

**DOCKETED**

<b>Docket Number:</b>	19-SPPE-05
<b>Project Title:</b>	Mission College Data Center SPPE
<b>TN #:</b>	230844
<b>Document Title:</b>	MCBGF SPPE Application Appendix C Part II - Prior MND
<b>Description:</b>	N/A
<b>Filer:</b>	Scott Galati
<b>Organization:</b>	DayZenLLC
<b>Submitter Role:</b>	Applicant Representative
<b>Submission Date:</b>	11/25/2019 12:57:25 PM
<b>Docketed Date:</b>	11/25/2019

**Appendix A**  
**Air Quality Assessment**

***ALIGNED DATA CENTER  
2305 MISSION COLLEGE BOULEVARD  
SANTA CLARA, CALIFORNIA***

***AIR QUALITY ASSESSMENT***

April 20, 2017  
Revised May 22, 2017

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Project 17-069

## **INTRODUCTION**

This report provides the results of an assessment of potential air quality impacts from the proposed Aligned Data Center located at 2305 Mission College Boulevard in the City of Santa Clara. The primary source of emissions from the project would be from operation of generator engines during testing and maintenance of proposed project emergency generators. This report presents the results of an air quality assessment. This analysis was conducted in accordance with CEQA Air Quality Guidelines published by the Bay Area Air Quality Management District

### ***Project Description***

The 15.7-acre project site, located at 2305 Mission College Boulevard, is currently developed with a two-story 358,000 square foot (sf) office building and a paved parking lot. The project proposes to demolish the existing building and improvements on the site to construct a two-story 495,660 sf data center building and a new 90 megavolt amps (MVA) electrical substation. The locations of the new data center and substation are shown in Figure 1.

The new data center building would house computer servers and supporting equipment for private clients, as well as associated office uses, in a secure and environmentally controlled structure, and would be designed to provide 60 megawatts (MWe) of information technology (IT) power. Standby backup emergency electrical generators would be installed to provide for an uninterrupted power supply. A total of one hundred twenty (120) diesel-fueled engine generators would be located within a generator yard west of the data center building, adjacent to San Tomas Aquino Creek. The electric generating capacity of each generator would be 625-kilowatts (kWe). The generators would provide a total of 75 MWe of backup power generation capacity. Diesel fuel for the generators will be stored in twenty-four (24) 10,000-gallon above ground tanks located beneath each block of five generators. Electrical switchgear and backup battery equipment would be located in a separate equipment yard in the northern portion of the project site near Agnew Road, and all of the cooling equipment would be located on the data center roof.

### ***Air Quality Analysis***

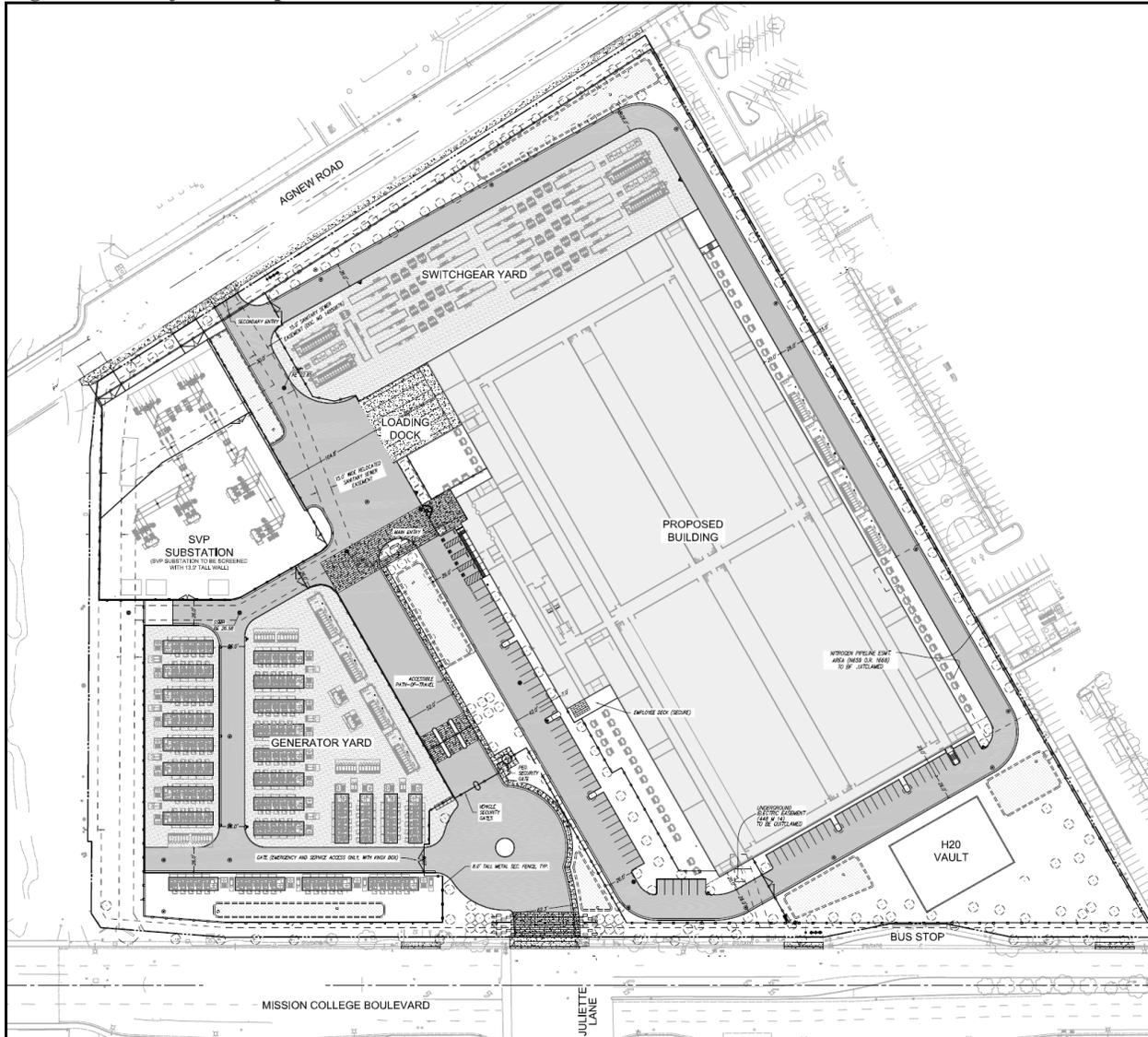
The project site is in a mixed-use residential/office/commercial area of the City of Santa Clara. The proposed project components, data center and new substation, would be located near existing residences (sensitive receptors) that could be affected by construction and operation of the proposed project.

The primary source of air pollutant emissions from the data centers would be from operation of the generator engines during testing and maintenance of emergency generators. During normal facility operation these engines will not be operated other than for periodic testing and maintenance requirements. The 625 kWe generators would use diesel-fueled engines that meet U.S. EPA Tier 4 emission standards, the most practical level of emission controls for this type of diesel generator engine. The engines would be fueled using ultra low sulfur diesel fuel with a maximum sulfur content of 15 parts per million (ppm), which minimizes both particulate matter and sulfur dioxide (SO<sub>2</sub>) emissions.

This analysis evaluates the potential air quality impacts from construction and operation of the proposed project that includes construction of the data center building and substation, and installation and operation of the new backup emergency generators for the new data. The proposed project would establish new sources of particulate matter and gaseous emissions. The air quality impacts were evaluated in terms of construction and operational impacts to air quality with the primary focus on evaluating the effects of future project-related emissions on regional air quality and on local sensitive receptors. This analysis was

conducted following guidance provided by the Bay Area Air Quality Management District (BAAQMD).<sup>1</sup> Note that an Authority to Construct and Permit to Operate permit would be required from the BAAQMD prior to construction and operation of the proposed project diesel engines, which may require further analysis of air quality impacts.

**Figure 1 – Project Components**



<sup>1</sup> Bay Area Air Quality Management District, 2011. BAAQMD CEQA Air Quality Guidelines. May.

## **SETTING**

The project is located in Santa Clara County, which is in the San Francisco Bay Area Air Basin. Ambient air quality standards have been established at both the State and federal level. The Bay Area meets all ambient air quality standards with the exception of ground-level ozone, respirable particulate matter (PM<sub>10</sub>) and fine particulate matter (PM<sub>2.5</sub>).

High ozone levels are caused by the cumulative emissions of reactive organic gases (ROG) and nitrogen oxides (NO<sub>x</sub>). These precursor pollutants react under certain meteorological conditions to form high ozone levels. Controlling the emissions of these precursor pollutants is the focus of the Bay Area's attempts to reduce ozone levels. The highest ozone levels in the Bay Area occur in the eastern and southern inland valleys that are downwind of air pollutant sources. High ozone levels aggravate respiratory and cardiovascular diseases, reduced lung function, and increase coughing and chest discomfort.

Particulate matter is another problematic air pollutant of the Bay Area. Particulate matter is assessed and measured in terms of respirable particulate matter or particles that have a diameter of 10 micrometers or less (PM<sub>10</sub>) and fine particulate matter where particles have a diameter of 2.5 micrometers or less (PM<sub>2.5</sub>). Elevated concentrations of PM<sub>10</sub> and PM<sub>2.5</sub> are the result of both region-wide (or cumulative) emissions and localized emissions. High particulate matter levels aggravate respiratory and cardiovascular diseases, reduce lung function, increase mortality (e.g., lung cancer), and result in reduced lung function growth in children.

Toxic air contaminants (TAC) are a broad class of compounds known to cause morbidity or mortality (usually because they cause cancer) and include, but are not limited to, the criteria air pollutants listed above. TACs are found in ambient air, especially in urban areas, and are caused by industry, agriculture, fuel combustion, and commercial operations (e.g., dry cleaners). TACs are typically found in low concentrations, even near their source (e.g., diesel particulate matter near a freeway). Because chronic exposure can result in adverse health effects, TACs are regulated at the regional, state, and Federal level.

Diesel exhaust is the predominant TAC in urban air and is estimated to represent about three-quarters of the cancer risk from TACs (based on the Bay Area average). According to the California Air Resources Board (CARB), diesel exhaust is a complex mixture of gases, vapors and fine particles. This complexity makes the evaluation of health effects of diesel exhaust a complex scientific issue. Some of the chemicals in diesel exhaust, such as benzene and formaldehyde, have been previously identified as TACs by the CARB, and are listed as carcinogens either under the state's Proposition 65 or under the Federal Hazardous Air Pollutants programs.

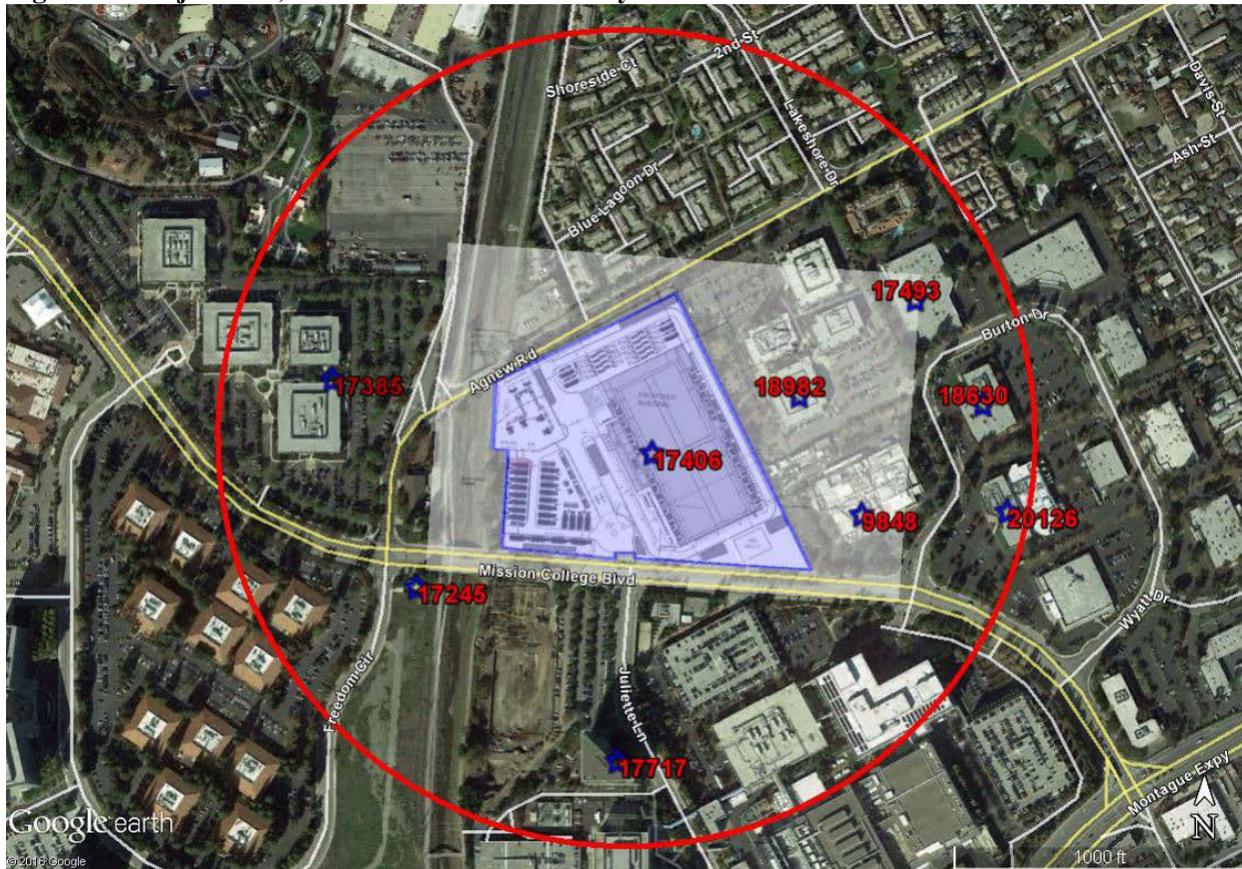
CARB and the U.S. EPA have adopted and implemented a number of regulations and emission standards for stationary and mobile sources to reduce emissions of diesel particulate matter (DPM). These include emission standards for off-road diesel engines, including diesel generators, and regulatory programs that affect medium and heavy duty diesel trucks that represent the bulk of DPM emissions from California highways.

### **Sensitive Receptors**

There are groups of people more affected by air pollution than others. CARB has identified the following persons who are most likely to be affected by air pollution: infants, children under 16, the elderly over 65, athletes, and people with cardiovascular and chronic respiratory diseases. These groups are classified as sensitive receptors. Locations that may contain a high concentration of these sensitive population groups include residential areas, hospitals, daycare facilities, elder care facilities, elementary schools, and parks. The closest sensitive receptors to the proposed data center project site are existing residences along

Agnew Road across from the site. Figure 2 shows the project setting, a 1,000-foot influence area, and the closest sensitive receptors.

**Figure 1– Project Site, Influence Area and Nearby Air Pollutant Sources**



## **BAAQMD**

The Bay Area Air Quality Management District (BAAQMD) is the regional agency tasked with managing air quality in the region. At the State level, the California Air Resources Board (a part of the California Environmental Protection Agency) oversees regional air district activities and regulates air quality at the State level. The BAAQMD has published CEQA Air Quality Guidelines that are used in this assessment to evaluate air quality impacts of projects.<sup>2</sup>

## **SIGNIFICANCE THRESHOLDS**

In June 2010, BAAQMD adopted thresholds of significance to assist in the review of projects under CEQA. These Thresholds were designed to establish the level at which BAAQMD believed air pollution emissions would cause significant environmental impacts under CEQA and were posted on BAAQMD’s website and included in the Air District’s updated CEQA Guidelines (updated May 2011). The significance thresholds identified by BAAQMD and used in this analysis are summarized in Table 1.

BAAQMD’s adoption of significance thresholds contained in the 2011 CEQA Air Quality Guidelines was called into question by an order issued March 5, 2012, in California Building Industry Association

<sup>2</sup> Bay Area Air Quality Management District. 2011. BAAQMD CEQA Air Quality Guidelines. May.

(CBIA) v. BAAQMD (Alameda Superior Court Case No. RGI0548693). The order requires BAAQMD to set aside its approval of the thresholds until it has conducted environmental review under CEQA. The ruling made in the case concerned the environmental impacts of adopting the thresholds and how the thresholds would indirectly affect land use development patterns. In August 2013, the Appellate Court struck down the lower court's order to set aside the thresholds. However, the California Supreme Court accepted a portion of CBIA's petition to review the appellate court's decision to uphold BAAQMD's adoption of the thresholds. The specific portion of the argument considered was whether CEQA requires consideration of the effects of the environment on a project (as contrasted to the effects of a proposed project on the environment). On December 17, 2015, the California Supreme Court ruled that CEQA generally does not require an analysis of the effects of existing environmental conditions (e.g., air quality) on a project unless the project would exacerbate those conditions somehow through its construction and/or operation. The project does not include sensitive receptors.

**Table 1. Air Quality Significance Thresholds**

Pollutant	Construction Thresholds	Operational Thresholds	
	Average Daily Emissions (lbs./day)	Average Daily Emissions (lbs./day)	Annual Average Emissions (tons/year)
<b>Criteria Air Pollutants</b>			
ROG	54	54	10
NO <sub>x</sub>	54	54	10
PM <sub>10</sub>	82	82	15
PM <sub>2.5</sub>	54	54	10
CO	Not Applicable	9.0 ppm (8-hr) or 20.0 ppm (1-hr)	
Fugitive Dust	Construction Dust Ordinance or other Best Management Practices	Not Applicable	
<b>Single-Source Contribution - Health Risks and Hazards for Sensitive Receptors</b>			
Excess Cancer Risk	> 10.0 per one million		
Hazard Index	> 1.0		
Annual Average PM <sub>2.5</sub>	> 0.3 µg/m <sup>3</sup>		
<b>Cumulative Health Risks and Hazards for Sensitive Receptors</b>			
Excess Cancer Risk	> 100.0 per one million		
Chronic Hazard Index	> 10.0		
Annual Average PM <sub>2.5</sub>	> 0.8 µg/m <sup>3</sup>		
Note: ROG = reactive organic gases, NO <sub>x</sub> = nitrogen oxides, PM <sub>10</sub> = coarse particulate matter or particulates with an aerodynamic diameter of 10 micrometers (µm) or less, PM <sub>2.5</sub> = fine particulate matter or particulates with an aerodynamic diameter of 2.5µm or less.			

## IMPACTS AND MITIGATION

**Impact: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or State ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?**

The Bay Area is considered a nonattainment area for ground-level ozone and PM<sub>2.5</sub> under both the federal Clean Air Act and the California Clean Air Act. The area is also considered non-attainment for PM<sub>10</sub> under the California Clean Air Act, but not the federal Act. The area has attained both State and federal ambient air quality standards for carbon monoxide. As part of an effort to attain and maintain ambient air quality standards for ozone, PM<sub>10</sub> and PM<sub>2.5</sub>, BAAQMD has established thresholds of significance for air pollutants. These thresholds are for ozone precursor pollutants (ROG and NO<sub>x</sub>), PM<sub>10</sub> and PM<sub>2.5</sub> and apply to both construction period and operational period impacts.

Both construction and operational emissions were computed using the California Emissions Estimator Model, Version 2016.3.1 (CalEEMod). In addition, emissions from routine testing and maintenance of the standby emergency generators were computed using emissions data published by the manufacturer and assuming proposed testing plans and maximum allowable testing conditions.

### Construction Period Emissions

The overall data center project construction site is 15 acres and would involve several construction phases: demolition, site preparation, grading/excavation, trenching, exterior building construction, interior building construction and paving. Construction information was provided that includes the schedule of various construction phases, equipment usage assumptions for each phase, and the volume of material to be imported or exported.

The California Emissions Estimator Model, Version 2013.2.2 (CalEEMod) was used to compute construction and operational (except generator testing) emissions for the project. The construction schedule and projected equipment usage were provided to input to the model. Inputs to the CalEEMod model are summarized as follows:

#### Land Uses

“General Light Industry” 400.0 thousand square feet on 15.00 acres

#### Demolition

A 100-day demolition phase was assumed that included the assumed off-haul of building materials for 370,000 square feet of buildings and 9,500 tons of asphalt. The modeling assumed 1,920 haul truck trips associated with this activity.

#### Site Preparation and Grading

The site preparation phase was anticipated to last 80 days and the Grading and Excavation phase would be 20 days. The modeling accounted for soil the export of 22,410 cubic yards and import of 46,000 cubic yards of soil.

#### Building Construction

Building construction was modeled as two phases: exterior building (using the Building Construction phase) and interior construction (using the Architectural Coating phase). Worker and vendor trips were based on model defaults. Although likely accounted in the model defaults for vendor trips, cement truck trips associated with an estimated 6,500 truck deliveries were added to the modeling. Cement truck trips were entered as haul truck trips set to the vendor trip distance.

### Paving

The paving phase that included import of 2,400 cubic yards of paving material, modeled as haul truck trips using the model default vendor distance.

Based on a construction start date of September 2017 and an anticipated completion date of December 2018, CalEEMod computes 336 construction days. Total construction emissions from full build out of the project shown in Table 2. Average daily emissions are computed assuming that construction occurs over the 336 construction days. Construction period NOx emissions would be significant, as they would exceed the threshold of 54 pounds per average day. The emissions of other pollutants would not exceed the thresholds. *Mitigation Measure AQ-1* would reduce NOx emissions. *Attachment 1* is the CalEEMod output file that is the basis of these calculations, along with the construction activity assumptions.

**Table 2. Construction Period Emissions – Aligned Data Center Project**

Description	ROG Emissions (tons)	NOx Emissions (tons)	PM10 Exhaust Emissions (tons)	PM2.5 Exhaust Emissions (tons)
Substation and Feeders (2018-19)	3.23 tons	12.59 tons	0.49 tons	0.46 tons
<i>Daily Project Emissions</i>	<i>19 lbs/day</i>	<i>75 lbs/day</i>	<i>3 lbs/day</i>	<i>3 lbs/day</i>
<i>BAAQMD Thresholds</i>	<i>54lbs/day</i>	<i>54lbs/day</i>	<i>82lbs/day</i>	<i>54lbs/day</i>
<b><i>Significant?</i></b>	<b><i>No</i></b>	<b><i>Yes</i></b>	<b><i>No</i></b>	<b><i>No</i></b>

Note: Average daily emissions were computed by dividing total construction emissions by the number of workdays.

### Construction Fugitive Dust

During grading and construction activities, dust would be generated. Most of the dust would result during grading activities. The amount of dust generated would be highly variable and is dependent on the size of the area disturbed at any given time, amount of activity, soil conditions and meteorological conditions. Nearby areas could be adversely affected by dust generated during construction activities. Nearby land uses are primarily commercial and office uses that are separated by roadways or open areas. The BAAQMD CEQA Air Quality Guidelines consider these impacts to be less than significant if best management practices are employed to reduce these emissions. This impact is considered less-than-significant with implementation of *Mitigation Measures AQ-1*.

***Mitigation Measure AQ-1:*** Include construction equipment exhaust controls and measures to control dust and exhaust during construction.

During any construction period ground disturbance, the applicant shall ensure that the project contractor implement measures to control dust and exhaust. Implementation of the measures recommended by BAAQMD and listed below would reduce the air quality impacts associated with grading and new construction to a less than significant level. The contractor shall implement the following best management practices that are required of all projects:

#### Basic Measures

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
2. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.

3. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
4. All vehicle speeds on unpaved roads shall be limited to 15 miles per hour (mph).
5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.
6. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.
7. All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.
8. Post a publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

#### Applicable Enhanced Control Measures

9. All exposed surfaces shall be watered at a frequency adequate to maintain minimum soil moisture of 12 percent. Moisture content can be verified by lab samples or moisture probe.
10. All excavation, grading, and/or demolition activities shall be suspended when average wind speeds exceed 20 mph and visible dust extends beyond site boundaries.
11. Wind breaks (e.g., trees, fences) shall be installed on the windward side(s) of actively disturbed areas of construction adjacent to sensitive receptors. Wind breaks should have at maximum 50 percent air porosity.
12. Vegetative ground cover (e.g., fast-germinating native grass seed) shall be planted in disturbed areas as soon as possible and watered appropriately until vegetation is established.
13. The simultaneous occurrence of excavation, grading, and ground-disturbing construction activities on the same area at any one time shall be limited. Activities shall be phased to reduce the amount of disturbed surfaces at any one time.
14. Avoid tracking of visible soil material on to public roadways by employing the following measures if necessary: (1) Site accesses to a distance of 100 feet from public paved roads shall be treated with a 6 to 12 inch compacted layer of wood chips, mulch, or gravel and (2) washing truck tires and construction equipment of prior to leaving the site.
15. Sandbags or other erosion control measures shall be installed to prevent silt runoff to public roadways from sites with a slope greater than one percent.
16. Minimizing the idling time of diesel powered construction equipment to two minutes.

## Exhaust Control Measures

17. The project shall develop a plan demonstrating that the off-road equipment (more than 25 horsepower) to be used in the construction project (i.e., owned, leased, and subcontractor vehicles) would achieve a project wide fleet-average 28 percent NOX reduction and 70 percent PM reduction compared to the CalEEMod modeled average used in this report. Acceptable options for reducing emissions include the use of late model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, add-on devices such as particulate filters, and/or other options as such become available. The following are feasible methods:
  - i. All construction equipment larger than 25 horsepower used at the site for more than two continuous days or 20 hours total shall meet U.S. EPA emission standards for Tier 3 engines and include particulate matter emissions control equivalent to CARB Level 2 verifiable diesel emission control devices that altogether achieve a 85percent reduction in particulate matter exhaust; alternatively (or in combination)
  - ii. Use of diesel construction equipment that meets U.S. EPA Tier 4 interim emission standards.
18. Provide line power to the site during the early phases of construction to minimize the use of diesel powered stationary equipment, such as generators.

Effectiveness of Mitigation: The effects of Mitigation Measure AQ-1 were modeled using CalEEMod and found to reduce overall NOx emissions by 32 percent to 8.59 tons or 51 pounds per average day. Overall exhaust particulate matter emissions were reduced by 68 percent, which includes off-site truck emissions. Emissions from on-site off-road equipment operation and on- or near-site truck travel would be reduced by over 70 percent. Measures to control fugitive dust would exceed the basic control measures recommended by BAAQMD in their CEQA Air Quality Guidelines.

## **Aligned Data Center Operational Project Emissions**

The primary emission sources associated with operation of the proposed project would include testing or maintenance of the 120 diesel-fueled 625-kWe emergency backup generators. There would be minor emissions from traffic and area sources associated with operation of the data center facilities. Additionally, there would be minor evaporative emission of ROG from the twenty-four 10,000 gallon aboveground diesel storage tanks situated beneath each block of five generators. Emissions from these sources are described below.

Note that emissions from the existing site were not evaluated to predict the net increase in emissions caused

## Area and Mobile Source Emissions

The area and mobile emissions associated with the project were computed using the CalEEMod model. The project would generate about 55 daily trips, assumed to occur 7 days per week and 365 days per year. There would also be area source emissions associated with normal facility operation and maintenance. Project related mobile source and area source emissions were modeled using CalEEMod with default conditions for an industrial park type project along with project vehicle traffic. CalEEMod predicted annual emissions that were converted to daily emissions based on 365 days of operation. The CalEEMod output is included as *Attachment 1*.

### Emergency Generator Emissions

The proposed project would install 120 diesel-fueled 625-kWe emergency generators equipped with Volvo Penta TWD1673GE diesel-fueled engines. These engines would not be operated other than for periodic testing and maintenance requirements during normal facility operation. The generator engines would be fueled using ultra low sulfur diesel fuel with a maximum sulfur content of 15 ppm. The diesel engines would meet U.S. EPA Tier 4 emission standards that apply to NOx and particulate matter emissions. These generators would be located within a generator yard west of the data center building, adjacent to San Tomas Aquino Creek. The generator equipment and operating specifications for the proposed generators are provided in Table 3. *Attachment 2* includes the generator information used to make these calculations.

**Table 3. Engine Generator Systems Equipment and Operating Information**

<b>Description</b>	<b>Value</b>
<b>625 kWe Volvo Penta Generator Sets</b>	<b>Volvo Penta TWD1673GE diesel engines</b>
Generator Output (at 100% load)	625 kWe
Engine Output (Standby) at 100% Load	685 kWm (932 hp)
Diesel Fuel Consumption at 100% Load	41 gallons/hour
Diesel Fuel Sulfur Content	0.0015% (15 ppm)
Exhaust Flow Rate at 100% Load	4,866 cubic feet/minute
Stack Height (above ground level)	17.5 feet
Stack Inside Diameter	8 inches
Exhaust gas Temperature at 100% Load	903 °F

The operation of these generators is limited to 50 hours per year of non-emergency use (i.e. testing and maintenance) by the State's Air Toxic Control Measure for Stationary Compression Ignition Engines.<sup>3</sup> The proposed testing schedule for the project is that the 120 emergency generators would be tested simultaneously one day per month at full load to make sure that they are ready to come online when needed in the event of a power failure. The testing is would take place between the hours of 7:00 AM to 10:00 PM. Generator engine operation under normal conditions is expected to be about 12 hours per year, per engine. However, engine operation may occur more frequently due to increased testing or maintenance requirements. For purposes of estimating emissions and potential air quality impacts from the engines, it was assumed that each engine would be operated at full load (100% engine load) for 50 hours per year (maximum operation hours allowed by the State's Air Toxic Control Measure and BAAQMD for testing and maintenance). This analysis assumed a reasonable worst-case condition of all 120 generators being tested for one hour during a single day. These emissions are shown in Table 4.

### Diesel Fuel Storage Emissions

Diesel fuel for each emergency generator would be stored in twenty-four 10,000 gallon sub-base tanks of the generator housing units (five generators per housing unit). Diesel fuel has a very low volatility and emissions of ROG from fuel storage are expected to be negligible.

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<sup>3</sup> Section 93115, title 17, California Code of Regulations

**Table 4. Data Center Engine Testing: 50 Hours per Year per Engine - Daily and Annual Emissions from Emergency Generators**

Pollutant	Daily Emissions <sup>a</sup> All 120 Units (lb/day)	Total Annual Emissions <sup>b</sup> : 50 Hours Operation All 120 Units	
		(lb/year)	(ton/year)
NO <sub>x</sub>	57.0	2,852	1.4
ROG	0.6	27	0.0
CO	16.6	828	0.4
PM <sub>10</sub>	3.3	166	0.08
PM <sub>2.5</sub>	2.5	124	0.06
SO <sub>2</sub>	1.0	52	0.03

<sup>a</sup> Assumes operation of all engines at 100% engine load in a single day.

<sup>b</sup> Assumes operation at 100% engine load for 50 hours/year per engine.

