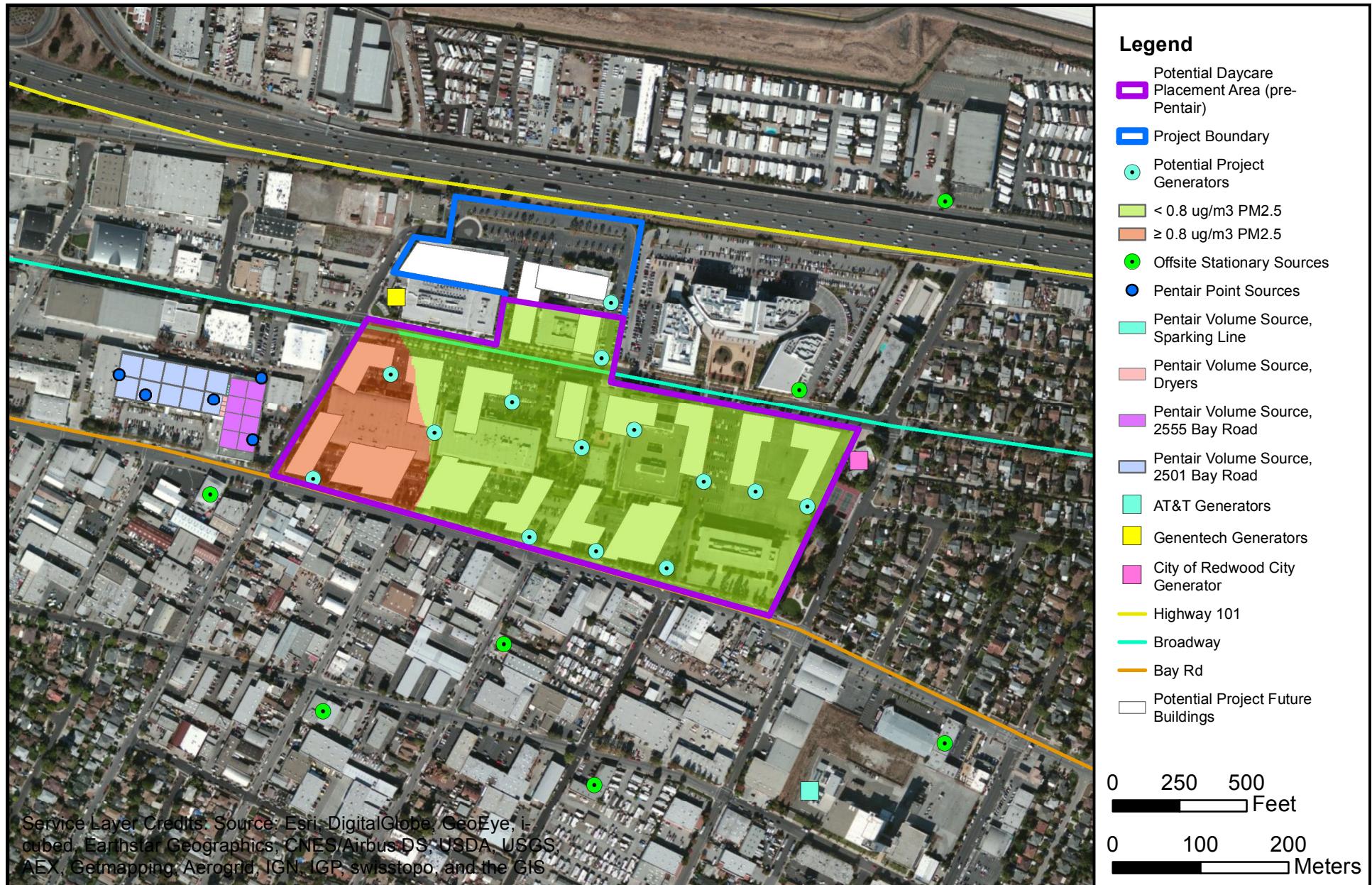
**Figure  
4**



**Pentair Thermal Management PM2.5 Concentration  
Stanford, Redwood City  
Redwood City, California**



**Figure  
5**



**Cumulative PM2.5 Concentration  
Stanford, Redwood City  
Redwood City, California**



**Figure  
6**



## Legend

- Potential Daycare Placement Area (post-Pentair)
- Project Boundary
- Potential Project Future Buildings

0 250 500  
Feet

0 50 100  
Meters

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS



**Potential Daycare Placement Area  
(post- Pentair Thermal Management Impacts)  
Stanford, Redwood City  
Redwood City, California**



**Figure  
7**



- Legend**
- Proposed Daycare (Building A1)
  - Potential Daycare Placement Area (post-Pentair)
  - Project Boundary
  - Potential Project Future Buildings

0 250 500  
Feet

0 50 100  
Meters



**Proposed Daycare Location  
(within the Acceptable Placement Area)  
Stanford, Redwood City  
Redwood City, California**



**Figure  
8**

## Appendix A

### **Pentair Thermal Management Air Dispersion Modeling Files** *[Provided Electronically]*

## A Pentair Thermal Management Air Dispersion Modeling Files

### A.1 Dispersion Model

File Name	File Description
Isc input file	ISC Input File <sup>14</sup>
Isc output file	ISC Output File

#### A.1.1 Plot Files

File Name	File Description
*.plt	Period average plot files for six point sources and four volume sources (10 total)

### A.2 NED File

File Name	File Description
n38W123.tif	National Elevation Dataset, 1° by 1° Terrain Tile for Latitude 37° to 38° and Longitude -123° to -122°

### A.3 AERMAP Files

File Name	File Description
Aermap input file	AERMAP Input File (all sources, buildings, and receptors)
Aermap output file	AERMAP Output File (all sources, buildings, and receptors)
Aermap receptor file	AERMAP Receptor File, elevations and hill heights for all receptors
Aermap source file	AERMAP Source File, elevations for all sources and buildings

### A.4 BPIP PRIME Files

File Name	File Description
Bpip input file	BPIP PRIME Input File

<sup>14</sup> The Pentair Thermal Management ISC input file is also provided as a PDF within Appendix A.

Bpip output file

BPIP PRIME Output File

Bpip summary file

BPIP PRIME Summary File

## A.5 Meteorological Data

### File Name

Red8687.asc

### File Description

Meteorological Data for Redwood City, April 1,  
1986 - March 31, 1987, Processed by BAAQMD

Redwood\_city\_info.txt

Station Information

**Pentair Thermal Management Model Input File**

\*\* BREEZE ISC  
\*\* Trinity Consultants  
\*\* VERSION 7.9  
  
\*\* PRIME

CO STARTING  
CO TITLEONE Pentair Thermal Management  
CO TITLETWO Stanford Redwood City  
CO MODELOPT DEFAULT CONC URBAN  
CO RUNORNOT RUN  
CO AVERTIME 1 PERIOD  
CO POLLUTID OTHER  
CO TERRHGTS ELEV  
CO SAVEFILE TMP.FIL  
CO FINISHED

SO STARTING  
SO ELEVUNIT METERS  
SO LOCATION P1 POINT 569979.12 4148942.72 3.92  
\*\* SRCDESCR Davis Extruders (S1, 33, 34, 54)  
SO LOCATION P2 POINT 569935.09 4148988.77 3.95  
\*\* SRCDESCR Fiber Extruders (S70-73)  
SO LOCATION P3 POINT 569827.44 4149017.30 3.91  
\*\* SRCDESCR Beringer Cleaning Unit (S106)  
SO LOCATION P4 POINT 569989.18 4149013.57 3.62  
\*\* SRCDESCR Compounding Area (S107, 108)  
SO LOCATION P5 POINT 569857.36 4148994.28 3.89  
\*\* SRCDESCR Carbon Feeder (S110)  
SO LOCATION P6 POINT 569934.93 4148988.92 3.95  
\*\* SRCDESCR Beringer Vacuum (S111)  
SO LOCATION V1\_1 VOLUME 569952.08 4149004.61 3.87  
\*\* SRCDESCR Sparking Line (S9-14)  
SO LOCATION V1\_2 VOLUME 569951.53 4149001.66 3.88  
\*\* SRCDESCR Sparking Line (S9-14)  
SO LOCATION V1\_3 VOLUME 569950.98 4148998.71 3.89  
\*\* SRCDESCR Sparking Line (S9-14)  
SO LOCATION V1\_4 VOLUME 569950.42 4148995.76 3.89  
\*\* SRCDESCR Sparking Line (S9-14)  
SO LOCATION V2\_1 VOLUME 569947.59 4148990.16 3.91  
\*\* SRCDESCR Dryers&Hoppers (S41-44, 46, 49-52, 66-68)  
SO LOCATION V2\_2 VOLUME 569946.48 4148984.26 3.91  
\*\* SRCDESCR Dryers&Hoppers (S41-44, 46, 49-52, 66-68)  
SO LOCATION V2\_3 VOLUME 569945.36 4148978.37 3.90  
\*\* SRCDESCR Dryers&Hoppers (S41-44, 46, 49-52, 66-68)  
SO LOCATION V2\_4 VOLUME 569944.24 4148972.47 3.74  
\*\* SRCDESCR Dryers&Hoppers (S41-44, 46, 49-52, 66-68)  
SO LOCATION V3\_1 VOLUME 569982.42 4148999.04 3.86  
\*\* SRCDESCR Building, 2555 Bay Road (S84-85)  
SO LOCATION V3\_2 VOLUME 569978.98 4148979.34 3.92  
\*\* SRCDESCR Building, 2555 Bay Road (S84-85)  
SO LOCATION V3\_3 VOLUME 569975.54 4148959.64 3.91  
\*\* SRCDESCR Building, 2555 Bay Road (S84-85)  
SO LOCATION V3\_4 VOLUME 569972.10 4148939.93 3.93

\*\* SRCDESCR Building, 2555 Bay Road (S84-85)  
SO LOCATION V3\_5 VOLUME 569962.72 4149002.48 3.85  
\*\* SRCDESCR Building, 2555 Bay Road (S84-85)  
SO LOCATION V3\_6 VOLUME 569959.28 4148982.78 3.90  
\*\* SRCDESCR Building, 2555 Bay Road (S84-85)  
SO LOCATION V3\_7 VOLUME 569955.84 4148963.08 3.89  
\*\* SRCDESCR Building, 2555 Bay Road (S84-85)  
SO LOCATION V3\_8 VOLUME 569952.39 4148943.38 3.89  
\*\* SRCDESCR Building, 2555 Bay Road (S84-85)  
SO LOCATION V4\_1 VOLUME 569840.80 4149027.28 3.84  
\*\* SRCDESCR Building, 2501 Bay Road (S25-28)  
SO LOCATION V4\_2 VOLUME 569865.37 4149022.64 3.82  
\*\* SRCDESCR Building, 2501 Bay Road (S25-28)  
SO LOCATION V4\_3 VOLUME 569889.93 4149018.00 3.89  
\*\* SRCDESCR Building, 2501 Bay Road (S25-28)  
SO LOCATION V4\_4 VOLUME 569914.50 4149013.37 3.97  
\*\* SRCDESCR Building, 2501 Bay Road (S25-28)  
SO LOCATION V4\_5 VOLUME 569939.07 4149008.73 3.92  
\*\* SRCDESCR Building, 2501 Bay Road (S25-28)  
SO LOCATION V4\_6 VOLUME 569836.17 4149002.71 3.90  
\*\* SRCDESCR Building, 2501 Bay Road (S25-28)  
SO LOCATION V4\_7 VOLUME 569860.73 4148998.08 3.88  
\*\* SRCDESCR Building, 2501 Bay Road (S25-28)  
SO LOCATION V4\_8 VOLUME 569885.30 4148993.44 3.92  
\*\* SRCDESCR Building, 2501 Bay Road (S25-28)  
SO LOCATION V4\_9 VOLUME 569909.86 4148988.80 4.00  
\*\* SRCDESCR Building, 2501 Bay Road (S25-28)  
SO LOCATION V4\_10 VOLUME 569934.43 4148984.16 3.95  
\*\* SRCDESCR Building, 2501 Bay Road (S25-28)  
SO SRCPARAM P1 1 10.7 298.1 14.4 0.6  
SO SRCPARAM P2 1 12.2 394.3 2.7 0.5  
SO SRCPARAM P3 1 11 293 13.2 0.4  
SO SRCPARAM P4 1 6.9 293 11.3 0.5  
SO SRCPARAM P5 1 9.1 293.1 8.5 0.4  
SO SRCPARAM P6 1 7 293.1 40.8 0.2  
SO SRCPARAM V1\_1 0.25 7.9 1.4 3.69  
SO SRCPARAM V1\_2 0.25 7.9 1.4 3.69  
SO SRCPARAM V1\_3 0.25 7.9 1.4 3.69  
SO SRCPARAM V1\_4 0.25 7.9 1.4 3.69  
SO SRCPARAM V2\_1 0.25 7.9 2.79 3.69  
SO SRCPARAM V2\_2 0.25 7.9 2.79 3.69  
SO SRCPARAM V2\_3 0.25 7.9 2.79 3.69  
SO SRCPARAM V2\_4 0.25 7.9 2.79 3.69  
SO SRCPARAM V3\_1 0.125 7.9 9.3 3.69  
SO SRCPARAM V3\_2 0.125 7.9 9.3 3.69  
SO SRCPARAM V3\_3 0.125 7.9 9.3 3.69  
SO SRCPARAM V3\_4 0.125 7.9 9.3 3.69  
SO SRCPARAM V3\_5 0.125 7.9 9.3 3.69  
SO SRCPARAM V3\_6 0.125 7.9 9.3 3.69  
SO SRCPARAM V3\_7 0.125 7.9 9.3 3.69  
SO SRCPARAM V3\_8 0.125 7.9 9.3 3.69  
SO SRCPARAM V4\_1 0.1 7.9 11.63 3.69  
SO SRCPARAM V4\_2 0.1 7.9 11.63 3.69  
SO SRCPARAM V4\_3 0.1 7.9 11.63 3.69

SO	SRCPARAM	V4_4	0.1	7.9	11.63	3.69		
SO	SRCPARAM	V4_5	0.1	7.9	11.63	3.69		
SO	SRCPARAM	V4_6	0.1	7.9	11.63	3.69		
SO	SRCPARAM	V4_7	0.1	7.9	11.63	3.69		
SO	SRCPARAM	V4_8	0.1	7.9	11.63	3.69		
SO	SRCPARAM	V4_9	0.1	7.9	11.63	3.69		
SO	SRCPARAM	V4_10	0.1	7.9	11.63	3.69		
SO	BUILDHGT	P1		7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P1		18.30	18.30	18.30	7.90	7.90
SO	BUILDHGT	P1		7.90	18.30	7.90	7.90	7.90
SO	BUILDHGT	P1		7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P1		22.90	18.30	18.30	18.30	18.30
SO	BUILDHGT	P1		18.30	18.30	7.90	7.90	7.90
SO	BUILDWID	P1	169.46	182.34	190.97	193.80	190.73	181.87
SO	BUILDWID	P1	65.63	71.07	74.35	96.30	100.35	104.33
SO	BUILDWID	P1	127.46	91.79	161.53	171.43	176.11	175.45
SO	BUILDWID	P1	169.46	182.34	190.97	193.80	49.28	50.59
SO	BUILDWID	P1	55.65	71.07	74.35	75.37	82.28	88.16
SO	BUILDWID	P1	91.37	91.79	161.53	171.43	176.11	175.45
SO	BUILDLN	P1	96.30	100.35	104.33	127.46	146.72	161.53
SO	BUILDLN	P1	84.35	76.71	66.74	169.46	182.34	190.97
SO	BUILDLN	P1	193.80	48.99	181.87	167.49	148.01	124.04
SO	BUILDLN	P1	96.30	100.35	104.33	127.46	80.08	81.40
SO	BUILDLN	P1	80.24	76.71	66.74	54.74	41.08	27.06
SO	BUILDLN	P1	38.30	48.99	181.87	167.49	148.01	124.04
SO	XBADJ	P1	-23.96	-29.77	-36.17	-63.81	-89.50	-112.48
SO	XBADJ	P1	21.54	29.20	35.97	-164.89	-174.51	-179.28
SO	XBADJ	P1	-178.59	24.17	-161.12	-144.88	-124.23	-99.80
SO	XBADJ	P1	-72.34	-70.58	-68.16	-63.66	-192.17	-193.35
SO	XBADJ	P1	-188.66	-105.91	-102.71	-96.39	-87.14	-76.14
SO	XBADJ	P1	-75.80	-73.16	-20.75	-22.61	-23.79	-24.24
SO	YBADJ	P1	80.16	83.34	83.79	81.69	77.11	70.19
SO	YBADJ	P1	-28.54	-17.02	-4.97	24.19	20.41	15.99
SO	YBADJ	P1	-0.08	50.41	-31.72	-46.33	-59.53	-70.93
SO	YBADJ	P1	-80.16	-83.34	-83.79	-81.69	14.76	-12.84
SO	YBADJ	P1	-37.39	17.02	4.97	-7.22	-19.75	-31.02
SO	YBADJ	P1	-41.34	-50.41	31.72	46.33	59.53	70.93
SO	BUILDHGT	P2		7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P2		7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P2		7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P2		7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P2		7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P2		7.90	7.90	7.90	7.90	7.90
SO	BUILDWID	P2	169.46	182.34	190.97	193.80	190.73	181.87
SO	BUILDWID	P2	167.49	148.01	124.04	96.30	100.35	104.33
SO	BUILDWID	P2	127.46	146.72	161.53	171.43	176.11	175.45
SO	BUILDWID	P2	169.46	182.34	190.97	193.80	190.73	181.87
SO	BUILDWID	P2	167.49	148.01	124.04	96.30	100.35	104.33
SO	BUILDWID	P2	127.46	146.72	161.53	171.43	176.11	175.45
SO	BUILDLN	P2	96.30	100.35	104.33	127.46	146.72	161.53
SO	BUILDLN	P2	171.43	176.11	175.45	169.46	182.34	190.97
SO	BUILDLN	P2	193.80	190.73	181.87	167.49	148.01	124.04
SO	BUILDLN	P2	96.30	100.35	104.33	127.46	146.72	161.53
SO	BUILDLN	P2	171.43	176.11	175.45	169.46	182.34	190.97

SO	BUILDLN	P2	193.80	190.73	181.87	167.49	148.01	124.04
SO	XBADJ	P2	-61.66	-57.98	-54.04	-70.78	-85.37	-97.37
SO	XBADJ	P2	-106.41	-112.22	-114.62	-113.54	-117.39	-118.12
SO	XBADJ	P2	-115.26	-108.90	-99.23	-86.54	-71.23	-53.75
SO	XBADJ	P2	-34.64	-42.37	-50.29	-56.68	-61.35	-64.16
SO	XBADJ	P2	-65.01	-63.89	-60.83	-55.92	-64.95	-72.85
SO	XBADJ	P2	-78.54	-81.83	-82.64	-80.94	-76.78	-70.29
SO	YBADJ	P2	28.81	26.22	22.63	18.36	13.53	8.29
SO	YBADJ	P2	2.80	-2.78	-8.27	-13.51	-7.81	-1.87
SO	YBADJ	P2	-7.05	-12.01	-16.61	-20.70	-24.17	-26.90
SO	YBADJ	P2	-28.81	-26.22	-22.63	-18.36	-13.53	-8.29
SO	YBADJ	P2	-2.80	2.78	8.27	13.51	7.81	1.87
SO	YBADJ	P2	7.05	12.01	16.61	20.70	24.17	26.90
SO	BUILDHGT	P3	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P3	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P3	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P3	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P3	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P3	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P3	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDWID	P3	169.46	182.34	190.97	193.80	190.73	181.87
SO	BUILDWID	P3	167.49	148.01	124.04	96.30	100.35	104.33
SO	BUILDWID	P3	127.46	146.72	161.53	171.43	176.11	175.45
SO	BUILDWID	P3	169.46	182.34	190.97	193.80	190.73	181.87
SO	BUILDWID	P3	167.49	148.01	124.04	96.30	100.35	104.33
SO	BUILDWID	P3	127.46	146.72	161.53	171.43	176.11	175.45
SO	BUILDLN	P3	96.30	100.35	104.33	127.46	146.72	161.53
SO	BUILDLN	P3	171.43	176.11	175.45	169.46	182.34	190.97
SO	BUILDLN	P3	193.80	190.73	181.87	167.49	148.01	124.04
SO	BUILDLN	P3	96.30	100.35	104.33	127.46	146.72	161.53
SO	BUILDLN	P3	171.43	176.11	175.45	169.46	182.34	190.97
SO	BUILDLN	P3	193.80	190.73	181.87	167.49	148.01	124.04
SO	XBADJ	P3	-71.06	-47.97	-24.92	-23.44	-21.25	-18.41
SO	XBADJ	P3	-15.01	-11.16	-6.97	-2.57	-6.47	-10.63
SO	XBADJ	P3	-14.46	-17.85	-20.70	-22.92	-24.44	-25.22
SO	XBADJ	P3	-25.23	-52.38	-79.41	-104.02	-125.48	-143.12
SO	XBADJ	P3	-156.41	-164.95	-168.48	-166.89	-175.87	-180.34
SO	XBADJ	P3	-179.34	-172.88	-161.18	-144.57	-123.57	-98.82
SO	YBADJ	P3	-82.16	-84.70	-84.86	-82.44	-77.52	-70.24
SO	YBADJ	P3	-60.83	-49.57	-36.80	-22.92	2.20	27.24
SO	YBADJ	P3	40.29	52.11	62.35	70.70	76.89	80.75
SO	YBADJ	P3	82.16	84.70	84.86	82.44	77.52	70.24
SO	YBADJ	P3	60.83	49.57	36.80	22.92	-2.20	-27.24
SO	YBADJ	P3	-40.29	-52.11	-62.35	-70.70	-76.89	-80.76
SO	BUILDHGT	P4	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P4	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P4	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P4	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P4	22.90	22.90	22.90	22.90	18.30	18.30
SO	BUILDHGT	P4	18.30	18.30	18.30	18.30	18.30	7.90
SO	BUILDWID	P4	169.46	182.34	190.97	193.80	190.73	181.87
SO	BUILDWID	P4	167.49	148.01	124.04	96.30	100.35	104.33
SO	BUILDWID	P4	127.46	146.72	161.53	171.43	176.11	175.45
SO	BUILDWID	P4	169.46	182.34	190.97	193.80	190.73	181.87
SO	BUILDWID	P4	55.65	59.01	60.59	60.73	82.28	88.16