Total Project Emissions

Total daily and annual emissions from the emergency generators, mobile and area sources are summarized in Table 5. Without any limitations on engine operation for maintenance and testing purposes, total increased daily emissions from operation of the project are estimated to be above the average daily emission significance thresholds established by the BAAQMD for NO<sub>x</sub>. This would be considered a *significant impact*

**Table 5. Summary of Operational Average Daily Emissions in tons and (lb/day)**

Emission Source	Nitrogen Oxides (NO <sub>x</sub> )	Reactive Organic Gases (ROG)	Respirable Particulates (PM <sub>10</sub> )	Fine Particulates (PM <sub>2.5</sub> )
<i>BAAQMD Threshold</i>	10 (54)	10 (54)	15 (82)	10 (54)
<b>Maximum Emissions Scenario (50 hrs/engine per year at full load)</b>				
Emergency Generators	1.4 (57.0)	<0.1 (.6)	0.1 (3.3)	0.1 (2.5)
Mobile & Area Sources	0.6 (3.3)	1.8 (10.1)	0.1 (0.6)	0.1 (0.3)
<b>Total</b>	<b>2.0 (60.3)</b>	<b>1.9 (10.7)</b>	<b>0.2 (3.9)</b>	<b>0.2 (2.8)</b>
<b>Significant?</b>	<b>Yes</b>	No	No	No
<b>Reduced Emissions Scenario</b>				
Emergency Generators	1.4 (48.0)	<0.1 (0.5)	<0.1 (2.8)	<0.1 (2.1)
Mobile & Area Sources	0.6 (3.3)	1.8 (10.1)	0.1 (0.6)	0.1 (0.3)
<b>Total</b>	<b>2.0 (51.3)</b>	<b>1.8 (10.6)</b>	<b>0.1 (3.4)</b>	<b>0.1 (2.4)</b>
<b>Significant?</b>	No	No	No	No

**Mitigation Measure AQ-2:** Include recommended conditions of approval that limit the number of hours generators can be operated for maintenance and testing purposes as follows:

1. Generator operation for maintenance and testing purposes shall be limited so that the combined operation of all engines does not exceed 100 hours per day in total; and
2. Any changes in equipment specifications that result in different engines or emission control devices or increase the number of diesel engines shall be evaluated by the City to ensure emissions do not increase.

Effectiveness of Mitigation: Without limitations on the number of hours, operation of the project could cause daily emissions of NO<sub>x</sub> to exceed significance thresholds for daily emissions. Limiting generator operations for maintenance and testing purposes for all engines to a total of 100 hours per day would result in average daily total project NO<sub>x</sub> emissions of 51 pounds per day, which would not exceed the significance threshold of 54 pounds per day.

**Impact: Violate any air quality standard or contribute substantially to an existing or projected air quality violation?**

Air Quality Standards for Regional Air Pollutants

Due to the limited number of hours that each emergency generator would be operated for testing and maintenance purposes emissions from these units are relatively low. Emissions of nonattainment pollutants and their precursors that affect air quality standards at the regional level were evaluated under Impact 2. Although the project could cause a cumulatively considerable net increase in ozone precursor emissions, they are not expected to cause or substantially contribute to a violation of an ozone ambient air quality standard.

Air Quality Standards for Local Air Pollutants (Carbon Monoxide from Project Traffic)

Increased intersection congestion can lead to increased localized CO concentrations (hot spots) in the vicinity of the intersection. Typically there needs to be a substantial increase in the number of vehicles accessing an intersection and a decrease in the intersection level of service (LOS) in order for there to be elevated CO concentrations of concern. Since the number of vehicles associated with the project would be minimal, the proposed project would not cause or contribute to a violation of an ambient air quality standard and the impact is considered *less than significant*

**Impact: Expose sensitive receptors to substantial pollutant concentrations?**

The proposed data center project would be a source of air pollutant emissions during project construction and then from operation of emergency generators for testing and maintenance purposes. These generators are diesel-fueled, so they emit DPM, which is a toxic air contaminant (TAC). The generators are also a source of PM<sub>2.5</sub>, which has known adverse health effects. Construction of the proposed data center and Substation would be a source of TAC and PM<sub>2.5</sub> emissions. As discussed above, operation of the substation would generate negligible emissions, including TACs and PM<sub>2.5</sub>.

The BAAQMD CEQA Air Quality Guidelines considers exposure of sensitive receptors to air pollutant levels that result in an unacceptable cancer risk or hazard to be significant. For cancer risk the BAAQMD considers an increased risk of contracting cancer that is greater than 10.0 in one million to be significant for a single source. For cumulative exposure to TACs from existing sources affecting a sensitive receptor, in addition to a proposed new source, the BAAQMD considers an increased risk of contracting cancer that is greater than 100 in one million to be significant. The BAAQMD CEQA Guidelines also consider exposure to annual PM<sub>2.5</sub> concentrations that exceed 0.3 micrograms per cubic meter (µg/m<sup>3</sup>) from a single source to be significant and an annual PM<sub>2.5</sub> concentration that exceed 0.8 µg/m<sup>3</sup> from cumulative sources to be significant.

The primary community risk impact issues associated with construction emissions and operation of the data center emergency generators are cancer risk and exposure to PM<sub>2.5</sub>. Diesel exhaust from construction activities and operation of emergency generators pose both a potential health and nuisance impact to nearby receptors. Community health risk impacts to sensitive receptors from construction and

operational activities were evaluated by predicting potential DPM and PM<sub>2.5</sub> exposures to off-site sensitive receptors and then calculating increased lifetime cancer risks and non-cancer health effects. DPM and PM<sub>2.5</sub> emissions from construction and for operation of the data center emergency generators were calculated and dispersion modeling conducted to predict the off-site concentrations so that lifetime cancer risks and non-cancer health effects could be evaluated. *Attachment 3* includes a description of how community health impacts, including cancer risk are computed based on BAAQMD recommended methods. Health impacts from construction and operation of the proposed data center are detailed below.

### Community Risk – Aligned Data Center Health Risk and Hazards

#### *Construction Health Impacts*

Construction of the data center would expose sensitive receptors in the project area to DPM from construction related activities. Sensitive receptors in the data center area are the existing nearby off-site residences. The closest existing residences to the data center site are located north of the site across Agnew Road. A health risk assessment of the data center construction activities was conducted that evaluated potential health effects at nearby sensitive receptors from construction DPM emissions. A dispersion model was used to predict the off-site concentrations resulting from project construction so that lifetime cancer risks could be predicted. Figure 3 shows the data center project site and sensitive receptor locations (residences) used in the air quality dispersion modeling analysis where potential health impacts were evaluated.

Construction period emissions were computed using CalEEMod along with projected construction activity, as previously described. The number and types of construction equipment and diesel vehicles, along with the anticipated length of their use for different phases of construction, were based on a site-specific construction schedule. Construction of the project is expected to occur over an approximate 14-month period starting in 2017. The CalEEMod model provided annual PM<sub>2.5</sub> exhaust emissions (assumed to be DPM) for each year of construction for the off road construction equipment used and for the exhaust emissions from on-road vehicles (haul trucks, vendor trucks, and worker vehicles). The total DPM emissions over the entire construction period were calculated as 0.469 tons (937 pounds). A trip length of one-half mile was used to represent vehicle travel while at or near the construction site. For modeling purposes, it was assumed that these emissions from on-road vehicles would occur at the construction site. Fugitive dust PM<sub>2.5</sub> emissions were also computed and included in this analysis. The model predicts total construction period fugitive PM<sub>2.5</sub> emissions of 0.607 tons (1,214 pounds).

The U.S. EPA AERMOD dispersion model was used to predict concentrations of DPM and PM<sub>2.5</sub> at existing off-site sensitive receptors in the vicinity of the data center construction site. The AERMOD modeling utilized two area sources to represent the on-site construction emissions, one for exhaust DPM emissions and one for fugitive dust emissions. To represent the construction equipment exhaust emissions, an emission release height of 6 meters (20 feet) was used for each area source. The elevated source height reflects the height of the equipment exhaust pipes and buoyancy of the exhaust plume. For modeling fugitive PM<sub>2.5</sub> emissions, a near ground level release height of 2 meters (6.6 feet) was used for each area source. All of the emissions from the construction equipment and construction truck travel were included in the area sources. Emissions were modeled as occurring daily between 7 a.m. to 5 p.m. when the majority of the construction activity involving equipment usage would occur. The model used a 5-year data set (2006-2010) of hourly meteorological data from the San José International Airport prepared by the BAAQMD for use with the AERMOD model. The airport is located about 2 miles northwest of the project site.

Average annual DPM and PM<sub>2.5</sub> concentrations from construction activities were calculated for the 2017-2018 construction period. Concentrations were calculated at off-site sensitive receptors at a height of 1.5 meters (4.9 feet). The locations of the maximum-modeled concentrations are identified on Figure 3.

Based on the maximum modeled DPM and PM<sub>2.5</sub> concentrations, maximum increased cancer risks and non-cancer health impacts were calculated using BAAQMD recommended methods, as described in *Attachment 3*. Table 6 summarizes cancer risk, hazards and annual PM<sub>2.5</sub> concentrations at the maximally affected off-site sensitive receptor (residence).

**Table 6. Data Center Construction - Maximum Increased Cancer Risk, Hazards and PM<sub>2.5</sub>**

<b>Sensitive Receptor</b>	<b>Cancer Risk (per million)</b>	<b>PM<sub>2.5</sub> Concentration (µg/m<sup>3</sup>)</b>	<b>Hazard Index (HI)</b>
Off-Site Residential Infant	28.9	0.54	<0.1
Off-Site Residential Adult	0.6	0.54	<0.1
<i>BAAQMD Thresholds</i>	<i>10.0</i>	<i>0.3</i>	<i>1.0</i>

The location of the receptor with the maximum off-site increased cancer risks and PM<sub>2.5</sub> concentration are identified on Figure 3. Results of this assessment indicate that the maximum off-site residential infant cancer risk would be 28.9 in one million and the residential adult cancer risk would be 0.6 in one million. The increased cancer risk for an infant would be above the BAAQMD's threshold used for evaluating cancer risk of 10 excess cancer cases per million and would be considered a *significant impact*.

The maximum-modeled annual PM<sub>2.5</sub> concentration, which is based on combined exhaust and fugitive dust emissions, was 0.54 µg/m<sup>3</sup>. This annual PM<sub>2.5</sub> concentration would exceed the BAAQMD significance threshold of 0.3 µg/m<sup>3</sup> and would be considered a *significant impact*.

The maximum modeled annual residential DPM concentration (i.e., from construction exhaust) was 0.207 µg/m<sup>3</sup>. The maximum computed HI based on this DPM concentration is 0.04, which is much lower than the BAAQMD significance criterion of a HI greater than 1.0 and would be considered a *less-than-significant impact*. This impact is considered less-than-significant with implementation of *Mitigation Measures AQ-1*.

*Attachment 4* includes the emission calculations used for the data center construction area source modeling and the cancer risk calculations, including the CalEEMod output.

#### *Data Center Operation Health Impacts*

Since the proposed project would emit DPM from the generator engines, an analysis was performed to assess what ambient concentrations would result from their operation and to quantify potential health risks at nearby sensitive receptors.

Potential health impacts from operation of the project's generators for testing and maintenance purposes were evaluated using air quality dispersion modeling and applying BAAQMD recommended health impact calculation methods, as described in *Attachment 3*. DPM concentrations and potential cancer risks from operation of the generators were evaluated at existing residences in the nearby project vicinity of the proposed data center site. Figure 3 shows the proposed data center buildings, locations of project emergency generators, and the locations used to represent the off-site residential receptors. The closest receptors to the proposed generators are about 630 feet north of the closest emergency generators at the data center. The maximum average annual off-site DPM concentrations were used to calculate potential increased cancer risks from the project. Average annual DPM concentrations were used as being representative of long-term (30-year) exposures for calculation of cancer risks.

Air quality modeling of annual average DPM concentrations was conducted using the EPA's AERMOD dispersion model. The AERMOD model is a steady-state, multiple-source, dispersion model designed to

calculate pollutant concentrations from single or multiple sources. The model is recommended by BAAQMD for predicting air pollutant/contaminant concentrations associated with various emissions sources. The AERMOD model predicts pollutant concentrations at receptors located in areas of flat or complex terrain from a variety of emission source types including point, area, volume and line sources. Since there are minimal elevation differences in the topography in the vicinity of the project site, flat terrain was assumed. The land use classification of the area was assumed to be urban. The modeling used a five-year data set (2006 - 2010) of hourly meteorological data from the San Jose Airport that was prepared by BAAQMD for use with the AERMOD model.

**Figure 3. Data Center Emission Sources, Sensitive Receptor Locations, and Locations of Maximum TAC Impact from Data Center Construction and Operation**



Annual average DPM and PM<sub>2.5</sub> concentrations were modeled assuming that generator testing would occur between the hours of 7:00 AM and 10:00 PM and each generator is operated for 50 hours per year. The generator engine source parameters used in the modeling are listed in Table 3. DPM emissions for the proposed emergency generators were calculated based on manufacturer’s (Volvo Penta) particulate matter emission factor data for the generator engines exhaust. As a worst-case analysis, each generator was assumed to operate at full load for 50 hours per year. The generator emission calculations and a copy of the manufacturer’s engine performance and emissions data are included in *Attachment 2*.

DPM and PM<sub>2.5</sub> concentrations were calculated at the locations of existing nearby residences, as shown in Figure 3. The same receptor locations used to evaluate construction impacts, discussed above, were used for evaluating impacts from the proposed emergency generators. Annual DPM and PM<sub>2.5</sub> concentrations from project operation were calculated at receptor heights of 1.5 meters (4.9 feet).

The maximum modeled annual DPM and PM<sub>2.5</sub> concentrations from operation of the generators at the data center was 0.0031 µg/m<sup>3</sup> at a receptor north of the data center project site across Agnew Road. Concentrations at all other existing residential locations would be lower than the maximum DPM and PM<sub>2.5</sub> concentrations. The location of the maximum modeled DPM and PM<sub>2.5</sub> concentrations, and TAC impacts, are shown on Figure 3.

Based on the maximum modeled DPM and PM<sub>2.5</sub> concentrations, maximum increased cancer risks and non-cancer health impacts were calculated using BAAQMD recommended methods, as described in *Attachment 3*. Table 7 shows the maximum predicted community risk levels from the operation of the proposed emergency generators at the data center.

**Table 7. Data Center Operation - Maximum Increased Community Risk Levels**

<b>Sensitive Receptor</b>	<b>Cancer Risk (per million)</b>	<b>Maximum Annual PM<sub>2.5</sub> (µg/m<sup>3</sup>)</b>	<b>Maximum Hazard Index</b>
Off-Site Residence	2.3	< 0.01	< 0.01
<i>BAAQMD Single Source Threshold</i>	<i>10.0</i>	<i>0.3</i>	<i>1.0</i>
<i>Significant?</i>	<i>No</i>	<i>No</i>	<i>No</i>

The maximum increased cancer risk, maximum modeled annual PM<sub>2.5</sub> concentration, and maximum hazard index from operation of the proposed emergency generators would be below the BAAQMD significance thresholds. Details of the modeling and cancer risk calculations are in *Attachment 5*.

*Data Center Total Health Impacts From Construction and Operation*

The total increased cancer risk and non-cancer health impacts from construction and operation of the proposed data center are summarized in Table 8. Total cancer risks and non-cancer health impacts from construction and operation of the proposed data center would be above BAAQMD significance thresholds for cancer risk and PM<sub>2.5</sub> and would be considered a *significant impact*.

Cumulative TAC and PM<sub>2.5</sub> Exposure

The project site is affected by several sources of TACs. The effect of cumulative sources plus the project were evaluated at the receptor most affected by the project using BAAQMD screening tools. All sources within 1,000 feet of the project site were considered, regardless of their distance from the receptor. Figure 2 shows the locations of stationary sources permitted by BAAQMD. In addition, two roadways were evaluated in this assessment: Mission College Boulevard and Agnew Road.

**Table 8. Data Center Construction and Operation – Total Maximum Health Impacts**

<b>Impact Type</b>	<b>Cancer Risk (per million)</b>	<b>Maximum Annual PM<sub>2.5</sub> (µg/m<sup>3</sup>)</b>	<b>Maximum Hazard Index</b>
Total Unmitigated Construction and Operation Impacts	31.2	0.54	< 0.01
<i>BAAQMD Single Source Threshold</i>	<i>10.0</i>	<i>0.3</i>	<i>1.0</i>
<i>Significant?</i>	<i>Yes</i>	<i>Yes</i>	<i>No</i>

Stationary sources were identified using BAAQMD’s Google Earth tool. The locations were refined by identifying the sources by their listed address and review of aerial maps to locate the sources. A stationary source information form that included these sources was submitted to BAAQMD to verify the existence of the sources and obtain emissions data. All but one source were diesel generators. The screening levels reported by BAAQMD were adjusted using the distance multiplier that BAAQMD recommends for diesel engines. One source, Plant 9848, had high screening PM<sub>2.5</sub> levels that required modeling using the emissions data that BAAQMD provided. This source included boilers and a generator that are the source of PM<sub>2.5</sub> emissions. Dispersion modeling using AERMOD was conducted for this source. The boilers were modeled using the emissions data and generic stack parameters recommended by the San Joaquin Valley Air Pollution Control District. The generator was modeled using the emissions data and stack parameters recommended by BAAQMD.

Roadway sources were evaluated using the BAAQMD Roadway Screening Calculator. The calculator uses the older EMFAC2011 emission rates for the year 2014. Overall, emission rates will decrease by the time the project is constructed and occupied. The project is not likely to be occupied prior to 2018. In addition, a new version of the emissions factor model, EMFAC2014 is available. This version predicts lower emission rates. An adjustment factor of 0.5 was developed by comparing emission rates of total organic gases (TOG) and PM<sub>2.5</sub> for running exhaust and running losses developed using EMFAC2011 for year 2014 and those from EMFAC2014 for year 2018. A traffic volume of 35,000 average daily trips (ADT) was used for Mission College Road and a volume of 15,000 ADT was estimated for Agnew Road.

Table 9 shows the cancer risk, hazard index, and PM<sub>2.5</sub> concentrations associated with each source affecting the project site. The sum of impacts from cumulative sources (i.e., sources within 1,000 feet of the project) would be below the cumulative thresholds used by BAAQMD. The Stationary Source Information Form and screening risk calculations used to assess these sources are provided in *Attachment 5* as part of the operational risk modeling information. Note that the predicted cancer risk was then adjusted upward using a factor of 1.3744 to account for new OEHHA guidance (see *Attachment 3*). This factor was provided by BAAQMD for use with their CEQA screening tools that are used to predict cancer risk.

### Summary of Impacts

As shown in Table 7, project construction activities alone would result in significant cancer risk (i.e., cancer risk greater than 10 chances per million) and significant annual PM<sub>2.5</sub> concentrations (i.e., greater than 0.3 µg/m<sup>3</sup>). The cancer risk from construction combined with operation would also be significant, based on the single-source thresholds (see Table 8). Annual PM<sub>2.5</sub> concentrations would exceed the single-source thresholds only during the years that construction occurs. During operation, the annual PM<sub>2.5</sub> concentrations would be less than significant. As shown in Table 9, the cumulative cancer risk, annual PM<sub>2.5</sub> concentration and Hazard Index would not exceed the significance thresholds. *Mitigation Measure AQ-1* would reduce construction emissions.

Effectiveness of Mitigation: *Mitigation Measure AQ-1* would reduce diesel particulate matter emissions by over 70 percent and fugitive particulate matter emissions by more than 50 percent. With mitigation the maximum cancer risk, assuming infant exposure, would be 8.1 in one million and the maximum PM<sub>2.5</sub> concentration would be 0.18µg/m<sup>3</sup>. The combination of construction activities with Mitigation Measure AQ-1 and operation of the project would result in a 30-year cancer risk of 9.5 per million. Impacts with Mitigation Measure AQ-1 would be reduced to a less-than-significant level.

**Table 9. Impacts from Cumulative Sources – Off-Site Receptors**

Sources within 1,000 feet of Project Site <sup>1</sup>	Maximum Cancer Risk (per million) <sup>2</sup>	Maximum Annual PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Hazard Index (HI)	Method of Analysis
Unmitigated Project Construction and Operation of Generators	31.2	0.54	<0.01	Refined modeling
Plant No. 9848 – Perkins Elmer, Inc (1,020 feet)	<3.4	<0.01	<0.01	Stationary source screening cancer risk and modeling PM <sub>2.5</sub> using emissions data from BAAQMD
Plant No. 17245 – City of Santa Clara, Generator (1,120 feet)	<1.4	0.00	0.00	Stationary source screening levels from BAAQMD adjusted using distance multiplier
Plant No. 17717 – 2350 Mission Inventories, Generator (1,480 feet)	<1.6	0.00	0.00	
Plant No. 18892 – Omni Vision, Generator (550 feet)	0.2	0.00	0.00	
Plant No. 20126 – Intermap Network Services, Generator (1,500 feet)	0.0	0.00	0.00	
Plant No. 18360 – Brion Technologies, Generator (1,260 feet)	1.1	0.00	0.00	
Plant No. 17385 – Intermap Network Services, Generator (900 feet)	2.3	0.00	0.00	
Mission College Road - 850 feet south, 35,000ADT	2.1	0.05	0.00	BAAQMD Roadway Screening adjusted for EMFAC2014 and new 2015 OEHHA
Agnew Road – 40 feet south, est. 15,000 ADT	5.0	0.15	0.00	
Cumulative Sources	48.3	0.75	0.02	
<b><i>BAAQMD Threshold – Cumulative Sources</i></b>	<b><i>100</i></b>	<b><i>10.0</i></b>	<b><i>0.8</i></b>	
<b><i>Significant?</i></b>	<b><i>No</i></b>	<b><i>No</i></b>	<b><i>No</i></b>	

Note: <sup>1</sup> See Figure 2 for location of sources

<sup>2</sup> Cumulative source cancer risk adjusted upward by factor of 1.3744 to account for new 2015 OEHHA guidance.

## SUPPORTING INFORMATION

**Attachment 1** includes the CalEEMod modeling output for project construction and operation. This output also includes the output for total construction emissions with Mitigation Measure AQ-1. **Attachment 2** includes the emission calculations for the diesel generator engines. **Attachment 3** is a description of the community risk methodology that includes parameters for computing cancer risk. The effect of mitigating on-site construction emissions is included in the CalEEMod Modeling output contained in **Attachment 4**. That output includes on- and near-site construction period emissions for both unmitigated and mitigated cases. Included in Attachment 4 is the construction dispersion modeling and cancer risk summaries. **Attachment 5** is the operational risk assessment for the routine testing and maintenance of the diesel generators. The cumulative source screening calculations, including the stationary source information form (SSIF) received from BAAQMD and the roadway screening calculations are provided in **Attachment 6**.

## **Attachment 1: CalEEMod Construction and Operation Emissions Output**



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## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.4007	4.2395	2.2566	5.2100e-003	0.6392	0.2021	0.8413	0.2506	0.1908	0.4413	0.0000	480.3886	480.3886	0.0799	0.0000	482.3849
2018	2.8282	8.3514	4.6943	0.0146	0.7994	0.2859	1.0853	0.3058	0.2677	0.5736	0.0000	1,351.6151	1,351.6151	0.1754	0.0000	1,356.0010
<b>Maximum</b>	<b>2.8282</b>	<b>8.3514</b>	<b>4.6943</b>	<b>0.0146</b>	<b>0.7994</b>	<b>0.2859</b>	<b>1.0853</b>	<b>0.3058</b>	<b>0.2677</b>	<b>0.5736</b>	<b>0.0000</b>	<b>1,351.6151</b>	<b>1,351.6151</b>	<b>0.1754</b>	<b>0.0000</b>	<b>1,356.0010</b>

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.1148	2.3409	2.3442	5.2100e-003	0.6392	0.0513	0.6905	0.1382	0.0511	0.1892	0.0000	480.3882	480.3882	0.0799	0.0000	482.3845
2018	2.4286	6.2508	4.8321	0.0146	0.7994	0.0966	0.8959	0.2017	0.0958	0.2975	0.0000	1,351.6145	1,351.6145	0.1754	0.0000	1,356.0005
Maximum	2.4286	6.2508	4.8321	0.0146	0.7994	0.0966	0.8959	0.2017	0.0958	0.2975	0.0000	1,351.6145	1,351.6145	0.1754	0.0000	1,356.0005

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	21.23	31.76	-3.24	0.00	0.00	69.71	17.66	38.91	67.98	52.04	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-1-2017	11-30-2017	2.8440	1.4648
2	12-1-2017	2-28-2018	6.2342	4.0989
3	3-1-2018	5-31-2018	1.8089	1.3810
4	6-1-2018	8-31-2018	2.6116	2.1969
5	9-1-2018	9-30-2018	0.8219	0.6978
		Highest	6.2342	4.0989

## 2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.7711	3.0000e-005	3.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1500e-003	7.1500e-003	2.0000e-005	0.0000	7.6300e-003
Energy	0.0571	0.5192	0.4361	3.1200e-003		0.0395	0.0395		0.0395	0.0395	0.0000	1,400.8809	1,400.8809	0.0551	0.0195	1,408.0789
Mobile	0.0182	0.0801	0.2324	7.1000e-004	0.0608	8.1000e-004	0.0616	0.0163	7.6000e-004	0.0170	0.0000	64.8688	64.8688	2.3700e-003	0.0000	64.9282
Waste						0.0000	0.0000		0.0000	0.0000	100.6835	0.0000	100.6835	5.9502	0.0000	249.4392
Water						0.0000	0.0000		0.0000	0.0000	29.3460	124.1859	153.5319	3.0207	0.0725	250.6639
Total	1.8465	0.5993	0.6723	3.8300e-003	0.0608	0.0403	0.1011	0.0163	0.0402	0.0565	130.0295	1,589.9427	1,719.9722	9.0285	0.0921	1,973.1176

## Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.7711	3.0000e-005	3.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1500e-003	7.1500e-003	2.0000e-005	0.0000	7.6300e-003
Energy	0.0571	0.5192	0.4361	3.1200e-003		0.0395	0.0395		0.0395	0.0395	0.0000	1,400.8809	1,400.8809	0.0551	0.0195	1,408.0789
Mobile	0.0182	0.0801	0.2324	7.1000e-004	0.0608	8.1000e-004	0.0616	0.0163	7.6000e-004	0.0170	0.0000	64.8688	64.8688	2.3700e-003	0.0000	64.9282
Waste						0.0000	0.0000		0.0000	0.0000	100.6835	0.0000	100.6835	5.9502	0.0000	249.4392
Water						0.0000	0.0000		0.0000	0.0000	29.3460	124.1859	153.5319	3.0207	0.0725	250.6639

Total	1.8465	0.5993	0.6723	3.8300e-003	0.0608	0.0403	0.1011	0.0163	0.0402	0.0565	130.0295	1,589.9427	1,719.9722	9.0285	0.0921	1,973.1176
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2017	1/18/2018	5	100	
2	Site Preparation	Site Preparation	11/15/2017	3/6/2018	5	80	
3	Trenching	Trenching	12/15/2017	3/8/2018	5	60	
4	Building Construction	Building Construction	12/15/2017	11/15/2018	5	240	
5	Grading	Grading	1/15/2018	2/9/2018	5	20	
6	Interior - Architectural Coating	Architectural Coating	5/15/2018	11/26/2018	5	140	
7	Paving	Paving	7/11/2018	7/24/2018	5	10	

Acres of Grading (Site Preparation Phase): 40

Acres of Grading (Grading Phase): 50

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 600,000; Non-Residential Outdoor: 200,000; Striped Parking

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	4	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	2.00	85	0.78
Demolition	Excavators	4	4.00	158	0.38
Demolition	Rubber Tired Dozers	4	4.80	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	4.80	97	0.37
Site Preparation	Graders	2	4.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	4.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	4.00	97	0.37
Trenching	Excavators	3	8.00	158	0.38
Trenching	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Cranes	3	4.20	231	0.29
Building Construction	Forklifts	2	10.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	4	5.00	46	0.45
Grading	Excavators	3	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Interior - Architectural Coating	Aerial Lifts	1	6.00	63	0.31
Interior - Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	15	38.00	0.00	2,633.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	9	23.00	0.00	2,801.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	168.00	66.00	13,000.00	10.80	7.30	7.30	LD_Mix	HDT_Mix	HHDT
Grading	10	25.00	0.00	5,750.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interior - Architectural Coating	2	34.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	7.30	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Replace Ground Cover
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Demolition - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1566	0.0000	0.1566	0.0237	0.0000	0.0237	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2818	2.6597	1.5805	2.6400e-003		0.1528	0.1528		0.1451	0.1451	0.0000	236.8629	236.8629	0.0511	0.0000	238.1392
<b>Total</b>	<b>0.2818</b>	<b>2.6597</b>	<b>1.5805</b>	<b>2.6400e-003</b>	<b>0.1566</b>	<b>0.1528</b>	<b>0.3094</b>	<b>0.0237</b>	<b>0.1451</b>	<b>0.1688</b>	<b>0.0000</b>	<b>236.8629</b>	<b>236.8629</b>	<b>0.0511</b>	<b>0.0000</b>	<b>238.1392</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0127	0.4025	0.0792	9.2000e-004	0.0215	2.2800e-003	0.0238	5.8500e-003	2.1800e-003	8.0300e-003	0.0000	88.7963	88.7963	4.3200e-003	0.0000	88.9042
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3900e-003	5.8200e-003	0.0589	1.3000e-004	0.0130	9.0000e-005	0.0131	3.4500e-003	8.0000e-005	3.5300e-003	0.0000	12.1593	12.1593	4.1000e-004	0.0000	12.1695
<b>Total</b>	<b>0.0201</b>	<b>0.4083</b>	<b>0.1381</b>	<b>1.0500e-003</b>	<b>0.0345</b>	<b>2.3700e-003</b>	<b>0.0369</b>	<b>9.3000e-003</b>	<b>2.2600e-003</b>	<b>0.0116</b>	<b>0.0000</b>	<b>100.9556</b>	<b>100.9556</b>	<b>4.7300e-003</b>	<b>0.0000</b>	<b>101.0737</b>

**Mitigated Construction On-Site**

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

Fugitive Dust					0.1566	0.0000	0.1566	0.0119	0.0000	0.0119	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0595	1.2439	1.6356	2.6400e-003		0.0371	0.0371		0.0371	0.0371	0.0000	236.8626	236.8626	0.0511	0.0000	238.1389
<b>Total</b>	<b>0.0595</b>	<b>1.2439</b>	<b>1.6356</b>	<b>2.6400e-003</b>	<b>0.1566</b>	<b>0.0371</b>	<b>0.1937</b>	<b>0.0119</b>	<b>0.0371</b>	<b>0.0490</b>	<b>0.0000</b>	<b>236.8626</b>	<b>236.8626</b>	<b>0.0511</b>	<b>0.0000</b>	<b>238.1389</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0127	0.4025	0.0792	9.2000e-004	0.0215	2.2800e-003	0.0238	5.8500e-003	2.1800e-003	8.0300e-003	0.0000	88.7963	88.7963	4.3200e-003	0.0000	88.9042
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3900e-003	5.8200e-003	0.0589	1.3000e-004	0.0130	9.0000e-005	0.0131	3.4500e-003	8.0000e-005	3.5300e-003	0.0000	12.1593	12.1593	4.1000e-004	0.0000	12.1695
<b>Total</b>	<b>0.0201</b>	<b>0.4083</b>	<b>0.1381</b>	<b>1.0500e-003</b>	<b>0.0345</b>	<b>2.3700e-003</b>	<b>0.0369</b>	<b>9.3000e-003</b>	<b>2.2600e-003</b>	<b>0.0116</b>	<b>0.0000</b>	<b>100.9556</b>	<b>100.9556</b>	<b>4.7300e-003</b>	<b>0.0000</b>	<b>101.0737</b>