SO	BUILDWID	P4	91.37	91.79	89.43	84.35	76.71	175.45
SO	BUILDLLEN	P4	96.30	100.35	104.33	127.46	146.72	161.53
SO	BUILDLLEN	P4	171.43	176.11	175.45	169.46	182.34	190.97
SO	BUILDLLEN	P4	193.80	190.73	181.87	167.49	148.01	124.04
SO	BUILDLLEN	P4	96.30	100.35	104.33	127.46	146.72	161.53
SO	BUILDLLEN	P4	80.24	76.65	70.73	62.66	41.08	27.06
SO	BUILDLLEN	P4	38.30	48.99	58.19	65.63	71.07	124.04
SO	XBADJ	P4	-95.48	-99.79	-102.56	-124.55	-142.75	-156.62
SO	XBADJ	P4	-165.72	-169.80	-168.71	-162.50	-159.74	-152.56
SO	XBADJ	P4	-140.75	-124.67	-104.80	-81.74	-56.20	-28.95
SO	XBADJ	P4	-0.82	-0.57	-1.77	-2.92	-3.97	-4.91
SO	XBADJ	P4	-154.97	-156.02	-152.33	-144.01	-101.92	-102.85
SO	XBADJ	P4	-113.63	-120.97	-124.62	-124.49	-120.58	-95.09
SO	YBADJ	P4	77.77	68.56	57.08	43.86	29.30	13.86
SO	YBADJ	P4	-2.00	-17.81	-33.07	-47.33	-49.61	-50.40
SO	YBADJ	P4	-60.82	-69.39	-75.85	-80.01	-81.74	-80.99
SO	YBADJ	P4	-77.77	-68.56	-57.08	-43.86	-29.30	-13.86
SO	YBADJ	P4	25.74	7.21	-11.54	-30.14	50.26	35.37
SO	YBADJ	P4	19.40	2.84	-13.81	-30.03	-45.34	80.99
SO	BUILDHGT	P5	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P5	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P5	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P5	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P5	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P5	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDWID	P5	169.46	182.34	190.97	193.80	190.73	181.87
SO	BUILDWID	P5	167.49	148.01	124.04	96.30	100.35	104.33
SO	BUILDWID	P5	127.46	146.72	161.53	171.43	176.11	175.45
SO	BUILDWID	P5	169.46	182.34	190.97	193.80	190.73	181.87
SO	BUILDWID	P5	167.49	148.01	124.04	96.30	100.35	104.33
SO	BUILDWID	P5	127.46	146.72	161.53	171.43	176.11	175.45
SO	BUILDLLEN	P5	96.30	100.35	104.33	127.46	146.72	161.53
SO	BUILDLLEN	P5	171.43	176.11	175.45	169.46	182.34	190.97
SO	BUILDLLEN	P5	193.80	190.73	181.87	167.49	148.01	124.04
SO	BUILDLLEN	P5	96.30	100.35	104.33	127.46	146.72	161.53
SO	BUILDLLEN	P5	171.43	176.11	175.45	169.46	182.34	190.97
SO	BUILDLLEN	P5	193.80	190.73	181.87	167.49	148.01	124.04
SO	XBADJ	P5	-53.59	-36.58	-19.94	-25.04	-29.37	-32.81
SO	XBADJ	P5	-35.26	-36.63	-36.89	-36.03	-42.46	-48.05
SO	XBADJ	P5	-52.17	-54.71	-55.59	-54.78	-52.31	-48.24
SO	XBADJ	P5	-42.71	-63.78	-84.38	-102.42	-117.35	-128.72
SO	XBADJ	P5	-136.17	-139.48	-138.56	-133.43	-139.88	-142.92
SO	XBADJ	P5	-141.62	-136.02	-126.28	-112.71	-95.71	-75.80
SO	YBADJ	P5	-48.70	-48.71	-47.44	-44.72	-40.65	-35.34
SO	YBADJ	P5	-28.96	-21.70	-13.78	-5.44	13.60	32.22
SO	YBADJ	P5	38.69	43.99	47.95	50.46	51.43	50.83
SO	YBADJ	P5	48.70	48.71	47.44	44.72	40.65	35.34
SO	YBADJ	P5	28.96	21.70	13.78	5.44	-13.60	-32.22
SO	YBADJ	P5	-38.69	-43.99	-47.95	-50.46	-51.43	-50.83
SO	BUILDHGT	P6	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P6	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P6	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P6	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDHGT	P6	7.90	7.90	7.90	7.90	7.90	7.90

SO	BUILDHGT	P6	7.90	7.90	7.90	7.90	7.90	7.90
SO	BUILDWID	P6	169.46	182.34	190.97	193.80	190.73	181.87
SO	BUILDWID	P6	167.49	148.01	124.04	96.30	100.35	104.33
SO	BUILDWID	P6	127.46	146.72	161.53	171.43	176.11	175.45
SO	BUILDWID	P6	169.46	182.34	190.97	193.80	190.73	181.87
SO	BUILDWID	P6	167.49	148.01	124.04	96.30	100.35	104.33
SO	BUILDWID	P6	127.46	146.72	161.53	171.43	176.11	175.45
SO	BUILDLN	P6	96.30	100.35	104.33	127.46	146.72	161.53
SO	BUILDLN	P6	171.43	176.11	175.45	169.46	182.34	190.97
SO	BUILDLN	P6	193.80	190.73	181.87	167.49	148.01	124.04
SO	BUILDLN	P6	96.30	100.35	104.33	127.46	146.72	161.53
SO	BUILDLN	P6	171.43	176.11	175.45	169.46	182.34	190.97
SO	BUILDLN	P6	193.80	190.73	181.87	167.49	148.01	124.04
SO	XBADJ	P6	-61.78	-58.07	-54.09	-70.79	-85.35	-97.31
SO	XBADJ	P6	-106.32	-112.09	-114.46	-113.35	-117.19	-117.91
SO	XBADJ	P6	-115.04	-108.68	-99.02	-86.35	-71.05	-53.60
SO	XBADJ	P6	-34.52	-42.28	-50.24	-56.67	-61.38	-64.22
SO	XBADJ	P6	-65.11	-64.02	-60.99	-56.10	-65.16	-73.07
SO	XBADJ	P6	-78.75	-82.05	-82.85	-81.14	-76.96	-70.44
SO	YBADJ	P6	28.62	26.02	22.42	18.14	13.32	8.08
SO	YBADJ	P6	2.60	-2.95	-8.42	-13.63	-7.89	-1.92
SO	YBADJ	P6	-7.06	-11.99	-16.55	-20.60	-24.03	-26.74
SO	YBADJ	P6	-28.62	-26.02	-22.42	-18.14	-13.32	-8.08
SO	YBADJ	P6	-2.60	2.95	8.42	13.63	7.89	1.92
SO	YBADJ	P6	7.06	11.99	16.55	20.60	24.03	26.74

SO CONCUNIT 1.0E+06 GRAMS/SEC MICROGRAMS/M\*\*3

SO SRCGROUP P1 P1

SO SRCGROUP P2 P2

SO SRCGROUP P3 P3

SO SRCGROUP P4 P4

SO SRCGROUP P5 P5

SO SRCGROUP P6 P6

SO SRCGROUP V1 V1\_1 V1\_2 V1\_3 V1\_4

SO SRCGROUP V2 V2\_1 V2\_2 V2\_3 V2\_4

SO SRCGROUP V3 V3\_1 V3\_2 V3\_3 V3\_4 V3\_5 V3\_6 V3\_7 V3\_8

SO SRCGROUP V4 V4\_1 V4\_2 V4\_3 V4\_4 V4\_5 V4\_6 V4\_7 V4\_8 V4\_9 V4\_10

SO FINISHED

RE STARTING

RE ELEVUNIT METERS

RE DISCCART 570520.0 4148760.0 3.61

\*\* RCPDESCR onsite

RE DISCCART 570540.0 4148760.0 3.63

\*\* RCPDESCR onsite

RE DISCCART 570560.0 4148760.0 3.79

\*\* RCPDESCR onsite

RE DISCCART 570440.0 4148780.0 3.44

\*\* RCPDESCR onsite

RE DISCCART 570460.0 4148780.0 3.47

\*\* RCPDESCR onsite

RE DISCCART 570480.0 4148780.0 3.49

\*\* RCPDESCR onsite

RE DISCCART 570500.0 4148780.0 3.39

\*\* RCPDESCR onsite

RE DISCCART	570520.0	4148780.0	3.35
** RCPDESCR	onsite		
RE DISCCART	570540.0	4148780.0	3.63
** RCPDESCR	onsite		
RE DISCCART	570560.0	4148780.0	3.75
** RCPDESCR	onsite		
RE DISCCART	570580.0	4148780.0	3.74
** RCPDESCR	onsite		
RE DISCCART	570380.0	4148800.0	3.69
** RCPDESCR	onsite		
RE DISCCART	570400.0	4148800.0	3.65
** RCPDESCR	onsite		
RE DISCCART	570420.0	4148800.0	3.67
** RCPDESCR	onsite		
RE DISCCART	570440.0	4148800.0	3.73
** RCPDESCR	onsite		
RE DISCCART	570460.0	4148800.0	3.59
** RCPDESCR	onsite		
RE DISCCART	570480.0	4148800.0	3.77
** RCPDESCR	onsite		
RE DISCCART	570500.0	4148800.0	3.8
** RCPDESCR	onsite		
RE DISCCART	570520.0	4148800.0	3.85
** RCPDESCR	onsite		
RE DISCCART	570540.0	4148800.0	3.83
** RCPDESCR	onsite		
RE DISCCART	570560.0	4148800.0	3.92
** RCPDESCR	onsite		
RE DISCCART	570580.0	4148800.0	3.89
** RCPDESCR	onsite		
RE DISCCART	570300.0	4148820.0	3.87
** RCPDESCR	onsite		
RE DISCCART	570320.0	4148820.0	3.84
** RCPDESCR	onsite		
RE DISCCART	570340.0	4148820.0	3.85
** RCPDESCR	onsite		
RE DISCCART	570360.0	4148820.0	3.85
** RCPDESCR	onsite		
RE DISCCART	570380.0	4148820.0	3.69
** RCPDESCR	onsite		
RE DISCCART	570400.0	4148820.0	3.67
** RCPDESCR	onsite		
RE DISCCART	570420.0	4148820.0	3.6
** RCPDESCR	onsite		
RE DISCCART	570440.0	4148820.0	3.51
** RCPDESCR	onsite		
RE DISCCART	570460.0	4148820.0	3.39
** RCPDESCR	onsite		
RE DISCCART	570480.0	4148820.0	3.81
** RCPDESCR	onsite		
RE DISCCART	570500.0	4148820.0	3.99
** RCPDESCR	onsite		
RE DISCCART	570520.0	4148820.0	3.97
** RCPDESCR	onsite		

RE DISCCART	570540.0	4148820.0	4.01
** RCPDESCR	onsite		
RE DISCCART	570560.0	4148820.0	4.03
** RCPDESCR	onsite		
RE DISCCART	570580.0	4148820.0	3.9
** RCPDESCR	onsite		
RE DISCCART	570600.0	4148820.0	3.86
** RCPDESCR	onsite		
RE DISCCART	570240.0	4148840.0	3.98
** RCPDESCR	onsite		
RE DISCCART	570260.0	4148840.0	4.05
** RCPDESCR	onsite		
RE DISCCART	570280.0	4148840.0	4.03
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RE DISCCART	570320.0	4148840.0	3.82
** RCPDESCR	onsite		
RE DISCCART	570340.0	4148840.0	3.74
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** RCPDESCR	onsite		
RE DISCCART	570380.0	4148840.0	3.53
** RCPDESCR	onsite		
RE DISCCART	570400.0	4148840.0	3.44
** RCPDESCR	onsite		
RE DISCCART	570420.0	4148840.0	3.33
** RCPDESCR	onsite		
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** RCPDESCR	onsite		
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** RCPDESCR	onsite		
RE DISCCART	570480.0	4148840.0	3.45
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RE DISCCART	570500.0	4148840.0	3.89
** RCPDESCR	onsite		
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RE DISCCART	570540.0	4148840.0	3.83
** RCPDESCR	onsite		
RE DISCCART	570560.0	4148840.0	3.78
** RCPDESCR	onsite		
RE DISCCART	570580.0	4148840.0	3.63
** RCPDESCR	onsite		
RE DISCCART	570600.0	4148840.0	3.56
** RCPDESCR	onsite		
RE DISCCART	570160.0	4148860.0	3.68
** RCPDESCR	onsite		
RE DISCCART	570180.0	4148860.0	3.81
** RCPDESCR	onsite		
RE DISCCART	570200.0	4148860.0	4.04
** RCPDESCR	onsite		
RE DISCCART	570220.0	4148860.0	4.13
** RCPDESCR	onsite		

RE DISCCART	570240.0	4148860.0	4.16
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RE DISCCART	570260.0	4148860.0	4.18
** RCPDESCR	onsite		
RE DISCCART	570280.0	4148860.0	4.13
** RCPDESCR	onsite		
RE DISCCART	570300.0	4148860.0	3.93
** RCPDESCR	onsite		
RE DISCCART	570320.0	4148860.0	3.63
** RCPDESCR	onsite		
RE DISCCART	570340.0	4148860.0	3.53
** RCPDESCR	onsite		
RE DISCCART	570360.0	4148860.0	3.39
** RCPDESCR	onsite		
RE DISCCART	570380.0	4148860.0	3.32
** RCPDESCR	onsite		
RE DISCCART	570400.0	4148860.0	3.25
** RCPDESCR	onsite		
RE DISCCART	570420.0	4148860.0	3.19
** RCPDESCR	onsite		
RE DISCCART	570440.0	4148860.0	3.17
** RCPDESCR	onsite		
RE DISCCART	570460.0	4148860.0	3.21
** RCPDESCR	onsite		
RE DISCCART	570480.0	4148860.0	3
** RCPDESCR	onsite		
RE DISCCART	570500.0	4148860.0	3.19
** RCPDESCR	onsite		
RE DISCCART	570520.0	4148860.0	3.35
** RCPDESCR	onsite		
RE DISCCART	570540.0	4148860.0	3.38
** RCPDESCR	onsite		
RE DISCCART	570560.0	4148860.0	3.38
** RCPDESCR	onsite		
RE DISCCART	570580.0	4148860.0	3.42
** RCPDESCR	onsite		
RE DISCCART	570600.0	4148860.0	3.39
** RCPDESCR	onsite		
RE DISCCART	570620.0	4148860.0	3.49
** RCPDESCR	onsite		
RE DISCCART	570100.0	4148880.0	3.84
** RCPDESCR	onsite		
RE DISCCART	570120.0	4148880.0	3.8
** RCPDESCR	onsite		
RE DISCCART	570140.0	4148880.0	3.91
** RCPDESCR	onsite		
RE DISCCART	570160.0	4148880.0	3.86
** RCPDESCR	onsite		
RE DISCCART	570180.0	4148880.0	4.01
** RCPDESCR	onsite		
RE DISCCART	570200.0	4148880.0	4.12
** RCPDESCR	onsite		
RE DISCCART	570220.0	4148880.0	4.07
** RCPDESCR	onsite		

RE DISCCART	570240.0	4148880.0	4.16
** RCPDESCR	onsite		
RE DISCCART	570260.0	4148880.0	4.2
** RCPDESCR	onsite		
RE DISCCART	570280.0	4148880.0	4.21
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** RCPDESCR	onsite		
RE DISCCART	570180.0	4149140.0	2.49
** RCPDESCR	onsite		
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RE DISCCART	570400.0	4149140.0	2.52
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ME ANEMHGHT 10 METERS
ME SURFDATA 6851 1986
ME UAIRDATA 6851 1986
ME FINISHED
```

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OU RECTABLE 1 FIRST
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OU PLOTFILE PERIOD P2 P2`PERIOD.plt 10001
OU PLOTFILE PERIOD P3 P3`PERIOD.plt 10002
OU PLOTFILE PERIOD P4 P4`PERIOD.plt 10003
OU PLOTFILE PERIOD P5 P5`PERIOD.plt 10004
OU PLOTFILE PERIOD P6 P6`PERIOD.plt 10005
OU PLOTFILE PERIOD V1 V1`PERIOD.plt 10006
OU PLOTFILE PERIOD V2 V2`PERIOD.plt 10007
OU PLOTFILE PERIOD V3 V3`PERIOD.plt 10008
OU PLOTFILE PERIOD V4 V4`PERIOD.plt 10009
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** It is recommended that the user not edit any data below this line
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\*\* BUILDING IDN C11  
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\*\* BUILDING CRN 570300.07 4149116.56  
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** AMPDATUM 3
** AMPZONE 10
** AMPHEMISPHERE N
** HILLBOUN 563266.6 4142613.5 576069.6 4155416.5

** PROJECTION UTM
** DATUM NAR-C
** UNITS METER
** ZONE 10
** HEMISPHERE N
** ORIGINLON 0
** ORIGINLAT 0
** PARALLEL1 0
** PARALLEL2 0
** AZIMUTH 0
** SCALEFACT 0
** FALSEEAST 0
** FALSENORTH 0

** POSTFMT UNFORM
** TEMPLATE UserDefined
** ISCST3EXE ISC3PRIME_BREEZE_04269.exe
** AERMAPEXE AERMAP_EPA_11103.EXE
```

## **Appendix B**

### **Project Emergency Generator Air Dispersion Modeling Files** *[Provided Electronically]*

## B Project Emergency Generator Air Dispersion Modeling Files

### B.1 Dispersion Model

File Name	File Description
Run 1 lsc input file	Run 1 ISC Input File (generators operating from 7am-7pm) <sup>15</sup>
Run 1 lsc output file	Run 1 ISC Output File (generators operating from 7am-7pm)
Run 2 lsc input file	Run 2 ISC Input File (generators within 500 feet of the proposed daycare location operating from 3pm-7pm) <sup>16</sup>
Run 2 lsc output file	Run 2 ISC Output File (generators within 500 feet of the proposed daycare location operating from 3pm-7pm)

#### B.1.1 Plot Files

File Name	File Description
Run 1 Other, neweg, period.plt	Run 1, period average plot file for all 14 project emergency generators
Run 2 Other, neweg, period.plt	Run 2, period average plot file for all 14 project emergency generators

### B.2 AERMAP Files

File Name	File Description
Aermap input file	AERMAP Input File (all sources, buildings, and receptors)
Aermap output file	AERMAP Output File (all sources, buildings, and receptors)
Aermap receptor file	AERMAP Receptor File, elevations and hill heights for all receptors

<sup>15</sup> The Run 1 Project emergency generator ISC input file is also provided as a PDF within Appendix B.

<sup>16</sup> The Run 2 Project emergency generator ISC input file is also provided as a PDF within Appendix B.

Aermap source file

AERMAP Source File, elevations for all sources  
and buildings

### B.3 BPIP PRIME Files

#### File Name

Bpip input file

#### File Description

BPIP PRIME Input File

Bpip output file

BPIP PRIME Output File

Bpip summary file

BPIP PRIME Summary File

**Run 1, Project Emergency Generator Model Input File**

\*\* BREEZE ISC  
 \*\* Trinity Consultants  
 \*\* VERSION 7.9  
 \*\* PRIME

CO STARTING  
 CO TITLEONE Onsite Generators  
 CO TITLETWO Stanford Redwood City  
 CO MODELOPT DEFAULT CONC URBAN  
 CO RUNORNOT RUN  
 CO AVERTIME PERIOD  
 CO POLLUTID OTHER  
 CO TERRHGTS ELEV  
 CO SAVEFILE TMP.FIL  
 CO FINISHED

SO STARTING  
 SO ELEVUNIT METERS  
 SO LOCATION NEW\_EG1 POINT 570550.940 4148884.220 3.12  
 SO LOCATION NEW\_EG2 POINT 570609.630 4148867.280 3.36  
 SO LOCATION NEW\_EG3 POINT 570412.680 4148954.180 3.38  
 SO LOCATION NEW\_EG4 POINT 570491.860 4148895.640 2.96  
 SO LOCATION NEW\_EG5 POINT 570369.360 4148816.480 3.82  
 SO LOCATION NEW\_EG6 POINT 570274.04 4148986.24 3.47  
 SO LOCATION NEW\_EG7 POINT 570352.950 4148934.210 3.38  
 SO LOCATION NEW\_EG8 POINT 570293.740 4148832.230 3.88  
 SO LOCATION NEW\_EG9 POINT 570136.190 4149017.750 3.37  
 SO LOCATION NEW\_EG10 POINT 570185.820 4148951.570 4.09  
 SO LOCATION NEW\_EG11 POINT 570047.960 4148898.790 3.92  
 SO LOCATION NEW\_EG12 POINT 570386.690 4149099.280 2.71  
 SO LOCATION NEW\_EG13 POINT 570375.660 4149036.260 2.39  
 SO LOCATION NEW\_EG14 POINT 570447.308 4148797.273 3.69  
 SO SRCPARAM NEW\_EG1 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG2 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG3 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG4 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG5 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG6 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG7 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG8 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG9 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG10 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG11 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG12 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG13 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG14 8.879E-05 3.66 956.95 57.156 0.183  
 SO BUILDHGT NEW\_EG1 19.80 19.80 19.80 19.80 19.80 19.80  
 SO BUILDHGT NEW\_EG1 19.80 19.80 19.80 22.90 22.90 22.90  
 SO BUILDHGT NEW\_EG1 22.90 22.90 22.90 19.80 19.80 19.80  
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 SO BUILDHGT NEW\_EG1 19.80 19.80 19.80 19.80 19.80 19.80  
 SO BUILDHGT NEW\_EG1 19.80 19.80 22.90 19.80 19.80 19.80  
 SO BUILDWID NEW\_EG1 38.55 40.67 51.19 62.11 71.14 78.01

SO	BUILDWID	NEW_EG1	82.50	84.50	83.92	80.22	82.60	83.56
SO	BUILDWID	NEW_EG1	81.97	77.90	71.46	74.32	64.22	52.18
SO	BUILDWID	NEW_EG1	38.55	40.67	51.19	62.11	71.14	78.01
SO	BUILDWID	NEW_EG1	82.50	84.50	83.92	81.86	87.31	90.11
SO	BUILDWID	NEW_EG1	90.17	87.49	71.46	74.32	64.22	52.18
SO	BUILDLLEN	NEW_EG1	81.86	87.31	90.11	90.17	87.49	82.15
SO	BUILDLLEN	NEW_EG1	74.32	64.22	52.18	41.80	53.75	65.43
SO	BUILDLLEN	NEW_EG1	75.13	82.54	87.44	82.50	84.50	83.92
SO	BUILDLLEN	NEW_EG1	81.86	87.31	90.11	90.17	87.49	82.15
SO	BUILDLLEN	NEW_EG1	74.32	64.22	52.18	38.55	40.67	51.19
SO	BUILDLLEN	NEW_EG1	62.11	71.14	87.44	82.50	84.50	83.92
SO	XBADJ	NEW_EG1	3.68	-1.92	-7.47	-12.79	-17.72	-22.11
SO	XBADJ	NEW_EG1	-25.83	-28.76	-30.82	-105.27	-117.77	-127.37
SO	XBADJ	NEW_EG1	-133.11	-134.80	-132.39	-88.63	-90.17	-88.96
SO	XBADJ	NEW_EG1	-85.54	-85.38	-82.64	-77.38	-69.77	-60.04
SO	XBADJ	NEW_EG1	-48.49	-35.46	-21.36	-6.61	3.60	6.04
SO	XBADJ	NEW_EG1	6.36	6.48	44.95	6.13	5.67	5.04
SO	YBADJ	NEW_EG1	12.67	23.93	31.64	37.41	42.05	45.40
SO	YBADJ	NEW_EG1	47.38	47.92	47.00	44.95	31.27	16.27
SO	YBADJ	NEW_EG1	0.78	-14.73	-29.80	11.33	3.35	-4.73
SO	YBADJ	NEW_EG1	-12.67	-23.93	-31.64	-37.41	-42.05	-45.40
SO	YBADJ	NEW_EG1	-47.38	-47.92	-47.00	-44.61	-41.73	-37.58
SO	YBADJ	NEW_EG1	-32.30	-26.03	29.80	-11.33	-3.35	4.73
SO	BUILDHGT	NEW_EG2	14.90	14.90	14.90	14.90	14.90	14.90
SO	BUILDHGT	NEW_EG2	14.90	14.90	14.90	14.90	19.80	19.80
SO	BUILDHGT	NEW_EG2	19.80	19.80	19.80	19.80	14.90	14.90
SO	BUILDHGT	NEW_EG2	14.90	14.90	14.90	14.90	14.90	14.90
SO	BUILDHGT	NEW_EG2	14.90	14.90	14.90	14.90	14.90	14.90
SO	BUILDHGT	NEW_EG2	14.90	14.90	14.90	14.90	14.90	14.90
SO	BUILDWID	NEW_EG2	54.19	53.42	58.51	69.93	79.23	86.12
SO	BUILDWID	NEW_EG2	90.40	91.93	90.66	86.64	87.31	90.11
SO	BUILDWID	NEW_EG2	90.17	87.49	82.15	74.32	73.90	61.74
SO	BUILDWID	NEW_EG2	54.19	53.42	58.51	69.93	79.23	86.12
SO	BUILDWID	NEW_EG2	90.40	91.93	90.66	86.64	92.01	96.20
SO	BUILDWID	NEW_EG2	97.48	95.79	91.19	83.82	73.90	61.74
SO	BUILDLLEN	NEW_EG2	86.64	92.01	96.20	97.48	95.79	91.19
SO	BUILDLLEN	NEW_EG2	83.82	73.90	61.74	54.19	40.67	51.19
SO	BUILDLLEN	NEW_EG2	62.11	71.14	78.01	82.50	91.93	90.66
SO	BUILDLLEN	NEW_EG2	86.64	92.01	96.20	97.48	95.79	91.19
SO	BUILDLLEN	NEW_EG2	83.82	73.90	61.74	54.19	53.42	58.51
SO	BUILDLLEN	NEW_EG2	69.93	79.23	86.12	90.40	91.93	90.66
SO	XBADJ	NEW_EG2	4.46	0.50	-4.03	-8.43	-12.58	-16.34
SO	XBADJ	NEW_EG2	-19.61	-22.28	-24.28	-32.02	-105.21	-116.53
SO	XBADJ	NEW_EG2	-124.31	-128.32	-128.42	-124.62	-96.51	-95.25
SO	XBADJ	NEW_EG2	-91.10	-92.51	-92.18	-89.05	-83.21	-74.85
SO	XBADJ	NEW_EG2	-64.21	-51.62	-37.46	-22.16	-6.19	2.62
SO	XBADJ	NEW_EG2	3.23	3.75	4.16	4.44	4.58	4.59
SO	YBADJ	NEW_EG2	4.93	20.52	31.87	38.20	43.37	47.22
SO	YBADJ	NEW_EG2	49.64	50.55	49.92	47.78	37.58	22.91
SO	YBADJ	NEW_EG2	7.55	-8.04	-23.39	-38.02	14.67	6.59
SO	YBADJ	NEW_EG2	-4.93	-20.52	-31.87	-38.20	-43.37	-47.22
SO	YBADJ	NEW_EG2	-49.64	-50.55	-49.92	-47.78	-46.50	-44.08
SO	YBADJ	NEW_EG2	-40.31	-35.32	-29.25	-22.30	-14.67	-6.59
SO	BUILDHGT	NEW_EG3	22.90	22.90	22.90	22.90	22.90	22.90

SO	BUILDHGT	NEW_EG3	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG3	22.90	36.60	36.60	36.60	36.60	22.90
SO	BUILDHGT	NEW_EG3	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG3	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG3	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDWID	NEW_EG3	120.90	130.61	137.85	140.89	82.54	87.44
SO	BUILDWID	NEW_EG3	89.69	89.21	86.02	80.22	82.60	83.56
SO	BUILDWID	NEW_EG3	81.97	72.41	79.04	83.26	84.96	127.40
SO	BUILDWID	NEW_EG3	120.90	130.61	137.85	140.89	82.54	87.44
SO	BUILDWID	NEW_EG3	89.69	89.21	86.02	80.22	82.60	83.56
SO	BUILDWID	NEW_EG3	81.97	77.90	123.48	128.71	130.03	127.40
SO	BUILDLEN	NEW_EG3	80.22	82.60	86.48	102.04	77.90	71.46
SO	BUILDLEN	NEW_EG3	62.85	52.33	45.66	41.80	53.75	65.43
SO	BUILDLEN	NEW_EG3	75.13	80.27	73.79	65.07	54.38	94.57
SO	BUILDLEN	NEW_EG3	80.22	82.60	86.48	102.04	77.90	71.46
SO	BUILDLEN	NEW_EG3	62.85	52.33	45.66	41.80	53.75	65.43
SO	BUILDLEN	NEW_EG3	75.13	82.54	134.18	124.63	111.29	94.57
SO	XBADJ	NEW_EG3	-40.05	-28.49	-19.88	-24.99	7.26	19.23
SO	XBADJ	NEW_EG3	30.61	41.07	44.83	43.04	36.08	27.34
SO	XBADJ	NEW_EG3	17.78	-214.63	-218.10	-214.95	-205.26	-40.52
SO	XBADJ	NEW_EG3	-40.17	-54.11	-66.59	-77.05	-85.16	-90.69
SO	XBADJ	NEW_EG3	-93.46	-93.40	-90.49	-84.83	-89.83	-92.77
SO	XBADJ	NEW_EG3	-92.90	-90.21	-84.77	-76.76	-66.41	-54.05
SO	YBADJ	NEW_EG3	-24.39	-24.52	-23.85	-22.45	-48.94	-41.05
SO	YBADJ	NEW_EG3	-31.91	-21.81	-11.04	0.06	12.81	24.82
SO	YBADJ	NEW_EG3	36.06	53.91	22.79	-9.02	-40.56	26.79
SO	YBADJ	NEW_EG3	24.39	24.52	23.85	22.45	48.94	41.05
SO	YBADJ	NEW_EG3	31.91	21.81	11.04	-0.06	-12.81	-24.82
SO	YBADJ	NEW_EG3	-36.06	-46.21	-28.95	-29.11	-28.38	-26.79
SO	BUILDHGT	NEW_EG4	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG4	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG4	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG4	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG4	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDWID	NEW_EG4	41.80	53.75	65.43	75.13	82.54	87.44
SO	BUILDWID	NEW_EG4	89.69	89.21	86.02	80.22	82.60	83.56
SO	BUILDWID	NEW_EG4	81.97	77.90	71.46	62.85	52.33	45.66
SO	BUILDWID	NEW_EG4	41.80	53.75	65.43	75.13	82.54	87.44
SO	BUILDWID	NEW_EG4	89.69	89.21	86.02	80.22	82.60	83.56
SO	BUILDWID	NEW_EG4	81.97	77.90	71.46	62.85	52.33	45.66
SO	BUILDLEN	NEW_EG4	80.22	82.60	83.56	81.97	77.90	71.46
SO	BUILDLEN	NEW_EG4	62.85	52.33	45.66	41.80	53.75	65.43
SO	BUILDLEN	NEW_EG4	75.13	82.54	87.44	89.69	89.21	86.02
SO	BUILDLEN	NEW_EG4	80.22	82.60	83.56	81.97	77.90	71.46
SO	BUILDLEN	NEW_EG4	62.85	52.33	45.66	41.80	53.75	65.43
SO	BUILDLEN	NEW_EG4	75.13	82.54	87.44	89.69	89.21	86.02
SO	XBADJ	NEW_EG4	3.86	-0.56	-5.86	-10.98	-15.76	-20.07
SO	XBADJ	NEW_EG4	-23.77	-26.75	-34.35	-45.10	-58.35	-70.50
SO	XBADJ	NEW_EG4	-80.51	-88.07	-92.96	-95.02	-94.20	-90.51
SO	XBADJ	NEW_EG4	-84.07	-82.04	-77.70	-71.00	-62.14	-51.39
SO	XBADJ	NEW_EG4	-39.08	-25.58	-11.31	3.31	4.60	5.07
SO	XBADJ	NEW_EG4	5.38	5.54	5.52	5.33	4.99	4.49
SO	YBADJ	NEW_EG4	24.21	31.47	37.78	42.95	46.80	49.24

SO YBADJ	NEW_EG4	50.18	49.59	47.50	43.96	40.74	35.92
SO YBADJ	NEW_EG4	30.01	23.19	15.66	7.66	-0.58	-11.52
SO YBADJ	NEW_EG4	-24.21	-31.47	-37.78	-42.95	-46.80	-49.24
SO YBADJ	NEW_EG4	-50.18	-49.59	-47.50	-43.96	-40.74	-35.92
SO YBADJ	NEW_EG4	-30.01	-23.19	-15.66	-7.66	0.58	11.52
SO BUILDHGT	NEW_EG5	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG5	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG5	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG5	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG5	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG5	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDWID	NEW_EG5	62.71	56.77	51.47	59.83	66.36	70.89
SO BUILDWID	NEW_EG5	73.25	73.40	73.70	74.47	80.20	85.56
SO BUILDWID	NEW_EG5	88.33	88.41	85.80	80.59	72.93	66.74
SO BUILDWID	NEW_EG5	62.71	56.77	51.47	59.83	66.36	70.89
SO BUILDWID	NEW_EG5	73.25	73.40	73.70	74.47	80.20	85.56
SO BUILDWID	NEW_EG5	88.33	88.41	85.80	80.59	72.93	66.74
SO BUILDLEN	NEW_EG5	74.47	80.20	85.56	88.33	88.41	85.80
SO BUILDLEN	NEW_EG5	80.59	72.93	66.74	62.71	56.77	51.47
SO BUILDLEN	NEW_EG5	59.83	66.36	70.89	73.25	73.40	73.70
SO BUILDLEN	NEW_EG5	74.47	80.20	85.56	88.33	88.41	85.80
SO BUILDLEN	NEW_EG5	80.59	72.93	66.74	62.71	56.77	51.47
SO BUILDLEN	NEW_EG5	59.83	66.36	70.89	73.25	73.40	73.70
SO XBADJ	NEW_EG5	-1.48	-10.34	-19.83	-28.72	-36.74	-43.65
SO XBADJ	NEW_EG5	-49.23	-53.31	-55.77	-56.54	-55.59	-54.59
SO XBADJ	NEW_EG5	-63.80	-71.07	-76.18	-78.97	-79.37	-77.35
SO XBADJ	NEW_EG5	-72.98	-69.87	-65.73	-59.60	-51.66	-42.15
SO XBADJ	NEW_EG5	-31.36	-19.62	-10.97	-6.17	-1.18	3.12
SO XBADJ	NEW_EG5	3.97	4.70	5.29	5.72	5.97	3.65
SO YBADJ	NEW_EG5	25.18	27.20	28.86	33.89	37.89	40.73
SO YBADJ	NEW_EG5	42.34	42.67	40.50	35.75	29.77	22.95
SO YBADJ	NEW_EG5	15.44	7.46	-0.75	-8.93	-16.84	-22.40
SO YBADJ	NEW_EG5	-25.18	-27.20	-28.86	-33.89	-37.89	-40.73
SO YBADJ	NEW_EG5	-42.34	-42.67	-40.50	-35.75	-29.77	-22.95
SO YBADJ	NEW_EG5	-15.44	-7.46	0.75	8.93	16.84	22.40
SO BUILDHGT	NEW_EG6	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG6	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG6	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG6	36.60	36.60	36.60	36.60	22.90	22.90
SO BUILDHGT	NEW_EG6	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG6	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDWID	NEW_EG6	56.33	57.68	59.74	59.98	67.11	73.57
SO BUILDWID	NEW_EG6	77.79	79.65	79.09	76.32	84.78	90.83
SO BUILDWID	NEW_EG6	94.12	94.55	92.11	86.86	78.98	68.70
SO BUILDWID	NEW_EG6	80.95	84.65	85.79	84.31	67.11	73.57
SO BUILDWID	NEW_EG6	77.79	111.29	94.57	80.22	82.60	90.83
SO BUILDWID	NEW_EG6	94.12	94.55	92.11	86.86	78.98	68.70
SO BUILDLEN	NEW_EG6	76.32	84.78	90.83	94.12	94.55	92.11
SO BUILDLEN	NEW_EG6	86.86	78.98	68.70	56.33	57.68	59.74
SO BUILDLEN	NEW_EG6	59.98	67.11	73.57	77.79	79.65	79.09
SO BUILDLEN	NEW_EG6	28.40	40.46	52.83	63.58	94.55	92.11
SO BUILDLEN	NEW_EG6	86.86	130.03	127.40	120.90	130.61	59.74
SO BUILDLEN	NEW_EG6	59.98	67.11	73.57	77.79	79.65	79.09
SO XBADJ	NEW_EG6	-44.30	-54.09	-62.24	-68.49	-72.66	-74.63