**3.2 Demolition - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0255	0.0000	0.0255	3.8600e-003	0.0000	3.8600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0416	0.3940	0.2510	4.3000e-004		0.0220	0.0220		0.0209	0.0209	0.0000	38.2015	38.2015	8.1400e-003	0.0000	38.4050
<b>Total</b>	<b>0.0416</b>	<b>0.3940</b>	<b>0.2510</b>	<b>4.3000e-004</b>	<b>0.0255</b>	<b>0.0220</b>	<b>0.0475</b>	<b>3.8600e-003</b>	<b>0.0209</b>	<b>0.0247</b>	<b>0.0000</b>	<b>38.2015</b>	<b>38.2015</b>	<b>8.1400e-003</b>	<b>0.0000</b>	<b>38.4050</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7600e-003	0.0604	0.0118	1.5000e-004	0.0175	2.4000e-004	0.0177	4.3900e-003	2.3000e-004	4.6200e-003	0.0000	14.3448	14.3448	6.8000e-004	0.0000	14.3617
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0700e-003	8.2000e-004	8.3900e-003	2.0000e-005	2.1100e-003	1.0000e-005	2.1200e-003	5.6000e-004	1.0000e-005	5.7000e-004	0.0000	1.9248	1.9248	6.0000e-005	0.0000	1.9262
<b>Total</b>	<b>2.8300e-003</b>	<b>0.0612</b>	<b>0.0201</b>	<b>1.7000e-004</b>	<b>0.0196</b>	<b>2.5000e-004</b>	<b>0.0199</b>	<b>4.9500e-003</b>	<b>2.4000e-004</b>	<b>5.1900e-003</b>	<b>0.0000</b>	<b>16.2695</b>	<b>16.2695</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>16.2879</b>

**Mitigated Construction On-Site**

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

Fugitive Dust					0.0255	0.0000	0.0255	1.9300e-003	0.0000	1.9300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6800e-003	0.2025	0.2663	4.3000e-004		6.0400e-003	6.0400e-003		6.0400e-003	6.0400e-003	0.0000	38.2015	38.2015	8.1400e-003	0.0000	38.4050
<b>Total</b>	<b>9.6800e-003</b>	<b>0.2025</b>	<b>0.2663</b>	<b>4.3000e-004</b>	<b>0.0255</b>	<b>6.0400e-003</b>	<b>0.0315</b>	<b>1.9300e-003</b>	<b>6.0400e-003</b>	<b>7.9700e-003</b>	<b>0.0000</b>	<b>38.2015</b>	<b>38.2015</b>	<b>8.1400e-003</b>	<b>0.0000</b>	<b>38.4050</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7600e-003	0.0604	0.0118	1.5000e-004	0.0175	2.4000e-004	0.0177	4.3900e-003	2.3000e-004	4.6200e-003	0.0000	14.3448	14.3448	6.8000e-004	0.0000	14.3617
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0700e-003	8.2000e-004	8.3900e-003	2.0000e-005	2.1100e-003	1.0000e-005	2.1200e-003	6.6000e-004	1.0000e-005	5.7000e-004	0.0000	1.9248	1.9248	6.0000e-005	0.0000	1.9262
<b>Total</b>	<b>2.8300e-003</b>	<b>0.0612</b>	<b>0.0201</b>	<b>1.7000e-004</b>	<b>0.0196</b>	<b>2.5000e-004</b>	<b>0.0199</b>	<b>4.9500e-003</b>	<b>2.4000e-004</b>	<b>5.1900e-003</b>	<b>0.0000</b>	<b>16.2695</b>	<b>16.2695</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>16.2879</b>

**3.3 Site Preparation - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3838	0.0000	0.3838	0.2011	0.0000	0.2011	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0523	0.5901	0.2352	4.6000e-004		0.0289	0.0289		0.0266	0.0266	0.0000	42.2917	42.2917	0.0130	0.0000	42.6156
<b>Total</b>	<b>0.0523</b>	<b>0.5901</b>	<b>0.2352</b>	<b>4.6000e-004</b>	<b>0.3838</b>	<b>0.0289</b>	<b>0.4127</b>	<b>0.2011</b>	<b>0.0266</b>	<b>0.2277</b>	<b>0.0000</b>	<b>42.2917</b>	<b>42.2917</b>	<b>0.0130</b>	<b>0.0000</b>	<b>42.6156</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.5000e-003	0.2054	0.0404	4.7000e-004	0.0202	1.1600e-003	0.0214	5.2600e-003	1.1100e-003	6.3700e-003	0.0000	45.3088	45.3088	2.2000e-003	0.0000	45.3639
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7200e-003	1.3500e-003	0.0137	3.0000e-005	3.0100e-003	2.0000e-005	3.0300e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.8240	2.8240	9.0000e-005	0.0000	2.8264
<b>Total</b>	<b>8.2200e-003</b>	<b>0.2067</b>	<b>0.0541</b>	<b>5.0000e-004</b>	<b>0.0233</b>	<b>1.1800e-003</b>	<b>0.0244</b>	<b>6.0600e-003</b>	<b>1.1300e-003</b>	<b>7.1900e-003</b>	<b>0.0000</b>	<b>48.1328</b>	<b>48.1328</b>	<b>2.2900e-003</b>	<b>0.0000</b>	<b>48.1903</b>

**Mitigated Construction On-Site**

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

Fugitive Dust					0.3838	0.0000	0.3838	0.1006	0.0000	0.1006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.2240	0.2642	4.6000e-004		5.1700e-003	5.1700e-003		5.1700e-003	5.1700e-003	0.0000	42.2916	42.2916	0.0130	0.0000	42.6156
<b>Total</b>	<b>0.0111</b>	<b>0.2240</b>	<b>0.2642</b>	<b>4.6000e-004</b>	<b>0.3838</b>	<b>5.1700e-003</b>	<b>0.3890</b>	<b>0.1006</b>	<b>5.1700e-003</b>	<b>0.1057</b>	<b>0.0000</b>	<b>42.2916</b>	<b>42.2916</b>	<b>0.0130</b>	<b>0.0000</b>	<b>42.6156</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.5000e-003	0.2054	0.0404	4.7000e-004	0.0202	1.1600e-003	0.0214	5.2600e-003	1.1100e-003	6.3700e-003	0.0000	45.3088	45.3088	2.2000e-003	0.0000	45.3639
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7200e-003	1.3500e-003	0.0137	3.0000e-005	3.0100e-003	2.0000e-005	3.0300e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.8240	2.8240	8.0000e-005	0.0000	2.8264
<b>Total</b>	<b>8.2200e-003</b>	<b>0.2067</b>	<b>0.0541</b>	<b>5.0000e-004</b>	<b>0.0233</b>	<b>1.1800e-003</b>	<b>0.0244</b>	<b>6.0600e-003</b>	<b>1.1300e-003</b>	<b>7.1900e-003</b>	<b>0.0000</b>	<b>48.1328</b>	<b>48.1328</b>	<b>2.2900e-003</b>	<b>0.0000</b>	<b>48.1903</b>

**3.3 Site Preparation - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3838	0.0000	0.3838	0.2011	0.0000	0.2011	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0694	0.7822	0.3221	6.5000e-004		0.0373	0.0373		0.0343	0.0343	0.0000	59.2476	59.2476	0.0184	0.0000	59.7087
<b>Total</b>	<b>0.0694</b>	<b>0.7822</b>	<b>0.3221</b>	<b>6.5000e-004</b>	<b>0.3838</b>	<b>0.0373</b>	<b>0.4211</b>	<b>0.2011</b>	<b>0.0343</b>	<b>0.2354</b>	<b>0.0000</b>	<b>59.2476</b>	<b>59.2476</b>	<b>0.0184</b>	<b>0.0000</b>	<b>59.7087</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.8800e-003	0.2697	0.0525	6.6000e-004	0.0213	1.0800e-003	0.0224	5.6300e-003	1.0300e-003	6.6700e-003	0.0000	64.0376	64.0376	3.0200e-003	0.0000	64.1131
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1800e-003	1.6700e-003	0.0171	4.0000e-005	4.2900e-003	3.0000e-005	4.3200e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	3.9110	3.9110	1.2000e-004	0.0000	3.9140
<b>Total</b>	<b>0.0101</b>	<b>0.2714</b>	<b>0.0695</b>	<b>7.0000e-004</b>	<b>0.0256</b>	<b>1.1100e-003</b>	<b>0.0267</b>	<b>6.7700e-003</b>	<b>1.0600e-003</b>	<b>7.8400e-003</b>	<b>0.0000</b>	<b>67.9486</b>	<b>67.9486</b>	<b>3.1400e-003</b>	<b>0.0000</b>	<b>68.0271</b>

**Mitigated Construction On-Site**

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

Fugitive Dust					0.3838	0.0000	0.3838	0.1006	0.0000	0.1006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.3190	0.3763	6.5000e-004		7.3600e-003	7.3600e-003		7.3600e-003	7.3600e-003	0.0000	59.2475	59.2475	0.0184	0.0000	59.7086
<b>Total</b>	<b>0.0159</b>	<b>0.3190</b>	<b>0.3763</b>	<b>6.5000e-004</b>	<b>0.3838</b>	<b>7.3600e-003</b>	<b>0.3912</b>	<b>0.1006</b>	<b>7.3600e-003</b>	<b>0.1079</b>	<b>0.0000</b>	<b>59.2475</b>	<b>59.2475</b>	<b>0.0184</b>	<b>0.0000</b>	<b>59.7086</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.8800e-003	0.2697	0.0525	6.6000e-004	0.0213	1.0800e-003	0.0224	5.6300e-003	1.0300e-003	6.6700e-003	0.0000	64.0376	64.0376	3.0200e-003	0.0000	64.1131
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1800e-003	1.6700e-003	0.0171	4.0000e-005	4.2900e-003	3.0000e-005	4.3200e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	3.9110	3.9110	1.2000e-004	0.0000	3.9140
<b>Total</b>	<b>0.0101</b>	<b>0.2714</b>	<b>0.0695</b>	<b>7.0000e-004</b>	<b>0.0256</b>	<b>1.1100e-003</b>	<b>0.0267</b>	<b>6.7700e-003</b>	<b>1.0600e-003</b>	<b>7.8400e-003</b>	<b>0.0000</b>	<b>67.9486</b>	<b>67.9486</b>	<b>3.1400e-003</b>	<b>0.0000</b>	<b>68.0271</b>

**3.4 Trenching - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0128	0.1316	0.1077	1.5000e-004		8.2200e-003	8.2200e-003		7.5600e-003	7.5600e-003	0.0000	14.2538	14.2538	4.3700e-003	0.0000	14.3630
<b>Total</b>	<b>0.0128</b>	<b>0.1316</b>	<b>0.1077</b>	<b>1.5000e-004</b>		<b>8.2200e-003</b>	<b>8.2200e-003</b>		<b>7.5600e-003</b>	<b>7.5600e-003</b>	<b>0.0000</b>	<b>14.2538</b>	<b>14.2538</b>	<b>4.3700e-003</b>	<b>0.0000</b>	<b>14.3630</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.5000e-004	3.5700e-003	1.0000e-005	7.9000e-004	1.0000e-005	7.9000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.7367	0.7367	2.0000e-005	0.0000	0.7373
<b>Total</b>	<b>4.5000e-004</b>	<b>3.5000e-004</b>	<b>3.5700e-003</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>2.1000e-004</b>	<b>1.0000e-005</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.7367</b>	<b>0.7367</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.7373</b>

**Mitigated Construction On-Site**

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

Off-Road	3.7700e-003	0.0787	0.1162	1.5000e-004		2.8000e-003	2.8000e-003		2.8000e-003	2.8000e-003	0.0000	14.2538	14.2538	4.3700e-003	0.0000	14.3630
<b>Total</b>	<b>3.7700e-003</b>	<b>0.0787</b>	<b>0.1162</b>	<b>1.5000e-004</b>		<b>2.8000e-003</b>	<b>2.8000e-003</b>		<b>2.8000e-003</b>	<b>2.8000e-003</b>	<b>0.0000</b>	<b>14.2538</b>	<b>14.2538</b>	<b>4.3700e-003</b>	<b>0.0000</b>	<b>14.3630</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.5000e-004	3.5700e-003	1.0000e-005	7.9000e-004	1.0000e-005	7.9000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.7367	0.7367	2.0000e-005	0.0000	0.7373
<b>Total</b>	<b>4.5000e-004</b>	<b>3.5000e-004</b>	<b>3.5700e-003</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>2.1000e-004</b>	<b>1.0000e-005</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.7367</b>	<b>0.7367</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.7373</b>

**3.4 Trenching - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0473	0.4853	0.4698	6.8000e-004		0.0293	0.0293		0.0270	0.0270	0.0000	62.4520	62.4520	0.0194	0.0000	62.9381
<b>Total</b>	<b>0.0473</b>	<b>0.4853</b>	<b>0.4698</b>	<b>6.8000e-004</b>		<b>0.0293</b>	<b>0.0293</b>		<b>0.0270</b>	<b>0.0270</b>	<b>0.0000</b>	<b>62.4520</b>	<b>62.4520</b>	<b>0.0194</b>	<b>0.0000</b>	<b>62.9381</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7800e-003	1.3600e-003	0.0139	4.0000e-005	3.5000e-003	2.0000e-005	3.5200e-003	9.3000e-004	2.0000e-005	9.5000e-004	0.0000	3.1911	3.1911	1.0000e-004	0.0000	3.1935
<b>Total</b>	<b>1.7800e-003</b>	<b>1.3600e-003</b>	<b>0.0139</b>	<b>4.0000e-005</b>	<b>3.5000e-003</b>	<b>2.0000e-005</b>	<b>3.5200e-003</b>	<b>9.3000e-004</b>	<b>2.0000e-005</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>3.1911</b>	<b>3.1911</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>3.1935</b>

**Mitigated Construction On-Site**

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

Off-Road	0.0168	0.3505	0.5175	6.8000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	62.4519	62.4519	0.0194	0.0000	62.9380
<b>Total</b>	<b>0.0168</b>	<b>0.3505</b>	<b>0.5175</b>	<b>6.8000e-004</b>		<b>0.0125</b>	<b>0.0125</b>		<b>0.0125</b>	<b>0.0125</b>	<b>0.0000</b>	<b>62.4519</b>	<b>62.4519</b>	<b>0.0194</b>	<b>0.0000</b>	<b>62.9380</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7800e-003	1.3600e-003	0.0139	4.0000e-005	3.5000e-003	2.0000e-005	3.5200e-003	9.3000e-004	2.0000e-005	9.5000e-004	0.0000	3.1911	3.1911	1.0000e-004	0.0000	3.1935
<b>Total</b>	<b>1.7800e-003</b>	<b>1.3600e-003</b>	<b>0.0139</b>	<b>4.0000e-005</b>	<b>3.5000e-003</b>	<b>2.0000e-005</b>	<b>3.5200e-003</b>	<b>9.3000e-004</b>	<b>2.0000e-005</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>3.1911</b>	<b>3.1911</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>3.1935</b>

**3.5 Building Construction - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0168	0.1297	0.0778	1.2000e-004		7.8100e-003	7.8100e-003		7.3300e-003	7.3300e-003	0.0000	10.3647	10.3647	2.9400e-003	0.0000	10.4383
<b>Total</b>	<b>0.0168</b>	<b>0.1297</b>	<b>0.0778</b>	<b>1.2000e-004</b>		<b>7.8100e-003</b>	<b>7.8100e-003</b>		<b>7.3300e-003</b>	<b>7.3300e-003</b>	<b>0.0000</b>	<b>10.3647</b>	<b>10.3647</b>	<b>2.9400e-003</b>	<b>0.0000</b>	<b>10.4383</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7000e-003	0.0577	0.0112	1.1000e-004	0.0306	2.4000e-004	0.0308	7.5600e-003	2.3000e-004	7.7900e-003	0.0000	10.2864	10.2864	7.2000e-004	0.0000	10.3044
Vendor	2.2900e-003	0.0520	0.0152	1.0000e-004	2.3900e-003	4.9000e-004	2.8800e-003	6.9000e-004	4.7000e-004	1.1600e-003	0.0000	9.6281	9.6281	5.3000e-004	0.0000	9.6415
Worker	4.1800e-003	3.2900e-003	0.0333	8.0000e-005	7.3300e-003	5.0000e-005	7.3800e-003	1.9500e-003	5.0000e-005	2.0000e-003	0.0000	6.8759	6.8759	2.3000e-004	0.0000	6.8816
<b>Total</b>	<b>8.1700e-003</b>	<b>0.1130</b>	<b>0.0597</b>	<b>2.9000e-004</b>	<b>0.0403</b>	<b>7.8000e-004</b>	<b>0.0411</b>	<b>0.0102</b>	<b>7.5000e-004</b>	<b>0.0110</b>	<b>0.0000</b>	<b>26.7905</b>	<b>26.7905</b>	<b>1.4800e-003</b>	<b>0.0000</b>	<b>26.8275</b>

**Mitigated Construction On-Site**

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

Off-Road	3.5200e-003	0.0660	0.0728	1.2000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	10.3647	10.3647	2.9400e-003	0.0000	10.4383
<b>Total</b>	<b>3.5200e-003</b>	<b>0.0660</b>	<b>0.0728</b>	<b>1.2000e-004</b>		<b>1.8200e-003</b>	<b>1.8200e-003</b>		<b>1.8200e-003</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>10.3647</b>	<b>10.3647</b>	<b>2.9400e-003</b>	<b>0.0000</b>	<b>10.4383</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7000e-003	0.0577	0.0112	1.1000e-004	0.0306	2.4000e-004	0.0308	7.5600e-003	2.3000e-004	7.7900e-003	0.0000	10.2864	10.2864	7.2000e-004	0.0000	10.3044
Vendor	2.2900e-003	0.0520	0.0152	1.0000e-004	2.3900e-003	4.9000e-004	2.8800e-003	6.9000e-004	4.7000e-004	1.1600e-003	0.0000	9.6281	9.6281	5.3000e-004	0.0000	9.6415
Worker	4.1800e-003	3.2900e-003	0.0333	8.0000e-005	7.3300e-003	5.0000e-005	7.3800e-003	1.9500e-003	5.0000e-005	2.0000e-003	0.0000	6.8759	6.8759	2.3000e-004	0.0000	6.8816
<b>Total</b>	<b>8.1700e-003</b>	<b>0.1130</b>	<b>0.0597</b>	<b>2.9000e-004</b>	<b>0.0403</b>	<b>7.8000e-004</b>	<b>0.0411</b>	<b>0.0102</b>	<b>7.5000e-004</b>	<b>0.0110</b>	<b>0.0000</b>	<b>26.7905</b>	<b>26.7905</b>	<b>1.4800e-003</b>	<b>0.0000</b>	<b>26.8275</b>

**3.5 Building Construction - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3032	2.3880	1.5343	2.4800e-003		0.1377	0.1377		0.1293	0.1293	0.0000	213.1661	213.1661	0.0599	0.0000	214.6642
<b>Total</b>	<b>0.3032</b>	<b>2.3880</b>	<b>1.5343</b>	<b>2.4800e-003</b>		<b>0.1377</b>	<b>0.1377</b>		<b>0.1293</b>	<b>0.1293</b>	<b>0.0000</b>	<b>213.1661</b>	<b>213.1661</b>	<b>0.0599</b>	<b>0.0000</b>	<b>214.6642</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0306	1.1310	0.2119	2.2100e-003	0.0398	3.3200e-003	0.0432	0.0109	3.1800e-003	0.0141	0.0000	213.7637	213.7637	0.0142	0.0000	214.1177
Vendor	0.0414	1.0129	0.2819	2.0900e-003	0.0497	8.1300e-003	0.0578	0.0144	7.7800e-003	0.0222	0.0000	200.0201	200.0201	0.0104	0.0000	200.2795
Worker	0.0774	0.0595	0.6066	1.5400e-003	0.1526	1.0300e-003	0.1536	0.0406	9.5000e-004	0.0415	0.0000	139.1908	139.1908	4.1800e-003	0.0000	139.2953
<b>Total</b>	<b>0.1494</b>	<b>2.2034</b>	<b>1.1004</b>	<b>5.8400e-003</b>	<b>0.2421</b>	<b>0.0125</b>	<b>0.2546</b>	<b>0.0659</b>	<b>0.0119</b>	<b>0.0778</b>	<b>0.0000</b>	<b>552.9746</b>	<b>552.9746</b>	<b>0.0287</b>	<b>0.0000</b>	<b>553.6924</b>

**Mitigated Construction On-Site**

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

Off-Road	0.0732	1.3734	1.5161	2.4800e-003		0.0379	0.0379		0.0379	0.0379	0.0000	213.1659	213.1659	0.0599	0.0000	214.6639
<b>Total</b>	<b>0.0732</b>	<b>1.3734</b>	<b>1.5161</b>	<b>2.4800e-003</b>		<b>0.0379</b>	<b>0.0379</b>		<b>0.0379</b>	<b>0.0379</b>	<b>0.0000</b>	<b>213.1659</b>	<b>213.1659</b>	<b>0.0599</b>	<b>0.0000</b>	<b>214.6639</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0306	1.1310	0.2119	2.2100e-003	0.0398	3.3200e-003	0.0432	0.0109	3.1800e-003	0.0141	0.0000	213.7637	213.7637	0.0142	0.0000	214.1177
Vendor	0.0414	1.0129	0.2819	2.0900e-003	0.0497	8.1300e-003	0.0578	0.0144	7.7800e-003	0.0222	0.0000	200.0201	200.0201	0.0104	0.0000	200.2795
Worker	0.0774	0.0595	0.6066	1.5400e-003	0.1526	1.0300e-003	0.1536	0.0406	9.5000e-004	0.0415	0.0000	139.1908	139.1908	4.1800e-003	0.0000	139.2953
<b>Total</b>	<b>0.1494</b>	<b>2.2034</b>	<b>1.1004</b>	<b>5.8400e-003</b>	<b>0.2421</b>	<b>0.0125</b>	<b>0.2546</b>	<b>0.0659</b>	<b>0.0119</b>	<b>0.0778</b>	<b>0.0000</b>	<b>552.9746</b>	<b>552.9746</b>	<b>0.0287</b>	<b>0.0000</b>	<b>553.6924</b>

**3.6 Grading - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0291	0.0000	0.0291	3.2600e-003	0.0000	3.2600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.5532	0.3866	6.5000e-004		0.0255	0.0255		0.0234	0.0234	0.0000	59.2337	59.2337	0.0184	0.0000	59.6947
<b>Total</b>	<b>0.0475</b>	<b>0.5532</b>	<b>0.3866</b>	<b>6.5000e-004</b>	<b>0.0291</b>	<b>0.0255</b>	<b>0.0546</b>	<b>3.2600e-003</b>	<b>0.0234</b>	<b>0.0267</b>	<b>0.0000</b>	<b>59.2337</b>	<b>59.2337</b>	<b>0.0184</b>	<b>0.0000</b>	<b>59.6947</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0275	0.9425	0.1833	2.3200e-003	0.0487	3.7700e-003	0.0525	0.0134	3.6000e-003	0.0170	0.0000	223.7597	223.7597	0.0106	0.0000	224.0237
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0100e-003	7.7000e-004	7.8800e-003	2.0000e-005	1.9800e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.8090	1.8090	5.0000e-005	0.0000	1.8104
<b>Total</b>	<b>0.0285</b>	<b>0.9433</b>	<b>0.1912</b>	<b>2.3400e-003</b>	<b>0.0507</b>	<b>3.7800e-003</b>	<b>0.0545</b>	<b>0.0139</b>	<b>3.6100e-003</b>	<b>0.0175</b>	<b>0.0000</b>	<b>225.5687</b>	<b>225.5687</b>	<b>0.0106</b>	<b>0.0000</b>	<b>225.8340</b>

**Mitigated Construction On-Site**

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

Fugitive Dust					0.0291	0.0000	0.0291	1.6300e-003	0.0000	1.6300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.3186	0.4079	6.5000e-004		8.4300e-003	8.4300e-003		8.4300e-003	8.4300e-003	0.0000	59.2336	59.2336	0.0184	0.0000	59.6946
<b>Total</b>	<b>0.0159</b>	<b>0.3186</b>	<b>0.4079</b>	<b>6.5000e-004</b>	<b>0.0291</b>	<b>8.4300e-003</b>	<b>0.0375</b>	<b>1.6300e-003</b>	<b>8.4300e-003</b>	<b>0.0101</b>	<b>0.0000</b>	<b>59.2336</b>	<b>59.2336</b>	<b>0.0184</b>	<b>0.0000</b>	<b>59.6946</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0275	0.9425	0.1833	2.3200e-003	0.0487	3.7700e-003	0.0525	0.0134	3.6000e-003	0.0170	0.0000	223.7597	223.7597	0.0106	0.0000	224.0237
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0100e-003	7.7000e-004	7.8800e-003	2.0000e-005	1.9800e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.8090	1.8090	5.0000e-005	0.0000	1.8104
<b>Total</b>	<b>0.0285</b>	<b>0.9433</b>	<b>0.1912</b>	<b>2.3400e-003</b>	<b>0.0507</b>	<b>3.7800e-003</b>	<b>0.0545</b>	<b>0.0139</b>	<b>3.6100e-003</b>	<b>0.0175</b>	<b>0.0000</b>	<b>225.5687</b>	<b>225.5687</b>	<b>0.0106</b>	<b>0.0000</b>	<b>225.8340</b>

**3.7 Interior - Architectural Coating - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.0858					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0231	0.1777	0.1871	3.0000e-004		0.0116	0.0116		0.0115	0.0115	0.0000	25.9191	25.9191	4.2000e-003	0.0000	26.0242
<b>Total</b>	<b>2.1089</b>	<b>0.1777</b>	<b>0.1871</b>	<b>3.0000e-004</b>		<b>0.0116</b>	<b>0.0116</b>		<b>0.0115</b>	<b>0.0115</b>	<b>0.0000</b>	<b>25.9191</b>	<b>25.9191</b>	<b>4.2000e-003</b>	<b>0.0000</b>	<b>26.0242</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5800e-003	7.3600e-003	0.0751	1.9000e-004	0.0189	1.3000e-004	0.0190	5.0200e-003	1.2000e-004	5.1400e-003	0.0000	17.2216	17.2216	5.2000e-004	0.0000	17.2345
<b>Total</b>	<b>9.5800e-003</b>	<b>7.3600e-003</b>	<b>0.0751</b>	<b>1.9000e-004</b>	<b>0.0189</b>	<b>1.3000e-004</b>	<b>0.0190</b>	<b>5.0200e-003</b>	<b>1.2000e-004</b>	<b>5.1400e-003</b>	<b>0.0000</b>	<b>17.2216</b>	<b>17.2216</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>17.2345</b>

**Mitigated Construction On-Site**

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

Archit. Coating	2.0858					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3300e-003	0.1445	0.1952	3.0000e-004		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003	0.0000	25.9191	25.9191	4.2000e-003	0.0000	26.0242
<b>Total</b>	<b>2.0921</b>	<b>0.1445</b>	<b>0.1952</b>	<b>3.0000e-004</b>		<b>5.0600e-003</b>	<b>5.0600e-003</b>		<b>5.0600e-003</b>	<b>5.0600e-003</b>	<b>0.0000</b>	<b>25.9191</b>	<b>25.9191</b>	<b>4.2000e-003</b>	<b>0.0000</b>	<b>26.0242</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5800e-003	7.3600e-003	0.0751	1.9000e-004	0.0189	1.3000e-004	0.0190	5.0200e-003	1.2000e-004	5.1400e-003	0.0000	17.2216	17.2216	5.2000e-004	0.0000	17.2345
<b>Total</b>	<b>9.5800e-003</b>	<b>7.3600e-003</b>	<b>0.0751</b>	<b>1.9000e-004</b>	<b>0.0189</b>	<b>1.3000e-004</b>	<b>0.0190</b>	<b>5.0200e-003</b>	<b>1.2000e-004</b>	<b>5.1400e-003</b>	<b>0.0000</b>	<b>17.2216</b>	<b>17.2216</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>17.2345</b>

**3.8 Paving - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.9200e-003	0.0827	0.0710	1.1000e-004		4.8300e-003	4.8300e-003		4.4400e-003	4.4400e-003	0.0000	9.6784	9.6784	3.0100e-003	0.0000	9.7538
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.9200e-003</b>	<b>0.0827</b>	<b>0.0710</b>	<b>1.1000e-004</b>		<b>4.8300e-003</b>	<b>4.8300e-003</b>		<b>4.4400e-003</b>	<b>4.4400e-003</b>	<b>0.0000</b>	<b>9.6784</b>	<b>9.6784</b>	<b>3.0100e-003</b>	<b>0.0000</b>	<b>9.7538</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.3000e-004	2.3700e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5427	0.5427	2.0000e-005	0.0000	0.5431
<b>Total</b>	<b>3.0000e-004</b>	<b>2.3000e-004</b>	<b>2.3700e-003</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.5427</b>	<b>0.5427</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.5431</b>

**Mitigated Construction On-Site**

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

Off-Road	2.6100e-003	0.0540	0.0804	1.1000e-004		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	9.6784	9.6784	3.0100e-003	0.0000	9.7538
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.6100e-003</b>	<b>0.0540</b>	<b>0.0804</b>	<b>1.1000e-004</b>		<b>1.5600e-003</b>	<b>1.5600e-003</b>		<b>1.5600e-003</b>	<b>1.5600e-003</b>	<b>0.0000</b>	<b>9.6784</b>	<b>9.6784</b>	<b>3.0100e-003</b>	<b>0.0000</b>	<b>9.7538</b>

### Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.3000e-004	2.3700e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5427	0.5427	2.0000e-005	0.0000	0.5431
<b>Total</b>	<b>3.0000e-004</b>	<b>2.3000e-004</b>	<b>2.3700e-003</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.5427</b>	<b>0.5427</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.5431</b>

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0182	0.0801	0.2324	7.1000e-004	0.0608	8.1000e-004	0.0616	0.0163	7.6000e-004	0.0170	0.0000	64.8688	64.8688	2.3700e-003	0.0000	64.9282
Unmitigated	0.0182	0.0801	0.2324	7.1000e-004	0.0608	8.1000e-004	0.0616	0.0163	7.6000e-004	0.0170	0.0000	64.8688	64.8688	2.3700e-003	0.0000	64.9282

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
General Light Industry	56.00	56.00	56.00	163,493	163,493
<b>Total</b>	<b>56.00</b>	<b>56.00</b>	<b>56.00</b>	<b>163,493</b>	<b>163,493</b>

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.601004	0.039123	0.186461	0.109772	0.016124	0.004965	0.012251	0.019838	0.002045	0.001602	0.005388	0.000616	0.000812

## 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	835.6514	835.6514	0.0443	9.1700e-003	839.4905
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	835.6514	835.6514	0.0443	9.1700e-003	839.4905
NaturalGas Mitigated	0.0571	0.5192	0.4361	3.1200e-003		0.0395	0.0395		0.0395	0.0395	0.0000	565.2295	565.2295	0.0108	0.0104	568.5883
NaturalGas Unmitigated	0.0571	0.5192	0.4361	3.1200e-003		0.0395	0.0395		0.0395	0.0395	0.0000	565.2295	565.2295	0.0108	0.0104	568.5883

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	1.0592e+07	0.0571	0.5192	0.4361	3.1200e-003		0.0395	0.0395		0.0395	0.0395	0.0000	565.2295	565.2295	0.0108	0.0104	568.5883
<b>Total</b>		<b>0.0571</b>	<b>0.5192</b>	<b>0.4361</b>	<b>3.1200e-003</b>		<b>0.0395</b>	<b>0.0395</b>		<b>0.0395</b>	<b>0.0395</b>	<b>0.0000</b>	<b>565.2295</b>	<b>565.2295</b>	<b>0.0108</b>	<b>0.0104</b>	<b>568.5883</b>

### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	1.0592e+07	0.0571	0.5192	0.4361	3.1200e-003		0.0395	0.0395		0.0395	0.0395	0.0000	565.2295	565.2295	0.0108	0.0104	568.5883
<b>Total</b>		<b>0.0571</b>	<b>0.5192</b>	<b>0.4361</b>	<b>3.1200e-003</b>		<b>0.0395</b>	<b>0.0395</b>		<b>0.0395</b>	<b>0.0395</b>	<b>0.0000</b>	<b>565.2295</b>	<b>565.2295</b>	<b>0.0108</b>	<b>0.0104</b>	<b>568.5883</b>

## 5.3 Energy by Land Use - Electricity

### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	3.368e+006	835.6514	0.0443	9.1700e-003	839.4905
<b>Total</b>		<b>835.6514</b>	<b>0.0443</b>	<b>9.1700e-003</b>	<b>839.4905</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	3.368e+006	835.6514	0.0443	9.1700e-003	839.4905
<b>Total</b>		<b>835.6514</b>	<b>0.0443</b>	<b>9.1700e-003</b>	<b>839.4905</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.7711	3.0000e-005	3.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1500e-003	7.1500e-003	2.0000e-005	0.0000	7.6300e-003
Unmitigated	1.7711	3.0000e-005	3.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1500e-003	7.1500e-003	2.0000e-005	0.0000	7.6300e-003

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2086					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5622					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.5000e-004	3.0000e-005	3.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1500e-003	7.1500e-003	2.0000e-005	0.0000	7.6300e-003
<b>Total</b>	<b>1.7711</b>	<b>3.0000e-005</b>	<b>3.7100e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>7.1500e-003</b>	<b>7.1500e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>7.6300e-003</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2086					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5622					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.5000e-004	3.0000e-005	3.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1500e-003	7.1500e-003	2.0000e-005	0.0000	7.6300e-003

Total	1.7711	3.0000e-005	3.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1500e-003	7.1500e-003	2.0000e-005	0.0000	7.6300e-003
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## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	153.5319	3.0207	0.0725	250.6639
Unmitigated	153.5319	3.0207	0.0725	250.6639

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	92.5 / 0	153.5319	3.0207	0.0725	250.6639
<b>Total</b>		<b>153.5319</b>	<b>3.0207</b>	<b>0.0725</b>	<b>250.6639</b>

#### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	92.5 / 0	153.5319	3.0207	0.0725	250.6639
<b>Total</b>		<b>153.5319</b>	<b>3.0207</b>	<b>0.0725</b>	<b>250.6639</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			

Mitigated	100.6835	5.9502	0.0000	249.4392
Unmitigated	100.6835	5.9502	0.0000	249.4392

## 8.2 Waste by Land Use

### Unmitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
		MT/yr			
General Light Industry	496	100.6835	5.9502	0.0000	249.4392
<b>Total</b>		<b>100.6835</b>	<b>5.9502</b>	<b>0.0000</b>	<b>249.4392</b>

### Mitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
		MT/yr			
General Light Industry	496	100.6835	5.9502	0.0000	249.4392
<b>Total</b>		<b>100.6835</b>	<b>5.9502</b>	<b>0.0000</b>	<b>249.4392</b>

## 9.0 Operational Offroad

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

## 10.0 Stationary Equipment

### Fire Pumps and Emergency Generators

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

### Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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### User Defined Equipment

Equipment Type	Number
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## 11.0 Vegetation

**Attachment 2: Data Center Emergency Generators Emission Calculations and Engine Data**

# VOLVO PENTA

NO: 164044

## EXHAUST EMISSION DECLARATION

The emission data in this declaration are measured according to the test procedures specified below and on one member engine of the engine type. Emission data may vary among production engines.