SO XBADJ	NEW_EG6	-74.32	-71.76	-67.02	-60.24	-62.49	-65.27
SO XBADJ	NEW_EG6	-66.07	-64.86	-61.69	-56.63	-49.86	-41.57
SO XBADJ	NEW_EG6	-160.17	-171.45	-178.30	-179.74	-21.89	-17.48
SO XBADJ	NEW_EG6	-12.54	-224.36	-229.13	-226.94	-231.07	5.53
SO XBADJ	NEW_EG6	6.09	-2.25	-11.88	-21.16	-29.79	-37.52
SO YBADJ	NEW_EG6	32.08	33.65	35.40	36.08	31.31	24.90
SO YBADJ	NEW_EG6	17.74	10.03	2.02	-6.14	-11.70	-16.82
SO YBADJ	NEW_EG6	-21.43	-25.39	-28.57	-30.89	-32.27	-32.67
SO YBADJ	NEW_EG6	43.08	17.08	-9.44	-35.67	-31.31	-24.90
SO YBADJ	NEW_EG6	-17.74	66.41	38.82	7.44	-30.11	16.82
SO YBADJ	NEW_EG6	21.43	25.39	28.57	30.89	32.27	32.67
SO BUILDHGT	NEW_EG7	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG7	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG7	22.90	22.90	22.90	36.60	36.60	36.60
SO BUILDHGT	NEW_EG7	36.60	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG7	22.90	22.90	22.90	22.90	22.90	18.30
SO BUILDHGT	NEW_EG7	18.30	22.90	22.90	22.90	22.90	22.90
SO BUILDWID	NEW_EG7	62.71	130.61	137.85	140.89	139.66	134.18
SO BUILDWID	NEW_EG7	124.63	111.29	94.57	80.22	82.60	90.83
SO BUILDWID	NEW_EG7	94.12	88.41	85.80	83.26	84.96	84.07
SO BUILDWID	NEW_EG7	80.95	130.61	137.85	140.89	139.66	87.44
SO BUILDWID	NEW_EG7	89.69	89.21	86.02	80.22	82.60	70.06
SO BUILDWID	NEW_EG7	69.53	88.41	85.80	80.59	72.93	66.74
SO BUILDLEN	NEW_EG7	74.47	82.60	86.48	102.04	114.50	123.48
SO BUILDLEN	NEW_EG7	128.71	130.03	127.40	120.90	130.61	59.74
SO BUILDLEN	NEW_EG7	59.98	66.36	70.89	65.07	54.38	42.03
SO BUILDLEN	NEW_EG7	28.40	82.60	86.48	102.04	114.50	71.46
SO BUILDLEN	NEW_EG7	62.85	52.33	45.66	41.80	53.75	46.79
SO BUILDLEN	NEW_EG7	55.22	66.36	70.89	73.25	73.40	73.70
SO XBADJ	NEW_EG7	-114.58	10.71	27.28	28.70	29.26	28.92
SO XBADJ	NEW_EG7	27.71	25.65	22.82	19.29	8.52	-159.63
SO XBADJ	NEW_EG7	-159.97	29.67	33.99	-213.29	-214.56	-209.31
SO XBADJ	NEW_EG7	-197.70	-93.31	-113.75	-130.74	-143.76	-152.40
SO XBADJ	NEW_EG7	-156.42	-155.69	-150.22	-140.19	-139.13	7.11
SO XBADJ	NEW_EG7	7.69	-96.03	-104.87	-110.53	-112.82	-114.08
SO YBADJ	NEW_EG7	-11.42	-73.82	-65.59	-55.37	-43.47	-30.25
SO YBADJ	NEW_EG7	-16.10	-1.47	13.21	30.10	52.01	-11.22
SO YBADJ	NEW_EG7	-32.29	-55.64	-45.40	53.94	21.73	-11.14
SO YBADJ	NEW_EG7	-43.66	73.82	65.59	55.37	43.47	53.62
SO YBADJ	NEW_EG7	33.58	12.51	-8.93	-30.10	-52.01	-29.95
SO YBADJ	NEW_EG7	-24.20	55.64	45.40	33.78	21.13	5.99
SO BUILDHGT	NEW_EG8	18.30	18.30	18.30	22.90	22.90	22.90
SO BUILDHGT	NEW_EG8	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG8	22.90	22.90	18.30	18.30	18.30	18.30
SO BUILDHGT	NEW_EG8	18.30	18.30	18.30	22.90	22.90	22.90
SO BUILDHGT	NEW_EG8	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG8	22.90	22.90	18.30	18.30	18.30	18.30
SO BUILDWID	NEW_EG8	70.17	59.14	48.65	59.83	66.36	70.89
SO BUILDWID	NEW_EG8	73.25	73.40	73.70	74.47	80.20	85.56
SO BUILDWID	NEW_EG8	88.33	88.41	90.65	89.47	85.57	79.07
SO BUILDWID	NEW_EG8	70.17	59.14	48.65	59.83	66.36	70.89
SO BUILDWID	NEW_EG8	73.25	73.40	73.70	74.47	80.20	85.56
SO BUILDWID	NEW_EG8	88.33	88.41	90.65	89.47	85.57	79.07
SO BUILDLEN	NEW_EG8	68.56	72.93	77.93	88.33	88.41	85.80

SO	BUILDLEN	NEW_EG8	80.59	72.93	66.74	62.71	56.77	51.47
SO	BUILDLEN	NEW_EG8	59.83	66.36	54.22	60.70	65.33	67.98
SO	BUILDLEN	NEW_EG8	68.56	72.93	77.93	88.33	88.41	85.80
SO	BUILDLEN	NEW_EG8	80.59	72.93	66.74	62.71	56.77	51.47
SO	BUILDLEN	NEW_EG8	59.83	66.36	54.22	60.70	65.33	67.98
SO	XBADJ	NEW_EG8	1.77	-2.04	-7.50	7.82	11.06	13.97
SO	XBADJ	NEW_EG8	16.45	18.43	19.85	20.67	20.86	18.77
SO	XBADJ	NEW_EG8	4.25	-10.40	-59.97	-65.65	-69.33	-70.91
SO	XBADJ	NEW_EG8	-70.33	-70.88	-70.44	-96.15	-99.47	-99.77
SO	XBADJ	NEW_EG8	-97.04	-91.36	-86.59	-83.37	-77.63	-70.24
SO	XBADJ	NEW_EG8	-64.08	-55.97	5.75	4.95	4.00	2.93
SO	YBADJ	NEW_EG8	19.21	25.94	31.36	-34.17	-22.79	-10.72
SO	YBADJ	NEW_EG8	1.68	14.03	24.75	33.37	40.83	47.12
SO	YBADJ	NEW_EG8	51.98	55.26	11.31	3.61	-4.20	-11.89
SO	YBADJ	NEW_EG8	-19.21	-25.94	-31.36	34.17	22.79	10.72
SO	YBADJ	NEW_EG8	-1.68	-14.03	-24.75	-33.37	-40.83	-47.12
SO	YBADJ	NEW_EG8	-51.98	-55.26	-11.31	-3.61	4.20	11.89
SO	BUILDHGT	NEW_EG9	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG9	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG9	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG9	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG9	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG9	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDWID	NEW_EG9	62.66	56.13	49.12	49.96	49.28	50.59
SO	BUILDWID	NEW_EG9	55.65	59.01	60.59	60.73	66.28	70.26
SO	BUILDWID	NEW_EG9	76.33	80.08	81.40	80.24	76.65	70.73
SO	BUILDWID	NEW_EG9	62.66	56.13	49.12	49.96	49.28	50.59
SO	BUILDWID	NEW_EG9	55.65	59.01	60.59	60.73	66.28	70.26
SO	BUILDWID	NEW_EG9	76.33	80.08	81.40	80.24	76.65	70.73
SO	BUILDLEN	NEW_EG9	60.73	66.28	70.26	76.33	80.08	81.40
SO	BUILDLEN	NEW_EG9	80.24	76.65	70.73	62.66	56.13	49.12
SO	BUILDLEN	NEW_EG9	49.96	49.28	50.59	55.65	59.01	60.59
SO	BUILDLEN	NEW_EG9	60.73	66.28	70.26	76.33	80.08	81.40
SO	BUILDLEN	NEW_EG9	80.24	76.65	70.73	62.66	56.13	49.12
SO	BUILDLEN	NEW_EG9	49.96	49.28	50.59	55.65	59.01	60.59
SO	XBADJ	NEW_EG9	-29.87	-35.90	-41.27	-49.62	-56.46	-61.59
SO	XBADJ	NEW_EG9	-64.85	-66.13	-65.41	-62.70	-58.08	-51.87
SO	XBADJ	NEW_EG9	-53.43	-53.37	-51.69	-48.43	-43.70	-37.65
SO	XBADJ	NEW_EG9	-30.86	-30.39	-28.99	-26.71	-23.62	-19.81
SO	XBADJ	NEW_EG9	-15.40	-10.52	-5.32	0.04	1.95	2.75
SO	XBADJ	NEW_EG9	3.48	4.09	1.10	-7.22	-15.31	-22.94
SO	YBADJ	NEW_EG9	31.37	30.02	27.31	28.45	28.73	26.39
SO	YBADJ	NEW_EG9	20.61	14.20	7.35	0.49	-2.76	-6.14
SO	YBADJ	NEW_EG9	-11.46	-16.42	-20.89	-24.73	-27.81	-30.05
SO	YBADJ	NEW_EG9	-31.37	-30.02	-27.31	-28.45	-28.73	-26.39
SO	YBADJ	NEW_EG9	-20.61	-14.20	-7.35	-0.49	2.76	6.14
SO	YBADJ	NEW_EG9	11.46	16.42	20.89	24.73	27.81	30.05
SO	BUILDHGT	NEW_EG10	18.30	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG10	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG10	22.90	22.90	22.90	22.90	18.30	18.30
SO	BUILDHGT	NEW_EG10	18.30	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG10	22.90	22.90	22.90	22.90	22.90	18.30
SO	BUILDHGT	NEW_EG10	18.30	18.30	18.30	18.30	18.30	18.30
SO	BUILDWID	NEW_EG10	79.54	57.68	59.74	59.98	67.11	73.57

SO	BUILDWID	NEW_EG10	77.79	79.65	79.09	76.32	66.28	70.26
SO	BUILDWID	NEW_EG10	76.33	80.08	81.40	80.24	95.17	88.70
SO	BUILDWID	NEW_EG10	79.54	57.68	59.74	59.98	67.11	73.57
SO	BUILDWID	NEW_EG10	77.79	79.65	79.09	76.32	84.78	83.32
SO	BUILDWID	NEW_EG10	91.49	96.87	99.32	98.74	95.17	88.70
SO	BUILDLLEN	NEW_EG10	64.27	84.78	90.83	94.12	94.55	92.11
SO	BUILDLLEN	NEW_EG10	86.86	78.98	68.70	56.33	56.13	49.12
SO	BUILDLLEN	NEW_EG10	49.96	49.28	50.59	55.65	71.02	67.40
SO	BUILDLLEN	NEW_EG10	64.27	84.78	90.83	94.12	94.55	92.11
SO	BUILDLLEN	NEW_EG10	86.86	78.98	68.70	56.33	57.68	56.94
SO	BUILDLLEN	NEW_EG10	63.84	68.82	71.74	72.48	71.02	67.40
SO	XBADJ	NEW_EG10	-87.97	8.66	11.90	14.78	17.20	19.11
SO	XBADJ	NEW_EG10	20.43	21.14	21.20	20.62	-127.35	-127.94
SO	XBADJ	NEW_EG10	-133.99	-135.97	-133.81	-127.59	27.08	25.78
SO	XBADJ	NEW_EG10	23.70	-93.44	-102.73	-108.90	-111.75	-111.22
SO	XBADJ	NEW_EG10	-107.30	-100.12	-89.90	-76.95	-66.23	-78.17
SO	XBADJ	NEW_EG10	-87.82	-94.82	-98.93	-100.03	-98.10	-93.18
SO	YBADJ	NEW_EG10	-31.08	-37.39	-23.66	-9.21	1.16	10.82
SO	YBADJ	NEW_EG10	20.14	28.86	36.70	43.32	42.46	26.36
SO	YBADJ	NEW_EG10	7.34	-11.90	-30.78	-48.73	9.48	20.59
SO	YBADJ	NEW_EG10	31.08	37.39	23.66	9.21	-1.16	-10.82
SO	YBADJ	NEW_EG10	-20.14	-28.86	-36.70	-43.32	-51.05	43.57
SO	YBADJ	NEW_EG10	34.41	24.21	13.27	1.93	-9.48	-20.59
SO	BUILDHGT	NEW_EG11	18.30	18.30	18.30	18.30	18.30	18.30
SO	BUILDHGT	NEW_EG11	18.30	18.30	18.30	18.30	18.30	18.30
SO	BUILDHGT	NEW_EG11	18.30	18.30	18.30	18.30	18.30	18.30
SO	BUILDHGT	NEW_EG11	22.90	22.90	22.90	18.30	18.30	18.30
SO	BUILDHGT	NEW_EG11	18.30	18.30	18.30	18.30	18.30	18.30
SO	BUILDHGT	NEW_EG11	18.30	18.30	18.30	18.30	18.30	18.30
SO	BUILDWID	NEW_EG11	54.74	41.08	27.06	77.45	79.68	79.48
SO	BUILDWID	NEW_EG11	76.87	71.92	64.79	58.25	66.39	78.64
SO	BUILDWID	NEW_EG11	91.37	91.79	89.43	84.35	76.71	66.74
SO	BUILDWID	NEW_EG11	62.66	56.13	49.12	77.45	79.68	79.48
SO	BUILDWID	NEW_EG11	76.87	71.92	64.79	58.25	66.39	78.64
SO	BUILDWID	NEW_EG11	91.37	91.79	89.43	84.35	76.71	66.74
SO	BUILDLLEN	NEW_EG11	75.37	82.28	88.16	89.39	97.43	102.51
SO	BUILDLLEN	NEW_EG11	104.48	103.27	98.92	91.57	81.43	72.87
SO	BUILDLLEN	NEW_EG11	38.30	48.99	58.19	65.63	71.07	74.35
SO	BUILDLLEN	NEW_EG11	60.73	66.28	70.26	89.39	97.43	102.51
SO	BUILDLLEN	NEW_EG11	104.48	103.27	98.92	91.57	81.43	72.87
SO	BUILDLLEN	NEW_EG11	38.30	48.99	58.19	65.63	71.07	74.35
SO	XBADJ	NEW_EG11	0.84	-3.65	-9.44	9.91	12.45	14.60
SO	XBADJ	NEW_EG11	16.32	17.54	18.22	18.35	17.92	15.30
SO	XBADJ	NEW_EG11	-43.47	-53.74	-62.37	-69.10	-73.74	-76.13
SO	XBADJ	NEW_EG11	-163.34	-172.35	-176.12	-99.30	-109.88	-117.12
SO	XBADJ	NEW_EG11	-120.79	-120.80	-117.14	-109.92	-99.36	-88.18
SO	XBADJ	NEW_EG11	5.17	4.74	4.17	3.47	2.67	1.78
SO	YBADJ	NEW_EG11	6.40	13.11	18.98	-43.84	-34.61	-24.33
SO	YBADJ	NEW_EG11	-13.30	-1.88	9.61	22.08	36.32	46.39
SO	YBADJ	NEW_EG11	30.74	25.91	20.29	14.05	7.39	0.50
SO	YBADJ	NEW_EG11	34.86	12.21	-10.38	43.84	34.61	24.33
SO	YBADJ	NEW_EG11	13.30	1.88	-9.61	-22.08	-36.32	-46.39
SO	YBADJ	NEW_EG11	-30.74	-25.91	-20.29	-14.05	-7.39	-0.50
SO	BUILDHGT	NEW_EG12	36.60	36.60	36.60	36.60	36.60	36.60

SO	BUILDHGT	NEW_EG12	36.60	36.60	36.60	36.60	36.60	36.60
SO	BUILDHGT	NEW_EG12	36.60	36.60	36.60	36.60	36.60	36.60
SO	BUILDHGT	NEW_EG12	36.60	36.60	36.60	36.60	36.60	36.60
SO	BUILDHGT	NEW_EG12	36.60	36.60	36.60	36.60	36.60	36.60
SO	BUILDHGT	NEW_EG12	36.60	36.60	36.60	36.60	36.60	36.60
SO	BUILDWID	NEW_EG12	80.95	84.65	85.79	84.31	80.27	73.79
SO	BUILDWID	NEW_EG12	65.07	54.38	42.03	28.40	40.46	52.83
SO	BUILDWID	NEW_EG12	63.58	72.41	79.04	83.26	84.96	84.07
SO	BUILDWID	NEW_EG12	80.95	84.65	85.79	84.31	80.27	73.79
SO	BUILDWID	NEW_EG12	65.07	54.38	42.03	28.40	40.46	52.83
SO	BUILDWID	NEW_EG12	63.58	72.41	79.04	83.26	84.96	84.07
SO	BUILDLN	NEW_EG12	28.40	40.46	52.83	63.58	72.41	79.04
SO	BUILDLN	NEW_EG12	83.26	84.96	84.07	80.95	84.65	85.79
SO	BUILDLN	NEW_EG12	84.31	80.27	73.79	65.07	54.38	42.03
SO	BUILDLN	NEW_EG12	28.40	40.46	52.83	63.58	72.41	79.04
SO	BUILDLN	NEW_EG12	83.26	84.96	84.07	80.95	84.65	85.79
SO	BUILDLN	NEW_EG12	84.31	80.27	73.79	65.07	54.38	42.03
SO	XBADJ	NEW_EG12	0.88	-13.76	-28.74	-42.85	-55.66	-66.77
SO	XBADJ	NEW_EG12	-75.86	-82.64	-86.91	-88.70	-92.44	-93.37
SO	XBADJ	NEW_EG12	-91.46	-86.77	-79.45	-69.71	-57.85	-44.24
SO	XBADJ	NEW_EG12	-29.28	-26.70	-24.08	-20.73	-16.75	-12.27
SO	XBADJ	NEW_EG12	-7.40	-2.32	2.84	7.75	7.78	7.58
SO	XBADJ	NEW_EG12	7.15	6.50	5.65	4.64	3.48	2.21
SO	YBADJ	NEW_EG12	48.23	50.11	50.48	49.30	46.64	42.55
SO	YBADJ	NEW_EG12	37.17	30.66	23.22	15.08	6.47	-2.33
SO	YBADJ	NEW_EG12	-11.06	-19.45	-27.25	-34.23	-40.16	-44.88
SO	YBADJ	NEW_EG12	-48.23	-50.11	-50.48	-49.30	-46.64	-42.55
SO	YBADJ	NEW_EG12	-37.17	-30.66	-23.22	-15.08	-6.47	2.33
SO	YBADJ	NEW_EG12	11.06	19.45	27.25	34.23	40.16	44.88
SO	BUILDHGT	NEW_EG13	36.60	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG13	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG13	36.60	36.60	36.60	36.60	36.60	36.60
SO	BUILDHGT	NEW_EG13	36.60	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG13	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG13	36.60	36.60	36.60	36.60	36.60	36.60
SO	BUILDWID	NEW_EG13	80.95	93.88	105.75	114.41	119.59	73.57
SO	BUILDWID	NEW_EG13	77.79	79.65	79.09	91.72	82.60	86.48
SO	BUILDWID	NEW_EG13	63.58	72.41	79.04	83.26	84.96	84.07
SO	BUILDWID	NEW_EG13	80.95	93.88	105.75	114.41	119.59	121.14
SO	BUILDWID	NEW_EG13	119.01	113.26	104.07	91.72	82.60	83.56
SO	BUILDWID	NEW_EG13	63.58	72.41	79.04	83.26	84.96	84.07
SO	BUILDLN	NEW_EG13	28.40	93.98	94.28	91.70	86.34	92.11
SO	BUILDLN	NEW_EG13	86.86	78.98	68.70	80.95	130.61	137.85
SO	BUILDLN	NEW_EG13	84.31	80.27	73.79	65.07	54.38	42.03
SO	BUILDLN	NEW_EG13	28.40	93.98	94.28	91.70	86.34	79.04
SO	BUILDLN	NEW_EG13	83.26	84.96	84.07	80.95	53.75	65.43
SO	BUILDLN	NEW_EG13	84.31	80.27	73.79	65.07	54.38	42.03
SO	XBADJ	NEW_EG13	64.86	-4.29	-10.10	-15.60	-20.63	-187.64
SO	XBADJ	NEW_EG13	-186.92	-180.52	-168.64	-88.78	22.08	28.03
SO	XBADJ	NEW_EG13	-123.52	-127.96	-128.51	-125.16	-118.00	-107.26
SO	XBADJ	NEW_EG13	-93.26	-89.69	-84.18	-76.10	-65.71	-53.33
SO	XBADJ	NEW_EG13	-39.32	-24.12	-8.19	7.83	-152.69	-165.87
SO	XBADJ	NEW_EG13	39.21	47.69	54.72	60.08	63.62	65.23
SO	YBADJ	NEW_EG13	48.31	56.69	62.45	66.31	68.16	32.39

SO YBADJ	NEW_EG13	5.49	-21.58	-48.00	47.40	-51.65	-29.22
SO YBADJ	NEW_EG13	44.31	29.51	13.81	-2.31	-18.36	-33.85
SO YBADJ	NEW_EG13	-48.31	-56.69	-62.45	-66.31	-68.16	-67.94
SO YBADJ	NEW_EG13	-65.65	-61.37	-55.22	-47.40	51.65	27.76
SO YBADJ	NEW_EG13	-44.31	-29.51	-13.81	2.31	18.36	33.85
SO BUILDHGT	NEW_EG14	15.20	15.20	0.00	0.00	0.00	0.00
SO BUILDHGT	NEW_EG14	0.00	15.20	15.20	22.90	22.90	22.90
SO BUILDHGT	NEW_EG14	22.90	22.90	15.20	22.90	22.90	22.90
SO BUILDHGT	NEW_EG14	22.90	22.90	0.00	0.00	0.00	0.00
SO BUILDHGT	NEW_EG14	0.00	15.20	15.20	15.20	15.20	15.20
SO BUILDHGT	NEW_EG14	15.20	15.20	15.20	15.20	15.20	15.20
SO BUILDWID	NEW_EG14	80.78	67.15	0.00	0.00	0.00	0.00
SO BUILDWID	NEW_EG14	0.00	72.95	72.17	74.47	80.20	85.56
SO BUILDWID	NEW_EG14	88.33	88.41	107.79	128.71	130.03	45.66
SO BUILDWID	NEW_EG14	41.80	53.75	0.00	0.00	0.00	0.00
SO BUILDWID	NEW_EG14	0.00	72.95	72.17	72.97	84.37	94.75
SO BUILDWID	NEW_EG14	102.25	106.64	107.79	105.67	100.34	91.96
SO BUILDLEN	NEW_EG14	72.97	84.37	0.00	0.00	0.00	0.00
SO BUILDLEN	NEW_EG14	0.00	100.34	91.96	62.71	56.77	51.47
SO BUILDLEN	NEW_EG14	59.83	66.36	72.61	124.63	111.29	86.02
SO BUILDLEN	NEW_EG14	80.22	82.60	0.00	0.00	0.00	0.00
SO BUILDLEN	NEW_EG14	0.00	100.34	91.96	80.78	67.15	55.98
SO BUILDLEN	NEW_EG14	63.51	69.11	72.61	73.90	72.95	72.17
SO XBADJ	NEW_EG14	-1.10	-13.01	0.00	0.00	0.00	0.00
SO XBADJ	NEW_EG14	0.00	-68.33	-71.54	-136.64	-135.40	-131.70
SO XBADJ	NEW_EG14	-135.86	-135.89	-82.25	-207.16	-205.42	-188.88
SO XBADJ	NEW_EG14	-188.68	-189.71	0.00	0.00	0.00	0.00
SO XBADJ	NEW_EG14	0.00	-32.01	-20.42	-8.22	4.24	12.98
SO XBADJ	NEW_EG14	12.23	11.11	9.65	7.89	5.90	3.73
SO YBADJ	NEW_EG14	32.18	37.82	0.00	0.00	0.00	0.00
SO YBADJ	NEW_EG14	0.00	42.37	39.81	41.13	21.15	0.61
SO YBADJ	NEW_EG14	-19.95	-39.91	-1.96	50.23	21.52	33.03
SO YBADJ	NEW_EG14	2.59	-23.25	0.00	0.00	0.00	0.00
SO YBADJ	NEW_EG14	0.00	-42.37	-39.81	-35.39	-29.18	-22.17
SO YBADJ	NEW_EG14	-14.48	-6.36	1.96	10.22	18.16	25.56
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\*\* BUILDING CRN 570153.79 4148962.66  
\*\* BUILDING CRN 570161.53 4149006.98  
\*\* BUILDING CRN 570151.68 4149009.79  
\*\* BUILDING BLD 0 0 3.78 18.3 4.0  
\*\* BUILDING IDN F2  
\*\* BUILDING CRN 570015.09 4148906.87  
\*\* BUILDING CRN 570055.09 4148974.92  
\*\* BUILDING CRN 570081.83 4148970.14  
\*\* BUILDING CRN 570042.70 4148900.57  
\*\* BUILDING BLD 0 0 3.92 18.3 8.0  
\*\* BUILDING IDN F3  
\*\* BUILDING CRN 570066.18 4148896.44  
\*\* BUILDING CRN 570089.88 4148940.79  
\*\* BUILDING CRN 570129.66 4148932.53  
\*\* BUILDING CRN 570131.19 4148936.00  
\*\* BUILDING CRN 570165.10 4148930.13

\*\* BUILDING CRN 570136.62 4148876.00  
\*\* BUILDING CRN 570101.18 4148882.74  
\*\* BUILDING CRN 570104.01 4148889.04  
\*\* BUILDING BLD 0 0 4.13 18.3 9.0  
\*\* BUILDING IDN F4  
\*\* BUILDING CRN 570195.54 4148925.79  
\*\* BUILDING CRN 570214.45 4148922.31  
\*\* BUILDING CRN 570211.63 4148918.18  
\*\* BUILDING CRN 570250.76 4148911.87  
\*\* BUILDING CRN 570222.28 4148858.39  
\*\* BUILDING CRN 570182.28 4148866.87  
\*\* BUILDING CRN 570180.54 4148863.17  
\*\* BUILDING CRN 570162.06 4148866.87  
\*\* BUILDING CRN 570195.32 4148925.57  
\*\* BUILDING BLD 0 0 3.02 22.9 9.0  
\*\* BUILDING IDN F5  
\*\* BUILDING CRN 570350.77 4148893.39  
\*\* BUILDING CRN 570376.64 4148888.18  
\*\* BUILDING CRN 570355.98 4148848.61  
\*\* BUILDING CRN 570380.33 4148843.17  
\*\* BUILDING CRN 570369.24 4148822.52  
\*\* BUILDING CRN 570342.29 4148827.95  
\*\* BUILDING CRN 570340.11 4148820.13  
\*\* BUILDING CRN 570313.59 4148825.78  
\*\* BUILDING CRN 570350.98 4148893.83  
\*\* BUILDING BLD 0 0 3.25 15.2 8.0  
\*\* BUILDING IDN F6  
\*\* BUILDING CRN 570410.12 4148870.78  
\*\* BUILDING CRN 570428.38 4148867.52  
\*\* BUILDING CRN 570430.77 4148873.17  
\*\* BUILDING CRN 570467.73 4148865.78  
\*\* BUILDING CRN 570434.47 4148801.00  
\*\* BUILDING CRN 570394.46 4148809.26  
\*\* BUILDING CRN 570392.72 4148805.78  
\*\* BUILDING CRN 570375.77 4148809.47  
\*\* BUILDING BLD 0 0 2.62 19.8 6.0  
\*\* BUILDING IDN F7  
\*\* BUILDING CRN 570536.21 4148973.18  
\*\* BUILDING CRN 570572.30 4148967.31  
\*\* BUILDING CRN 570567.30 4148939.70  
\*\* BUILDING CRN 570557.52 4148941.44  
\*\* BUILDING CRN 570546.87 4148889.26  
\*\* BUILDING CRN 570520.12 4148893.39  
\*\* BUILDING BLD 0 0 2.76 14.9 7.0  
\*\* BUILDING IDN F8  
\*\* BUILDING CRN 570594.04 4148962.31  
\*\* BUILDING CRN 570594.04 4148962.53  
\*\* BUILDING CRN 570647.09 4148952.09  
\*\* BUILDING CRN 570609.26 4148871.87  
\*\* BUILDING CRN 570585.35 4148876.65  
\*\* BUILDING CRN 570610.13 4148931.44  
\*\* BUILDING CRN 570589.04 4148934.92  
\*\* BUILDING BLD 0 0 2.68 22.9 7.0  
\*\* BUILDING IDN F9

\*\* BUILDING CRN 570375.98 4148952.53  
\*\* BUILDING CRN 570375.77 4148952.53  
\*\* BUILDING CRN 570384.03 4148994.70  
\*\* BUILDING CRN 570440.34 4148983.83  
\*\* BUILDING CRN 570435.12 4148957.53  
\*\* BUILDING CRN 570406.64 4148962.53  
\*\* BUILDING CRN 570403.59 4148946.66  
\*\* BUILDING BLD 0 0 3.16 22.9 6.0  
\*\* BUILDING IDN F10  
\*\* BUILDING CRN 570462.71 4148986.15  
\*\* BUILDING CRN 570503.17 4148978.83  
\*\* BUILDING CRN 570488.60 4148900.13  
\*\* BUILDING CRN 570462.95 4148905.57  
\*\* BUILDING CRN 570474.25 4148957.96  
\*\* BUILDING CRN 570457.51 4148960.57  
\*\* BUILDING BLD 0 0 3.02 22.9 6.0  
\*\* BUILDING IDN F11  
\*\* BUILDING CRN 570222.67 4149027.81  
\*\* BUILDING CRN 570275.72 4149018.29  
\*\* BUILDING CRN 570271.09 4148992.20  
\*\* BUILDING CRN 570242.39 4148997.13  
\*\* BUILDING CRN 570232.82 4148948.72  
\*\* BUILDING CRN 570207.02 4148953.07  
\*\* BUILDING BLD 0 0 2.94 18.3 5.0  
\*\* BUILDING IDN F12  
\*\* BUILDING CRN 570334.57 4149010.18  
\*\* BUILDING CRN 570360.37 4149004.96  
\*\* BUILDING CRN 570348.77 4148941.19  
\*\* BUILDING CRN 570322.68 4148945.82  
\*\* BUILDING CRN 570334.28 4149009.60  
\*\* BUILDING BLD 0 0 2.79 22.9 5.0  
\*\* BUILDING IDN F13  
\*\* BUILDING CRN 570342.40 4149044.09  
\*\* BUILDING CRN 570352.25 4149093.08  
\*\* BUILDING CRN 570376.60 4149088.44  
\*\* BUILDING CRN 570366.45 4149039.45  
\*\* BUILDING CRN 570342.40 4149043.80  
\*\* BUILDING BLD 0 0 2.96 36.6 5.0  
\*\* BUILDING IDN F14  
\*\* BUILDING CRN 570378.63 4149101.78  
\*\* BUILDING CRN 570379.21 4149101.49  
\*\* BUILDING CRN 570299.78 4149116.27  
\*\* BUILDING CRN 570304.42 4149143.52  
\*\* BUILDING CRN 570383.85 4149128.73  
\*\* BUILDING BLD 0 0 2.18 18.3 6.0  
\*\* BUILDING IDN F15  
\*\* BUILDING CRN 570287.03 4149147.00  
\*\* BUILDING CRN 570304.71 4149143.52  
\*\* BUILDING CRN 570300.07 4149116.56  
\*\* BUILDING CRN 570306.74 4149114.82  
\*\* BUILDING CRN 570294.28 4149052.21  
\*\* BUILDING CRN 570269.35 4149057.43  
\*\* BUILDING BLD 0 0 2.40 21.3 5.0  
\*\* BUILDING IDN F16

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** BUILDING CRN 570164.99 4149167.29
** BUILDING CRN 570270.22 4149151.05
** BUILDING CRN 570263.84 4149114.82
** BUILDING CRN 570144.47 4149135.48
** BUILDING CRN 570165.57 4149167.00
** BUILDING BLD 0 0 3.35 22.9 7.0
** BUILDING IDN F17
** BUILDING CRN 570071.07 4149007.86
** BUILDING CRN 570070.78 4149007.86
** BUILDING CRN 570098.03 4149055.40
** BUILDING CRN 570141.51 4149048.15
** BUILDING CRN 570136.00 4149022.93
** BUILDING CRN 570111.37 4149026.99
** BUILDING CRN 570094.26 4148994.81
** BUILDING BLD 0 0 4.16 18.3 8.0
** BUILDING IDN F18
** BUILDING CRN 570242.32 4148853.26
** BUILDING CRN 570253.73 4148874.29
** BUILDING CRN 570279.65 4148869.89
** BUILDING CRN 570296.61 4148903.14
** BUILDING CRN 570321.39 4148897.60
** BUILDING CRN 570287.31 4148835.16
** BUILDING CRN 570264.49 4148840.70
** BUILDING CRN 570267.42 4148847.71

** TERRFILE U:\STANFO~1\2014RE~1\Modeling\TERRAI~1\N38W123.TIF 2 0 WGS84 10 0 499954.7
4094815.9 499955.3 4205871.5 587842.5 4206343.7 589023.2 4095283.7
** AMPTYPE NED
** AMPDATUM 3
** AMPZONE 10
** AMPHEMISPHERE N
** HILLBOUN 563266.6 4142613.5 576069.6 4155416.5

** PROJECTION UTM
** DATUM NAR-C
** UNITS METER
** ZONE 10
** HEMISPHERE N
** ORIGINLON 0
** ORIGINLAT 0
** PARALLEL1 0
** PARALLEL2 0
** AZIMUTH 0
** SCALEFACT 0
** FALSEEAST 0
** FALSENORTH 0