### TECHNICAL SPECIFICATION

Engine type: TWD1673 GE  
Specification:  
Module No:  
Rated crankshaft power \*): 685 kW  
Rated speed: 1800 rpm  
\*) Stand-by power without fan acc. to ISO 3046.

### TEST INFORMATION

Test conditions: 40 CFR part 1039  
Test identification: 29008623  
Test date: September 10, 2014  
Test cycle: D2 - 5-mode US constant speed test cycle

### EXHAUST EMISSIONS (weighted cycle)

CO (g/kWh)	0,09
HC (g/kWh)	0,003
NOx (g/kWh)	0,31
PM (g/kWh)	0,018

### EXHAUST EMISSIONS (per cycle mode)

Mode	#	1	2	3	4	5
Power	(kW)	699	526	351	176	70
NOx	(g/h)	204	147	148	28	46
HC	(g/h)	0	0	0	0	1
CO	(g/h)	141	106	74	60	123
CO <sub>2</sub>	(kg/h)	448	332	227	125	66
NOx	(ppm)	35	29	37	10	23
HC	(ppm)	0	0	0	0	1
CO	(ppm)	20	15	12	10	13
CO engine cut	(ppm)	42	37	31	36	105
CO <sub>2</sub>	(%)	8,6	7,3	6,1	4,7	3,6

Gothenburg 2014-10-24



Hanna Österlindh

AB Volvo Penta  
47 436, Engine Emission Certification

<b>VOLVO PENTA</b> TWD1673GE	Document No	Issue Index
	<b>22412771</b>	<b>01</b>

Performance		rpm	1500	1800
Prime Power	without fan	kW	NA	625
		hp	NA	850
	with fan	kW	NA	595
		hp	NA	809
Standby Power	without fan	kW	NA	685
		hp	NA	932
	with fan	kW	NA	655
		hp	NA	891
Torque at:	Prime Power	Nm	NA	3316
		lbft	NA	2445
	Standby Power	Nm	NA	3634
		lbft	NA	2680
Mean piston speed		m/s	NA	9,9
		ft/sec	NA	32,6
Effective mean pressure at:	Prime Power	MPa	NA	2,6
		psi	NA	375
Effective mean pressure at:	Standby Power	MPa	NA	2,8
		psi	NA	411
Max combustion pressure at:	Prime Power	MPa	NA	22
		psi	NA	3191
Max combustion pressure at:	Standby Power	MPa	NA	22,5
		psi	NA	3263
Total mass moment of inertia, J (mR <sup>2</sup> ) with flywheel		kgm <sup>2</sup>	2,50	
		lbft <sup>2</sup>	59,3	
Total mass moment of inertia, J (mR <sup>2</sup> ) without flywheel		kgm <sup>2</sup>	1,92	
		lbft <sup>2</sup>	45,6	
Friction Power		kW		51
		hp		69,36
<b>Derating due to altitude - see Technical Diagrams</b>				

#### Engine noise emission

Test Standards: ISO 3744-1981 (E) sound power

Tolerance ± 0.75 dB(A)

		rpm	1500	1800
Measured sound power Lw	No load	dB(A)	NA	118,1
	Prime Power	dB(A)	NA	119,1
	Standby Power	dB(A)	NA	118,9
Calculated sound pressure Lp at 1 m	No load	dB(A)	NA	101,1
	Prime Power	dB(A)	NA	102,1
	Standby Power	dB(A)	NA	101,9

#### Unsilenced exhaust noise

Data calculated as sound pressure Lp.

Assumed microphone distance 1 m

		rpm	1500	1800
Prime Power		dB(A)	NA	
Standby Power		dB(A)	NA	

# TWD1672-1673GE

615 kW (836 hp) & 685 (932) at 1800 rpm, acc. to ISO 3046

US EPA & CARB Tier 4 Final

A powerful, reliable and economical generating set diesel engine range built on the proven Volvo Group in-line six concept.

## Powerful package

High power density in a compact package with dual stage turbo charging. Excellent load step performance according to ISO 8528-5.

## Low cost of ownership & operation

World class fuel efficiency in combination with a proven and reliable engine and exhaust aftertreatment system design. The exhaust aftertreatment system consists of only SCR, without EGR, DOC or DPF. Minimal of components are used and no downtime for regeneration or decreased service intervals. No EGR also results in less heat rejection, leading to excellent power density and improved fuel economy.

## Compact & simple installation

SCR technology selected by Volvo Group does not increase the amount of cooling capacity needed. In combination with the compact engine design, installation is easy with minor impact on existing installation layout. Installation guidelines as well as drawings and CAD models are easy to access.

## Durability & low noise

Volvo Group's long experience with SCR systems in combination with base engine development reduces risk of downtime. Well-balanced to produce smooth and vibration free operation with low noise.

## Low exhaust emission

Efficient injection as well as robust engine design in combination with SCR technology contributes to excellent combustion and low fuel consumption.

## Easy service & maintenance

Easily accessible service and maintenance points contribute to the ease of service.



- Proven and straight-forward design - built on Volvo Group technology
- Low cost of ownership and operation
- SCR only - no EGR, DOC, DPF or regeneration
- High efficient cooling system
- Excellent step load performance acc. to ISO 8528-5
- Compact, simple installation and easy to service
- Available as Genpac or Base engine configuration

### 60 Hz/1800 rpm

Engine	Prime power			Standby power			Generator eff.
	kWm	kWe	kVa	kWm	kWe	kVa	(%)
TWD1672GE	532	508	635	585	559	698	95,5
TWD1673GE	595	570	713	655	625	781	95,5

**VOLVO  
PENTA**

# TWD1672-1673GE

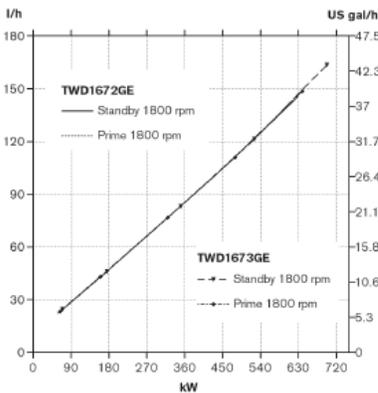
## Technical Data

Engine designation .....	TWD1672-1673GE
Configuration and no. of cylinders .....	in-line 6
Displacement, l (in <sup>3</sup> ) .....	16.12 (983.9)
Method of operation .....	4-stroke
Bore, mm (in.) .....	144 (5.67)
Stroke, mm (in.) .....	165 (6.50)
Compression ratio .....	16.8:1
Wet weight, engine only, kg (lb) .....	1810 (3390)
Wet weight, Genpac (engine, cooling system, air filtration system and frame kg (lb) .....	2767(6100)

### Performance (with fan, kW (hp)) 1800 rpm

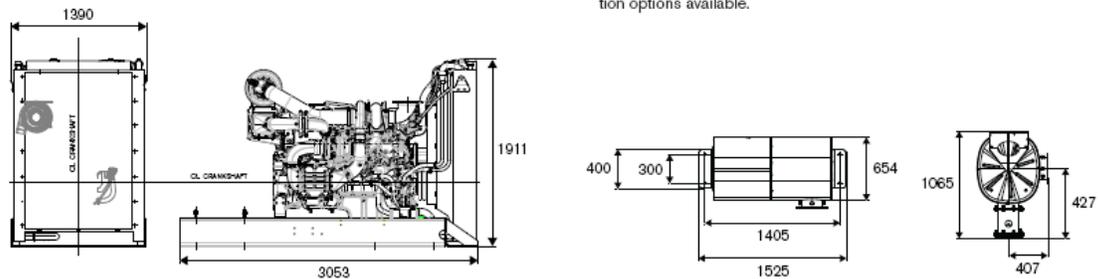
<b>TWD1672GE</b>	
Prime Power	532 (724)
Standby Power	585 (796)
Fan power consumption	30 (41)

<b>TWD1673GE</b>	
Prime Power	595 (809)
Standby Power	655 (891)
Fan power consumption	30 (41)



## Dimensions

Not for installation. Dimensions in mm.



### Rating guidelines

**PRIME POWER** rating corresponds to ISO Standard Power for continuous operation. It is applicable for supplying electrical power at variable load for an unlimited number of hours instead of commercially purchased power. A10 % overload capability for governing purpose is available for this rating.

**STANDBY POWER** rating corresponds to ISO Standard Fuel Stop Power. It is applicable for supplying standby electrical power at variable load in areas with well established electrical networks in the event of normal utility power failure. No overload capability is available for this rating.

1 kW = 1 hp x 1.36  
1 hp = 1 kW x 0.7355

### Power standards

The engine performance corresponds to ISO 3046, BS 5514 and DIN 6271. The technical data applies to an engine without cooling fan and operating on a fuel with calorific value of 42.7 MJ/kg (18360 BTU/lb) and a density of 0.84 kg/liter (7.01 lb/US gal), also where this involves a deviation from the standards. Power output guaranteed within 0 to +2% at rated ambient conditions at delivery. Ratings are based on ISO 8528. Engine speed governing in accordance with ISO 3046/IV, class A1 and ISO 8528-5 class G3

### Additional information

For additional information, please contact your Volvo Penta representative or visit [www.volvopenta.com](http://www.volvopenta.com)

## Technical description

### Engine and block

- Cast iron cylinder block with optimum distribution of forces without the block being unnecessarily heavy.
- Wet, replaceable cylinder liners
- Tapered connecting rods for increased piston lifetime
- Crankshaft induction hardened bearing surfaces and fillets with seven bearings for moderate load on main and high-end bearings
- Case hardened and Nitrocarburized transmission gears for heavy duty operation
- Viscous type crankshaft vibration dampers to withstand single bearing alternator torsional vibrations
- Replaceable valve guides and valve seats
- Over head camshaft and 4 valves per cylinder

### Lubrication system

- Full flow oil cooler
- Full flow disposable spin-on oil filter, for extra high filtration
- The lubricating oil level can be measured at start-up

### Fuel system

- Electronic high pressure unit injectors
- Fuel prefilter with water separator and water-in-fuel indicator / alarm
- Fine fuel filter with manual feed pump and fuel pressure switch

### Cooling system

- Efficient cooling with accurate coolant control through a water distribution duct in the cylinder block.
- Belt driven coolant pumps with high degree of efficiency
- Water-cooled charge air coolers

### Turbo charger

- Efficient and reliable dual stage turbo chargers
- Intermediate charge air coolers for both turbo chargers
- Waste gate system for the high pressure turbo charger

### Electrical system

- Engine Management System 2.3 (EMS 2.3), an electronically controlled processing system which optimizes engine performance. It also includes advanced facilities for diagnostics and fault tracing
- The instruments and controls connect to the engine via the CAN SAE J1939 interface. The DCU is a control panel with display, engine control, monitoring, alarm, parameter setting and diagnostic functions. It also presents error codes in clear text. The DCU makes it possible to install and combine several sets of analogue and digital instruments.
- Sensors for oil pressure, oil temp, boost pressure, boost temp, coolant temp, fuel temp, water in fuel, fuel pressure and two speed sensors.

### Exhaust aftertreatment system

- SCR only. No EGR, DOC, DPF or regeneration. Wide range of installation options available.

# VOLVO PENTA

AB Volvo Penta  
SE-405 08 Göteborg, Sweden  
[www.volvopenta.com](http://www.volvopenta.com)

Not all models, standard equipment and accessories are available in all countries. All specifications are subject to change without notice. The engine illustrated may not be entirely identical to production standard engines.

**Aligned Data Center, Santa Clara, CA - Emergency Backup Generators  
Emissions From Periodic Generator Operation - 120 Engines (50 Hours per Year per Engine)**

**Periodic Generator Load Testing**

Manufacturer/Model	<b>Volvo Penta</b>	<b>TWD1673GE</b>
Engine	18V2000	Tier 4 Engine
Engine Output (kWm) at Full Load	685	
Engine Output (hp) at Full Load	932	
Generator Output (kWe) at Full Load	625	
Total No. Units	120	
Engine Load During Testing	100%	
Engine Output (hp) at Testing Load	932	
Fuel Use (gal/hr) at Testing Load	41	
Fuel Sulfur Content (%)	0.0015	

**Emission Testing Information**

	<b>Max. Daily Operation</b>	<b>Maximum Annual Operation</b>
No. Units Tested. =	120	120
Test Duration/Unit (min) =	60	60
Tests per Period/Unit =	1	50
Operation./Unit (hours) =	1	50
Total Operation (hours) =	120	6000

Pollutant	Emission <sup>1</sup> Factor (g/kW-hr)	Emission Factor (g/hp-hr)	Emission Rate per Unit (lb/hr)	Operational Emissions per Unit			Operational - Total Emissions <sup>2</sup>		
				Daily (lb/day)	Annual (lb/yr)	Annual (ton/yr)	Daily (lb/day)	Annual	
								(lb/yr)	(ton/yr)
NOx	0.31	0.23	0.48	0.48	23.8	0.01	57.04	2,852.1	1.4
HC	0.003	0.00	0.00	0.00	0.2	0.00	0.55	27.6	0.0
CO	0.1	0.07	0.14	0.14	6.9	0.00	16.56	828.0	0.4
PM10	0.018	0.01	0.028	0.03	1.4	0.0007	3.31	165.6	0.1
PM2.5 <sup>3</sup>	0.017	0.010	0.021	0.02	1.0	0.0005	2.47	123.6	0.1
SOx <sup>1a</sup>	-	-	0.009	0.009	0.4	0.0002	1.04	52.0	0.0
CO <sub>2</sub> <sup>1b</sup>	-	22.38 lb/gal	918	918	45,881	22.9	110,115	5,505,740	2,753

Notes: 1) Based on Volvo Penta specification sheet for 685 kW diesel generator set at full engine load (Data Sheet No: 16044).

1a) Calculated based on fuel sulfur content and EPA AP-42 Table 3.4-1 emission factor.

1b) CO2 emission factor from California Climate Action Registry, General Reporting Protocol, Version 3.1, January 2009

2) Based on the number of units operating for the specified time period

3) Based on CARB CEIDERS PM profile for diesel IC engines, PM2.5 fraction of PM = 0.937

## Attachment 3: Health Risk Calculation Methodology

A health risk assessment (HRA) for exposure to Toxic Air Contaminates (TACs) requires the application of a risk characterization model to the results from the air dispersion model to estimate potential health risk at each sensitive receptor location. The State of California Office of Environmental Health Hazard Assessment (OEHHA) and California Air Resources Board (CARB) develop recommended methods for conducting health risk assessments. The most recent OEHHA risk assessment guidelines were published in February of 2015.<sup>1</sup> These guidelines incorporate substantial changes designed to provide for enhanced protection of children, as required by State law, compared to previous published risk assessment guidelines. CARB has provided additional guidance on implementing OEHHA's recommended methods.<sup>2</sup> This HRA used the recent 2015 OEHHA risk assessment guidelines and CARB guidance. The BAAQMD has adopted recommended procedures for applying the newest OEHHA guidelines as part of Regulation 2, Rule 5: New Source Review of Toxic Air Contaminants.<sup>3</sup> Exposure parameters from the OEHHA guidelines and the recent BAAQMD HRA Guidelines were used in this evaluation.

### Cancer Risk

Potential increased cancer risk from inhalation of TACs are calculated based on the TAC concentration over the period of exposure, inhalation dose, the TAC cancer potency factor, and an age sensitivity factor to reflect the greater sensitivity of infants and children to cancer causing TACs. The inhalation dose depends on a person's breathing rate, exposure time and frequency of exposure, and the exposure duration. These parameters vary depending on the age, or age range, of the persons being exposed and whether the exposure is considered to occur at a residential location or other sensitive receptor location.

The current OEHHA guidance recommends that cancer risk be calculated by age groups to account for different breathing rates and sensitivity to TACs. Specifically, they recommend evaluating risks for the third trimester of pregnancy to age zero, ages zero to less than two (infant exposure), ages two to less than 16 (child exposure), and ages 16 to 70 (adult exposure). Age sensitivity factors (ASFs) associated with the different types of exposure are an ASF of 10 for the third trimester and infant exposures, an ASF of 3 for a child exposure, and an ASF of 1 for an adult exposure. Also associated with each exposure type are different breathing rates, expressed as liters per kilogram of body weight per day (L/kg-day). As recommended by the BAAQMD, 95<sup>th</sup> percentile breathing rates are used for the third trimester and infant exposures, and 80<sup>th</sup> percentile breathing rates for child and adult exposures. Additionally, CARB and the BAAQMD recommend the use of a residential exposure duration of 30 years for sources with long-term emissions (e.g., roadways).

Under previous OEHHA and BAAQMD HRA guidance, residential receptors are assumed to be at their home 24 hours a day, or 100 percent of the time. In the 2015 Risk Assessment Guidance, OEHHA includes adjustments to exposure duration to account for the fraction of time at home (FAH), which can be less than 100 percent of the time, based on updated population and activity statistics. The FAH factors are age-specific and are: 0.85 for third trimester of pregnancy to less than 2 years old, 0.72 for ages 2 to less than 16 years, and 0.73 for ages 16 to 70 years. Use of the FAH factors is allowed by the BAAQMD if there are no schools in the project vicinity that would have a cancer risk of one in a million or greater assuming 100 percent exposure (FAH = 1.0).

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<sup>1</sup> OEHHA, 2015. *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. February.

<sup>2</sup> CARB, 2015. *Risk Management Guidance for Stationary Sources of Air Toxics*. July 23.

<sup>3</sup> BAAQMD, 2016. *BAAQMD Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines*. January 2016.

Functionally, cancer risk is calculated using the following parameters and formulas:

$$\text{Cancer Risk (per million)} = \text{CPF} \times \text{Inhalation Dose} \times \text{ASF} \times \text{ED/AT} \times \text{FAH} \times 10^6$$

Where:

- CPF = Cancer potency factor (mg/kg-day)<sup>-1</sup>
- ASF = Age sensitivity factor for specified age group
- ED = Exposure duration (years)
- AT = Averaging time for lifetime cancer risk (years)
- FAH = Fraction of time spent at home (unitless)

$$\text{Inhalation Dose} = C_{\text{air}} \times \text{DBR} \times A \times (\text{EF}/365) \times 10^{-6}$$

Where:

- C<sub>air</sub> = concentration in air (µg/m<sup>3</sup>)
- DBR = daily breathing rate (L/kg body weight-day)
- A = Inhalation absorption factor
- EF = Exposure frequency (days/year)
- 10<sup>-6</sup> = Conversion factor

The health risk parameters used in this evaluation are summarized as follows:

Parameter	Exposure Type →	Infant		Child		Adult
	Age Range →	3 <sup>rd</sup> Trimester	0<2	2 < 9	2 < 16	16 - 30
DPM Cancer Potency Factor (mg/kg-day) <sup>-1</sup>		1.10E+00	1.10E+00	1.10E+00	1.10E+00	1.10E+00
Daily Breathing Rate (L/kg-day)*		361	1,090	631	572	261
Inhalation Absorption Factor		1	1	1	1	1
Averaging Time (years)		70	70	70	70	70
Exposure Duration (years)		0.25	2	14	14	14
Exposure Frequency (days/year)		350	350	350	350	350
Age Sensitivity Factor		10	10	3	3	1
Fraction of Time at Home		0.85-1.0	0.85-1.0	0.72-1.0	0.72-1.0	0.73

\* 95<sup>th</sup> percentile breathing rates for 3<sup>rd</sup> trimester and infants and 80<sup>th</sup> percentile for children and adults

### Non-Cancer Hazards

Potential non-cancer health hazards from TAC exposure are expressed in terms of a hazard index (HI), which is the ratio of the TAC concentration to a reference exposure level (REL). OEHHA has defined acceptable concentration levels for contaminants that pose non-cancer health hazards. TAC concentrations below the REL are not expected to cause adverse health impacts, even for sensitive individuals. The total HI is calculated as the sum of the HIs for each TAC evaluated and the total HI is compared to the BAAQMD significance thresholds to determine whether a significant non-cancer health impact from a project would occur.

Typically, for residential projects located near roadways with substantial TAC emissions, the primary TAC of concern with non-cancer health effects is diesel particulate matter (DPM). For DPM, the chronic inhalation REL is 5 micrograms per cubic meter (µg/m<sup>3</sup>).

### Annual PM<sub>2.5</sub> Concentrations

While not a TAC, fine particulate matter (PM<sub>2.5</sub>) has been identified by the BAAQMD as a pollutant with potential non-cancer health effects that should be included when evaluating potential community health impacts under the California Environmental Quality Act (CEQA). The thresholds of significance for

PM<sub>2.5</sub> (project level and cumulative) are in terms of an increase in the annual average concentration. When considering PM<sub>2.5</sub> impacts, the contribution from all sources of PM<sub>2.5</sub> emissions should be included. For projects with potential impacts from nearby local roadways, the PM<sub>2.5</sub> impacts should include those from vehicle exhaust emissions, PM<sub>2.5</sub> generated from vehicle tire and brake wear, and fugitive emissions from re-suspended dust on the roads.

**Attachment 4: Construction Health Risk Assessment**

- **Dispersion Modeling and Emissions Rates**
- **Cancer Risk Calculations**
- **CalEEMod On- and Near Site Emissions Output**

Aligned Data Center - Santa Clara, CA

DPM Emissions and Modeling Emission Rates

Construction Year	Activity	DPM (ton/year)	Area Source	DPM Emissions			Modeled Area (m <sup>2</sup> )	DPM Emission Rate (g/s/m <sup>2</sup> )
				(lb/yr)	(lb/hr)	(g/s)		
2017-2018	Construction	0.4685	DPM	937.0	0.25671	3.23E-02	62,602	5.17E-07
<b>Total</b>		<b>0.4685</b>		<b>937.0</b>	<b>0.2567</b>	<b>0.0323</b>		

Operation Hours

hr/day = 10 (7am - 5pm)  
 days/yr = 365  
 hours/year = 3650

DPM Construction Emissions and Modeling Emission Rates - With Mitigation

Construction Year	Activity	DPM (ton/year)	Area Source	DPM Emissions			Modeled Area (m <sup>2</sup> )	DPM Emission Rate (g/s/m <sup>2</sup> )
				(lb/yr)	(lb/hr)	(g/s)		
2017-2018	Construction	0.0309	DPM	61.8	0.01694	2.13E-03	62,602	3.41E-08
<b>Total</b>		<b>0.0309</b>		<b>62</b>	<b>0.0169</b>	<b>0.0021</b>		

Construction Hours

hr/day = 10 (7am - 5pm)  
 days/yr = 365  
 hours/year = 3650

Aligned Data Center - Santa Clara, CA

PM2.5 Fugitive Dust Emissions for Modeling

Construction Year	Activity	Area Source	Area (ton/year)	PM2.5 Emissions			Modeled Area (m <sup>2</sup> )	PM2.5 Emission Rate g/s/m <sup>2</sup>
				(lb/yr)	(lb/hr)	(g/s)		
2017-2018	Construction	FUG	0.6070	1214.0	0.33260	4.19E-02	62,602	6.69E-07
<b>Total</b>			<b>0.6070</b>	<b>1214.0</b>	<b>0.3326</b>	<b>0.0419</b>		

Operation Hours

hr/day = 10 (7am - 5pm)  
 days/yr = 365  
 hours/year = 3650

PM2.5 Fugitive Dust Construction Emissions for Modeling - With Mitigation

Construction Year	Activity	Area Source	Area (ton/year)	PM2.5 Emissions			Modeled Area (m <sup>2</sup> )	PM2.5 Emission Rate g/s/m <sup>2</sup>
				(lb/yr)	(lb/hr)	(g/s)		
2017-2018	Construction	FUG	0.3064	612.8	0.16789	2.12E-02	62,602	3.38E-07
<b>Total</b>			<b>0.3064</b>	<b>612.8</b>	<b>0.1679</b>	<b>0.0212</b>		

Construction Hours

hr/day = 10 (7am - 5pm)  
 days/yr = 365  
 hours/year = 3650

**Aligned Data Center - Santa Clara, CA - Construction Impacts - Unmitigated Emissions  
Maximum DPM Cancer Risk and PM2.5 Calculations From Construction  
Impacts at Off-Site MEI Location**

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)<sup>-1</sup>  
 ASF = Age sensitivity factor for specified age group  
 ED = Exposure duration (years)  
 AT = Averaging time for lifetime cancer risk (years)  
 FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C<sub>air</sub> x DBR x A x (EF/365) x 10<sup>-6</sup>

Where: C<sub>air</sub> = concentration in air (µg/m<sup>3</sup>)  
 DBR = daily breathing rate (L/kg body weight-day)  
 A = Inhalation absorption factor  
 EF = Exposure frequency (days/year)  
 10<sup>-6</sup> = Conversion factor

Values

Age --> Parameter	Infant/Child				Adult
	3rd Trimester	0 - 2	2 - 9	2 - 16	16 - 30
ASF =	10	10	3	3	1
CPF =	1.10E+00	1.10E+00	1.10E+00	1.10E+00	1.10E+00
DBR* =	361	1090	631	572	261
A =	1	1	1	1	1
EF =	350	350	350	350	350
AT =	70	70	70	70	70
FAH =	0.85	0.85	0.72	0.72	0.73

\* 95th percentile breathing rates for infants and 80th percentile for children and adults

**Construction Cancer Risk by Year - Maximum Impact Receptor Location**

Exposure Year	Exposure Duration (years)	Age	Infant/Child - Exposure Information			Infant/Child Cancer Risk (per million)	Adult - Exposure Information			Adult Cancer Risk (per million)	Fugitive PM2.5	Total PM2.5
			DPM Conc (ug/m3)		Age Sensitivity Factor		Modeled		Age Sensitivity Factor			
			Year	Annual			Year	Annual				
0	0.25	-0.25 - 0*	-	-	10	-	-	-	-	-	-	-
1	1	0 - 1	2017-2018	0.2071	10	28.92	2017-2018	0.2071	1	0.59	0.3335	0.541
2	1	1 - 2	2020	0.0000	10	0.00	2020	0.0000	1	0.00		
3	1	2 - 3	2021	0.0000	3	0.00	2021	0.0000	1	0.00		
4	1	3 - 4	2022	0.0000	3	0.00	2022	0.0000	1	0.00		
5	1	4 - 5	2023	0.0000	3	0.00	2023	0.0000	1	0.00		
6	1	5 - 6	2024	0.0000	3	0.00	2024	0.0000	1	0.00		
7	1	6 - 7	2025	0.0000	3	0.00	2025	0.0000	1	0.00		
8	1	7 - 8	2026	0.0000	3	0.00	2026	0.0000	1	0.00		
9	1	8 - 9	2027	0.0000	3	0.00	2027	0.0000	1	0.00		
10	1	9 - 10	2028	0.0000	3	0.00	2028	0.0000	1	0.00		
11	1	10 - 11	2029	0.0000	3	0.00	2029	0.0000	1	0.00		
12	1	11 - 12	2030	0.0000	3	0.00	2030	0.0000	1	0.00		
13	1	12 - 13	2031	0.0000	3	0.00	2031	0.0000	1	0.00		
14	1	13 - 14	2032	0.0000	3	0.00	2032	0.0000	1	0.00		
15	1	14 - 15	2033	0.0000	3	0.00	2033	0.0000	1	0.00		
16	1	15 - 16	2034	0.0000	3	0.00	2034	0.0000	1	0.00		
17	1	16-17	2035	0.0000	1	0.00	2035	0.0000	1	0.00		
18	1	17-18	2036	0.0000	1	0.00	2036	0.0000	1	0.00		
19	1	18-19	2037	0.0000	1	0.00	2037	0.0000	1	0.00		
20	1	19-20	2038	0.0000	1	0.00	2038	0.0000	1	0.00		
21	1	20-21	2039	0.0000	1	0.00	2039	0.0000	1	0.00		
22	1	21-22	2040	0.0000	1	0.00	2040	0.0000	1	0.00		
23	1	22-23	2041	0.0000	1	0.00	2041	0.0000	1	0.00		
24	1	23-24	2042	0.0000	1	0.00	2042	0.0000	1	0.00		
25	1	24-25	2043	0.0000	1	0.00	2043	0.0000	1	0.00		
26	1	25-26	2044	0.0000	1	0.00	2044	0.0000	1	0.00		
27	1	26-27	2045	0.0000	1	0.00	2045	0.0000	1	0.00		
28	1	27-28	2046	0.0000	1	0.00	2046	0.0000	1	0.00		
29	1	28-29	2047	0.0000	1	0.00	2047	0.0000	1	0.00		
30	1	29-30	2048	0.0000	1	0.00	2048	0.0000	1	0.00		
<b>Total Increased Cancer Risk</b>						<b>28.9</b>				<b>0.59</b>		