** POSTFMT UNFORM
** TEMPLATE UserDefined
** ISCST3EXE ISC3PRIME_BREEZE_04269.exe
** AERMAPEXE AERMAP_EPA_11103.EXE
```

**Run 2, Project Emergency Generator Model Input File**

\*\* BREEZE ISC  
 \*\* Trinity Consultants  
 \*\* VERSION 7.9  
 \*\* PRIME

CO STARTING  
 CO TITLEONE Onsite Generators  
 CO TITLETWO Stanford Redwood City  
 CO MODELOPT DEFAULT CONC URBAN  
 CO RUNORNOT RUN  
 CO AVERTIME PERIOD  
 CO POLLUTID OTHER  
 CO TERRHGTS ELEV  
 CO SAVEFILE TMP.FIL  
 CO FINISHED

SO STARTING  
 SO ELEVUNIT METERS  
 SO LOCATION NEW\_EG1 POINT 570550.940 4148884.220 3.12  
 SO LOCATION NEW\_EG2 POINT 570609.630 4148867.280 3.36  
 SO LOCATION NEW\_EG3 POINT 570412.680 4148954.180 3.38  
 SO LOCATION NEW\_EG4 POINT 570491.860 4148895.640 2.96  
 SO LOCATION NEW\_EG5 POINT 570369.360 4148816.480 3.82  
 SO LOCATION NEW\_EG6 POINT 570274.04 4148986.24 3.47  
 SO LOCATION NEW\_EG7 POINT 570352.950 4148934.210 3.38  
 SO LOCATION NEW\_EG8 POINT 570293.740 4148832.230 3.88  
 SO LOCATION NEW\_EG9 POINT 570136.190 4149017.750 3.37  
 SO LOCATION NEW\_EG10 POINT 570185.820 4148951.570 4.09  
 SO LOCATION NEW\_EG11 POINT 570047.960 4148898.790 3.92  
 SO LOCATION NEW\_EG12 POINT 570386.690 4149099.280 2.71  
 SO LOCATION NEW\_EG13 POINT 570375.660 4149036.260 2.39  
 SO LOCATION NEW\_EG14 POINT 570447.308 4148797.273 3.69  
 SO SRCPARAM NEW\_EG1 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG2 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG3 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG4 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG5 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG6 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG7 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG8 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG9 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG10 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG11 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG12 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG13 8.879E-05 3.66 956.95 57.156 0.183  
 SO SRCPARAM NEW\_EG14 8.879E-05 3.66 956.95 57.156 0.183  
 SO BUILDHGT NEW\_EG1 19.80 19.80 19.80 19.80 19.80 19.80  
 SO BUILDHGT NEW\_EG1 19.80 19.80 19.80 22.90 22.90 22.90  
 SO BUILDHGT NEW\_EG1 22.90 22.90 22.90 19.80 19.80 19.80  
 SO BUILDHGT NEW\_EG1 19.80 19.80 19.80 19.80 19.80 19.80  
 SO BUILDHGT NEW\_EG1 19.80 19.80 19.80 19.80 19.80 19.80  
 SO BUILDHGT NEW\_EG1 19.80 19.80 22.90 19.80 19.80 19.80  
 SO BUILDWID NEW\_EG1 38.55 40.67 51.19 62.11 71.14 78.01

SO	BUILDWID	NEW_EG1	82.50	84.50	83.92	80.22	82.60	83.56
SO	BUILDWID	NEW_EG1	81.97	77.90	71.46	74.32	64.22	52.18
SO	BUILDWID	NEW_EG1	38.55	40.67	51.19	62.11	71.14	78.01
SO	BUILDWID	NEW_EG1	82.50	84.50	83.92	81.86	87.31	90.11
SO	BUILDWID	NEW_EG1	90.17	87.49	71.46	74.32	64.22	52.18
SO	BUILDLLEN	NEW_EG1	81.86	87.31	90.11	90.17	87.49	82.15
SO	BUILDLLEN	NEW_EG1	74.32	64.22	52.18	41.80	53.75	65.43
SO	BUILDLLEN	NEW_EG1	75.13	82.54	87.44	82.50	84.50	83.92
SO	BUILDLLEN	NEW_EG1	81.86	87.31	90.11	90.17	87.49	82.15
SO	BUILDLLEN	NEW_EG1	74.32	64.22	52.18	38.55	40.67	51.19
SO	BUILDLLEN	NEW_EG1	62.11	71.14	87.44	82.50	84.50	83.92
SO	XBADJ	NEW_EG1	3.68	-1.92	-7.47	-12.79	-17.72	-22.11
SO	XBADJ	NEW_EG1	-25.83	-28.76	-30.82	-105.27	-117.77	-127.37
SO	XBADJ	NEW_EG1	-133.11	-134.80	-132.39	-88.63	-90.17	-88.96
SO	XBADJ	NEW_EG1	-85.54	-85.38	-82.64	-77.38	-69.77	-60.04
SO	XBADJ	NEW_EG1	-48.49	-35.46	-21.36	-6.61	3.60	6.04
SO	XBADJ	NEW_EG1	6.36	6.48	44.95	6.13	5.67	5.04
SO	YBADJ	NEW_EG1	12.67	23.93	31.64	37.41	42.05	45.40
SO	YBADJ	NEW_EG1	47.38	47.92	47.00	44.95	31.27	16.27
SO	YBADJ	NEW_EG1	0.78	-14.73	-29.80	11.33	3.35	-4.73
SO	YBADJ	NEW_EG1	-12.67	-23.93	-31.64	-37.41	-42.05	-45.40
SO	YBADJ	NEW_EG1	-47.38	-47.92	-47.00	-44.61	-41.73	-37.58
SO	YBADJ	NEW_EG1	-32.30	-26.03	29.80	-11.33	-3.35	4.73
SO	BUILDHGT	NEW_EG2	14.90	14.90	14.90	14.90	14.90	14.90
SO	BUILDHGT	NEW_EG2	14.90	14.90	14.90	14.90	19.80	19.80
SO	BUILDHGT	NEW_EG2	19.80	19.80	19.80	19.80	14.90	14.90
SO	BUILDHGT	NEW_EG2	14.90	14.90	14.90	14.90	14.90	14.90
SO	BUILDHGT	NEW_EG2	14.90	14.90	14.90	14.90	14.90	14.90
SO	BUILDHGT	NEW_EG2	14.90	14.90	14.90	14.90	14.90	14.90
SO	BUILDWID	NEW_EG2	54.19	53.42	58.51	69.93	79.23	86.12
SO	BUILDWID	NEW_EG2	90.40	91.93	90.66	86.64	87.31	90.11
SO	BUILDWID	NEW_EG2	90.17	87.49	82.15	74.32	73.90	61.74
SO	BUILDWID	NEW_EG2	54.19	53.42	58.51	69.93	79.23	86.12
SO	BUILDWID	NEW_EG2	90.40	91.93	90.66	86.64	92.01	96.20
SO	BUILDWID	NEW_EG2	97.48	95.79	91.19	83.82	73.90	61.74
SO	BUILDLLEN	NEW_EG2	86.64	92.01	96.20	97.48	95.79	91.19
SO	BUILDLLEN	NEW_EG2	83.82	73.90	61.74	54.19	40.67	51.19
SO	BUILDLLEN	NEW_EG2	62.11	71.14	78.01	82.50	91.93	90.66
SO	BUILDLLEN	NEW_EG2	86.64	92.01	96.20	97.48	95.79	91.19
SO	BUILDLLEN	NEW_EG2	83.82	73.90	61.74	54.19	53.42	58.51
SO	BUILDLLEN	NEW_EG2	69.93	79.23	86.12	90.40	91.93	90.66
SO	XBADJ	NEW_EG2	4.46	0.50	-4.03	-8.43	-12.58	-16.34
SO	XBADJ	NEW_EG2	-19.61	-22.28	-24.28	-32.02	-105.21	-116.53
SO	XBADJ	NEW_EG2	-124.31	-128.32	-128.42	-124.62	-96.51	-95.25
SO	XBADJ	NEW_EG2	-91.10	-92.51	-92.18	-89.05	-83.21	-74.85
SO	XBADJ	NEW_EG2	-64.21	-51.62	-37.46	-22.16	-6.19	2.62
SO	XBADJ	NEW_EG2	3.23	3.75	4.16	4.44	4.58	4.59
SO	YBADJ	NEW_EG2	4.93	20.52	31.87	38.20	43.37	47.22
SO	YBADJ	NEW_EG2	49.64	50.55	49.92	47.78	37.58	22.91
SO	YBADJ	NEW_EG2	7.55	-8.04	-23.39	-38.02	14.67	6.59
SO	YBADJ	NEW_EG2	-4.93	-20.52	-31.87	-38.20	-43.37	-47.22
SO	YBADJ	NEW_EG2	-49.64	-50.55	-49.92	-47.78	-46.50	-44.08
SO	YBADJ	NEW_EG2	-40.31	-35.32	-29.25	-22.30	-14.67	-6.59
SO	BUILDHGT	NEW_EG3	22.90	22.90	22.90	22.90	22.90	22.90

SO	BUILDHGT	NEW_EG3	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG3	22.90	36.60	36.60	36.60	36.60	22.90
SO	BUILDHGT	NEW_EG3	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG3	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG3	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDWID	NEW_EG3	120.90	130.61	137.85	140.89	82.54	87.44
SO	BUILDWID	NEW_EG3	89.69	89.21	86.02	80.22	82.60	83.56
SO	BUILDWID	NEW_EG3	81.97	72.41	79.04	83.26	84.96	127.40
SO	BUILDWID	NEW_EG3	120.90	130.61	137.85	140.89	82.54	87.44
SO	BUILDWID	NEW_EG3	89.69	89.21	86.02	80.22	82.60	83.56
SO	BUILDWID	NEW_EG3	81.97	77.90	123.48	128.71	130.03	127.40
SO	BUILDLEN	NEW_EG3	80.22	82.60	86.48	102.04	77.90	71.46
SO	BUILDLEN	NEW_EG3	62.85	52.33	45.66	41.80	53.75	65.43
SO	BUILDLEN	NEW_EG3	75.13	80.27	73.79	65.07	54.38	94.57
SO	BUILDLEN	NEW_EG3	80.22	82.60	86.48	102.04	77.90	71.46
SO	BUILDLEN	NEW_EG3	62.85	52.33	45.66	41.80	53.75	65.43
SO	BUILDLEN	NEW_EG3	75.13	82.54	134.18	124.63	111.29	94.57
SO	XBADJ	NEW_EG3	-40.05	-28.49	-19.88	-24.99	7.26	19.23
SO	XBADJ	NEW_EG3	30.61	41.07	44.83	43.04	36.08	27.34
SO	XBADJ	NEW_EG3	17.78	-214.63	-218.10	-214.95	-205.26	-40.52
SO	XBADJ	NEW_EG3	-40.17	-54.11	-66.59	-77.05	-85.16	-90.69
SO	XBADJ	NEW_EG3	-93.46	-93.40	-90.49	-84.83	-89.83	-92.77
SO	XBADJ	NEW_EG3	-92.90	-90.21	-84.77	-76.76	-66.41	-54.05
SO	YBADJ	NEW_EG3	-24.39	-24.52	-23.85	-22.45	-48.94	-41.05
SO	YBADJ	NEW_EG3	-31.91	-21.81	-11.04	0.06	12.81	24.82
SO	YBADJ	NEW_EG3	36.06	53.91	22.79	-9.02	-40.56	26.79
SO	YBADJ	NEW_EG3	24.39	24.52	23.85	22.45	48.94	41.05
SO	YBADJ	NEW_EG3	31.91	21.81	11.04	-0.06	-12.81	-24.82
SO	YBADJ	NEW_EG3	-36.06	-46.21	-28.95	-29.11	-28.38	-26.79
SO	BUILDHGT	NEW_EG4	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG4	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG4	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG4	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG4	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDWID	NEW_EG4	41.80	53.75	65.43	75.13	82.54	87.44
SO	BUILDWID	NEW_EG4	89.69	89.21	86.02	80.22	82.60	83.56
SO	BUILDWID	NEW_EG4	81.97	77.90	71.46	62.85	52.33	45.66
SO	BUILDWID	NEW_EG4	41.80	53.75	65.43	75.13	82.54	87.44
SO	BUILDWID	NEW_EG4	89.69	89.21	86.02	80.22	82.60	83.56
SO	BUILDWID	NEW_EG4	81.97	77.90	71.46	62.85	52.33	45.66
SO	BUILDLEN	NEW_EG4	80.22	82.60	83.56	81.97	77.90	71.46
SO	BUILDLEN	NEW_EG4	62.85	52.33	45.66	41.80	53.75	65.43
SO	BUILDLEN	NEW_EG4	75.13	82.54	87.44	89.69	89.21	86.02
SO	BUILDLEN	NEW_EG4	80.22	82.60	83.56	81.97	77.90	71.46
SO	BUILDLEN	NEW_EG4	62.85	52.33	45.66	41.80	53.75	65.43
SO	BUILDLEN	NEW_EG4	75.13	82.54	87.44	89.69	89.21	86.02
SO	XBADJ	NEW_EG4	3.86	-0.56	-5.86	-10.98	-15.76	-20.07
SO	XBADJ	NEW_EG4	-23.77	-26.75	-34.35	-45.10	-58.35	-70.50
SO	XBADJ	NEW_EG4	-80.51	-88.07	-92.96	-95.02	-94.20	-90.51
SO	XBADJ	NEW_EG4	-84.07	-82.04	-77.70	-71.00	-62.14	-51.39
SO	XBADJ	NEW_EG4	-39.08	-25.58	-11.31	3.31	4.60	5.07
SO	XBADJ	NEW_EG4	5.38	5.54	5.52	5.33	4.99	4.49
SO	YBADJ	NEW_EG4	24.21	31.47	37.78	42.95	46.80	49.24

SO YBADJ	NEW_EG4	50.18	49.59	47.50	43.96	40.74	35.92
SO YBADJ	NEW_EG4	30.01	23.19	15.66	7.66	-0.58	-11.52
SO YBADJ	NEW_EG4	-24.21	-31.47	-37.78	-42.95	-46.80	-49.24
SO YBADJ	NEW_EG4	-50.18	-49.59	-47.50	-43.96	-40.74	-35.92
SO YBADJ	NEW_EG4	-30.01	-23.19	-15.66	-7.66	0.58	11.52
SO BUILDHGT	NEW_EG5	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG5	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG5	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG5	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG5	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG5	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDWID	NEW_EG5	62.71	56.77	51.47	59.83	66.36	70.89
SO BUILDWID	NEW_EG5	73.25	73.40	73.70	74.47	80.20	85.56
SO BUILDWID	NEW_EG5	88.33	88.41	85.80	80.59	72.93	66.74
SO BUILDWID	NEW_EG5	62.71	56.77	51.47	59.83	66.36	70.89
SO BUILDWID	NEW_EG5	73.25	73.40	73.70	74.47	80.20	85.56
SO BUILDWID	NEW_EG5	88.33	88.41	85.80	80.59	72.93	66.74
SO BUILDLEN	NEW_EG5	74.47	80.20	85.56	88.33	88.41	85.80
SO BUILDLEN	NEW_EG5	80.59	72.93	66.74	62.71	56.77	51.47
SO BUILDLEN	NEW_EG5	59.83	66.36	70.89	73.25	73.40	73.70
SO BUILDLEN	NEW_EG5	74.47	80.20	85.56	88.33	88.41	85.80
SO BUILDLEN	NEW_EG5	80.59	72.93	66.74	62.71	56.77	51.47
SO BUILDLEN	NEW_EG5	59.83	66.36	70.89	73.25	73.40	73.70
SO XBADJ	NEW_EG5	-1.48	-10.34	-19.83	-28.72	-36.74	-43.65
SO XBADJ	NEW_EG5	-49.23	-53.31	-55.77	-56.54	-55.59	-54.59
SO XBADJ	NEW_EG5	-63.80	-71.07	-76.18	-78.97	-79.37	-77.35
SO XBADJ	NEW_EG5	-72.98	-69.87	-65.73	-59.60	-51.66	-42.15
SO XBADJ	NEW_EG5	-31.36	-19.62	-10.97	-6.17	-1.18	3.12
SO XBADJ	NEW_EG5	3.97	4.70	5.29	5.72	5.97	3.65
SO YBADJ	NEW_EG5	25.18	27.20	28.86	33.89	37.89	40.73
SO YBADJ	NEW_EG5	42.34	42.67	40.50	35.75	29.77	22.95
SO YBADJ	NEW_EG5	15.44	7.46	-0.75	-8.93	-16.84	-22.40
SO YBADJ	NEW_EG5	-25.18	-27.20	-28.86	-33.89	-37.89	-40.73
SO YBADJ	NEW_EG5	-42.34	-42.67	-40.50	-35.75	-29.77	-22.95
SO YBADJ	NEW_EG5	-15.44	-7.46	0.75	8.93	16.84	22.40
SO BUILDHGT	NEW_EG6	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG6	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG6	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG6	36.60	36.60	36.60	36.60	22.90	22.90
SO BUILDHGT	NEW_EG6	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG6	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDWID	NEW_EG6	56.33	57.68	59.74	59.98	67.11	73.57
SO BUILDWID	NEW_EG6	77.79	79.65	79.09	76.32	84.78	90.83
SO BUILDWID	NEW_EG6	94.12	94.55	92.11	86.86	78.98	68.70
SO BUILDWID	NEW_EG6	80.95	84.65	85.79	84.31	67.11	73.57
SO BUILDWID	NEW_EG6	77.79	111.29	94.57	80.22	82.60	90.83
SO BUILDWID	NEW_EG6	94.12	94.55	92.11	86.86	78.98	68.70
SO BUILDLEN	NEW_EG6	76.32	84.78	90.83	94.12	94.55	92.11
SO BUILDLEN	NEW_EG6	86.86	78.98	68.70	56.33	57.68	59.74
SO BUILDLEN	NEW_EG6	59.98	67.11	73.57	77.79	79.65	79.09
SO BUILDLEN	NEW_EG6	28.40	40.46	52.83	63.58	94.55	92.11
SO BUILDLEN	NEW_EG6	86.86	130.03	127.40	120.90	130.61	59.74
SO BUILDLEN	NEW_EG6	59.98	67.11	73.57	77.79	79.65	79.09
SO XBADJ	NEW_EG6	-44.30	-54.09	-62.24	-68.49	-72.66	-74.63

SO XBADJ	NEW_EG6	-74.32	-71.76	-67.02	-60.24	-62.49	-65.27
SO XBADJ	NEW_EG6	-66.07	-64.86	-61.69	-56.63	-49.86	-41.57
SO XBADJ	NEW_EG6	-160.17	-171.45	-178.30	-179.74	-21.89	-17.48
SO XBADJ	NEW_EG6	-12.54	-224.36	-229.13	-226.94	-231.07	5.53
SO XBADJ	NEW_EG6	6.09	-2.25	-11.88	-21.16	-29.79	-37.52
SO YBADJ	NEW_EG6	32.08	33.65	35.40	36.08	31.31	24.90
SO YBADJ	NEW_EG6	17.74	10.03	2.02	-6.14	-11.70	-16.82
SO YBADJ	NEW_EG6	-21.43	-25.39	-28.57	-30.89	-32.27	-32.67
SO YBADJ	NEW_EG6	43.08	17.08	-9.44	-35.67	-31.31	-24.90
SO YBADJ	NEW_EG6	-17.74	66.41	38.82	7.44	-30.11	16.82
SO YBADJ	NEW_EG6	21.43	25.39	28.57	30.89	32.27	32.67
SO BUILDHGT	NEW_EG7	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG7	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG7	22.90	22.90	22.90	36.60	36.60	36.60
SO BUILDHGT	NEW_EG7	36.60	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG7	22.90	22.90	22.90	22.90	22.90	18.30
SO BUILDHGT	NEW_EG7	18.30	22.90	22.90	22.90	22.90	22.90
SO BUILDWID	NEW_EG7	62.71	130.61	137.85	140.89	139.66	134.18
SO BUILDWID	NEW_EG7	124.63	111.29	94.57	80.22	82.60	90.83
SO BUILDWID	NEW_EG7	94.12	88.41	85.80	83.26	84.96	84.07
SO BUILDWID	NEW_EG7	80.95	130.61	137.85	140.89	139.66	87.44
SO BUILDWID	NEW_EG7	89.69	89.21	86.02	80.22	82.60	70.06
SO BUILDWID	NEW_EG7	69.53	88.41	85.80	80.59	72.93	66.74
SO BUILDLEN	NEW_EG7	74.47	82.60	86.48	102.04	114.50	123.48
SO BUILDLEN	NEW_EG7	128.71	130.03	127.40	120.90	130.61	59.74
SO BUILDLEN	NEW_EG7	59.98	66.36	70.89	65.07	54.38	42.03
SO BUILDLEN	NEW_EG7	28.40	82.60	86.48	102.04	114.50	71.46
SO BUILDLEN	NEW_EG7	62.85	52.33	45.66	41.80	53.75	46.79
SO BUILDLEN	NEW_EG7	55.22	66.36	70.89	73.25	73.40	73.70
SO XBADJ	NEW_EG7	-114.58	10.71	27.28	28.70	29.26	28.92
SO XBADJ	NEW_EG7	27.71	25.65	22.82	19.29	8.52	-159.63
SO XBADJ	NEW_EG7	-159.97	29.67	33.99	-213.29	-214.56	-209.31
SO XBADJ	NEW_EG7	-197.70	-93.31	-113.75	-130.74	-143.76	-152.40
SO XBADJ	NEW_EG7	-156.42	-155.69	-150.22	-140.19	-139.13	7.11
SO XBADJ	NEW_EG7	7.69	-96.03	-104.87	-110.53	-112.82	-114.08
SO YBADJ	NEW_EG7	-11.42	-73.82	-65.59	-55.37	-43.47	-30.25
SO YBADJ	NEW_EG7	-16.10	-1.47	13.21	30.10	52.01	-11.22
SO YBADJ	NEW_EG7	-32.29	-55.64	-45.40	53.94	21.73	-11.14
SO YBADJ	NEW_EG7	-43.66	73.82	65.59	55.37	43.47	53.62
SO YBADJ	NEW_EG7	33.58	12.51	-8.93	-30.10	-52.01	-29.95
SO YBADJ	NEW_EG7	-24.20	55.64	45.40	33.78	21.13	5.99
SO BUILDHGT	NEW_EG8	18.30	18.30	18.30	22.90	22.90	22.90
SO BUILDHGT	NEW_EG8	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG8	22.90	22.90	18.30	18.30	18.30	18.30
SO BUILDHGT	NEW_EG8	18.30	18.30	18.30	22.90	22.90	22.90
SO BUILDHGT	NEW_EG8	22.90	22.90	22.90	22.90	22.90	22.90
SO BUILDHGT	NEW_EG8	22.90	22.90	18.30	18.30	18.30	18.30
SO BUILDWID	NEW_EG8	70.17	59.14	48.65	59.83	66.36	70.89
SO BUILDWID	NEW_EG8	73.25	73.40	73.70	74.47	80.20	85.56
SO BUILDWID	NEW_EG8	88.33	88.41	90.65	89.47	85.57	79.07
SO BUILDWID	NEW_EG8	70.17	59.14	48.65	59.83	66.36	70.89
SO BUILDWID	NEW_EG8	73.25	73.40	73.70	74.47	80.20	85.56
SO BUILDWID	NEW_EG8	88.33	88.41	90.65	89.47	85.57	79.07
SO BUILDLEN	NEW_EG8	68.56	72.93	77.93	88.33	88.41	85.80

SO	BUILDLEN	NEW_EG8	80.59	72.93	66.74	62.71	56.77	51.47
SO	BUILDLEN	NEW_EG8	59.83	66.36	54.22	60.70	65.33	67.98
SO	BUILDLEN	NEW_EG8	68.56	72.93	77.93	88.33	88.41	85.80
SO	BUILDLEN	NEW_EG8	80.59	72.93	66.74	62.71	56.77	51.47
SO	BUILDLEN	NEW_EG8	59.83	66.36	54.22	60.70	65.33	67.98
SO	XBADJ	NEW_EG8	1.77	-2.04	-7.50	7.82	11.06	13.97
SO	XBADJ	NEW_EG8	16.45	18.43	19.85	20.67	20.86	18.77
SO	XBADJ	NEW_EG8	4.25	-10.40	-59.97	-65.65	-69.33	-70.91
SO	XBADJ	NEW_EG8	-70.33	-70.88	-70.44	-96.15	-99.47	-99.77
SO	XBADJ	NEW_EG8	-97.04	-91.36	-86.59	-83.37	-77.63	-70.24
SO	XBADJ	NEW_EG8	-64.08	-55.97	5.75	4.95	4.00	2.93
SO	YBADJ	NEW_EG8	19.21	25.94	31.36	-34.17	-22.79	-10.72
SO	YBADJ	NEW_EG8	1.68	14.03	24.75	33.37	40.83	47.12
SO	YBADJ	NEW_EG8	51.98	55.26	11.31	3.61	-4.20	-11.89
SO	YBADJ	NEW_EG8	-19.21	-25.94	-31.36	34.17	22.79	10.72
SO	YBADJ	NEW_EG8	-1.68	-14.03	-24.75	-33.37	-40.83	-47.12
SO	YBADJ	NEW_EG8	-51.98	-55.26	-11.31	-3.61	4.20	11.89
SO	BUILDHGT	NEW_EG9	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG9	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG9	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG9	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG9	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG9	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDWID	NEW_EG9	62.66	56.13	49.12	49.96	49.28	50.59
SO	BUILDWID	NEW_EG9	55.65	59.01	60.59	60.73	66.28	70.26
SO	BUILDWID	NEW_EG9	76.33	80.08	81.40	80.24	76.65	70.73
SO	BUILDWID	NEW_EG9	62.66	56.13	49.12	49.96	49.28	50.59
SO	BUILDWID	NEW_EG9	55.65	59.01	60.59	60.73	66.28	70.26
SO	BUILDWID	NEW_EG9	76.33	80.08	81.40	80.24	76.65	70.73
SO	BUILDLEN	NEW_EG9	60.73	66.28	70.26	76.33	80.08	81.40
SO	BUILDLEN	NEW_EG9	80.24	76.65	70.73	62.66	56.13	49.12
SO	BUILDLEN	NEW_EG9	49.96	49.28	50.59	55.65	59.01	60.59
SO	BUILDLEN	NEW_EG9	60.73	66.28	70.26	76.33	80.08	81.40
SO	BUILDLEN	NEW_EG9	80.24	76.65	70.73	62.66	56.13	49.12
SO	BUILDLEN	NEW_EG9	49.96	49.28	50.59	55.65	59.01	60.59
SO	XBADJ	NEW_EG9	-29.87	-35.90	-41.27	-49.62	-56.46	-61.59
SO	XBADJ	NEW_EG9	-64.85	-66.13	-65.41	-62.70	-58.08	-51.87
SO	XBADJ	NEW_EG9	-53.43	-53.37	-51.69	-48.43	-43.70	-37.65
SO	XBADJ	NEW_EG9	-30.86	-30.39	-28.99	-26.71	-23.62	-19.81
SO	XBADJ	NEW_EG9	-15.40	-10.52	-5.32	0.04	1.95	2.75
SO	XBADJ	NEW_EG9	3.48	4.09	1.10	-7.22	-15.31	-22.94
SO	YBADJ	NEW_EG9	31.37	30.02	27.31	28.45	28.73	26.39
SO	YBADJ	NEW_EG9	20.61	14.20	7.35	0.49	-2.76	-6.14
SO	YBADJ	NEW_EG9	-11.46	-16.42	-20.89	-24.73	-27.81	-30.05
SO	YBADJ	NEW_EG9	-31.37	-30.02	-27.31	-28.45	-28.73	-26.39
SO	YBADJ	NEW_EG9	-20.61	-14.20	-7.35	-0.49	2.76	6.14
SO	YBADJ	NEW_EG9	11.46	16.42	20.89	24.73	27.81	30.05
SO	BUILDHGT	NEW_EG10	18.30	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG10	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG10	22.90	22.90	22.90	22.90	18.30	18.30
SO	BUILDHGT	NEW_EG10	18.30	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG10	22.90	22.90	22.90	22.90	22.90	18.30
SO	BUILDHGT	NEW_EG10	18.30	18.30	18.30	18.30	18.30	18.30
SO	BUILDWID	NEW_EG10	79.54	57.68	59.74	59.98	67.11	73.57

SO	BUILDWID	NEW_EG10	77.79	79.65	79.09	76.32	66.28	70.26
SO	BUILDWID	NEW_EG10	76.33	80.08	81.40	80.24	95.17	88.70
SO	BUILDWID	NEW_EG10	79.54	57.68	59.74	59.98	67.11	73.57
SO	BUILDWID	NEW_EG10	77.79	79.65	79.09	76.32	84.78	83.32
SO	BUILDWID	NEW_EG10	91.49	96.87	99.32	98.74	95.17	88.70
SO	BUILDLLEN	NEW_EG10	64.27	84.78	90.83	94.12	94.55	92.11
SO	BUILDLLEN	NEW_EG10	86.86	78.98	68.70	56.33	56.13	49.12
SO	BUILDLLEN	NEW_EG10	49.96	49.28	50.59	55.65	71.02	67.40
SO	BUILDLLEN	NEW_EG10	64.27	84.78	90.83	94.12	94.55	92.11
SO	BUILDLLEN	NEW_EG10	86.86	78.98	68.70	56.33	57.68	56.94
SO	BUILDLLEN	NEW_EG10	63.84	68.82	71.74	72.48	71.02	67.40
SO	XBADJ	NEW_EG10	-87.97	8.66	11.90	14.78	17.20	19.11
SO	XBADJ	NEW_EG10	20.43	21.14	21.20	20.62	-127.35	-127.94
SO	XBADJ	NEW_EG10	-133.99	-135.97	-133.81	-127.59	27.08	25.78
SO	XBADJ	NEW_EG10	23.70	-93.44	-102.73	-108.90	-111.75	-111.22
SO	XBADJ	NEW_EG10	-107.30	-100.12	-89.90	-76.95	-66.23	-78.17
SO	XBADJ	NEW_EG10	-87.82	-94.82	-98.93	-100.03	-98.10	-93.18
SO	YBADJ	NEW_EG10	-31.08	-37.39	-23.66	-9.21	1.16	10.82
SO	YBADJ	NEW_EG10	20.14	28.86	36.70	43.32	42.46	26.36
SO	YBADJ	NEW_EG10	7.34	-11.90	-30.78	-48.73	9.48	20.59
SO	YBADJ	NEW_EG10	31.08	37.39	23.66	9.21	-1.16	-10.82
SO	YBADJ	NEW_EG10	-20.14	-28.86	-36.70	-43.32	-51.05	43.57
SO	YBADJ	NEW_EG10	34.41	24.21	13.27	1.93	-9.48	-20.59
SO	BUILDHGT	NEW_EG11	18.30	18.30	18.30	18.30	18.30	18.30
SO	BUILDHGT	NEW_EG11	18.30	18.30	18.30	18.30	18.30	18.30
SO	BUILDHGT	NEW_EG11	18.30	18.30	18.30	18.30	18.30	18.30
SO	BUILDHGT	NEW_EG11	22.90	22.90	22.90	18.30	18.30	18.30
SO	BUILDHGT	NEW_EG11	18.30	18.30	18.30	18.30	18.30	18.30
SO	BUILDHGT	NEW_EG11	18.30	18.30	18.30	18.30	18.30	18.30
SO	BUILDWID	NEW_EG11	54.74	41.08	27.06	77.45	79.68	79.48
SO	BUILDWID	NEW_EG11	76.87	71.92	64.79	58.25	66.39	78.64
SO	BUILDWID	NEW_EG11	91.37	91.79	89.43	84.35	76.71	66.74
SO	BUILDWID	NEW_EG11	62.66	56.13	49.12	77.45	79.68	79.48
SO	BUILDWID	NEW_EG11	76.87	71.92	64.79	58.25	66.39	78.64
SO	BUILDWID	NEW_EG11	91.37	91.79	89.43	84.35	76.71	66.74
SO	BUILDLLEN	NEW_EG11	75.37	82.28	88.16	89.39	97.43	102.51
SO	BUILDLLEN	NEW_EG11	104.48	103.27	98.92	91.57	81.43	72.87
SO	BUILDLLEN	NEW_EG11	38.30	48.99	58.19	65.63	71.07	74.35
SO	BUILDLLEN	NEW_EG11	60.73	66.28	70.26	89.39	97.43	102.51
SO	BUILDLLEN	NEW_EG11	104.48	103.27	98.92	91.57	81.43	72.87
SO	BUILDLLEN	NEW_EG11	38.30	48.99	58.19	65.63	71.07	74.35
SO	XBADJ	NEW_EG11	0.84	-3.65	-9.44	9.91	12.45	14.60
SO	XBADJ	NEW_EG11	16.32	17.54	18.22	18.35	17.92	15.30
SO	XBADJ	NEW_EG11	-43.47	-53.74	-62.37	-69.10	-73.74	-76.13
SO	XBADJ	NEW_EG11	-163.34	-172.35	-176.12	-99.30	-109.88	-117.12
SO	XBADJ	NEW_EG11	-120.79	-120.80	-117.14	-109.92	-99.36	-88.18
SO	XBADJ	NEW_EG11	5.17	4.74	4.17	3.47	2.67	1.78
SO	YBADJ	NEW_EG11	6.40	13.11	18.98	-43.84	-34.61	-24.33
SO	YBADJ	NEW_EG11	-13.30	-1.88	9.61	22.08	36.32	46.39
SO	YBADJ	NEW_EG11	30.74	25.91	20.29	14.05	7.39	0.50
SO	YBADJ	NEW_EG11	34.86	12.21	-10.38	43.84	34.61	24.33
SO	YBADJ	NEW_EG11	13.30	1.88	-9.61	-22.08	-36.32	-46.39
SO	YBADJ	NEW_EG11	-30.74	-25.91	-20.29	-14.05	-7.39	-0.50
SO	BUILDHGT	NEW_EG12	36.60	36.60	36.60	36.60	36.60	36.60

SO	BUILDHGT	NEW_EG12	36.60	36.60	36.60	36.60	36.60	36.60
SO	BUILDHGT	NEW_EG12	36.60	36.60	36.60	36.60	36.60	36.60
SO	BUILDHGT	NEW_EG12	36.60	36.60	36.60	36.60	36.60	36.60
SO	BUILDHGT	NEW_EG12	36.60	36.60	36.60	36.60	36.60	36.60
SO	BUILDHGT	NEW_EG12	36.60	36.60	36.60	36.60	36.60	36.60
SO	BUILDWID	NEW_EG12	80.95	84.65	85.79	84.31	80.27	73.79
SO	BUILDWID	NEW_EG12	65.07	54.38	42.03	28.40	40.46	52.83
SO	BUILDWID	NEW_EG12	63.58	72.41	79.04	83.26	84.96	84.07
SO	BUILDWID	NEW_EG12	80.95	84.65	85.79	84.31	80.27	73.79
SO	BUILDWID	NEW_EG12	65.07	54.38	42.03	28.40	40.46	52.83
SO	BUILDWID	NEW_EG12	63.58	72.41	79.04	83.26	84.96	84.07
SO	BUILDLN	NEW_EG12	28.40	40.46	52.83	63.58	72.41	79.04
SO	BUILDLN	NEW_EG12	83.26	84.96	84.07	80.95	84.65	85.79
SO	BUILDLN	NEW_EG12	84.31	80.27	73.79	65.07	54.38	42.03
SO	XBADJ	NEW_EG12	0.88	-13.76	-28.74	-42.85	-55.66	-66.77
SO	XBADJ	NEW_EG12	-75.86	-82.64	-86.91	-88.70	-92.44	-93.37
SO	XBADJ	NEW_EG12	-91.46	-86.77	-79.45	-69.71	-57.85	-44.24
SO	XBADJ	NEW_EG12	-29.28	-26.70	-24.08	-20.73	-16.75	-12.27
SO	XBADJ	NEW_EG12	-7.40	-2.32	2.84	7.75	7.78	7.58
SO	XBADJ	NEW_EG12	7.15	6.50	5.65	4.64	3.48	2.21
SO	YBADJ	NEW_EG12	48.23	50.11	50.48	49.30	46.64	42.55
SO	YBADJ	NEW_EG12	37.17	30.66	23.22	15.08	6.47	-2.33
SO	YBADJ	NEW_EG12	-11.06	-19.45	-27.25	-34.23	-40.16	-44.88
SO	YBADJ	NEW_EG12	-48.23	-50.11	-50.48	-49.30	-46.64	-42.55
SO	YBADJ	NEW_EG12	-37.17	-30.66	-23.22	-15.08	-6.47	2.33
SO	YBADJ	NEW_EG12	11.06	19.45	27.25	34.23	40.16	44.88
SO	BUILDHGT	NEW_EG13	36.60	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG13	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG13	36.60	36.60	36.60	36.60	36.60	36.60
SO	BUILDHGT	NEW_EG13	36.60	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG13	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG13	36.60	36.60	36.60	36.60	36.60	36.60
SO	BUILDWID	NEW_EG13	80.95	93.88	105.75	114.41	119.59	73.57
SO	BUILDWID	NEW_EG13	77.79	79.65	79.09	91.72	82.60	86.48
SO	BUILDWID	NEW_EG13	63.58	72.41	79.04	83.26	84.96	84.07
SO	BUILDWID	NEW_EG13	80.95	93.88	105.75	114.41	119.59	121.14
SO	BUILDWID	NEW_EG13	119.01	113.26	104.07	91.72	82.60	83.56
SO	BUILDWID	NEW_EG13	63.58	72.41	79.04	83.26	84.96	84.07
SO	BUILDLN	NEW_EG13	28.40	93.98	94.28	91.70	86.34	92.11
SO	BUILDLN	NEW_EG13	86.86	78.98	68.70	80.95	130.61	137.85
SO	BUILDLN	NEW_EG13	84.31	80.27	73.79	65.07	54.38	42.03
SO	BUILDLN	NEW_EG13	28.40	93.98	94.28	91.70	86.34	79.04
SO	BUILDLN	NEW_EG13	83.26	84.96	84.07	80.95	53.75	65.43
SO	BUILDLN	NEW_EG13	84.31	80.27	73.79	65.07	54.38	42.03
SO	XBADJ	NEW_EG13	64.86	-4.29	-10.10	-15.60	-20.63	-187.64
SO	XBADJ	NEW_EG13	-186.92	-180.52	-168.64	-88.78	22.08	28.03
SO	XBADJ	NEW_EG13	-123.52	-127.96	-128.51	-125.16	-118.00	-107.26
SO	XBADJ	NEW_EG13	-93.26	-89.69	-84.18	-76.10	-65.71	-53.33
SO	XBADJ	NEW_EG13	-39.32	-24.12	-8.19	7.83	-152.69	-165.87
SO	XBADJ	NEW_EG13	39.21	47.69	54.72	60.08	63.62	65.23
SO	YBADJ	NEW_EG13	48.31	56.69	62.45	66.31	68.16	32.39

SO	YBADJ	NEW_EG13	5.49	-21.58	-48.00	47.40	-51.65	-29.22
SO	YBADJ	NEW_EG13	44.31	29.51	13.81	-2.31	-18.36	-33.85
SO	YBADJ	NEW_EG13	-48.31	-56.69	-62.45	-66.31	-68.16	-67.94
SO	YBADJ	NEW_EG13	-65.65	-61.37	-55.22	-47.40	51.65	27.76
SO	YBADJ	NEW_EG13	-44.31	-29.51	-13.81	2.31	18.36	33.85
SO	BUILDHGT	NEW_EG14	15.20	15.20	0.00	0.00	0.00	0.00
SO	BUILDHGT	NEW_EG14	0.00	15.20	15.20	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG14	22.90	22.90	15.20	22.90	22.90	22.90
SO	BUILDHGT	NEW_EG14	22.90	22.90	0.00	0.00	0.00	0.00
SO	BUILDHGT	NEW_EG14	0.00	15.20	15.20	15.20	15.20	15.20
SO	BUILDHGT	NEW_EG14	15.20	15.20	15.20	15.20	15.20	15.20
SO	BUILDWID	NEW_EG14	80.78	67.15	0.00	0.00	0.00	0.00
SO	BUILDWID	NEW_EG14	0.00	72.95	72.17	74.47	80.20	85.56
SO	BUILDWID	NEW_EG14	88.33	88.41	107.79	128.71	130.03	45.66
SO	BUILDWID	NEW_EG14	41.80	53.75	0.00	0.00	0.00	0.00
SO	BUILDWID	NEW_EG14	0.00	72.95	72.17	72.97	84.37	94.75
SO	BUILDWID	NEW_EG14	102.25	106.64	107.79	105.67	100.34	91.96
SO	BUILDLEN	NEW_EG14	72.97	84.37	0.00	0.00	0.00	0.00
SO	BUILDLEN	NEW_EG14	0.00	100.34	91.96	62.71	56.77	51.47
SO	BUILDLEN	NEW_EG14	59.83	66.36	72.61	124.63	111.29	86.02
SO	BUILDLEN	NEW_EG14	80.22	82.60	0.00	0.00	0.00	0.00
SO	BUILDLEN	NEW_EG14	0.00	100.34	91.96	80.78	67.15	55.98
SO	BUILDLEN	NEW_EG14	63.51	69.11	72.61	73.90	72.95	72.17
SO	XBADJ	NEW_EG14	-1.10	-13.01	0.00	0.00	0.00	0.00
SO	XBADJ	NEW_EG14	0.00	-68.33	-71.54	-136.64	-135.40	-131.70
SO	XBADJ	NEW_EG14	-135.86	-135.89	-82.25	-207.16	-205.42	-188.88
SO	XBADJ	NEW_EG14	-188.68	-189.71	0.00	0.00	0.00	0.00
SO	XBADJ	NEW_EG14	0.00	-32.01	-20.42	-8.22	4.24	12.98
SO	XBADJ	NEW_EG14	12.23	11.11	9.65	7.89	5.90	3.73
SO	YBADJ	NEW_EG14	32.18	37.82	0.00	0.00	0.00	0.00
SO	YBADJ	NEW_EG14	0.00	42.37	39.81	41.13	21.15	0.61
SO	YBADJ	NEW_EG14	-19.95	-39.91	-1.96	50.23	21.52	33.03
SO	YBADJ	NEW_EG14	2.59	-23.25	0.00	0.00	0.00	0.00
SO	YBADJ	NEW_EG14	0.00	-42.37	-39.81	-35.39	-29.18	-22.17
SO	YBADJ	NEW_EG14	-14.48	-6.36	1.96	10.22	18.16	25.56
SO	EMISFACT	NEW_EG1	HROFDY	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	6 6
SO	EMISFACT	NEW_EG1	HROFDY	6 6 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	6 6
SO	EMISFACT	NEW_EG2	HROFDY	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	6 6
SO	EMISFACT	NEW_EG2	HROFDY	6 6 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	6 6
SO	EMISFACT	NEW_EG3	HROFDY	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2
SO	EMISFACT	NEW_EG3	HROFDY	2 2 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	6 6
SO	EMISFACT	NEW_EG4	HROFDY	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	6 6
SO	EMISFACT	NEW_EG4	HROFDY	6 6 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	6 6
SO	EMISFACT	NEW_EG5	HROFDY	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	6 6
SO	EMISFACT	NEW_EG5	HROFDY	6 6 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	6 6
SO	EMISFACT	NEW_EG6	HROFDY	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2
SO	EMISFACT	NEW_EG6	HROFDY	2 2 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2
SO	EMISFACT	NEW_EG7	HROFDY	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2
SO	EMISFACT	NEW_EG7	HROFDY	2 2 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2
SO	EMISFACT	NEW_EG8	HROFDY	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2
SO	EMISFACT	NEW_EG8	HROFDY	2 2 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2
SO	EMISFACT	NEW_EG9	HROFDY	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2
SO	EMISFACT	NEW_EG9	HROFDY	2 2 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2
SO	EMISFACT	NEW_EG10	HROFDY	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2

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 SO EMISFACT NEW\_EG14 HROFDY 0  
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 SO CONCUNIT 1.0E+06 GRAMS/SEC MICROGRAMS/M\*\*3  
 SO SRCGROUP NEWEG NEW\_EG1 NEW\_EG2 NEW\_EG3 NEW\_EG4 NEW\_EG5 NEW\_EG6  
 SO SRCGROUP NEWEG NEW\_EG7 NEW\_EG8 NEW\_EG9 NEW\_EG10 NEW\_EG11 NEW\_EG12  
 SO SRCGROUP NEWEG NEW\_EG13 NEW\_EG14  
 SO FINISHED

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ME FINISHED
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OU PLOTFILE PERIOD NEWEG NEWEG`PERIOD.plt 10000
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** It is recommended that the user not edit any data below this line
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\*\* UNITS METER  
\*\* ZONE 10  
\*\* HEMISPHERE N  
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\*\* ORIGINLAT 0  
\*\* PARALLEL1 0  
\*\* PARALLEL2 0  
\*\* AZIMUTH 0  
\*\* SCALEFACT 0  
\*\* FALSEEAST 0  
\*\* FALSENORTH 0

\*\* POSTFMT UNFORM  
\*\* TEMPLATE UserDefined  
\*\* ISCST3EXE ISC3PRIME\_BREEZE\_04269.exe  
\*\* AERMAPEXE AERMAP\_EPA\_11103.EXE

## Appendix C

### **Offsite Diesel Generators Air Dispersion Modeling Files** *[Provided Electronically]*

## C Offsite Diesel Generators Air Dispersion Modeling Files

### C.1 Dispersion Model

File Name	File Description
lsc input file	ISC Input File <sup>17</sup>
lsc output file	ISC Output File
<b>C.1.1 Plot Files</b>	
File Name	File Description
*.plt	Period average plot files for three offsite emergency generators

### C.2 AERMAP Files

File Name	File Description
Aermap input file	AERMAP Input File (all sources, buildings, and receptors)
Aermap output file	AERMAP Output File (all sources, buildings, and receptors)
Aermap receptor file	AERMAP Receptor File, elevations and hill heights for all receptors
Aermap source file	AERMAP Source File, elevations for all sources and buildings

### C.3 BPIP PRIME Files

File Name	File Description
Bpip input file	BPIP PRIME Input File
Bpip output file	BPIP PRIME Output File
Bpip summary file	BPIP PRIME Summary File

<sup>17</sup> The offsite diesel generators ISC input file is also provided as a PDF within Appendix C.

**Offsite Diesel Generators Model Input File**

\*\* BREEZE ISC  
 \*\* Trinity Consultants  
 \*\* VERSION 7.9  
 \*\* PRIME

CO STARTING  
 CO TITLEONE Offsite Generators  
 CO TITLETWO Stanford Redwood City  
 CO MODELOPT DEFAULT CONC URBAN  
 CO RUNORNOT RUN  
 CO AVERTIME PERIOD  
 CO POLLUTID OTHER  
 CO TERRHGTS ELEV  
 CO SAVEFILE TMP.FIL  
 CO FINISHED

SO STARTING  
 SO ELEVUNIT METERS  
 SO LOCATION EG1 POINT 570612.02 4148544.70 5.51  
 \*\* SRCDESCR AT&T  
 SO LOCATION EG2 POINT 570142.45 4149105.38 2.88  
 \*\* SRCDESCR Genentech  
 SO LOCATION EG3 POINT 570667.66 4148919.50 3.47  
 \*\* SRCDESCR City of Redwood City  
 SO SRCPARAM EG1 1 3.66 739.8 45.3 0.183  
 SO SRCPARAM EG2 1 3.66 739.8 45.3 0.183  
 SO SRCPARAM EG3 1 3.66 739.8 45.3 0.183  
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 SO BUILDHGT EG1 5.50 5.50 5.50 10.40 15.50 15.50  
 SO BUILDHGT EG1 15.50 15.50 15.50 10.40 10.40 0.00  
 SO BUILDWID EG1 0.00 0.00 0.00 0.00 66.02 71.45  
 SO BUILDWID EG1 74.72 75.71 0.00 44.60 0.00 0.00  
 SO BUILDWID EG1 58.15 54.06 48.32 48.29 46.80 0.00  
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 SO XBADJ EG1 6.35 0.87 -4.63 17.51 12.87 0.00  
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 SO XBADJ EG1 -94.51 -94.74 -92.09 -64.72 -60.65 0.00  
 SO YBADJ EG1 0.00 0.00 0.00 0.00 -33.88 -31.10  
 SO YBADJ EG1 -27.36 -22.80 0.00 -24.87 0.00 0.00

SO	YBADJ	EG1	5.55	10.12	14.39	21.80	28.56	0.00