\* Third trimester of pregnancy

**Aligned Data Center - Santa Clara, CA - Construction Impacts - Mitigated Emissions**  
**Maximum DPM Cancer Risk and PM2.5 Calculations From Construction**  
**Impacts at Off-Site MEI Location**

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

- Where: CPF = Cancer potency factor (mg/kg-day)<sup>-1</sup>  
 ASF = Age sensitivity factor for specified age group  
 ED = Exposure duration (years)  
 AT = Averaging time for lifetime cancer risk (years)  
 FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C<sub>air</sub> x DBR x A x (EF/365) x 10<sup>-6</sup>

- Where: C<sub>air</sub> = concentration in air (µg/m<sup>3</sup>)  
 DBR = daily breathing rate (L/kg body weight-day)  
 A = Inhalation absorption factor  
 EF = Exposure frequency (days/year)  
 10<sup>-6</sup> = Conversion factor

**Values**

Parameter	Infant/Child				Adult
	3rd Trimester	0 - 2	2 - 9	2 - 16	16 - 30
ASF =	10	10	3	3	1
CPF =	1.10E+00	1.10E+00	1.10E+00	1.10E+00	1.10E+00
DBR* =	361	1090	631	572	261
A =	1	1	1	1	1
EF =	350	350	350	350	350
AT =	70	70	70	70	70
FAH =	0.85	0.85	0.72	0.72	0.73

\* 95th percentile breathing rates for infants and 80th percentile for children and adults

**Construction Cancer Risk by Year - Maximum Impact Receptor Location**

Exposure Year	Exposure Duration (years)	Age	Infant/Child - Exposure Information			Infant/Child Cancer Risk (per million)	Adult - Exposure Information			Adult Cancer Risk (per million)	Fugitive PM2.5	Total PM2.5
			DPM Conc (ug/m3)		Age Sensitivity Factor		Modeled DPM Conc (ug/m3)		Age Sensitivity Factor			
			Year	Annual	Factor		Year	Annual	Factor			
0	0.25	-0.25 - 0*	-	-	10	-	-	-	-	-	-	-
1	1	0 - 1	2017-2018	0.0137	10	1.91	2017-2018	0.0137	1	0.04	0.1685	0.182
2	1	1 - 2	2020	0.0000	10	0.00	2020	0.0000	1	0.00		
3	1	2 - 3	2021	0.0000	3	0.00	2021	0.0000	1	0.00		
4	1	3 - 4	2022	0.0000	3	0.00	2022	0.0000	1	0.00		
5	1	4 - 5	2023	0.0000	3	0.00	2023	0.0000	1	0.00		
6	1	5 - 6	2024	0.0000	3	0.00	2024	0.0000	1	0.00		
7	1	6 - 7	2025	0.0000	3	0.00	2025	0.0000	1	0.00		
8	1	7 - 8	2026	0.0000	3	0.00	2026	0.0000	1	0.00		
9	1	8 - 9	2027	0.0000	3	0.00	2027	0.0000	1	0.00		
10	1	9 - 10	2028	0.0000	3	0.00	2028	0.0000	1	0.00		
11	1	10 - 11	2029	0.0000	3	0.00	2029	0.0000	1	0.00		
12	1	11 - 12	2030	0.0000	3	0.00	2030	0.0000	1	0.00		
13	1	12 - 13	2031	0.0000	3	0.00	2031	0.0000	1	0.00		
14	1	13 - 14	2032	0.0000	3	0.00	2032	0.0000	1	0.00		
15	1	14 - 15	2033	0.0000	3	0.00	2033	0.0000	1	0.00		
16	1	15 - 16	2034	0.0000	3	0.00	2034	0.0000	1	0.00		
17	1	16-17	2035	0.0000	1	0.00	2035	0.0000	1	0.00		
18	1	17-18	2036	0.0000	1	0.00	2036	0.0000	1	0.00		
19	1	18-19	2037	0.0000	1	0.00	2037	0.0000	1	0.00		
20	1	19-20	2038	0.0000	1	0.00	2038	0.0000	1	0.00		
21	1	20-21	2039	0.0000	1	0.00	2039	0.0000	1	0.00		
22	1	21-22	2040	0.0000	1	0.00	2040	0.0000	1	0.00		
23	1	22-23	2041	0.0000	1	0.00	2041	0.0000	1	0.00		
24	1	23-24	2042	0.0000	1	0.00	2042	0.0000	1	0.00		
25	1	24-25	2043	0.0000	1	0.00	2043	0.0000	1	0.00		
26	1	25-26	2044	0.0000	1	0.00	2044	0.0000	1	0.00		
27	1	26-27	2045	0.0000	1	0.00	2045	0.0000	1	0.00		
28	1	27-28	2046	0.0000	1	0.00	2046	0.0000	1	0.00		
29	1	28-29	2047	0.0000	1	0.00	2047	0.0000	1	0.00		
30	1	29-30	2048	0.0000	1	0.00	2048	0.0000	1	0.00		
<b>Total Increased Cancer Risk</b>						<b>1.9</b>				<b>0.04</b>		

\* Third trimester of pregnancy



tblConstEquipMitigation	DPF	No Change	Level 2
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tblGrading	MaterialImported	0.00	46,000.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
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tblTripsAndVMT	HaulingTripNumber	0.00	13,000.00
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tblTripsAndVMT	VendorTripLength	7.30	0.50
tblTripsAndVMT	VendorTripLength	7.30	0.50
tblTripsAndVMT	VendorTripLength	7.30	0.50
tblTripsAndVMT	VendorTripLength	7.30	0.50
tblTripsAndVMT	VendorTripLength	7.30	0.50
tblTripsAndVMT	VendorTripLength	7.30	0.50
tblTripsAndVMT	WorkerTripLength	10.80	0.50
tblTripsAndVMT	WorkerTripLength	10.80	0.50
tblTripsAndVMT	WorkerTripLength	10.80	0.50
tblTripsAndVMT	WorkerTripLength	10.80	0.50
tblTripsAndVMT	WorkerTripLength	10.80	0.50
tblTripsAndVMT	WorkerTripLength	10.80	0.50
tblTripsAndVMT	WorkerTripLength	10.80	0.50
tblTripsAndVMT	WorkerTripLength	10.80	0.50

## 2.0 Emissions Summary

### 2.1 Overall Construction Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.3744	3.7535	2.0753	3.6400e-003	0.5449	0.1982	0.7431	0.2260	0.1870	0.4130	0.0000	329.9264	329.9264	0.0751	0.0000	331.8049
2018	2.6953	6.4421	3.7333	7.1200e-003	0.4559	0.2706	0.7264	0.2130	0.2531	0.4661	0.0000	643.4237	643.4237	0.1546	0.0000	647.2895
<b>Maximum</b>	<b>2.6953</b>	<b>6.4421</b>	<b>3.7333</b>	<b>7.1200e-003</b>	<b>0.5449</b>	<b>0.2706</b>	<b>0.7431</b>	<b>0.2260</b>	<b>0.2531</b>	<b>0.4661</b>	<b>0.0000</b>	<b>643.4237</b>	<b>643.4237</b>	<b>0.1546</b>	<b>0.0000</b>	<b>647.2895</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.1254	3.0704	2.1629	3.6400e-003	0.5449	0.0487	0.5936	0.1136	0.0486	0.1622	0.0000	329.9260	329.9260	0.0751	0.0000	331.8046
2018	2.3449	6.0650	3.8710	7.1200e-003	0.4559	0.0828	0.5387	0.1089	0.0827	0.1916	0.0000	643.4231	643.4231	0.1546	0.0000	647.2889
<b>Maximum</b>	<b>2.3449</b>	<b>6.0650</b>	<b>3.8710</b>	<b>7.1200e-003</b>	<b>0.5449</b>	<b>0.0828</b>	<b>0.5936</b>	<b>0.1136</b>	<b>0.0827</b>	<b>0.1916</b>	<b>0.0000</b>	<b>643.4231</b>	<b>643.4231</b>	<b>0.1546</b>	<b>0.0000</b>	<b>647.2889</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>19.53</b>	<b>10.40</b>	<b>-3.88</b>	<b>0.00</b>	<b>0.00</b>	<b>71.95</b>	<b>22.95</b>	<b>49.32</b>	<b>70.16</b>	<b>59.75</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-1-2017	11-30-2017	2.5634	1.9859
2	12-1-2017	2-28-2018	4.9249	4.2214
3	3-1-2018	5-31-2018	1.4720	1.3090
4	6-1-2018	8-31-2018	2.2952	2.1761
5	9-1-2018	9-30-2018	0.7188	0.6769
		<b>Highest</b>	<b>4.9249</b>	<b>4.2214</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2017	1/18/2018	5	100	
2	Site Preparation	Site Preparation	11/15/2017	3/6/2018	5	80	
3	Trenching	Trenching	12/15/2017	3/8/2018	5	60	
4	Building Construction	Building Construction	12/15/2017	11/15/2018	5	240	
5	Grading	Grading	1/15/2018	2/9/2018	5	20	
6	Architectural Coating	Architectural Coating	5/15/2018	11/26/2018	5	140	
7	Paving	Paving	7/11/2018	7/24/2018	5	10	

**Acres of Grading (Site Preparation Phase): 40**

**Acres of Grading (Grading Phase): 50**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 600,000; Non-Residential Outdoor: 200,000; Striped Parking**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	4	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	2.00	85	0.78
Demolition	Excavators	4	4.00	158	0.38
Demolition	Rubber Tired Dozers	4	4.80	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	4.80	97	0.37
Site Preparation	Graders	2	4.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	4.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	4.00	97	0.37
Trenching	Excavators	3	8.00	158	0.38
Trenching	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Building Construction	Cranes	3	4.20	231	0.29
Building Construction	Forklifts	2	10.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	4	5.00	46	0.45
Grading	Excavators	3	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Architectural Coating	Aerial Lifts	1	6.00	63	0.31
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	15	38.00	0.00	2,633.00	0.50	0.50	0.50	LD_Mix	HDT_Mix	HHDT
Site Preparation	9	23.00	0.00	2,801.00	0.50	0.50	0.50	LD_Mix	HDT_Mix	HHDT
Trenching	7	18.00	0.00	0.00	0.50	0.50	0.50	LD_Mix	HDT_Mix	HHDT
Building Construction	10	168.00	66.00	13,000.00	0.50	0.50	0.50	LD_Mix	HDT_Mix	HHDT
Grading	10	25.00	0.00	5,750.00	0.50	0.50	0.50	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	34.00	0.00	0.00	0.50	0.50	0.50	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	0.50	0.50	0.50	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Replace Ground Cover
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

### 3.2 Demolition - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1566	0.0000	0.1566	0.0237	0.0000	0.0237	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2818	2.6597	1.5805	2.6400e-003		0.1528	0.1528		0.1451	0.1451	0.0000	236.8629	236.8629	0.0511	0.0000	238.1392
<b>Total</b>	<b>0.2818</b>	<b>2.6597</b>	<b>1.5805</b>	<b>2.6400e-003</b>	<b>0.1566</b>	<b>0.1528</b>	<b>0.3094</b>	<b>0.0237</b>	<b>0.1451</b>	<b>0.1688</b>	<b>0.0000</b>	<b>236.8629</b>	<b>236.8629</b>	<b>0.0511</b>	<b>0.0000</b>	<b>238.1392</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.1200e-003	0.1213	0.0230	1.3000e-004	5.6000e-004	1.9000e-004	7.6000e-004	1.5000e-004	1.9000e-004	3.4000e-004	0.0000	12.4789	12.4789	1.8900e-003	0.0000	12.5261
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2600e-003	1.0300e-003	0.0134	1.0000e-005	6.2000e-004	1.0000e-005	6.3000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.9042	0.9042	7.0000e-005	0.0000	0.9060
<b>Total</b>	<b>5.3800e-003</b>	<b>0.1224</b>	<b>0.0364</b>	<b>1.4000e-004</b>	<b>1.1800e-003</b>	<b>2.0000e-004</b>	<b>1.3900e-003</b>	<b>3.2000e-004</b>	<b>2.0000e-004</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>13.3832</b>	<b>13.3832</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>13.4321</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1566	0.0000	0.1566	0.0119	0.0000	0.0119	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0905	2.1929	1.6356	2.6400e-003		0.0382	0.0382		0.0382	0.0382	0.0000	236.8626	236.8626	0.0511	0.0000	238.1389
<b>Total</b>	<b>0.0905</b>	<b>2.1929</b>	<b>1.6356</b>	<b>2.6400e-003</b>	<b>0.1566</b>	<b>0.0382</b>	<b>0.1948</b>	<b>0.0119</b>	<b>0.0382</b>	<b>0.0501</b>	<b>0.0000</b>	<b>236.8626</b>	<b>236.8626</b>	<b>0.0511</b>	<b>0.0000</b>	<b>238.1389</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.1200e-003	0.1213	0.0230	1.3000e-004	5.6000e-004	1.9000e-004	7.6000e-004	1.5000e-004	1.9000e-004	3.4000e-004	0.0000	12.4789	12.4789	1.8900e-003	0.0000	12.5261
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2600e-003	1.0300e-003	0.0134	1.0000e-005	6.2000e-004	1.0000e-005	6.3000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.9042	0.9042	7.0000e-005	0.0000	0.9060
<b>Total</b>	<b>5.3800e-003</b>	<b>0.1224</b>	<b>0.0364</b>	<b>1.4000e-004</b>	<b>1.1800e-003</b>	<b>2.0000e-004</b>	<b>1.3900e-003</b>	<b>3.2000e-004</b>	<b>2.0000e-004</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>13.3832</b>	<b>13.3832</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>13.4321</b>

**3.2 Demolition - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0255	0.0000	0.0255	3.8600e-003	0.0000	3.8600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0416	0.3940	0.2510	4.3000e-004		0.0220	0.0220		0.0209	0.0209	0.0000	38.2015	38.2015	8.1400e-003	0.0000	38.4050
<b>Total</b>	<b>0.0416</b>	<b>0.3940</b>	<b>0.2510</b>	<b>4.3000e-004</b>	<b>0.0255</b>	<b>0.0220</b>	<b>0.0475</b>	<b>3.8600e-003</b>	<b>0.0209</b>	<b>0.0247</b>	<b>0.0000</b>	<b>38.2015</b>	<b>38.2015</b>	<b>8.1400e-003</b>	<b>0.0000</b>	<b>38.4050</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.5000e-004	0.0193	3.3800e-003	2.0000e-005	4.4000e-004	2.0000e-005	4.6000e-004	1.1000e-004	2.0000e-005	1.3000e-004	0.0000	2.0732	2.0732	2.8000e-004	0.0000	2.0803
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	1.5000e-004	1.9100e-003	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1433	0.1433	1.0000e-005	0.0000	0.1436
<b>Total</b>	<b>7.8000e-004</b>	<b>0.0194</b>	<b>5.2900e-003</b>	<b>2.0000e-005</b>	<b>5.4000e-004</b>	<b>2.0000e-005</b>	<b>5.6000e-004</b>	<b>1.4000e-004</b>	<b>2.0000e-005</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>2.2165</b>	<b>2.2165</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>2.2239</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0255	0.0000	0.0255	1.9300e-003	0.0000	1.9300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.3570	0.2663	4.3000e-004		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	38.2015	38.2015	8.1400e-003	0.0000	38.4050
<b>Total</b>	<b>0.0147</b>	<b>0.3570</b>	<b>0.2663</b>	<b>4.3000e-004</b>	<b>0.0255</b>	<b>6.2200e-003</b>	<b>6.2200e-003</b>	<b>1.9300e-003</b>	<b>6.2200e-003</b>	<b>8.1500e-003</b>	<b>0.0000</b>	<b>38.2015</b>	<b>38.2015</b>	<b>8.1400e-003</b>	<b>0.0000</b>	<b>38.4050</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.5000e-004	0.0193	3.3800e-003	2.0000e-005	4.4000e-004	2.0000e-005	4.6000e-004	1.1000e-004	2.0000e-005	1.3000e-004	0.0000	2.0732	2.0732	2.8000e-004	0.0000	2.0803
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	1.5000e-004	1.9100e-003	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1433	0.1433	1.0000e-005	0.0000	0.1436
<b>Total</b>	<b>7.8000e-004</b>	<b>0.0194</b>	<b>5.2900e-003</b>	<b>2.0000e-005</b>	<b>5.4000e-004</b>	<b>2.0000e-005</b>	<b>5.6000e-004</b>	<b>1.4000e-004</b>	<b>2.0000e-005</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>2.2165</b>	<b>2.2165</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>2.2239</b>

**3.3 Site Preparation - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3838	0.0000	0.3838	0.2011	0.0000	0.2011	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0523	0.5901	0.2352	4.6000e-004		0.0289	0.0289		0.0266	0.0266	0.0000	42.2917	42.2917	0.0130	0.0000	42.6156
<b>Total</b>	<b>0.0523</b>	<b>0.5901</b>	<b>0.2352</b>	<b>4.6000e-004</b>	<b>0.3838</b>	<b>0.0289</b>	<b>0.4127</b>	<b>0.2011</b>	<b>0.0266</b>	<b>0.2277</b>	<b>0.0000</b>	<b>42.2917</b>	<b>42.2917</b>	<b>0.0130</b>	<b>0.0000</b>	<b>42.6156</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5900e-003	0.0619	0.0117	7.0000e-005	5.2000e-004	1.0000e-004	6.2000e-004	1.4000e-004	9.0000e-005	2.3000e-004	0.0000	6.3674	6.3674	9.6000e-004	0.0000	6.3915
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3000e-004	2.4000e-004	3.1000e-003	0.0000	1.4000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.2100	0.2100	2.0000e-005	0.0000	0.2104
<b>Total</b>	<b>2.1200e-003</b>	<b>0.0621</b>	<b>0.0148</b>	<b>7.0000e-005</b>	<b>6.6000e-004</b>	<b>1.0000e-004</b>	<b>7.7000e-004</b>	<b>1.8000e-004</b>	<b>9.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>6.5775</b>	<b>6.5775</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>6.6019</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3838	0.0000	0.3838	0.1006	0.0000	0.1006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0134	0.3975	0.2642	4.6000e-004		5.1700e-003	5.1700e-003		5.1700e-003	5.1700e-003	0.0000	42.2916	42.2916	0.0130	0.0000	42.6156
<b>Total</b>	<b>0.0134</b>	<b>0.3975</b>	<b>0.2642</b>	<b>4.6000e-004</b>	<b>0.3838</b>	<b>5.1700e-003</b>	<b>0.3890</b>	<b>0.1006</b>	<b>5.1700e-003</b>	<b>0.1057</b>	<b>0.0000</b>	<b>42.2916</b>	<b>42.2916</b>	<b>0.0130</b>	<b>0.0000</b>	<b>42.6156</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5900e-003	0.0619	0.0117	7.0000e-005	5.2000e-004	1.0000e-004	6.2000e-004	1.4000e-004	9.0000e-005	2.3000e-004	0.0000	6.3674	6.3674	9.6000e-004	0.0000	6.3915
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3000e-004	2.4000e-004	3.1000e-003	0.0000	1.4000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.2100	0.2100	2.0000e-005	0.0000	0.2104
<b>Total</b>	<b>2.1200e-003</b>	<b>0.0621</b>	<b>0.0148</b>	<b>7.0000e-005</b>	<b>6.6000e-004</b>	<b>1.0000e-004</b>	<b>7.7000e-004</b>	<b>1.8000e-004</b>	<b>9.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>6.5775</b>	<b>6.5775</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>6.6019</b>

**3.3 Site Preparation - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3838	0.0000	0.3838	0.2011	0.0000	0.2011	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0694	0.7822	0.3221	6.5000e-004		0.0373	0.0373		0.0343	0.0343	0.0000	59.2476	59.2476	0.0184	0.0000	59.7087
<b>Total</b>	<b>0.0694</b>	<b>0.7822</b>	<b>0.3221</b>	<b>6.5000e-004</b>	<b>0.3838</b>	<b>0.0373</b>	<b>0.4211</b>	<b>0.2011</b>	<b>0.0343</b>	<b>0.2354</b>	<b>0.0000</b>	<b>59.2476</b>	<b>59.2476</b>	<b>0.0184</b>	<b>0.0000</b>	<b>59.7087</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0100e-003	0.0860	0.0151	1.0000e-004	5.5000e-004	1.0000e-004	6.5000e-004	1.5000e-004	9.0000e-005	2.4000e-004	0.0000	9.2551	9.2551	1.2700e-003	0.0000	9.2868
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-004	2.9000e-004	3.8800e-003	0.0000	2.0000e-004	0.0000	2.1000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.2912	0.2912	2.0000e-005	0.0000	0.2917
<b>Total</b>	<b>2.6800e-003</b>	<b>0.0863</b>	<b>0.0190</b>	<b>1.0000e-004</b>	<b>7.5000e-004</b>	<b>1.0000e-004</b>	<b>8.6000e-004</b>	<b>2.0000e-004</b>	<b>9.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>9.5464</b>	<b>9.5464</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>9.5785</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3838	0.0000	0.3838	0.1006	0.0000	0.1006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0191	0.5662	0.3763	6.5000e-004		7.3600e-003	7.3600e-003		7.3600e-003	7.3600e-003	0.0000	59.2475	59.2475	0.0184	0.0000	59.7086
<b>Total</b>	<b>0.0191</b>	<b>0.5662</b>	<b>0.3763</b>	<b>6.5000e-004</b>	<b>0.3838</b>	<b>7.3600e-003</b>	<b>0.3912</b>	<b>0.1006</b>	<b>7.3600e-003</b>	<b>0.1079</b>	<b>0.0000</b>	<b>59.2475</b>	<b>59.2475</b>	<b>0.0184</b>	<b>0.0000</b>	<b>59.7086</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0100e-003	0.0860	0.0151	1.0000e-004	5.5000e-004	1.0000e-004	6.5000e-004	1.5000e-004	9.0000e-005	2.4000e-004	0.0000	9.2551	9.2551	1.2700e-003	0.0000	9.2868
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-004	2.9000e-004	3.8800e-003	0.0000	2.0000e-004	0.0000	2.1000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.2912	0.2912	2.0000e-005	0.0000	0.2917
<b>Total</b>	<b>2.6800e-003</b>	<b>0.0863</b>	<b>0.0190</b>	<b>1.0000e-004</b>	<b>7.5000e-004</b>	<b>1.0000e-004</b>	<b>8.6000e-004</b>	<b>2.0000e-004</b>	<b>9.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>9.5464</b>	<b>9.5464</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>9.5785</b>

**3.4 Trenching - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0128	0.1316	0.1077	1.5000e-004		8.2200e-003	8.2200e-003		7.5600e-003	7.5600e-003	0.0000	14.2538	14.2538	4.3700e-003	0.0000	14.3630
<b>Total</b>	<b>0.0128</b>	<b>0.1316</b>	<b>0.1077</b>	<b>1.5000e-004</b>		<b>8.2200e-003</b>	<b>8.2200e-003</b>		<b>7.5600e-003</b>	<b>7.5600e-003</b>	<b>0.0000</b>	<b>14.2538</b>	<b>14.2538</b>	<b>4.3700e-003</b>	<b>0.0000</b>	<b>14.3630</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	6.0000e-005	8.1000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0548	0.0548	0.0000	0.0000	0.0549
<b>Total</b>	<b>1.4000e-004</b>	<b>6.0000e-005</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0548</b>	<b>0.0548</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0549</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5200e-003	0.1390	0.1162	1.5000e-004		3.0100e-003	3.0100e-003		3.0100e-003	3.0100e-003	0.0000	14.2538	14.2538	4.3700e-003	0.0000	14.3630
<b>Total</b>	<b>6.5200e-003</b>	<b>0.1390</b>	<b>0.1162</b>	<b>1.5000e-004</b>		<b>3.0100e-003</b>	<b>3.0100e-003</b>		<b>3.0100e-003</b>	<b>3.0100e-003</b>	<b>0.0000</b>	<b>14.2538</b>	<b>14.2538</b>	<b>4.3700e-003</b>	<b>0.0000</b>	<b>14.3630</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	6.0000e-005	8.1000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0548	0.0548	0.0000	0.0000	0.0549
<b>Total</b>	<b>1.4000e-004</b>	<b>6.0000e-005</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0548</b>	<b>0.0548</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0549</b>

**3.4 Trenching - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0473	0.4853	0.4698	6.8000e-004		0.0293	0.0293		0.0270	0.0270	0.0000	62.4520	62.4520	0.0194	0.0000	62.9381
<b>Total</b>	<b>0.0473</b>	<b>0.4853</b>	<b>0.4698</b>	<b>6.8000e-004</b>		<b>0.0293</b>	<b>0.0293</b>		<b>0.0270</b>	<b>0.0270</b>	<b>0.0000</b>	<b>62.4520</b>	<b>62.4520</b>	<b>0.0194</b>	<b>0.0000</b>	<b>62.9381</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	2.4000e-004	3.1700e-003	0.0000	1.7000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.2376	0.2376	2.0000e-005	0.0000	0.2380	
<b>Total</b>	<b>5.4000e-004</b>	<b>2.4000e-004</b>	<b>3.1700e-003</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.2376</b>	<b>0.2376</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.2380</b>	

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0291	0.6192	0.5175	6.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	62.4519	62.4519	0.0194	0.0000	62.9380
<b>Total</b>	<b>0.0291</b>	<b>0.6192</b>	<b>0.5175</b>	<b>6.8000e-004</b>		<b>0.0134</b>	<b>0.0134</b>		<b>0.0134</b>	<b>0.0134</b>	<b>0.0000</b>	<b>62.4519</b>	<b>62.4519</b>	<b>0.0194</b>	<b>0.0000</b>	<b>62.9380</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	2.4000e-004	3.1700e-003	0.0000	1.7000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.2376	0.2376	2.0000e-005	0.0000	0.2380
<b>Total</b>	<b>5.4000e-004</b>	<b>2.4000e-004</b>	<b>3.1700e-003</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.2376</b>	<b>0.2376</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.2380</b>

**3.5 Building Construction - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0168	0.1297	0.0778	1.2000e-004		7.8100e-003	7.8100e-003		7.3300e-003	7.3300e-003	0.0000	10.3647	10.3647	2.9400e-003	0.0000	10.4383
<b>Total</b>	<b>0.0168</b>	<b>0.1297</b>	<b>0.0778</b>	<b>1.2000e-004</b>		<b>7.8100e-003</b>	<b>7.8100e-003</b>		<b>7.3300e-003</b>	<b>7.3300e-003</b>	<b>0.0000</b>	<b>10.3647</b>	<b>10.3647</b>	<b>2.9400e-003</b>	<b>0.0000</b>	<b>10.4383</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.2000e-004	0.0319	6.0500e-003	3.0000e-005	2.1000e-003	5.0000e-005	2.1500e-003	5.2000e-004	5.0000e-005	5.7000e-004	0.0000	3.2836	3.2836	5.0000e-004	0.0000	3.2960
Vendor	8.9000e-004	0.0253	8.5700e-003	2.0000e-005	1.7000e-004	6.0000e-005	2.3000e-004	5.0000e-005	6.0000e-005	1.1000e-004	0.0000	2.3429	2.3429	3.5000e-004	0.0000	2.3516
Worker	1.2800e-003	5.8000e-004	7.5500e-003	1.0000e-005	3.5000e-004	1.0000e-005	3.6000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.5113	0.5113	4.0000e-005	0.0000	0.5124
<b>Total</b>	<b>2.9900e-003</b>	<b>0.0578</b>	<b>0.0222</b>	<b>6.0000e-005</b>	<b>2.6200e-003</b>	<b>1.2000e-004</b>	<b>2.7400e-003</b>	<b>6.6000e-004</b>	<b>1.2000e-004</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>6.1379</b>	<b>6.1379</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>6.1600</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2800e-003	0.0986	0.0728	1.2000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	10.3647	10.3647	2.9400e-003	0.0000	10.4383
<b>Total</b>	<b>4.2800e-003</b>	<b>0.0986</b>	<b>0.0728</b>	<b>1.2000e-004</b>		<b>1.8200e-003</b>	<b>1.8200e-003</b>		<b>1.8200e-003</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>10.3647</b>	<b>10.3647</b>	<b>2.9400e-003</b>	<b>0.0000</b>	<b>10.4383</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.2000e-004	0.0319	6.0500e-003	3.0000e-005	2.1000e-003	5.0000e-005	2.1500e-003	5.2000e-004	5.0000e-005	5.7000e-004	0.0000	3.2836	3.2836	5.0000e-004	0.0000	3.2960
Vendor	8.9000e-004	0.0253	8.5700e-003	2.0000e-005	1.7000e-004	6.0000e-005	2.3000e-004	5.0000e-005	6.0000e-005	1.1000e-004	0.0000	2.3429	2.3429	3.5000e-004	0.0000	2.3516
Worker	1.2800e-003	5.8000e-004	7.5500e-003	1.0000e-005	3.5000e-004	1.0000e-005	3.6000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.5113	0.5113	4.0000e-005	0.0000	0.5124
<b>Total</b>	<b>2.9900e-003</b>	<b>0.0578</b>	<b>0.0222</b>	<b>6.0000e-005</b>	<b>2.6200e-003</b>	<b>1.2000e-004</b>	<b>2.7400e-003</b>	<b>6.6000e-004</b>	<b>1.2000e-004</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>6.1379</b>	<b>6.1379</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>6.1600</b>

**3.5 Building Construction - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3032	2.3880	1.5343	2.4800e-003		0.1377	0.1377		0.1293	0.1293	0.0000	213.1661	213.1661	0.0599	0.0000	214.6642
<b>Total</b>	<b>0.3032</b>	<b>2.3880</b>	<b>1.5343</b>	<b>2.4800e-003</b>		<b>0.1377</b>	<b>0.1377</b>		<b>0.1293</b>	<b>0.1293</b>	<b>0.0000</b>	<b>213.1661</b>	<b>213.1661</b>	<b>0.0599</b>	<b>0.0000</b>	<b>214.6642</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0151	0.6480	0.1136	7.2000e-004	2.8500e-003	7.5000e-004	3.6000e-003	7.9000e-004	7.1000e-004	1.5100e-003	0.0000	69.7638	69.7638	9.5400e-003	0.0000	70.0023
Vendor	0.0164	0.5129	0.1602	5.2000e-004	3.5900e-003	1.0000e-003	4.5900e-003	1.0600e-003	9.6000e-004	2.0200e-003	0.0000	49.6001	49.6001	6.6300e-003	0.0000	49.7659
Worker	0.0237	0.0105	0.1381	1.2000e-004	7.2400e-003	1.6000e-004	7.4100e-003	1.9500e-003	1.5000e-004	2.1000e-003	0.0000	10.3642	10.3642	7.3000e-004	0.0000	10.3825
<b>Total</b>	<b>0.0552</b>	<b>1.1713</b>	<b>0.4119</b>	<b>1.3600e-003</b>	<b>0.0137</b>	<b>1.9100e-003</b>	<b>0.0156</b>	<b>3.8000e-003</b>	<b>1.8200e-003</b>	<b>5.6300e-003</b>	<b>0.0000</b>	<b>129.7281</b>	<b>129.7281</b>	<b>0.0169</b>	<b>0.0000</b>	<b>130.1507</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0891	2.0532	1.5161	2.4800e-003		0.0379	0.0379		0.0379	0.0379	0.0000	213.1659	213.1659	0.0599	0.0000	214.6639
<b>Total</b>	<b>0.0891</b>	<b>2.0532</b>	<b>1.5161</b>	<b>2.4800e-003</b>		<b>0.0379</b>	<b>0.0379</b>		<b>0.0379</b>	<b>0.0379</b>	<b>0.0000</b>	<b>213.1659</b>	<b>213.1659</b>	<b>0.0599</b>	<b>0.0000</b>	<b>214.6639</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0151	0.6480	0.1136	7.2000e-004	2.8500e-003	7.5000e-004	3.6000e-003	7.9000e-004	7.1000e-004	1.5100e-003	0.0000	69.7638	69.7638	9.5400e-003	0.0000	70.0023
Vendor	0.0164	0.5129	0.1602	5.2000e-004	3.5900e-003	1.0000e-003	4.5900e-003	1.0600e-003	9.6000e-004	2.0200e-003	0.0000	49.6001	49.6001	6.6300e-003	0.0000	49.7659
Worker	0.0237	0.0105	0.1381	1.2000e-004	7.2400e-003	1.6000e-004	7.4100e-003	1.9500e-003	1.5000e-004	2.1000e-003	0.0000	10.3642	10.3642	7.3000e-004	0.0000	10.3825
<b>Total</b>	<b>0.0552</b>	<b>1.1713</b>	<b>0.4119</b>	<b>1.3600e-003</b>	<b>0.0137</b>	<b>1.9100e-003</b>	<b>0.0156</b>	<b>3.8000e-003</b>	<b>1.8200e-003</b>	<b>5.6300e-003</b>	<b>0.0000</b>	<b>129.7281</b>	<b>129.7281</b>	<b>0.0169</b>	<b>0.0000</b>	<b>130.1507</b>

**3.6 Grading - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0291	0.0000	0.0291	3.2600e-003	0.0000	3.2600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.5532	0.3866	6.5000e-004		0.0255	0.0255		0.0234	0.0234	0.0000	59.2337	59.2337	0.0184	0.0000	59.6947
<b>Total</b>	<b>0.0475</b>	<b>0.5532</b>	<b>0.3866</b>	<b>6.5000e-004</b>	<b>0.0291</b>	<b>0.0255</b>	<b>0.0546</b>	<b>3.2600e-003</b>	<b>0.0234</b>	<b>0.0267</b>	<b>0.0000</b>	<b>59.2337</b>	<b>59.2337</b>	<b>0.0184</b>	<b>0.0000</b>	<b>59.6947</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0200e-003	0.3004	0.0527	3.4000e-004	1.2800e-003	3.5000e-004	1.6200e-003	3.6000e-004	3.3000e-004	6.9000e-004	0.0000	32.3393	32.3393	4.4200e-003	0.0000	32.4499
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	1.4000e-004	1.7900e-003	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1347	0.1347	1.0000e-005	0.0000	0.1349
<b>Total</b>	<b>7.3300e-003</b>	<b>0.3005</b>	<b>0.0545</b>	<b>3.4000e-004</b>	<b>1.3700e-003</b>	<b>3.5000e-004</b>	<b>1.7200e-003</b>	<b>3.9000e-004</b>	<b>3.3000e-004</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>32.4740</b>	<b>32.4740</b>	<b>4.4300e-003</b>	<b>0.0000</b>	<b>32.5848</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0291	0.0000	0.0291	1.6300e-003	0.0000	1.6300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0209	0.5444	0.4079	6.5000e-004		8.8100e-003	8.8100e-003		8.8100e-003	8.8100e-003	0.0000	59.2336	59.2336	0.0184	0.0000	59.6946
<b>Total</b>	<b>0.0209</b>	<b>0.5444</b>	<b>0.4079</b>	<b>6.5000e-004</b>	<b>0.0291</b>	<b>8.8100e-003</b>	<b>0.0379</b>	<b>1.6300e-003</b>	<b>8.8100e-003</b>	<b>0.0104</b>	<b>0.0000</b>	<b>59.2336</b>	<b>59.2336</b>	<b>0.0184</b>	<b>0.0000</b>	<b>59.6946</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0200e-003	0.3004	0.0527	3.4000e-004	1.2800e-003	3.5000e-004	1.6200e-003	3.6000e-004	3.3000e-004	6.9000e-004	0.0000	32.3393	32.3393	4.4200e-003	0.0000	32.4499
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	1.4000e-004	1.7900e-003	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1347	0.1347	1.0000e-005	0.0000	0.1349
<b>Total</b>	<b>7.3300e-003</b>	<b>0.3005</b>	<b>0.0545</b>	<b>3.4000e-004</b>	<b>1.3700e-003</b>	<b>3.5000e-004</b>	<b>1.7200e-003</b>	<b>3.9000e-004</b>	<b>3.3000e-004</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>32.4740</b>	<b>32.4740</b>	<b>4.4300e-003</b>	<b>0.0000</b>	<b>32.5848</b>

**3.7 Architectural Coating - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.0858					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0231	0.1777	0.1871	3.0000e-004		0.0116	0.0116		0.0115	0.0115	0.0000	25.9191	25.9191	4.2000e-003	0.0000	26.0242
<b>Total</b>	<b>2.1089</b>	<b>0.1777</b>	<b>0.1871</b>	<b>3.0000e-004</b>		<b>0.0116</b>	<b>0.0116</b>		<b>0.0115</b>	<b>0.0115</b>	<b>0.0000</b>	<b>25.9191</b>	<b>25.9191</b>	<b>4.2000e-003</b>	<b>0.0000</b>	<b>26.0242</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9300e-003	1.3000e-003	0.0171	1.0000e-005	9.0000e-004	2.0000e-005	9.2000e-004	2.4000e-004	2.0000e-005	2.6000e-004	0.0000	1.2823	1.2823	9.0000e-005	0.0000	1.2846
<b>Total</b>	<b>2.9300e-003</b>	<b>1.3000e-003</b>	<b>0.0171</b>	<b>1.0000e-005</b>	<b>9.0000e-004</b>	<b>2.0000e-005</b>	<b>9.2000e-004</b>	<b>2.4000e-004</b>	<b>2.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>1.2823</b>	<b>1.2823</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.2846</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.0858					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.2506	0.1952	3.0000e-004		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003	0.0000	25.9191	25.9191	4.2000e-003	0.0000	26.0242
<b>Total</b>	<b>2.0979</b>	<b>0.2506</b>	<b>0.1952</b>	<b>3.0000e-004</b>		<b>5.0600e-003</b>	<b>5.0600e-003</b>		<b>5.0600e-003</b>	<b>5.0600e-003</b>	<b>0.0000</b>	<b>25.9191</b>	<b>25.9191</b>	<b>4.2000e-003</b>	<b>0.0000</b>	<b>26.0242</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9300e-003	1.3000e-003	0.0171	1.0000e-005	9.0000e-004	2.0000e-005	9.2000e-004	2.4000e-004	2.0000e-005	2.6000e-004	0.0000	1.2823	1.2823	9.0000e-005	0.0000	1.2846
<b>Total</b>	<b>2.9300e-003</b>	<b>1.3000e-003</b>	<b>0.0171</b>	<b>1.0000e-005</b>	<b>9.0000e-004</b>	<b>2.0000e-005</b>	<b>9.2000e-004</b>	<b>2.4000e-004</b>	<b>2.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>1.2823</b>	<b>1.2823</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.2846</b>

**3.8 Paving - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.9200e-003	0.0827	0.0710	1.1000e-004		4.8300e-003	4.8300e-003		4.4400e-003	4.4400e-003	0.0000	9.6784	9.6784	3.0100e-003	0.0000	9.7538
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.9200e-003</b>	<b>0.0827</b>	<b>0.0710</b>	<b>1.1000e-004</b>		<b>4.8300e-003</b>	<b>4.8300e-003</b>		<b>4.4400e-003</b>	<b>4.4400e-003</b>	<b>0.0000</b>	<b>9.6784</b>	<b>9.6784</b>	<b>3.0100e-003</b>	<b>0.0000</b>	<b>9.7538</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	4.0000e-005	5.4000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0404	0.0404	0.0000	0.0000	0.0405
<b>Total</b>	<b>9.0000e-005</b>	<b>4.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0404</b>	<b>0.0404</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0405</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4700e-003	0.0955	0.0804	1.1000e-004		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003	0.0000	9.6784	9.6784	3.0100e-003	0.0000	9.7538
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>4.4700e-003</b>	<b>0.0955</b>	<b>0.0804</b>	<b>1.1000e-004</b>		<b>1.6600e-003</b>	<b>1.6600e-003</b>		<b>1.6600e-003</b>	<b>1.6600e-003</b>	<b>0.0000</b>	<b>9.6784</b>	<b>9.6784</b>	<b>3.0100e-003</b>	<b>0.0000</b>	<b>9.7538</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	4.0000e-005	5.4000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0404	0.0404	0.0000	0.0000	0.0405
<b>Total</b>	<b>9.0000e-005</b>	<b>4.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0404</b>	<b>0.0404</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0405</b>

**Attachment 5: Data Center Emergency Generators Health Impacts and Modeling Information**

**Aligned Data Center - Emergency Generators  
Source Parameters for Emergency Diesel-Fueled Generators**

Source	Stack height (ft)	Stack Diam (in)	Temp (F)	Volume Flow (acfm)	Velocity (ft/min)	Velocity (ft/sec)
Generator Stacks	17.5	8	903	4,866	13940	232.3

Source	Stack height (m)	Stack Diam (m)	Temp (K)	Velocity (m/sec)
Generator Stacks	5.33	0.203	757.0	70.82

**Aligned Data Center, Santa Clara, CA - DPM Cancer Risks From 120 Emergency Generators  
50 Hours Operation per Year per Unit at Full Load  
Maximum DPM Cancer Risk at Off-Site Residential Receptors  
1.5 Meter Receptor Heights**

**Cancer Risk Calculation Method**

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

- Where: CPF = Cancer potency factor (mg/kg-day)<sup>-1</sup>  
 ASF = Age sensitivity factor for specified age group  
 ED = Exposure duration (years)  
 AT = Averaging time for lifetime cancer risk (years)  
 FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C<sub>air</sub> x DBR x A x (EF/365) x 10<sup>-6</sup>

- Where: C<sub>air</sub> = concentration in air (µg/m<sup>3</sup>)  
 DBR = daily breathing rate (L/kg body weight-day)  
 A = Inhalation absorption factor  
 EF = Exposure frequency (days/year)  
 10<sup>-6</sup> = Conversion factor

**Values**

**Cancer Potency Factors (mg/kg-day)<sup>-1</sup>**

TAC	CPF
DPM	1.10E+00

Age -->	Infant/Child			Adult
	3rd Trimester	0 - <2	2 - <16	16 - 30
Parameter				
ASF	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
ED =	0.25	2	14	14
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

\* 95th percentile breathing rates for infants and 80th percentile for children and adults

**MEI Cancer Risk From Emergency Generator Operation**

**1.5 meter receptor height**

Exposure Duration (years)	Age	Age Sensitivity Factor	DPM Annual Conc (ug/m3)	DPM Cancer Risk (per million)
0.25	-0.25 - 0*	10	0.0031	0.04
2	1 - 2	10	0.0031	1.01
14	3 - 16	3	0.0031	1.11
14	17 - 30	1	0.0031	0.12
<b>Total Increased Cancer Risk</b>				<b>2.3</b>

\* Third trimester of pregnancy

**Attachment 6: Cumulative Source Screening Assessment and Emissions Modeling**

- **SSIF with Screening Calculations**
- **Plant 9848 (Perkins Elmer Inc.) PM<sub>2.5</sub> Emissions and Dispersion Modeling Summary**
- **Roadway Screening Calculator for Mission College Blvd and Agnew Road**

**Bay Area Air Quality Management District  
Risk & Hazard Stationary Source Inquiry Form**

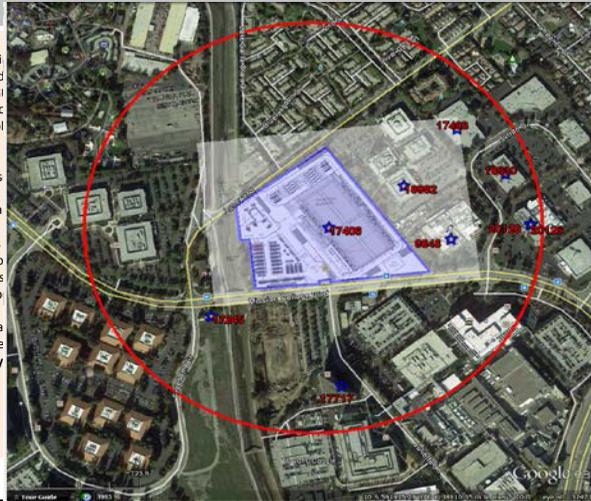
This form is required when users request stationary source data from BAAQMD. This form is to be used with the BAAQMD's Google Earth stationary source screening tables. For guidance on conducting a risk & hazard screening, including for roadways & freeways, refer to the District's Risk & Hazard Analysis flow chart.

**Table A: Requestor Contact Information**

Contact Name:	Tanushree Ganguly
Affiliation:	Illingworth & Rodkin, Inc.
Phone:	707-794-0400
Email:	tanushree@illingworthrodkin.com
Date of Request	4/12/2017
Project Name:	Aligned Data Center
Address:	
City:	Santa Clara
County:	Santa Clara
Type (residential, commercial, mixed use, industrial, etc.):	Light Industrial
Project size (# of units, or building square feet):	15 acres
Comments:	

**For Air District assistance, the following steps must be completed:**

Complete all the contact and project information requested in Table A. Incomplete forms will not be processed. Please download and install the free program Google Earth, <http://www.google.com/earth/download/ge/>, and then download source application files from the District's website, <http://www.baaqmd.gov/Divisions/Planning-and-Research/CEQA-GI>. The small points on the map represent stationary sources permitted by the District (Map A on right). These permitted sources include gas stations, dry cleaners, boilers, printers, auto spray booths, etc. Click on a point to view the source's Information Table preliminary estimated cancer risk, hazard index, and PM2.5 concentration. Find the project site in Google Earth by inputting the site's address in the Google Earth search box. Using the Google Earth ruler function, measure the distance in feet between the project's fence line and the stationary source within 1,000 feet of the project's fence line. Verify that the location of the source on the map matches with the source's Google Earth address search box to confirm that the source is within 1,000 feet of the project. Please report any map information in Step 9). If the stationary source is within 1,000 feet of the project's fence line and the stationary source's information table does not list PM2.5 concentration, and instead says to "Contact District Staff", list the stationary source information in Table B Section 2. Note that a small percentage of the stationary sources have Health Risk Screening Assessment (HRSA) data INSTEAD of s noted by an asterisk next to the Plant Name (Map B on right). If HRSA values are presented, these values have already been noted by further. Email this completed form to District staff (Step 9). District staff will provide the most recent risk, hazard, and PM2.5 data information or data are not available, source emissions data will be provided. Staff will respond to inquiries within three business days. **Note that a public records request received for the same stationary source information will cancel the processing of your form. Submit forms, maps, and questions to Alison Kirk at 415-749-5169, or akirk@baaqmd.gov.**



**Table B: Stationary Sources within 1,000 feet of Receptor that say "Contact District Staff"**

Table B Section 1: Requestor fills out these columns based on Google Earth data				Table B Section 2: BAAQMD returns form with additional information in these columns as needed								
Distance from Receptor (feet)	Plant # or Gas Dispensary #	Facility Name	Street Address	2012 Screening Level Cancer Risk (1)	2012 Screening Level Hazard Index (1)	2012 Screening Level PM2.5 (1)	Type	Basis of Refinement	Multiplier	Adjusted Screening Level Cancer Risk	Adjusted Screening Level Hazard Index	Adjusted Screening Level PM2.5
1120	17245	City of Santa Clara	3905 Freedom Circle	34.78	0.012	0.008	Generator		0.040	1.391	0.000	0.000
1480	17717	2350 Mission Inventories	2350 Mission College Boulevard	41.12	0.015	0.073	Generator		0.040	1.645	0.001	0.003
Project Site	17406	General Dynamics	2305 Mission College Boulevard	20.9	0.002	0.005		shut down				
900	9848	Perkin Elmer, Inc.	2175 Mission College Blvd	3.4	0.007	1.380	Generators, Boilers, Oxidizer, Wipe	see attached				0.00
550	18982	Omni Vision	4295 Burton Drive	0.17	0.001	0.000	Generator		0.100	0.017	0.000	0.000
1500	20126	Intermap Network Services	2151 Mission College Boulevard	0	0.000	0.000	Generator		0.040	0.000	0.000	0.000
1260	18630	Brion technologies Inc.	4211 Burton Drive	27.56	0.010	0.049	Generator		0.040	1.102	0.000	0.002
1000	17493	SV-Probe	4251 Burton Drive	0.000	0.000	0.230		demolished				
900	17385	Broadcom Corp	2451 Mission	45.92	0.016	0.011	Generator		0.050	2.296	0.001	0.001

- Applicable Footnotes:**
- These Cancer Risk, Hazard Index, and PM2.5 columns represent the rows in the Google Earth Plant Information Table that say "Contact District Staff" (Map A above). BAAQMD will return this form to you with this screening level information entered in these columns.
  - Each plant may have multiple permits and sources.
  - Permitted sources include diesel back-up generators, gas stations, dry cleaners, boilers, printers, auto spray booths, etc.
  - If a Health Risk Screening Assessment (HRSA) was completed for the source, the application number will be listed here.
  - The date that the HRSA was completed.
  - Engineer who completed the HRSA. For District purposes only.
  - All HRSA completed before 1/5/2010 need to be multiplied by an age sensitivity factor of 1.7.
  - The HRSA "Chronic Health" number represents the Hazard Index.
  - Further information about common sources:
    - Sources that only include diesel internal combustion engines can be adjusted using the BAAQMD's Diesel Multiplier worksheet.
    - The risk from natural gas boilers used for space heating when <25 MM BTU/hr would have an estimated cancer risk of one in a million or less, and a chronic hazard index of 0.003 or less. To be conservative, requestor should assume the cancer risk is 1 in a million and the hazard index is 0.003 for these sources.
    - Gas stations can be adjusted using BAAQMD's Gas Station Distance Multiplier worksheet.
    - Unless otherwise noted, exempt sources are considered insignificant. See BAAQMD Reg 2 Rule 1 for a list of exempt sources.



FFPM5616		
Propylene glycol monomethy	601	7.94E-01
FFPM5620		
	0	0.00E+00
FFPM6424		
Hexamethyldisilazane (HMDS)	508	8.05E-02
FFPM7938		
	0	0.00E+00
FFPM8655		
	0	0.00E+00
FFPM9352		
Propylene glycol monomethy	579	9.63E+00
Propylene glycol monomethy	601	4.16E+00
FFPM9518		
	0	0.00E+00
102 Wipe Cleaning		
SF01A157		
Isopropyl alcohol	157	5.18E-01
SF01A455		
Acetone	455	6.86E-01
726 Emergency Fire Pump		
C24AG098		
	0	0.00E+00
-108 MEGTEC, Millennium 8000 Regen, Thermal Oxidizer		
C8350189		
Benzene	41	7.03E-05
Formaldehyde	124	8.27E-04
Toluene	293	3.75E-05
Organics (other, including	990	6.31E-02
Particulates (part not spe	1990	3.31E-02
Nitrous Oxide (N2O)	2030	2.55E-03
Nitrogen Oxides (part not	2990	1.54E+00
Sulfur Dioxide (SO2)	3990	6.27E-03
Carbon Monoxide (CO) pollu	4990	3.86E-01
Carbon Dioxide, non-biogen	6960	1.35E+03
Methane (CH4)	6970	2.09E-02

PLANT TOTAL:

lbs/day Pollutant

1.17E-02 (5001)  
2.44E-01 Acetic acid (454)  
7.87E-01 Acetone (455)  
1.91E-08 Arsenic (all) (1030)  
2.37E-04 Benzene (41)  
1.12E-08 Beryllium (all) pollutant (1040)  
4.77E-08 Cadmium (1070)  
9.81E+03 Carbon Dioxide, non-biogenic CO2 (6960)  
1.56E+00 Carbon Monoxide (CO) pollutant (4990)  
9.86E-10 Chromium (hexavalent) (1095)  
2.10E-04 Diesel Engine Exhaust Particulate Matter (1350)  
6.01E-03 Formaldehyde (124)  
8.05E-02 Hexamethyldisilazane (HMDS) (508)  
1.12E-02 Hydrochloric acid mist pollutant (1500)  
6.28E-01 Isopropyl alcohol (157)  
4.04E-08 Lead (all) pollutant (1140)  
6.35E-08 Manganese (1160)  
1.35E-08 Mercury (all) pollutant (1190)  
1.52E-01 Methane (CH4) (6970)  
7.71E-07 Nickel pollutant (1180)  
1.98E-03 Nitric acid mist pollutant (1510)  
8.47E+00 Nitrogen Oxides (part not spec elsewhere) (2990)  
1.85E-02 Nitrous Oxide (N2O) (2030)  
6.11E-01 Organics (other, including CH4) (990)  
7.68E-03 Other Acid Mists (1590)  
1.01E-07 PAH's (non-speciated) (1840)  
7.24E-01 Particulates (part not spec elsewhere) (1990)  
4.66E+00 Photoresist stripper (667)  
9.63E+00 Propylene glycol monomethyl ether (579)  
4.95E+00 Propylene glycol monomethyl ether acetate (601)  
4.55E-02 Sulfur Dioxide (SO2) (3990)  
1.07E-03 Sulfuric Acid mist pollutant (1530)  
2.72E-04 Toluene (293)

# Roadway Screening Analysis Calculator

County specific tables containing estimates of risk and hazard impacts from roadways in the Bay Area.

## INSTRUCTIONS:

Input the site-specific characteristics of your project by using the drop down menu in the "Search Parameter" box. We recommend that this analysis be used for roadways with 10,000 AADT and above.

- **County:** Select the County where the project is located. The calculator is only applicable for projects within the nine Bay Area counties.
- **Roadway Direction:** Select the orientation that best matches the roadway. If the roadway orientation is neither clearly north-south nor east-west, use the highest values predicted from either orientation.
- **Side of the Roadway:** Identify on which side of the roadway the project is located.
- **Distance from Roadway:** Enter the distance in feet from the nearest edge of the roadway to the project site. The calculator estimates values for distances greater than 10 feet and less than 1000 feet. For distances greater than 1000 feet, the user can choose to extrapolate values using a distribution curve or apply 1000 feet values for greater distances.
- **Annual Average Daily Traffic (ADT):** Enter the annual average daily traffic on the roadway. These data may be collected from the city or the county (if the area is unincorporated).

When the user has completed the data entries, the screening level PM2.5 annual average concentration and the cancer risk results will appear in the Results Box on the right. Please note that the roadway tool is not applicable for California State Highways and the District refers the user to the Highway Screening Analysis Tool at: <http://www.baaqmd.gov/Divisions/Planning-and-Research/CEQA-GUIDELINES/Tools-and-Methodology.aspx>.

Notes and References listed below the Search Boxes

### Search Parameters

County

Roadway Direction

Side of the Roadway

Distance from Roadway  feet

Annual Average Daily Traffic (ADT)

### Results

## Santa Clara County

EAST-WEST DIRECTIONAL ROADWAY

PM2.5 annual average

**0.054** ( $\mu\text{g}/\text{m}^3$ )

Cancer Risk

**2.98** (per million)

**Mission College**

Data for Santa Clara County based on meteorological data collected from San Jose Airport in 1997

Adjusted for 2015 OEHH  
and EMFAC2014 for 2018

**2.05**

(per million)

Note that EMFAC2014 predicts DSL PM2.5 aggregate rates in 2018 that are 46% of EMFAC2011 for 2014. TOG gasoline rates are 56% of EMFAC2011 year 2014 rates. This is for light- and medium-duty vehicles traveling at 30 mph for Bay Area

### Notes and References:

1. Emissions were developed using EMFAC2011 for fleet mix in 2014 assuming 10,000 AADT and includes impacts from diesel and gasoline vehicle exhaust, brake and tire wear, and resuspended dust.
2. Roadways were modeled using CALINE4 Cal3qhc air dispersion model assuming a source length of one kilometer. Meteorological data used to estimate the screening values are noted at the bottom of the "Results" box.
3. Cancer risks were estimated for 70 year lifetime exposure starting in 2014 that includes sensitivity values for early life exposures and OEHH toxicity values adopted in 2013.

# Roadway Screening Analysis Calculator

County specific tables containing estimates of risk and hazard impacts from roadways in the Bay Area.

## INSTRUCTIONS:

Input the site-specific characteristics of your project by using the drop down menu in the "Search Parameter" box. We recommend that this analysis be used for roadways with 10,000 AADT and above.

- **County:** Select the County where the project is located. The calculator is only applicable for projects within the nine Bay Area counties.
- **Roadway Direction:** Select the orientation that best matches the roadway. If the roadway orientation is neither clearly north-south nor east-west, use the highest values predicted from either orientation.
- **Side of the Roadway:** Identify on which side of the roadway the project is located.
- **Distance from Roadway:** Enter the distance in feet from the nearest edge of the roadway to the project site. The calculator estimates values for distances greater than 10 feet and less than 1000 feet. For distances greater than 1000 feet, the user can choose to extrapolate values using a distribution curve or apply 1000 feet values for greater distances.
- **Annual Average Daily Traffic (ADT):** Enter the annual average daily traffic on the roadway. These data may be collected from the city or the county (if the area is unincorporated).

When the user has completed the data entries, the screening level PM2.5 annual average concentration and the cancer risk results will appear in the Results Box on the right. Please note that the roadway tool is not applicable for California State Highways and the District refers the user to the Highway Screening Analysis Tool at: <http://www.baaqmd.gov/Divisions/Planning-and-Research/CEQA-GUIDELINES/Tools-and-Methodology.aspx>.

Notes and References listed below the Search Boxes

### Search Parameters

County:

Roadway Direction:

Side of the Roadway:

Distance from Roadway:  feet

Annual Average Daily Traffic (ADT):

### Results

## Santa Clara County

### EAST-WEST DIRECTIONAL ROADWAY

#### PM2.5 annual average

**0.145** ( $\mu\text{g}/\text{m}^3$ )

#### Cancer Risk

**7.24** (per million)

**Agnew**

Data for Santa Clara County based on meteorological data collected from San Jose Airport in 1997

Adjusted for 2015 OEHHA and EMFAC2014 for 2018

**4.98**

(per million)

Note that EMFAC2014 predicts DSL PM2.5 aggregate rates in 2018 that are 46% of EMFAC2011 for 2014. TOG gasoline rates are 56% of EMFAC2011 year 2014 rates. This is for light- and medium-duty vehicles traveling at 30 mph for Bay Area

### Notes and References:

1. Emissions were developed using EMFAC2011 for fleet mix in 2014 assuming 10,000 AADT and includes impacts from diesel and gasoline vehicle exhaust, brake and tire wear, and resuspended dust.
2. Roadways were modeled using CALINE4 Cal3qhc air dispersion model assuming a source length of one kilometer. Meteorological data used to estimate the screening values are noted at the bottom of the "Results" box.
3. Cancer risks were estimated for 70 year lifetime exposure starting in 2014 that includes sensitivity values for early life exposures and OEHHA toxicity values adopted in 2013.

**Appendix B**  
**Arborist Report**

# ARBORIST REPORT

Submitted To:

**Kier and Wright  
Attention: Mr. Ryan Amaya  
3350 Scott Boulevard #22  
Santa Clara, CA 95054**

Project Location:

**Job: A02085-8  
2305 Mission College Blvd.  
Santa Clara, CA**

Submitted By:

**McCLENAHAN CONSULTING, LLC  
John H. McClenahan  
ISA Board Certified Master Arborist, WE-1476B  
member, American Society of Consulting Arborists  
February 20, 2017  
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Arboriculturists Since 1911

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Fax (650) 854-1267

www.spmcclenahan.com

February 20, 2017

## **Kier and Wright**

Attention: **Mr. Ryan Amaya**

3350 Scott Boulevard #22

Santa Clara, CA 95054

RE: **2305 Mission College Blvd.  
Santa Clara, CA**

## **Assignment**

As requested, I performed a visual inspection of 256 trees to determine species, size and condition and provide Tree Protection and Tree Preservation Guidelines.

## **Summary**

At the time of inspection tree dispositions were not available. General Tree Preservation Guidelines are included. The tree species and quantity are below.

American sweet gum	<i>Liquidambar styraciflua</i>	6
Aristocrat pear	<i>Pyrus calleryana 'Aristocrat'</i>	4
Black acacia	<i>Acacia melanoxylon</i>	7
Blue gum	<i>Eucalyptus globulus</i>	29
Brisbane box	<i>Tristania conferta</i>	1
Canary Island pine	<i>Pinus canariensis</i>	1
Carolina cherry	<i>Prunus caroliniana</i>	14
Chinese pistache	<i>Pistacia chinensis</i>	15
Coast redwood	<i>Sequoia sempervirens</i>	4
Crape myrtle	<i>Lagerstroemia indica</i>	15
Deodar cedar	<i>Cedrus deodara</i>	8
Eucalyptus	<i>Eucalyptus spp.</i>	11
European white birch	<i>Betula pendula</i>	12
Fan palm	<i>Washingtonia robusta</i>	1
Italian cypress	<i>Cupressus sempervirens</i>	2
Japanese maple	<i>Acer palmatum</i>	2
Leyland cypress	<i>Cupressocyparis x leylandii</i>	1
London plane tree	<i>Platanus x acerifolia</i>	69
Modesto ash	<i>Fraxinus velutina 'Modesto'</i>	6
Myoporum	<i>Myoporum laetum</i>	2
Red gum	<i>Eucalyptus camaldulensis</i>	8
Red Ironbark	<i>Eucalyptus sideroxylon</i>	14
Red maple	<i>Acer rubrum</i>	6
Silver dollar	<i>Eucalyptus polyanthemos</i>	2
Zelkova	<i>Zelkova serrata</i>	16

**Methodology**

No root crown exploration, climbing or plant tissue analysis was performed as part of this survey. For purposes of identification, trees have been numbered on the preliminary site plan shown in Figure 1.