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SO	YBADJ	EG1	2.08	-2.51	-7.01	24.87	20.70	8.09
SO	YBADJ	EG1	-5.11	-18.15	-30.64	-21.80	-28.56	0.00
SO	BUILDHGT	EG2	22.90	22.90	22.90	22.90	22.90	21.30
SO	BUILDHGT	EG2	21.30	21.30	21.30	18.30	18.30	7.00
SO	BUILDHGT	EG2	7.00	18.30	18.30	18.30	22.90	21.30
SO	BUILDHGT	EG2	21.30	21.30	21.30	22.90	22.90	21.30
SO	BUILDHGT	EG2	21.30	36.60	36.60	18.30	18.30	22.90
SO	BUILDHGT	EG2	22.90	22.90	22.90	22.90	22.90	22.90
SO	BUILDWID	EG2	62.66	56.13	49.12	49.96	49.28	94.87
SO	BUILDWID	EG2	83.11	68.84	52.47	93.16	92.99	78.67
SO	BUILDWID	EG2	91.79	112.63	121.63	126.94	76.65	125.75
SO	BUILDWID	EG2	121.14	119.24	113.71	49.96	49.28	94.87
SO	BUILDWID	EG2	83.11	54.38	42.03	93.16	92.99	90.83
SO	BUILDWID	EG2	94.12	94.55	92.11	86.86	76.65	70.73
SO	BUILDLEN	EG2	60.73	66.28	70.26	76.33	80.08	116.69
SO	BUILDLEN	EG2	123.49	126.54	125.75	163.39	169.26	114.87
SO	BUILDLEN	EG2	114.82	130.29	128.11	122.04	59.01	52.47
SO	BUILDLEN	EG2	37.17	57.64	76.36	76.33	80.08	116.69
SO	BUILDLEN	EG2	123.49	84.96	84.07	163.39	169.26	59.74
SO	BUILDLEN	EG2	59.98	67.11	73.57	77.79	59.01	60.59
SO	XBADJ	EG2	-117.26	-120.38	-120.29	-120.77	-117.59	16.80
SO	XBADJ	EG2	12.19	7.22	2.02	-3.24	-8.40	2.34
SO	XBADJ	EG2	-2.27	9.73	21.07	31.77	41.51	-61.91
SO	XBADJ	EG2	-67.16	-86.62	-103.44	44.44	37.51	-133.49
SO	XBADJ	EG2	-135.68	-241.79	-241.40	-160.15	-160.86	-168.00
SO	XBADJ	EG2	-171.29	-178.10	-180.86	-178.12	-100.52	-110.57
SO	YBADJ	EG2	22.32	5.93	-11.08	-23.08	-34.37	-5.09
SO	YBADJ	EG2	8.91	22.64	35.68	20.58	44.84	21.09
SO	YBADJ	EG2	30.93	-61.27	-50.01	-37.23	-49.19	64.89
SO	YBADJ	EG2	57.33	51.22	43.55	23.08	34.37	5.09
SO	YBADJ	EG2	-8.91	17.75	-17.13	-20.58	-44.84	54.20
SO	YBADJ	EG2	28.11	1.16	-25.82	-52.01	49.19	36.30
SO	BUILDHGT	EG3	7.00	7.00	7.00	7.00	14.90	14.90
SO	BUILDHGT	EG3	14.90	14.90	14.90	14.90	14.90	14.90
SO	BUILDHGT	EG3	14.90	14.90	14.90	7.00	18.60	18.60
SO	BUILDHGT	EG3	18.60	18.60	7.00	7.00	14.90	14.90
SO	BUILDHGT	EG3	14.90	14.90	14.90	14.90	7.00	14.90
SO	BUILDHGT	EG3	14.90	14.90	14.90	7.00	7.00	7.00
SO	BUILDWID	EG3	23.32	23.01	22.00	20.32	79.23	86.12
SO	BUILDWID	EG3	90.40	91.93	90.66	86.64	92.01	96.20
SO	BUILDWID	EG3	97.48	95.79	91.19	20.07	68.86	58.60
SO	BUILDWID	EG3	46.56	33.11	22.00	20.32	79.23	86.12
SO	BUILDWID	EG3	90.40	91.93	90.66	86.64	22.46	96.20
SO	BUILDWID	EG3	97.48	95.79	91.19	20.07	21.83	22.92
SO	BUILDLEN	EG3	21.02	22.46	23.21	23.25	95.79	91.19
SO	BUILDLEN	EG3	83.82	73.90	61.74	54.19	53.42	58.51
SO	BUILDLEN	EG3	69.93	79.23	86.12	13.16	77.62	82.86
SO	BUILDLEN	EG3	85.59	85.71	23.21	23.25	95.79	91.19
SO	BUILDLEN	EG3	83.82	73.90	61.74	54.19	23.01	58.51
SO	BUILDLEN	EG3	69.93	79.23	86.12	13.16	16.30	18.95
SO	XBADJ	EG3	-0.39	-0.72	-1.03	-1.30	-90.60	-92.71
SO	XBADJ	EG3	-92.00	-88.50	-82.31	-80.10	-83.90	-85.27

SO	XBADJ	EG3	-84.06	-80.28	-74.08	-13.79	-133.06	-141.35
SO	XBADJ	EG3	-145.35	-144.93	-22.18	-21.95	-5.19	1.52
SO	XBADJ	EG3	8.18	14.60	20.57	25.92	-12.81	26.76
SO	XBADJ	EG3	14.12	1.05	-12.05	0.63	0.29	-0.05
SO	YBADJ	EG3	-3.11	-1.30	0.54	2.37	40.67	31.01
SO	YBADJ	EG3	20.42	9.20	-2.30	-13.73	-22.41	-30.16
SO	YBADJ	EG3	-36.99	-42.70	-47.11	7.75	41.22	24.16
SO	YBADJ	EG3	6.37	-11.61	-0.54	-2.37	-40.67	-31.01
SO	YBADJ	EG3	-20.42	-9.20	2.30	13.73	-10.51	30.16
SO	YBADJ	EG3	36.99	42.70	47.11	-7.75	-6.38	-4.82
SO	EMISFACT	EG1	HROFDY	0 0 0 0 0 0 0 2 2 2 2 2 2 2 2 2 2 2				
SO	EMISFACT	EG1	HROFDY	2 2 0 0 0 0 0 0				
SO	EMISFACT	EG2	HROFDY	0 0 0 0 0 0 0 2 2 2 2 2 2 2 2 2 2 2				
SO	EMISFACT	EG2	HROFDY	2 2 0 0 0 0 0 0				
SO	EMISFACT	EG3	HROFDY	0 0 0 0 0 0 0 2 2 2 2 2 2 2 2 2 2 2				
SO	EMISFACT	EG3	HROFDY	2 2 0 0 0 0 0 0				
SO	CONCUNIT	1.0E+06	GRAMS/SEC	MICROGRAMS/M***3				
SO	SRCGROUP	EG1	EG1					
SO	SRCGROUP	EG2	EG2					
SO	SRCGROUP	EG3	EG3					
SO	FINISHED							

RE STARTING  
 RE ELEVUNIT METERS  
 RE DISCCART 570520.0 4148760.0 3.61  
 \*\* RCPDESCR onsite  
 RE DISCCART 570540.0 4148760.0 3.63  
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 \*\* RCPDESCR onsite  
 RE DISCCART 570420.0 4148800.0 3.67  
 \*\* RCPDESCR onsite  
 RE DISCCART 570440.0 4148800.0 3.73  
 \*\* RCPDESCR onsite

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ME ANEMHGHT 10 METERS  
ME SURFDATA 6851 1986  
ME UAIRDATA 6851 1986  
ME FINISHED

OU STARTING

OU PLOTFILE PERIOD EG1 EG1`PERIOD.plt 10000

OU PLOTFILE PERIOD EG2 EG2`PERIOD.plt 10001

OU PLOTFILE PERIOD EG3 EG3`PERIOD.plt 10002

OU FINISHED

\*\* \*\*\*\*\*

\*\* It is recommended that the user not edit any data below this line

\*\* \*\*\*\*\*

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\*\* ORIGINLAT 0  
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\*\* PARALLEL2 0  
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**Appendix D**  
**Offsite Stationary Sources Identified by BAAQMD**

**Appendix D**  
**Offsite Stationary Sources Identified by BAAQMD**  
**Stanford in Redwood City**  
**Redwood City, California**

Distance from Boundary (feet) <sup>1</sup>	Plant Number <sup>2</sup>	Facility Name	Street Address	Method <sup>3</sup>	PM <sub>2.5</sub> Concentration ( $\mu\text{g}/\text{m}^3$ ) <sup>4,5</sup>	Cancer Risk (in a million) <sup>4,6</sup>	Chronic HI <sup>4,7</sup>
50	15539	Genentech Inc., Generator 90a	550 Broadway Street	Modeled	0.03	7.1	0.006
		Genentech Inc., Generator 90b			0.03	7.1	0.006
		Genentech Inc., Generator, 3rd Standby			0.0004	0.1	0.0001
50	17464	City of Redwood City #8511	1091 2nd Ave.	Modeled	0.004	1.0	0.001
100	18462	Stanford Medicine Outpatient Center	430 Broadway, 1st Floor PAV C #110	HRSA	0.01	4.3	0.002
200	19554	Quality Auto Body & Painting	2566 Bay Road	Screening	0	0.3	0.001
400	18549	Smilovitz Professional Services	810 Warrington Ave	Screening	0	0	0.001
125	659	Pentair Thermal Management facility (formerly Tyco)	2501 Bay Road, Site 5	Modeled PM <sub>2.5</sub> , Screening Cancer/Chronic HI	See Figure 5	0	0
675	15101	AT&T Corporation	3175 Spring Street	Modeled	0.004	0.9	0.001
730	15159	Precision Micro Components	2900 Spring Street	Screening	0	1.7	0.001
760	15981	MCI	2700 Spring Street	Screening + Distance Adjustment	0.0005	2.1	0.001
780	7759	Paw Prints Inc	3166 Bay Road	Screening	0	0.3	0.001
875	17482	City of Redwood City	3011 E Bayshore	Screening + Distance Adjustment	0.0002	0.9	0.0004
<b>BAAQMD CEQA Threshold (Single Source)</b>					<b>0.30</b>	<b>10.0</b>	<b>1.0</b>
<b>Over Threshold?</b>					<b>NO, See Figure 5</b>	<b>NO</b>	<b>NO</b>

**Notes:**

1. This distance represents the distance from the project boundary to the location of the stationary source as determined based on mapping the listed address in Google Earth.
2. Plant number represents the ID assigned by BAAQMD.
3. "Modeled" refers to refined air dispersion modeling. "HRSA" represents to refined risk and hazards as determined by BAAQMD and received through a Stationary Source Inquiry Form (SSIF) Request. "Screening" refers to the values provided in the BAAQMD Stationary Source Screening Tool (and confirmed through a SSIF Request). "Distance Adjustment" refers to cases where the BAAQMD Distance Adjustment Multiplier (for diesel generators) is applied, which allows for scaling based on the distance between the project site and the source.
4. PM<sub>2.5</sub> concentrations, cancer risks, and chronic HIs are derived from the corresponding method specified, including the following: modeled, BAAQMD HRSA adjusted risk/PM<sub>2.5</sub> concentration, the screening risk, or the screening risk with distance adjustment multiplier.
5. PM<sub>2.5</sub> concentrations for the Pentair Thermal Management facility vary across the site as determined by dispersion modeling. Predicted concentrations are presented in Figure 5.
6. Cancer risk conservatively represents the lifetime residential excess cancer risk (in a million).
7. Acute HIs for each stationary source within the zone of influence were determined to be less than significant by BAAQMD and are therefore not provided.

**Abbreviations:**

BAAQMD = Bay Area Air Quality Management District

$\mu\text{g}/\text{m}^3$  = microgram per cubic meter

**Sources:**

BAAQMD. 2012. Stationary Source Screening Analysis Tool. May.

## **Appendix E**

### **Screening Traffic Analysis - Highway 101 and Surface Streets**

**Appendix E**  
**Screening Traffic Analysis - Highway 101**  
**Stanford in Redwood City**  
**Redwood City, California**

Type	Scenario	AADT	Particulate Concentration ( $\mu\text{g}/\text{m}^3$ ), Cancer Risk, or Chronic/Acute HI as Distance South of Highway 101 (feet) <sup>1</sup>										
			10	25	50	75	100	200	300	400	500	750	1000
<b>PM<sub>2.5</sub></b>	Near term no project <sup>2</sup>	213,000	1.07	0.90	0.71	0.59	0.51	0.33	0.25	0.20	0.16	0.11	0.08
	Near term project <sup>3</sup>	226,500	1.14	0.95	0.76	0.63	0.54	0.35	0.26	0.21	0.17	0.12	0.09
	Operational increase <sup>4</sup>	13,500	0.07	0.06	0.05	0.04	0.03	0.02	0.02	0.01	0.01	0.01	0.01
<b>Cancer Risk, Daycare<sup>5</sup></b>	Near term no project	213,000	51.47	43.26	34.26	28.46	24.45	15.95	11.90	9.46	7.85	5.46	4.10
	Near term project	226,500	54.74	46.01	36.43	30.27	26.00	16.96	12.66	10.06	8.35	5.81	4.36
	Operational increase	13,500	3.26	2.74	2.17	1.80	1.55	1.01	0.75	0.60	0.50	0.35	0.26
<b>Chronic HI</b>	Near term no project	213,000	0.116	0.096	0.076	0.064	0.054	0.035	0.026	0.021	0.017	0.012	0.008
	Near term project	226,500	0.123	0.103	0.081	0.068	0.057	0.037	0.028	0.023	0.018	0.012	0.009
	Operational increase	13,500	0.007	0.006	0.005	0.004	0.003	0.002	0.002	0.001	0.001	0.001	0.001
<b>Acute HI</b>	Near term no project	213,000	0.085	0.072	0.060	0.053	0.048	0.033	0.026	0.021	0.018	0.013	0.011
	Near term project	226,500	0.090	0.077	0.064	0.056	0.051	0.035	0.028	0.023	0.019	0.014	0.011
	Operational increase	13,500	0.005	0.005	0.004	0.003	0.003	0.002	0.002	0.001	0.001	0.001	0.001

**Notes:**

1. Screening parameters are based on the BAAQMD Highway Screening Analysis Tool for the section of Highway 101 immediately north of the project site. BAAQMD results are based on modeling conducted by BAAQMD for a receptor height of six feet.
2. "Near term no project" represents the estimated impact of average annual traffic. The "no project" scenario scales concentrations presented in the BAAQMD Highway Screening Analysis Tool (relied on 2012 traffic volumes) to traffic in 2013, the most recent year available, as reported by Caltrans.
3. "Near term project" represents the sum of the "no project" traffic and net new traffic associated with the project.
4. Operational increase represents the estimated net trip generation created by the project as presented in the DEIR Table 7.10.
5. Cancer risk represents the excess cancer risk (in a million) for a daycare. This was scaled from the Highway Screening Analysis Tool based on exposure parameters.

**Abbreviations:**

AADT = Annual Average Daily Traffic

BAAQMD = Bay Area Air Quality Management District

DEIR = Draft Environmental Impact Report

$\mu\text{g}/\text{m}^3$  = microgram per cubic meter

**Sources:**

BAAQMD. 2011. Highway Screening Analysis Tool. April.

Caltrans Traffic Data Branch Traffic Counts. <http://traffic-counts.dot.ca.gov/>. Accessed Sep, 2014

**Appendix E**  
**Screening Traffic Analysis - Surface Streets**  
**Stanford in Redwood City**  
**Redwood City, California**

Roadway <sup>1</sup>	Segment	Type	Scenario	Average Daily Traffic <sup>2</sup>	Particulate Concentration ( $\mu\text{g}/\text{m}^3$ ) or Excess Cancer Risk (in a million) as Distance from Roadway (feet) <sup>3,4</sup>					
					10	50	100	200	500	700
Broadway Street	Douglas Ave to Woodside Rd (84)	PM <sub>2.5</sub>	Near-term no project	21,010	0.1879	0.17	0.12	0.062	0.023	0.019
			Near-term project	27,730	0.20	0.17	0.14	0.081	0.031	0.022
			Operational increase	6,720	0.013	0.007	0.020	0.019	0.008	0.003
	Cancer Risk, Daycare <sup>5</sup>		Near-term no project	21,010	2.18	2.12	1.70	0.78	0.43	0.34
			Near-term project	27,730	2.19	2.15	1.83	1.05	0.49	0.37
			Operational increase	6,720	0.02	0.03	0.14	0.26	0.05	0.04
	Douglas Ave to Woodside Rd (84)	PM <sub>2.5</sub>	Near-term no project	6,170	0.064	0.058	0.044	0.005	0.011	0.010
			Near-term project	12,840	0.123	0.110	0.079	0.031	0.016	0.014
			Operational increase	6,670	0.059	0.052	0.035	0.026	0.005	0.004
Bay Road	Cancer Risk, Daycare <sup>5</sup>		Near-term no project	6,170	0.85	0.71	0.50	0.30	0.16	0.13
			Near-term project	12,840	1.49	1.39	1.07	0.52	0.29	0.23
			Operational increase	6,670	0.64	0.68	0.57	0.21	0.13	0.10
	2nd Ave to Florence St	PM <sub>2.5</sub>	Near-term no project	8,830	0.088	0.079	0.058	0.015	0.013	0.011
			Near-term project	10,570	0.103	0.092	0.067	0.022	0.014	0.012
			Operational increase	1,740	0.015	0.014	0.009	0.007	0.001	0.001
	Cancer Risk, Daycare <sup>5</sup>		Near-term no project	8,830	1.11	0.98	0.72	0.39	0.21	0.17
			Near-term project	10,570	1.27	1.16	0.87	0.44	0.25	0.19
			Operational increase	1,740	0.17	0.18	0.15	0.06	0.03	0.03

**Notes:**

1. PM<sub>2.5</sub> concentrations and excess cancer risks for Broadway St. and Bay Road are interpolated or extrapolated from the BAAQMD Roadway Screening Analysis Tables.
2. Average daily trips adopted from chapter 7 of the ADEIR for the Stanford in Redwood City Precise Plan (Table 7.12). The available data in the ADEIR traffic analysis does not take into account the impact of the Project TDM on average daily trips on surface streets. Consequently, this analysis overestimates PM<sub>2.5</sub> impacts and excess cancer risks from surface streets.
3. Operational increase represents the impact of the project development or the difference between the Near term project and Near term no project scenarios.
4. The maximum acute and chronic hazard index for the distances and AADT shown in the table will be less than 0.02, so are not calculated.
5. Cancer risk represents the excess cancer risk (in a million) for a daycare. This was scaled from the Roadway Screening Analysis Tables based on exposure parameters.

**Abbreviations:**

ADEIR = Administrative Draft Environmental Impact Report  
BAAQMD = Bay Area Air Quality Management District  
TDM = Transportation Demand Management  
 $\mu\text{g}/\text{m}^3$  = microgram per cubic meter

**Sources:**

ADEIR for the Stanford in Redwood City Precise Plan. Chapter 7.  
BAAQMD. 2011. Roadway Screening Analysis Tables. December.

## **Appendix F**

### **Proposed Daycare Location, Nearby Generator Operational Limitations**

**Appendix F**  
**Proposed Daycare Location, Nearby Generator Operational Limitations**  
**Stanford in Redwood City**  
**Redwood City, California**

Receptors at Building A1	UTM East (m)	UTM North (m)	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )				Cancer Risk (in a million), Daycare			
			Individual		Cumulative		Individual		Cumulative	
			Run 1	Run 2	Run 1	Run 2	Run 1	Run 2	Run 1	Run 2
R006	570,480	4,148,780	0.009	0.009	0.4	0.4	2.1	2.2	20	20.1
R007	570,500	4,148,780	0.008	0.009	0.39	0.39	2	2.1	19.8	19.9
R017	570,480	4,148,800	0.008	0.008	0.39	0.39	1.9	2	19.7	19.7
R018	570,500	4,148,800	0.008	0.008	0.38	0.38	1.9	1.9	19.5	19.6
<b>BAAQMD CEQA Threshold</b>			<b>0.3</b>		<b>0.8</b>		<b>10.0</b>		<b>100</b>	
<b>Over Threshold?</b>			NO	NO	NO	NO	NO	NO	NO	NO

**Notes:**

Run 1 = operating from 7am-7pm

Run 2 = generators within 500 feet of the proposed daycare, operating 3pm-7pm

**Abbreviations:**

BAAQMD = Bay Area Air Quality Management District

CEQA = California Environmental Quality Act

$\mu\text{g}/\text{m}^3$  = microgram per cubic meter.

**Sources:**

BAAQMD. 2011. California Environmental Quality Act Air Quality Guidelines. May.