In determining Tree Condition several factors have been considered which include:

Rate of growth over several seasons;  
Structural decays or weaknesses;  
Presence of disease or insects; and  
Life expectancy.

**Tree Description/Observation**

**1 Black acacia**

**Diameter:** 7.8"

**Height:** 17' **Spread:** 16'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Foliage exhibits tip burn. Grows to a slight lean. Galls observed on scaffold limbs.

**2 Black acacia**

**Diameter:** 7.0"

**Height:** 15' **Spread:** 16'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Foliage exhibits tip burn. Grows to a slight lean. Galls observed on scaffold limbs.

**3 Myoporum**

**Diameter:** 9.8, 6.7, 10.3, 3.5" Multi Trunk

**Height:** 18' **Spread:** 28'

**Condition:** Poor

**Location:** On plan

**Observation:** Foliage exhibits significant damage from myoporum thrips. Decay of low stem.

**4 Black acacia**

**Diameter:** 7.9"

**Height:** 18' **Spread:** 15'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Foliage exhibits tip burn. Grows to a slight lean. Galls observed on scaffold limbs.

**5 Myoporum**

**Diameter:** 6.2, 6.9" Multi Trunk

**Height:** 14' **Spread:** 13'

**Condition:** Very Poor

**Location:** On plan

**Observation:** Foliage exhibits significant damage from myoporum thrips. Decay of low stem.

**6 Blue gum**

**Diameter:** 7.0"

**Height:** 22' **Spread:** 8'

**Condition:** Very Poor

**Location:** On plan

**Observation:** Significant crown dieback.

**7 Blue gum**

**Diameter:** 12.2"  
**Height:** 30' **Spread:** 25'  
**Condition:** Very Poor  
**Location:** On plan  
**Observation:** Significant crown dieback.

**8 Blue gum**

**Diameter:** 15.0"  
**Height:** 35' **Spread:** 24'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Crown exhibits minor dieback and damage from leaf feeding insects. Grows to a lean.

**9 Red maple**

**Diameter:** 1.6"  
**Height:** 14' **Spread:** 4'  
**Condition:** Good  
**Location:** On plan  
**Observation:** Newly installed tree.

**10 Red maple**

**Diameter:** 1.9"  
**Height:** 14' **Spread:** 4'  
**Condition:** Good  
**Location:** On plan  
**Observation:** Newly installed tree.

**11 Red maple**

**Diameter:** 1.6"  
**Height:** 14' **Spread:** 4'  
**Condition:** Good  
**Location:** On plan  
**Observation:** Newly installed tree.

**12 Red maple**

**Diameter:** 1.8"  
**Height:** 13' **Spread:** 4'  
**Condition:** Good  
**Location:** On plan  
**Observation:** Newly installed tree.

**13 Red maple**

**Diameter:** 1.5"  
**Height:** 13' **Spread:** 4'  
**Condition:** Good  
**Location:** On plan  
**Observation:** Newly installed tree.

**14 Red maple**

**Diameter:** 1.6"  
**Height:** 13' **Spread:** 4'  
**Condition:** Good  
**Location:** On plan  
**Observation:** Newly installed tree.

**15 Leyland cypress**

**Diameter:** 2.1"  
**Height:** 15' **Spread:** 6'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Young establishing tree.

**16 Blue gum**

**Diameter:** 35.6, 25.9" Multi Trunk  
**Height:** 65' **Spread:** 45'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Crown exhibits minor dieback and damage from leaf feeding insects. Poor root environment created by neighboring parking lot.

**17 Red ironbark**

**Diameter:** 15.3"  
**Height:** 26' **Spread:** 25'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Low vigor. Poor root environment.

**18 Modesto ash**

**Diameter:** 8.5"  
**Height:** 15' **Spread:** 16'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Dormant at time of inspection.

**19 Modesto ash**

**Diameter:** 4.2"  
**Height:** 11' **Spread:** 8'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Grows to a lean. Dormant at time of inspection.

**20 Modesto ash**

**Diameter:** 10"  
**Height:** 18' **Spread:** 26'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Grows to a lean. Dormant at time of inspection.

**21 Modesto ash**

**Diameter:** 8.0"  
**Height:** 15' **Spread:** 20'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Dormant at time of inspection.

**22 London plane tree**

**Diameter:** 7.6"  
**Height:** 22' **Spread:** 18'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Dormant at time of inspection.

**23 London plane tree**

**Diameter:** 7.0"  
**Height:** 18' **Spread:** 22'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Dormant at time of inspection.

**24 London plane tree**

**Diameter:** 9.0"  
**Height:** 24' **Spread:** 24'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Dormant at time of inspection.

**25 London plane tree**

**Diameter:** 8.2"  
**Height:** 22' **Spread:** 18'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Dormant at time of inspection.

**26 London plane tree**

**Diameter:** 10.1"  
**Height:** 24' **Spread:** 26'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Dormant at time of inspection.

**27 London plane tree**

**Diameter:** 8.3"  
**Height:** 18' **Spread:** 20'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Grows to a lean. Dormant at time of inspection.

**28 London plane tree**

**Diameter:** 10.9"  
**Height:** 30' **Spread:** 26'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** One sided. Poor root environment. Dormant at time of inspection.

**29 London plane tree**

**Diameter:** 10.7"  
**Height:** 30' **Spread:** 30'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**30 London plane tree**

**Diameter:** 10.4"  
**Height:** 25' **Spread:** 28'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**31 London plane tree**

**Diameter:** 9.0"  
**Height:** 22' **Spread:** 26'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**32 London plane tree**

**Diameter:** 6.9"  
**Height:** 18' **Spread:** 16'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**33 London plane tree**

**Diameter:** 4.1"  
**Height:** 14' **Spread:** 12'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Dormant at time of inspection.

**34 Red gum**

**Diameter:** 16.9"  
**Height:** 28' **Spread:** 12'  
**Condition:** Very Poor  
**Location:** On plan  
**Observation:** Crown dieback and previous top failure. Decay observed low stem.

**35 Red gum**

**Diameter:** 37.7"  
**Height:** 70' **Spread:** 50'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** History of limb failures. Low vigor. Abnormal bark patterns. Limited root environment.

**36 Black acacia**

**Diameter:** 12.3"  
**Height:** 26' **Spread:** 20'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Broken limb hanging over parking lot. Remaining too high risk for failure.

**37 Black acacia**

**Diameter:** 8.9"  
**Height:** 20' **Spread:** 15'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Foliage exhibits tip burn. Grows to a slight lean.

**38 Black acacia**

**Diameter:** 7.6"  
**Height:** 18' **Spread:** 12'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Foliage exhibits tip burn. Grows to a slight lean.

**39 London plane tree**

**Diameter:** 12.2"  
**Height:** 35' **Spread:** 32'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**40 London plane tree**

**Diameter:** 9.1"  
**Height:** 26' **Spread:** 22'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**41 London plane tree**

**Diameter:** 11.3"  
**Height:** 30' **Spread:** 32'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**42 London plane tree**

**Diameter:** 8.8"  
**Height:** 28' **Spread:** 30'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** One sided. Limited root environment. Dormant at time of inspection.

**43 London plane tree**

**Diameter:** 10.3"  
**Height:** 28' **Spread:** 26'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** One sided. Limited root environment. Dormant at time of inspection.

**44 London plane tree**

**Diameter:** 12.1"  
**Height:** 28' **Spread:** 36'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**45 London plane tree**

**Diameter:** 11.3"  
**Height:** 30' **Spread:** 28'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** One sided. Limited root environment. Dormant at time of inspection.

**46 London plane tree**

**Diameter:** 12.4"  
**Height:** 30' **Spread:** 32'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**47 London plane tree**

**Diameter:** 10.4"  
**Height:** 28' **Spread:** 32'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Galls on root flare. Scars on scaffold limbs. Dormant at time of inspection.

**48 London plane tree**

**Diameter:** 10.4"  
**Height:** 25' **Spread:** 24'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Grows to a slight lean. Limited root environment. Dormant at time of inspection.

**49 London plane tree**

**Diameter:** 7.9"  
**Height:** 26' **Spread:** 20'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**50 London plane tree**

**Diameter:** 7.6"  
**Height:** 22' **Spread:** 24'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**51 London plane tree**

**Diameter:** 4.9"  
**Height:** 16' **Spread:** 15'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Dormant at time of inspection.

**52 Chinese pistache**

**Diameter:** 3.5"

**Height:** 12' **Spread:** 10'

**Condition:** Fair

**Location:** On plan

**Observation:** Young establishing tree.

**53 Chinese pistache**

**Diameter:** 4.3"

**Height:** 12' **Spread:** 8'

**Condition:** Fair

**Location:** On plan

**Observation:** Young establishing tree.

**54 Chinese pistache**

**Diameter:** 4.0"

**Height:** 13' **Spread:** 11'

**Condition:** Fair

**Location:** On plan

**Observation:** Young establishing tree.

**55 Chinese pistache**

**Diameter:** 4.1"

**Height:** 14' **Spread:** 14'

**Condition:** Fair

**Location:** On plan

**Observation:** Young establishing tree.

**56 Red ironbark**

**Diameter:** 16.8"

**Height:** 35' **Spread:** 35'

**Condition:** Poor

**Location:** On plan

**Observation:** Sparse crown. Leans over parking lot.

**57 Red ironbark**

**Diameter:** 28.0"

**Height:** 55' **Spread:** 50'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Poor root environment. Poor structure.

**58 Red ironbark**

**Diameter:** 16.6"

**Height:** 30' **Spread:** 30'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Low vigor.

**59 Red ironbark**

**Diameter:** 24.1"

**Height:** 32' **Spread:** 28'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Poor root environment.

**60 Modesto ash**

**Diameter:** 10.1"  
**Height:** 12' **Spread:** 16'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Poor structure. Limited root environment.

**61 Red gum**

**Diameter:** 11.7"  
**Height:** 20' **Spread:** 18'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Minor dieback of crown. Poor root environment.

**62 Red gum**

**Diameter:** 28.5"  
**Height:** 55' **Spread:** 60'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Dieback of crown. Poor root environment.

**63 London plane tree**

**Diameter:** 5.2"  
**Height:** 18' **Spread:** 22'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Young establishing tree.

**64 London plane tree**

**Diameter:** 13.3"  
**Height:** 35' **Spread:** 30'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**65 London plane tree**

**Diameter:** 13.3"  
**Height:** 30' **Spread:** 28'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**66 London plane tree**

**Diameter:** 3.8"  
**Height:** 15' **Spread:** 12'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**67 Red ironbark**

**Diameter:** 15.1"  
**Height:** 30' **Spread:** 26'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Poor structure. Limited root environment.

**68 Red ironbark**

**Diameter:** 34.8" Low Branching  
**Height:** 55' **Spread:** 50'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Poor structure. Limited root environment.

**69 Red ironbark**

**Diameter:** 24.0" Multi Trunk  
**Height:** 36' **Spread:** 25'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** History of broken limbs. Poor structure. Bleeding cankers on one stem.

**70 Red ironbark**

**Diameter:** 13.0, 11.5" Multi Trunk  
**Height:** 25' **Spread:** 28'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Bleeding cankers. Poor structure. Limited root environment.

**71 Red gum**

**Diameter:** 35.6"  
**Height:** 75' **Spread:** 55'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Bleeding cankers. Poor structure. Limited root environment.

**72 London plane tree**

**Diameter:** 8.0"  
**Height:** 20' **Spread:** 16'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**73 London plane tree**

**Diameter:** 10.6"  
**Height:** 30' **Spread:** 30'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**74 London plane tree**

**Diameter:** 12.4"  
**Height:** 30' **Spread:** 35'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**75 London plane tree**

**Diameter:** 10.4"  
**Height:** 30' **Spread:** 26'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**76 Chinese pistache**

**Diameter:** 2.3"  
**Height:** 12' **Spread:** 7'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Newly installed tree.

**77 Chinese pistache**

**Diameter:** 2.1"  
**Height:** 13' **Spread:** 7'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Newly installed tree.

**78 London plane tree**

**Diameter:** 10.6"  
**Height:** 30' **Spread:** 28'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**79 London plane tree**

**Diameter:** 12.2"  
**Height:** 32' **Spread:** 24'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**80 London plane tree**

**Diameter:** 9.0"  
**Height:** 20' **Spread:** 22'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**81 Swamp gum**

**Diameter:** 14.3"  
**Height:** 45' **Spread:** 28'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Low vigor. Poor root environment.

**82 Black acacia**

**Diameter:** 33.2,15.0" Multi Trunk  
**Height:** 45' **Spread:** 55'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Foliage exhibits tip burn. Grows to a slight lean. Galls observed on scaffold limbs.

**83 Eucalyptus spp.**

**Diameter:** 22.4"  
**Height:** 50' **Spread:** 50'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Narrow scaffold limb attachments. Poor root environment.

**84 Eucalyptus spp.**

**Diameter:** 28.3"  
**Height:** 55' **Spread:** 50'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Narrow scaffold limb attachments. Poor root environment.

**85 Eucalyptus spp.**

**Diameter:** 25.4"  
**Height:** 40' **Spread:** 36'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Narrow scaffold limb attachments. Poor root environment.

**86 London plane tree**

**Diameter:** 1.6"  
**Height:** 12' **Spread:** 5'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Newly installed tree.

**87 London plane tree**

**Diameter:** 7.5"  
**Height:** 8' **Spread:** 3'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Newly installed tree.

**88 London plane tree**

**Diameter:** 9.7"  
**Height:** 30' **Spread:** 34'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**89 London plane tree**

**Diameter:** 10.2"  
**Height:** 36' **Spread:** 36'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**90 London plane tree**

**Diameter:** 8.5"  
**Height:** 30' **Spread:** 20'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**91 London plane tree**

**Diameter:** 11.1"  
**Height:** 28' **Spread:** 20'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**92 London plane tree**

**Diameter:** 10.9"  
**Height:** 28' **Spread:** 22'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**93 London plane tree**

**Diameter:** 17.0"  
**Height:** 35' **Spread:** 36'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**94 London plane tree**

**Diameter:** 12.0"  
**Height:** 35' **Spread:** 26'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**95 London plane tree**

**Diameter:** 10.8"  
**Height:** 30' **Spread:** 32'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**96 London plane tree**

**Diameter:** 9.2"  
**Height:** 26' **Spread:** 20'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**97 London plane tree**

**Diameter:** 2.2"  
**Height:** 11' **Spread:** 4'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Newly installed tree.

**98 Red gum**

**Diameter:** 28.0"  
**Height:** 75' **Spread:** 48'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Bleeding cankers. Poor structure. Poor root environment.

**99 Red gum**

**Diameter:** 36.6"  
**Height:** 75' **Spread:** 36'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Bleeding cankers. Poor structure. Limited root environment.

**100 Fan palm**

**Diameter:** 20.0"  
**Height:** 50' **Spread:** 14'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** 40' of old fronds hanging.

**101 Red ironbark**

**Diameter:** 13.5,12.0" Multi Trunk  
**Height:** 25' **Spread:** 30'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Understory tree.

**102 Red gum**

**Diameter:** 25.6"  
**Height:** 60' **Spread:** 46'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Bleeding cankers. Poor structure. Limited root environment.

**103 Eucalyptus spp.**

**Diameter:** 30.8" Multi Trunk  
**Height:** 25' **Spread:** 25'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Broken tops on three main stems.

**104 Eucalyptus spp.**

**Diameter:** 5.6"  
**Height:** 18' **Spread:** 8'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Dead top.

**105 Red ironbark**

**Diameter:** 21.2"  
**Height:** 45' **Spread:** 26'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Basal cavity. Leans.

**106 Eucalyptus spp.**

**Diameter:** 10.5"  
**Height:** 30' **Spread:** 14'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Cluster of trees and suckers with low vigor

**107 Eucalyptus spp.**

**Diameter:** 2.5"  
**Height:** 11' **Spread:** 5'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Cluster of trees and suckers with low vigor

**108 Eucalyptus spp.**

**Diameter:** 2.8"  
**Height:** 12' **Spread:** 5'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Cluster of trees and suckers with low vigor

**109 Eucalyptus spp.**

**Diameter:** 1.6"  
**Height:** 12' **Spread:** 5'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Cluster of trees and suckers with low vigor

**110 Eucalyptus spp.**

**Diameter:** 18.4"  
**Height:** 60' **Spread:** 20'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Cluster of trees and suckers with low vigor

**111 Eucalyptus spp.**

**Diameter:** 13.5, 6.4"  
**Height:** 45' **Spread:** 18'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Cluster of trees and suckers with low vigor

**112 Chinese pistache**

**Diameter:** 1.7"  
**Height:** 10' **Spread:** 6'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Newly installed tree.

**113 London plane tree**

**Diameter:** 13.0"  
**Height:** 30' **Spread:** 28'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**114 London plane tree**

**Diameter:** 12.8"  
**Height:** 32' **Spread:** 30'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**115 London plane tree**

**Diameter:** 8.9"  
**Height:** 26' **Spread:** 22'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**116 London plane tree**

**Diameter:** 10.7"  
**Height:** 25' **Spread:** 25'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**117 London plane tree**

**Diameter:** 10.3"  
**Height:** 30' **Spread:** 28'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**118 London plane tree**

**Diameter:** 10.5"  
**Height:** 30' **Spread:** 26'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**119 Chinese pistache**

**Diameter:** 1.5"  
**Height:** 10' **Spread:** 4'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Newly installed tree.

**120 Chinese pistache**

**Diameter:** 2.0"  
**Height:** 10' **Spread:** 6'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Newly installed tree.

**121 London plane tree**

**Diameter:** 3.8"  
**Height:** 16' **Spread:** 14'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Young establishing tree.

**122 London plane tree**

**Diameter:** 11.0"  
**Height:** 27' **Spread:** 30'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Limited root environment. Dormant at time of inspection.

**123 London plane tree**

**Diameter:** 6.4"  
**Height:** 18' **Spread:** 20'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Young establishing tree.

**124 Canary Island pine**

**Diameter:** 26.3"  
**Height:** 70' **Spread:** 26'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Crown somewhat one sided. Limited root environment.

**125 Blue gum**

**Diameter:** 43.8"  
**Height:** 70' **Spread:** 40'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Limited root environment. Branch dieback observed. Slight lean.

**126 Blue gum**

**Diameter:** 34.7"  
**Height:** 60' **Spread:** 36'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Limited root environment. Branch dieback observed. Slight lean.

**127 Blue gum**

**Diameter:** 26.1"  
**Height:** 50' **Spread:** 28'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Limited root environment. Branch dieback observed. Slight lean.

**128 Blue gum**

**Diameter:** 36.3"  
**Height:** 55' **Spread:** 35'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Limited root environment. Branch dieback observed. Slight lean.

**129 Blue gum**

**Diameter:** 33.3"  
**Height:** 60' **Spread:** 38'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Limited root environment. Branch dieback observed. Slight lean.

**130 Blue gum**

**Diameter:** 34.3"  
**Height:** 60' **Spread:** 30'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Branch dieback observed. Limited root environment.

**131 Blue gum**

**Diameter:** 40.4"  
**Height:** 60' **Spread:** 40'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Limited root environment. Branch dieback observed. Slight lean.

**132 Blue gum**

**Diameter:** 20.8"  
**Height:** 40' **Spread:** 45'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Branch dieback observed. Limited root environment.

**133 Blue gum**

**Diameter:** 37.2"  
**Height:** 75' **Spread:** 50'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Limited root environment. Branch dieback observed. Slight lean.

**134 Blue gum**

**Diameter:** 29.6"  
**Height:** 55' **Spread:** 35'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Limited root environment. Branch dieback observed. Slight lean.

**135 Blue gum**

**Diameter:** 33.7"  
**Height:** 65' **Spread:** 60'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Limited root environment. Branch dieback observed. Slight lean.

**136 Blue gum**

**Diameter:** 34.8"  
**Height:** 65' **Spread:** 36'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Heavy accumulation of water sprouts.

**137 Blue gum**

**Diameter:** 28.4"  
**Height:** 55' **Spread:** 45'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Limited root environment. Branch dieback observed. Slight lean.

**138 Blue gum**

**Diameter:** 50.6"  
**Height:** 50' **Spread:** 60'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Branch dieback observed. Limited root environment.

**139 Blue gum**

**Diameter:** 30.3"  
**Height:** 60' **Spread:** 44'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Branch dieback observed. Limited root environment.

**140 Blue gum**

**Diameter:** 26.0"  
**Height:** 55' **Spread:** 38'  
**Condition:** Very Poor  
**Location:** On plan  
**Observation:** Branch dieback observed. Limited root environment.

**141 Blue gum**

**Diameter:** 16.3"  
**Height:** 45' **Spread:** 25'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Crown overlaps with adjacent blue gum. Below average vigor.

**142 Blue gum**

**Diameter:** 21.8"  
**Height:** 65' **Spread:** 40'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Crown overlaps with adjacent blue gum. Below average vigor.

**143 Blue gum**

**Diameter:** 22.2"  
**Height:** 65' **Spread:** 40'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Limited root environment. Branch dieback observed. Slight lean.

**144 Blue gum**

**Diameter:** 31.4"  
**Height:** 65' **Spread:** 45'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Codominant leaders at 12-feet. Limited root environment.

**145 Blue gum**

**Diameter:** 29.2"  
**Height:** 70' **Spread:** 35'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Sparse upper crown. Poor vigor. Limited root environment.

**146 Blue gum**

**Diameter:** 20.4"  
**Height:** 20' **Spread:** 16'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Previous top failure. Low vigor.

**147 Blue gum**

**Diameter:** 30.8"  
**Height:** 60' **Spread:** 40'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Codominant leaders at 15-feet. Limited root environment. Poor vigor

**148 Blue gum**

**Diameter:** 32.2"  
**Height:** 50' **Spread:** 40'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Limited root environment. Branch dieback observed. Low vigor.

**149 Red ironbark**

**Diameter:** 20.7, 22.2" Multi Trunk  
**Height:** 55' **Spread:** 45'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Poor root environment. Poor structure.

**150 Red ironbark**

**Diameter:** 17.3"  
**Height:** 40' **Spread:** 30'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Poor root environment. Poor structure.

**151 Red ironbark**

**Diameter:** 24.6"  
**Height:** 45' **Spread:** 30'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Crown overlaps with neighboring tree. Poor root environment. Poor structure.

**152 Coast redwood**

**Diameter:** 8.1"  
**Height:** 20' **Spread:** 12'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Old growth exhibits environmental stress.

**153 Chinese pistache**

**Diameter:** 2.1"  
**Height:** 11' **Spread:** 5'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Newly installed tree.

**154 Coast redwood**

**Diameter:** 6.4"  
**Height:** 13' **Spread:** 9'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Sparse crown. Necrotic growth from environmental stress.

**155 Coast redwood**

**Diameter:** 6.9"  
**Height:** 20' **Spread:** 10'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Sparse crown. Necrotic growth from environmental stress.

**156 Zelkova**

**Diameter:** 17.3"

**Height:** 25' **Spread:** 28'

**Condition:** Fair

**Location:** On plan

**Observation:** Dormant at time of inspection. Narrow scaffold limb attachments. Sidewalk creates limited root environment.

**157 Zelkova**

**Diameter:** 18.8"

**Height:** 28' **Spread:** 32'

**Condition:** Fair

**Location:** On plan

**Observation:** Dormant at time of inspection. Narrow scaffold limb attachments. Sidewalk creates limited root environment.

**158 Zelkova**

**Diameter:** 13.8"

**Height:** 30' **Spread:** 32'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Girdling roots.

**159 Zelkova**

**Diameter:** 16.6"

**Height:** 30' **Spread:** 38'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Dormant at time of inspection. Narrow scaffold limb attachments. Girdling roots

**160 Zelkova**

**Diameter:** 17.9"

**Height:** 30' **Spread:** 40'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Dormant at time of inspection. Narrow scaffold limb attachments. Sidewalk creates limited root environment.

**161 Zelkova**

**Diameter:** 5.9"

**Height:** 15' **Spread:** 12'

**Condition:** Fair

**Location:** On plan

**Observation:** Young establishing tree.

**162 Zelkova**

**Diameter:** 16.8"

**Height:** 30' **Spread:** 40'

**Condition:** Fair

**Location:** On plan

**Observation:** Dormant at time of inspection. Narrow scaffold limb attachments. Girdling roots

**163 Zelkova**

**Diameter:** 16.4"  
**Height:** 20' **Spread:** 22'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Declining tree. Poor root environment.

**164 Zelkova**

**Diameter:** 20.4"  
**Height:** 30' **Spread:** 30'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Dormant at time of inspection. Narrow scaffold limb attachments. Sidewalk creates limited root environment. Circling roots.

**165 Crape myrtle**

**Diameter:** 6.0"  
**Height:** 18' **Spread:** 18'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Surface rooting observed. Dormant at time of inspection.

**166 Crape myrtle**

**Diameter:** 5.4"  
**Height:** 20' **Spread:** 16'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Surface rooting observed. Dormant at time of inspection.

**167 Crape myrtle**

**Diameter:** 3.0"  
**Height:** 16' **Spread:** 12'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Surface rooting observed. Dormant at time of inspection.

**168 Crape myrtle**

**Diameter:** 4.6"  
**Height:** 22' **Spread:** 18'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Surface rooting observed. Dormant at time of inspection.

**169 Crape myrtle**

**Diameter:** 4.1"  
**Height:** 20' **Spread:** 12'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Surface rooting observed. Dormant at time of inspection.

**170 Aristocrat pear**

**Diameter:** 6.3, 3.5, 3.8, 3.0,3.0,3.0, 3.0, 3.0" Multi Trunk  
**Height:** 28' **Spread:** 18'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Multiple stems are the result of stump sprouting.

**171 London plane tree**

**Diameter:** 8.6"  
**Height:** 25' **Spread:** 22'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Young establishing tree.

**172 London plane tree**

**Diameter:** 5.2"  
**Height:** 19' **Spread:** 18'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Young establishing tree.

**173 London plane tree**

**Diameter:** 6.9"  
**Height:** 20' **Spread:** 20'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Young establishing tree.

**174 London plane tree**

**Diameter:** 3.0"  
**Height:** 10' **Spread:** 9'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Young establishing tree.

**175 London plane tree**

**Diameter:** 4.5"  
**Height:** 12' **Spread:** 12'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Young establishing tree.

**176 London plane tree**

**Diameter:** 4.3"  
**Height:** 13' **Spread:** 12'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Young establishing tree.

**177 London plane tree**

**Diameter:** 4.6"  
**Height:** 16' **Spread:** 14'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Young establishing tree.

**178 London plane tree**

**Diameter:** 5.0"  
**Height:** 14' **Spread:** 12'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Young establishing tree.

**179 London plane tree**

**Diameter:** 6.1"  
**Height:** 14' **Spread:** 16'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Young establishing tree.

**180 London plane tree**

**Diameter:** 6.0"  
**Height:** 14' **Spread:** 16'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Young establishing tree.

**181 London plane tree**

**Diameter:** 7.2"  
**Height:** 16' **Spread:** 14'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Young establishing tree.

**182 London plane tree**

**Diameter:** 7.5"  
**Height:** 18' **Spread:** 16'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Young establishing tree.

**183 Coast redwood**

**Diameter:** 19.7"  
**Height:** 40' **Spread:** 20'  
**Condition:** Very Poor  
**Location:** On plan  
**Observation:** Severe decline.

**184 Chinese pistache**

**Diameter:** 2.6"  
**Height:** 12' **Spread:** 6'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Newly installed tree.

**185 Chinese pistache**

**Diameter:** 2.9"  
**Height:** 12' **Spread:** 9'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Newly installed tree.

**186 Chinese pistache**

**Diameter:** 2.2"  
**Height:** 13' **Spread:** 6'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Newly installed tree.

**187 Deodar cedar**

**Diameter:** 16.6"  
**Height:** 45' **Spread:** 28'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Cluster of three trees with a limited root environment.

**188 Deodar cedar**

**Diameter:** 13.8"  
**Height:** 45' **Spread:** 22'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Cluster of three trees with a limited root environment.

**189 American sweet gum**

**Diameter:** 10.1"  
**Height:** 26' **Spread:** 18'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Surface rooting observed. Limited root environment. Dormant at time of inspection.

**190 American sweet gum**

**Diameter:** 7.7"  
**Height:** 22' **Spread:** 16'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Surface rooting observed. Limited root environment. Dormant at time of inspection.

**191 American sweet gum**

**Diameter:** 8.3"  
**Height:** 22' **Spread:** 15'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Surface rooting observed. Limited root environment. Dormant at time of inspection.

**192 American sweet gum**

**Diameter:** 4.9"  
**Height:** 15' **Spread:** 6'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Surface rooting observed. Limited root environment. Dormant at time of inspection.

**193 American sweet gum**

**Diameter:** 6.4"

**Height:** 20' **Spread:** 15'

**Condition:** Fair

**Location:** On plan

**Observation:** Surface rooting observed. Limited root environment. Dormant at time of inspection.

**194 Zelkova**

**Diameter:** 6.4"

**Height:** 14' **Spread:** 18'

**Condition:** Fair

**Location:** On plan

**Observation:** Dormant at time of inspection. Narrow scaffold limb attachments. Girdling roots

**195 Zelkova**

**Diameter:** 17.4"

**Height:** 30' **Spread:** 32'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Dormant at time of inspection. Narrow scaffold limb attachments. Sidewalk creates limited root environment. Circling roots.

**196 Zelkova**

**Diameter:** 22.4"

**Height:** 35' **Spread:** 50'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Dormant at time of inspection. Narrow scaffold limb attachments. Sidewalk creates limited root environment. Circling roots.

**197 Zelkova**

**Diameter:** 22.4"

**Height:** 35' **Spread:** 45'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Dormant at time of inspection. Narrow scaffold limb attachments. Sidewalk creates limited root environment. Circling roots.

**198 Modesto ash**

**Diameter:** 13.9"

**Height:** 25' **Spread:** 25'

**Condition:** Poor

**Location:** On plan

**Observation:** Irregular root flare, subject to failure.

**199 Crape myrtle**

**Diameter:** 4.8"

**Height:** 16' **Spread:** 16'

**Condition:** Fair to Good

**Location:** On plan

**Observation:** Surface rooting observed. Dormant at time of inspection.

**200 Crape myrtle**

**Diameter:** 4.5"  
**Height:** 14' **Spread:** 14'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Surface rooting observed. Dormant at time of inspection.

**201 Chinese pistache**

**Diameter:** 1.8"  
**Height:** 13' **Spread:** 6'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Newly installed tree.

**202 Chinese pistache**

**Diameter:** 2.5"  
**Height:** 12' **Spread:** 8'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Newly installed tree.

**203 Deodar cedar**

**Diameter:** 13.5"  
**Height:** 45' **Spread:** 24'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Low vigor. Poor root environment.

**204 Deodar cedar**

**Diameter:** 11.2"  
**Height:** 40' **Spread:** 18'  
**Condition:** Dead  
**Location:** On plan  
**Observation:** Dead.

**205 Deodar cedar**

**Diameter:** 12.4"  
**Height:** 45' **Spread:** 22'  
**Condition:** Dead  
**Location:** On plan  
**Observation:** Dead.

**206 American sweet gum**

**Diameter:** 7.2"  
**Height:** 20' **Spread:** 18'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Dormant at time of inspection. Narrow scaffold limb attachments. Girdling roots

**207 Deodar cedar**

**Diameter:** 6.1"  
**Height:** 15' **Spread:** 10'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Water stressed.

**209 Brisbane box**

**Diameter:** 8.9"  
**Height:** 32' **Spread:** 18'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** One sided crown. Surface rooting.

**210 Deodar cedar**

**Diameter:** 21.7"  
**Height:** 45' **Spread:** 35'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Leans away from building. Poor root environment.

**211 Zelkova**

**Diameter:** 14.8"  
**Height:** 20' **Spread:** 24'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Dormant at time of inspection. Narrow scaffold limb attachments. Sidewalk creates limited root environment. Circling roots.

**212 Zelkova**

**Diameter:** 17.8"  
**Height:** 30' **Spread:** 36'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Dormant at time of inspection. Narrow scaffold limb attachments. Sidewalk creates limited root environment. Circling roots.

**213 Zelkova**

**Diameter:** 18.4"  
**Height:** 28' **Spread:** 36'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Dormant at time of inspection. Narrow scaffold limb attachments. Sidewalk creates limited root environment. Circling roots.

**214 Japanese maple**

**Diameter:** 8.4"  
**Height:** 12' **Spread:** 15'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Dormant at time of inspection. Narrow scaffold limb attachments.

**215 Italian cypress**

**Diameter:** 8.0"  
**Height:** 20' **Spread:** 4'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Normal vigor.

**216 Crape Myrtle**

**Diameter:** 5.4"

**Height:** 16' **Spread:** 18'

**Condition:** Fair to Good

**Location:** On plan

**Observation:** Untagged tree.

**217 Japanese maple**

**Diameter:** 3.2, 3.4, 2.5, 2.0, 3.1" Multi Trunk

**Height:** 14' **Spread:** 15'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Dormant at time of inspection. Narrow scaffold limb attachments.

**218 Aristocrat pear**

**Diameter:** 13.7"

**Height:** 18' **Spread:** 22'

**Condition:** Poor

**Location:** On plan

**Observation:** Dormant at time of inspection. Narrow scaffold limb attachments.

**219 Carolina cherry**

**Diameter:** 2.9"

**Height:** 12' **Spread:** 6'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Large shrub.

**220 Carolina cherry**

**Diameter:** 4.5"

**Height:** 14' **Spread:** 9'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Large shrub.

**221 Carolina cherry**

**Diameter:** 4.4" Low Branching

**Height:** 12' **Spread:** 9'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Large shrub.

**222 European white birch**

**Diameter:** 3.8, 4.8, 4.4" Multi Trunk

**Height:** 22' **Spread:** 12'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Dormant at time of inspection. Poor structure.

**223 Carolina cherry**

**Diameter:** 3.9"

**Height:** 15' **Spread:** 9'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Large shrub.

**224 Carolina cherry**  
**Diameter:** 2.7"  
**Height:** 9' **Spread:** 5'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Large shrub.

**225 Carolina cherry**  
**Diameter:** 2.2"  
**Height:** 9' **Spread:** 5'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Large shrub.

**226 Aristocrat pear**  
**Diameter:** 11.8"  
**Height:** 18' **Spread:** 18'  
**Condition:** Poor  
**Location:** On plan  
**Observation:** Poor structure. Dormant at time of inspection.

**227 Carolina cherry**  
**Diameter:** 3.4"  
**Height:** 15' **Spread:** 7'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Large shrub.

**228 Carolina cherry**  
**Diameter:** 4.1"  
**Height:** 16' **Spread:** 7'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Large shrub.

**229 Carolina cherry**  
**Diameter:** 3.3"  
**Height:** 16' **Spread:** 7'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Large shrub.

**230 Carolina cherry**  
**Diameter:** 3.3"  
**Height:** 15' **Spread:** 7'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Large shrub.

**231 Deodar cedar**  
**Diameter:** 15.5"  
**Height:** 45' **Spread:** 24'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Cluster of three trees with a limited root environment. Leans.

**232 Aristocrat pear**

**Diameter:** 14.5"  
**Height:** 20' **Spread:** 25'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Narrow scaffold limb attachments.

**233 European white birch**

**Diameter:** 1.5"  
**Height:** 12' **Spread:** 5'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Newly installed tree

**234 Carolina cherry**

**Diameter:** 2.8"  
**Height:** 12' **Spread:** 7'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Large shrub.

**235 Carolina cherry**

**Diameter:** 2.7"  
**Height:** 14' **Spread:** 5'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Large shrub.

**236 Carolina cherry**

**Diameter:** 3.9"  
**Height:** 14' **Spread:** 9'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Large shrub.

**237 European white birch**

**Diameter:** 4.2, 5.8, 4.8" Multi Trunk  
**Height:** 22' **Spread:** 20'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Dormant at time of inspection.

**238 European white birch**

**Diameter:** 1.8"  
**Height:** 12' **Spread:** 6'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Newly installed tree.

**239 Carolina cherry**

**Diameter:** 3.1"  
**Height:** 14' **Spread:** 12'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Large shrub.

**240 European white birch**

**Diameter:** 4.5, 4.8, 3.0, 1.5" Multi Trunk

**Height:** 25' **Spread:** 15'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Dormant at time of inspection. Poor structure.

**241 Italian cypress**

**Diameter:** 10.0" Multi Trunk

**Height:** 23' **Spread:** 4'

**Condition:** Fair

**Location:** On plan

**Observation:** Limited root environment.

**242 European white birch**

**Diameter:** 12.4" Low Branching

**Height:** 30' **Spread:** 20'

**Condition:** Fair

**Location:** On plan

**Observation:** Dormant at time of inspection.

**243 European white birch**

**Diameter:** 5.9, 5.7" Multi Trunk

**Height:** 22' **Spread:** 20'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Dormant at time of inspection.

**244 European white birch**

**Diameter:** 4.5, 6.5, 7.5" Multi Trunk

**Height:** 26' **Spread:** 20'

**Condition:** Fair

**Location:** On plan

**Observation:** Surface rooting observed. Dormant at time of inspection.

**245 European white birch**

**Diameter:** 7.3" Multi Trunk

**Height:** 20' **Spread:** 16'

**Condition:** Fair

**Location:** On plan

**Observation:** Surface rooting observed. Dormant at time of inspection.

**246 European white birch**

**Diameter:** 4.7, 5.8, 6.0" Multi Trunk

**Height:** 18' **Spread:** 18'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Surface rooting observed. Dormant at time of inspection.

**247 European white birch**

**Diameter:** 5.6, 4.6, 4.1" Multi Trunk

**Height:** 16' **Spread:** 14'

**Condition:** Poor to Fair

**Location:** On plan

**Observation:** Surface rooting observed. Dormant at time of inspection.

**248 European white birch**

**Diameter:** 1.4, 1.4" Multi Trunk  
**Height:** 8' **Spread:** 6'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Newly installed tree.

**249 Silver dollar**

**Diameter:** 33.2"  
**Height:** 55' **Spread:** 50'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Narrow scaffold limb attachments. Poor rot environment.

**250 Crape myrtle**

**Diameter:** 1.1"  
**Height:** 7' **Spread:** 4'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Newly installed tree.

**251 Crape myrtle**

**Diameter:** 2.3"  
**Height:** 13' **Spread:** 9'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Young establishing tree.

**252 Crape myrtle**

**Diameter:** 2.3"  
**Height:** 13' **Spread:** 12'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Young establishing tree.

**253 Crape myrtle**

**Diameter:** 2.5"  
**Height:** 12' **Spread:** 12'  
**Condition:** Fair to Good  
**Location:** On plan  
**Observation:** Young establishing tree.

**254 Crape myrtle**

**Diameter:** 3.5"  
**Height:** 18' **Spread:** 16'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Young establishing tree.

**255 Crape myrtle**

**Diameter:** 2"  
**Height:** 10' **Spread:** 9'  
**Condition:** Poor to Fair  
**Location:** On plan  
**Observation:** Young establishing tree.

**256 Crape myrtle**

**Diameter:** 4.0"  
**Height:** 16' **Spread:** 13'  
**Condition:** Fair  
**Location:** On plan  
**Observation:** Young establishing tree.

**257 Blue gum**

**Diameter:** 10.3"  
**Height:** 24' **Spread:** 18'  
**Condition:** Fair  
**Location:** Backflow between 138 k 139  
**Observation:** Understory tree.

**TREE PRESERVATION GUIDELINES**

**Tree Preservation and Protection Plan**

In providing recommendations for tree preservation, we recognize that injury to trees as a result of construction include mechanical injuries to trunks, roots and branches, and injury as a result of changes that occur in the growing environment.

**To minimize these injuries, we recommend grading operations encroach no closer than six times the trunk diameter, (i.e. 30" diameter tree x 6=180" distance).** At this distance, buttress/anchoring roots would be preserved and minimal injury to the functional root area would be anticipated. Should encroachment within the area become necessary, hand digging is ***mandatory***.

**Barricades**

Prior to initiation of construction activity, temporary barricades should be installed around all trees in the construction area. Six-foot high, chain link fences are to be mounted on steel posts, driven 2 feet into the ground, at no more than 10-foot spacing. The fences shall enclose the entire area under the drip line of the trees or as close to the drip line area as practical. These barricades will be placed around individual trees and/or groups of trees as the existing environment dictates.

The temporary barricades will serve to protect trunks, roots and branches from mechanical injuries, will inhibit stockpiling of construction materials or debris within the sensitive 'drip line' areas and will prevent soil compaction from increased vehicular/pedestrian traffic. No storage of material, topsoil, vehicles or equipment shall be permitted within the tree enclosure area. The ground around the tree canopy shall not be altered. Designated areas beyond the drip lines of any trees should be provided for construction materials and onsite parking.

**Root Pruning (if necessary)**

During and upon completion of any trenching/grading operation within a tree's drip line, should any roots greater than one inch (1") in diameter be damaged, broken or severed, root pruning to include flush cutting and sealing of exposed roots should be accomplished under the supervision of a qualified Arborist to minimize root deterioration beyond the soil line ***within twenty-four (24) hours***.

**Pruning**

Pruning of the foliar canopies to include removal of deadwood is recommended and should be initiated prior to construction operations. Such pruning will provide any necessary construction clearance, will lessen the likelihood or potential for limb breakage, reduce 'windsail' effect and provide an environment suitable for healthy and vigorous growth.

### **Fertilization**

A program of fertilization by means of deep root soil injection is recommended with applications in spring and summer for those trees to be impacted by construction. Fertilizer should include organic

Such fertilization will serve to stimulate feeder root development, offset shock/stress as related to construction and/or environmental factors, encourage vigor, alleviate soil compaction and compensate for any encroachment of natural feeding root areas.

Inception of this fertilizing program is recommended prior to the initiation of construction activity.

### **Mulch**

Mulching with wood chips (maximum depth 3") within tree environments (outer foliar perimeter) will lessen moisture evaporation from soil, protect and encourage adventitious roots and minimize possible soil compaction.

### **Inspection**

Periodic inspections by the **Site Arborist** are recommended during construction activities, particularly as trees are impacted by trenching/grading operations.

Inspections at approximate four (4) week intervals would be sufficient to assess and monitor the effectiveness of the Tree Preservation Plan and to provide recommendations for any additional care or treatment.

All written material appearing herein constitutes original and unpublished work of the Arborist and may not be duplicated, used or disclosed without written consent of the Arborist.

We thank you for this opportunity to be of assistance in your tree preservation concerns.

Should you have any questions, or if we may be of further assistance in these concerns, kindly contact our office at any time.

Very truly yours,

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### ARBORIST DISCLOSURE STATEMENT

Arborists are tree specialists who use their education, knowledge, training and experience to examine trees, recommend measures to enhance the beauty and health of trees, and attempt to reduce the risk of living near trees. Clients may choose to accept or disregard the recommendations of the arborist, or seek additional advice.

Arborists cannot detect every condition that could possibly lead to the structural failure of a tree. Trees are living organisms that fail in ways we do not fully understand. Conditions are often hidden within trees and below ground. Arborists cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time. Likewise, remedial treatments, like a medicine, cannot be guaranteed.

Treatment, pruning, and removal of trees may involve considerations beyond the scope of the arborist's services such as property boundaries, property ownership, site lines, disputes between neighbors, landlord-tenant matters, etc. Arborists cannot take such issues into account unless complete and accurate information is given to the arborist. The person hiring the arborist accepts full responsibility for authorizing the recommended treatment or remedial measures.

Trees can be managed, but they cannot be controlled. To live near a tree is to accept some degree of risk. The only way to eliminate all risks is to eliminate all trees.

Arborist:

John H. McClenahan

Date:

February 20, 2017

## **Appendix C**

### **Cultural Resources Literature Search**



# holman & ASSOCIATES

## Archaeological Consultants

"SINCE THE BEGINNING"

3615 FOLSOM ST. SAN FRANCISCO,  
CALIFORNIA 94110 415/550-7286

1 March 2017

Caroline Weston  
David J. Powers & Associates  
1871 The Alameda, Suite 200  
San Jose, CA 95126

Re: Results of Cultural Resources Literature Search for the Aligned Data Center Project at 2305 Mission College Boulevard, City and County of Santa Clara

Dear Caroline:

Holman & Associates completed a CEQA-level records search for the Aligned Data Center Project in Santa Clara. The 17-acre project is located at 2305 Mission College Boulevard and is currently developed with an existing two-story 358,000 sf office building. The project proposes to demolish the existing building and construct a two-story, 400,000 sf data center and 90 MVA substation. The City of Santa Clara is the lead CEQA agency.

### Records Search Results

On 27 February 2017, a records search (File No. 16-1283) was conducted by the author at the Northwest Information Center of the California Historical Resources Information System (CHRIS), an adjunct to Sonoma State University located in Rohnert Park. All recorded cultural resource records and reports within the project area were reviewed. Additional research was conducted using Holman & Associates' library.

No cultural resources are recorded within the Project Area or within a quarter mile. Nor are any cultural resources listed in federal, or state listings within the Project Area (CA-DPR 1976; CA-OHP 2012; NPS 2017). In this portion of northern Santa Clara County, Native Americans often used lands adjacent to major creeks and rivers, as well as locations along the edge of the historic bay wetlands near freshwater sources to live, camp, and process resources. Lands adjacent to Guadalupe River were heavily used by Native Americans. The Project Area is located on a terrace just east of channelized San Tomas Aquino Creek and is 1.4 miles west of the Guadalupe River.

None of the Aligned Data Center Project Area was previously studied for cultural resources. The surrounding lands have been studied with no archaeological deposits or cultural materials identified. In 1978, ARS completed a survey on lands to the southeast and south of the current Project Area. At that time, the lands to the southeast were planted in a pear orchard that contained tall grasses. The parcel to the south of Mission College was also an orchard with high grasses. These researchers posited that the land had prehistorically been part of a salt marsh that was not a preferred environment for Native American sites.

In 1980, Chavez studied alternatives for the Guadalupe Transportation Corridor that included Mission College Boulevard. There are no indications the roadway was surveyed for that study.

As part of a 5.8-mile linear project for the South Bay Water Recycling Project, Mission College Boulevard was again studied and a field survey was conducted (Cartier et al. 1996). These researchers noted a distinct soil color change in the middle of Juliette Lane at Mission College. The native soil was a medium- to dark-brown silty loam that changed to loosely compacted, grayish brown friable silt, perhaps fill or residual flood materials. To the west of the current Project Area near Freedom Circle a single horn shell fragment was identified that was considered historical/recent. Because of the potential for buried archaeological sites, monitoring was recommended, but no subsequent studies documenting monitoring finds were filed with the CHRIS.

For a study examining the noise created by San Jose International Airport (now Mineta San Jose International Airport), architectural research of three areas was conducted including one designated the Agnews Area (Basin Research Associates, Corbett, and Minor 1998). While the current Project Area was located within their study area, no buildings or structures were identified within or adjacent to the current project footprint that were 45 years or older.

In 2001, a multi-location fiber optics study in San Francisco and Santa Clara included one project abutting the current Project Area counties (Jones & Stokes 2001). Their Exodus Old Ironsides Project spanned both east and west of San Tomas Aquino Creek on Mission College Boulevard, with nearby terraces on either side considered the most sensitive. The only area these researchers were able to survey was several blocks west of the current Project Area with no archaeological deposits identified.

Historic-era maps for the project area were examined to identify the potential for prehistoric and historic archaeological resources in the Aligned Data Center Project Area. In 1876, the land was owned by A. Agnew as part of his 120-acre parcel. Two houses, a reservoir, and row crops were located in the eastern portion of that parcel by the Alviso & Santa Clara Road (now Lafayette Street) well beyond the current Project Area (Thompson & West 1876). By 1899, one residence was located adjacent to San Tomas Aquino Creek set back from Agnew Road within or close to the western edge of the current Project Area (USC&GS 1899). At that time, the creek had not been channelized but still displayed a meandering course. By 1942, most of the Project Area was planted in orchards with the western portion unimproved (US Army 1942). The creek had been channelized with a straighter course. After 1951 and by 1953, the entire Project Area was planted in orchards (US Army 1947; USGS 1951, 1953). After 1961 and by 1968, San Tomas Aquino Creek had additional flood control improvements to its watercourse (USGS 1961, 1968). After 1973 and before 1980, the orchards were removed and a long narrow building was constructed (USGS 1973, 1980). By 1993, the current building configuration, parking lot, and tiny frame of landscaping were in place (GoogleEarth 2017).

## **Summary and Recommendations**

Since potential historical deposits were likely affected by flood control efforts along the creek to the west, there is a low to moderate possibility of intact historic-era archaeological deposits within the Project Area. Based on the project location's proximity to the San Tomas Aquino Creek, there is a moderate potential for Native American archaeological deposits or cultural materials within the Project Area. Holman & Associates recommends, that once the building has been demolished and the parking lot removed, a qualified archaeologist conduct mechanical presence/absence exploration for archaeological deposits and cultural materials. If any archaeological evidence is identified, additional recommendations will be tailored to the type of resource identified and the proposed planned improvements.

In the event that buried, or previously unrecognized archaeological deposits or materials of any kind are inadvertently exposed during any construction activity, work within 50 ft. of the find shall cease until a qualified archaeologist can assess the find and provide recommendations for further treatment, if warranted. Construction and potential impacts to the area(s) within a radius determined by the archaeologist shall not recommence until the assessment is complete.

Human graves are often associated with prehistoric occupation sites. Section 7050.5 of the California Health and Safety Code states that it is a misdemeanor to knowingly disturb a human burial and Section 5097.99 of the Public Resources Code defines the obtaining or possession of Native American remains or grave goods to be a felony. If human remains are encountered as a result of construction activities, any work in the vicinity shall be halted and the County Coroner contacted.

Should you have any questions, please contact Sunshine Psota, [spsota@sonic.net](mailto:spsota@sonic.net) or 707.291.8786.

Sincerely,

A handwritten signature in black ink that reads "Sunshine Psota". The signature is written in a cursive style with a large initial "S".

Sunshine Psota, M.A., RPA

## References

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### Basin Research Associates, Michael R. Corbett, and Woodruff C. Minor

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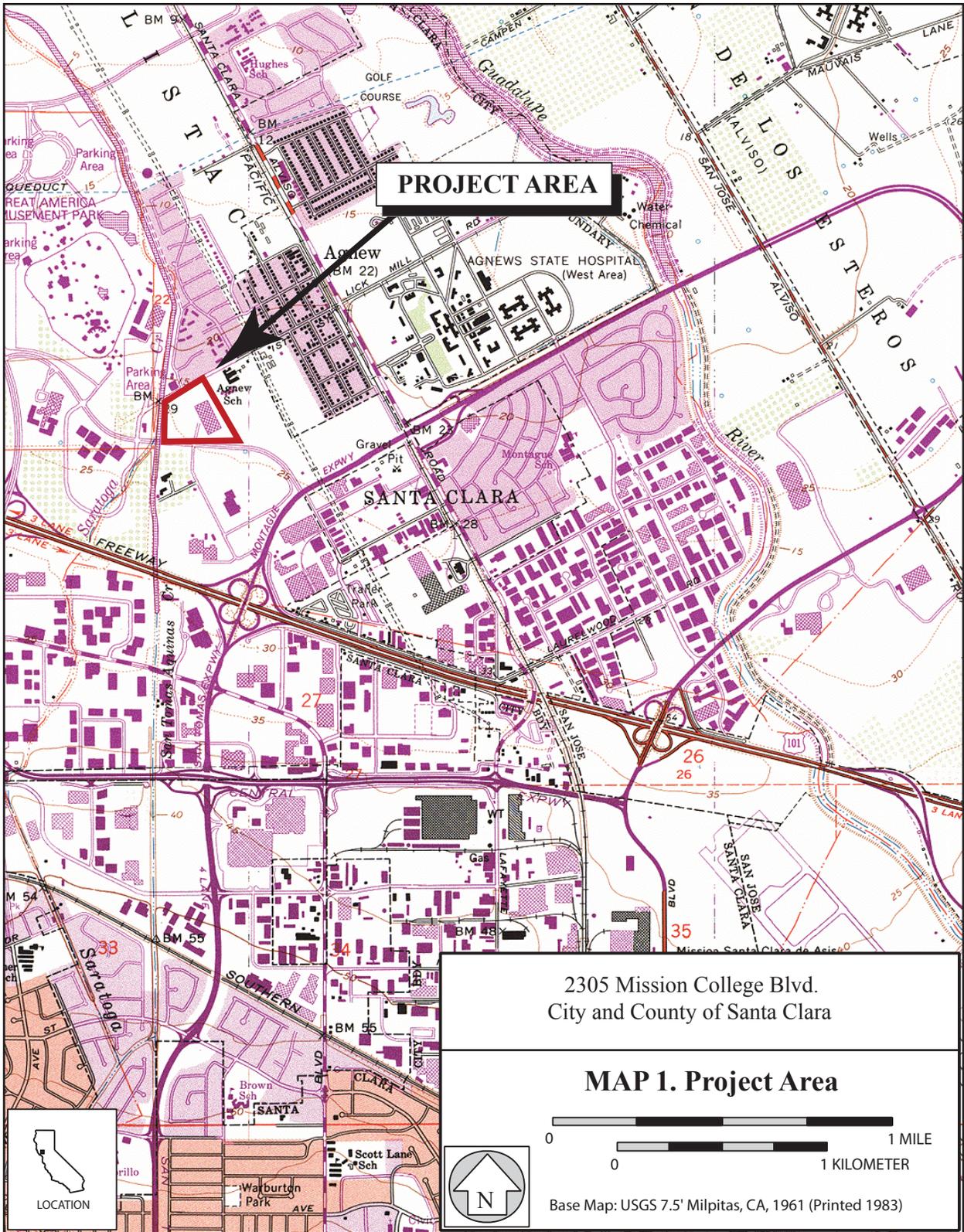
1947 San Jose, CA 15' Topographic Quadrangle.

### United States Coast and Geodetic Survey (USC&GS)

1899 Mountain View, CA 15' Topographic Quadrangle.

United States Geological Survey (USGS)

- 1951 Mountain View, CA 15' Topographic Quadrangle.
- 1953 Mountain View, CA 15' Topographic Quadrangle.
- 1961 Mountain View, CA 15' Topographic Quadrangle.
- 1968 Mountain View, CA 15' Topographic Quadrangle.
- 1973 Mountain View, CA 15' Topographic Quadrangle.
- 1980 Mountain View, CA 15' Topographic Quadrangle.



**PROJECT AREA**

2305 Mission College Blvd.  
City and County of Santa Clara

**MAP 1. Project Area**



Base Map: USGS 7.5' Milpitas, CA, 1961 (Printed 1983)



LOCATION



N



**Appendix D**  
**Geotechnical Investigation**

<b>Type of Services</b>	Geotechnical Investigation
<b>Project Name</b>	2305 Mission College Boulevard Data Center
<b>Location</b>	2305 Mission College Boulevard Santa Clara, California
<b>Client</b>	Aligned Data Centers
<b>Client Address</b>	980 Avenue of the Americas, Suite 406 New York, New York
<b>Project Number</b>	930-1-1
<b>Date</b>	January 18, 2016

Prepared by   
**Matthew J. Schaffer, P.E.**  
Project Engineer  
Geotechnical Project Manager



  
**C. Barry Butler, P.E., G.E.**  
Senior Principal Engineer  
Quality Assurance Reviewer



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<b>Type of Services</b>	<b>Geotechnical Investigation</b>
<b>Project Name</b>	<b>2305 Mission College Boulevard Data Center</b>
<b>Location</b>	<b>2305 Mission College Boulevard Santa Clara, California</b>

## **SECTION 1: INTRODUCTION**

This geotechnical report was prepared for the sole use of Aligned Data Centers for the 2305 Mission College Boulevard Data Center project in Santa Clara, California. The location of the site is shown on the Vicinity Map, Figure 1. For our use, we were provided with the following documents:

- A preliminary (draft) site plan titled "Aligned Data Centers Santa Clara," Sheet A – Site Plan, prepared by CAC Architects, dated September 21, 2016.
- A preliminary (draft) phasing and site plan titled "Aligned Data Centers Santa Clara," Sheet A – Site Plan, prepared by CAC Architects, dated September 21, 2016.
- A flood analysis letter titled "2305 Mission College Boulevard 500-year and 1000-year Flood Analysis Summary," prepared by Schaaf & Wheeler Consulting Civil Engineers, dated September 30, 2016.
- An ALTA survey titled "ALTA/ACSM Land Title Survey, For: 2305 MCB, LLC, 2305 Mission College Boulevard, Santa Clara, California," Sheet 2, prepared by Kier & Wright Civil Engineers & Surveyors, Inc., dated October 27, 2014.

### **1.1 PROJECT DESCRIPTION**

The project will consist of demolishing the existing building and improvements at the site and constructing a new 2-level, steel-framed data center building with an approximate 201,000-square-foot footprint. Site improvements will also consist of a substation and associated data center structures/equipment including transformers, switchgear lineups, inverter modules, water tanks, and generators. Appurtenant parking, drive aisles, utilities, landscaping, and other improvements necessary for site development are also planned.

Based on the preliminary building loading you provided, dead plus live columns loads for the data hall and electric rooms with mezzanines are 516 kips and 427 kips, respectively. Based on

the associated structure/equipment loads you provided, diesel generators with belly tanks are to be 98 kips, pad mount transformers are to be 15 kips, switchgear lineups are to be 27 to 48 kips, utility transformers are to be 50 kips, UPS sections are to be 47 kips, single and double stack inverter modules are to be 46 and 100 kips, and 20,000 gallon water tanks are to be 167 kips.

Based on the flood analysis letter provided and correspondence with you, we understand the overall site grades will be raised to Elevation 25 feet (NAVD88), which is two feet above the FEMA 100 year flood elevation and the building's finished floor elevation will be Elevation 27 feet (two feet above the highest grade) . The highest grades will be around the building perimeter and slope down to the street level along Mission College Boulevard and Agnew Road. An approximately 3- to 4-foot high retaining wall will be constructed along the eastern property line. At this time, we have not been provided a topographic survey of the existing site grades. However, based on the above information and elevations provided by Google Earth, it appears site grades will be raised about 0 to 5 feet above existing grades.

## **1.2 SCOPE OF SERVICES**

Our scope of services was presented in our proposal dated June 21, 2016, and consisted of field and laboratory programs to evaluate physical and engineering properties of the subsurface soils, engineering analysis to prepare recommendations for site work and grading, building foundations, flatwork, retaining walls, and pavements, and preparation of this report. Brief descriptions of our exploration and laboratory programs are presented below.

## **1.3 EXPLORATION PROGRAM**

Field exploration consisted of five borings drilled on December 9, 2016, with truck-mounted, hollow-stem auger drilling equipment and six Cone Penetration Tests (CPTs) advanced on November 14, 2016. The borings were drilled to depths of about 20 to 39½ feet; the CPTs were advanced to depths of approximately 40 to 101 feet. Seismic shear wave velocity measurements were collected from CPT-5. Borings EB-1, EB-3, EB-4, and EB-5 were advanced adjacent to CPT-1, CPT-3, CPT-4, and CPT-5, respectively, for direct evaluation of physical samples to correlated soil behavior.

The borings and CPTs were backfilled with cement grout in accordance with local requirements; exploration permits were obtained as required by local jurisdictions. The approximate locations of our exploratory borings and CPTs are shown on the Site Plan, Figure 2. Details regarding our field program are included in Appendix A.

## **1.4 LABORATORY TESTING PROGRAM**

In addition to visual classification of samples, the laboratory program focused on obtaining data for foundation design and seismic ground deformation estimates. Testing included moisture contents, dry densities, a washed sieve analysis, a Plasticity Index tests, unconsolidated-undrained triaxial shear tests, and consolidation tests. Details regarding our laboratory program are included in Appendix B.

## 1.5 CORROSION EVALUATION

Three samples from our borings at depths of 1 to 4 feet were tested for saturated resistivity, pH, and soluble sulfates and chlorides. JDH Corrosion Consultants prepared a brief corrosion evaluation based on the laboratory data, which is attached to this report in Appendix C. In general, the on-site soils can be characterized as corrosive to buried metal, and non-corrosive to corrosive to buried concrete.

## 1.6 ENVIRONMENTAL SERVICES

Environmental services were not requested for this project. If environmental concerns are determined to be present during future evaluations, the project environmental consultant should review our geotechnical recommendations for compatibility with the environmental concerns.

## SECTION 2: REGIONAL SETTING

### 2.1 GEOLOGICAL SETTING

The site is located within the Santa Clara Valley, which is a broad alluvial plane between the Santa Cruz Mountains to the southwest and west, and the Diablo Range to the northeast. The San Andreas Fault system, including the Monte Vista-Shannon Fault, exists within the Santa Cruz Mountains and the Hayward and Calaveras Fault systems exist within the Diablo Range. Alluvial soil thickness in the area of the site is greater than 500 feet (Rogers & Williams, 1974).

### 2.2 REGIONAL SEISMICITY

The San Francisco Bay area region is one of the most seismically active areas in the Country. While seismologists cannot predict earthquake events, geologists from the U.S. Geological Survey have recently updated earlier estimates from their 2014 Uniform California Earthquake Rupture Forecast (Version 3) publication. The estimated probability of one or more magnitude 6.7 earthquakes (the size of the destructive 1994 Northridge earthquake) expected to occur somewhere in the San Francisco Bay Area has been revised (increased) to 72 percent for the period 2014 to 2043 (Aagaard et al., 2016). The faults in the region with the highest estimated probability of generating damaging earthquakes between 2014 and 2043 are the Hayward (33%), Rodgers Creek (33%), Calaveras (26%), and San Andreas Faults (22%). In this 30-year period, the probability of an earthquake of magnitude 6.7 or larger occurring is 22 percent along the San Andreas Fault and 33 percent for the Hayward or Rodgers Creek Faults.

The faults considered capable of generating significant earthquakes are generally associated with the well-defined areas of crustal movement, which trend northwesterly. The table below presents the State-considered active faults within 25 kilometers of the site.

**Table 1: Approximate Fault Distances**

Fault Name	Distance	
	(miles)	(kilometers)
Hayward (Southeast Extension)	6.3	10.1
Monte Vista-Shannon	7.8	12.6
Hayward (Total Length)	8.8	14.1
Calaveras	9.9	16.0
San Andreas (1906)	11.3	18.2

A regional fault map is presented as Figure 3, illustrating the relative distances of the site to significant fault zones.

### **SECTION 3: SITE CONDITIONS**

#### **3.1 SURFACE DESCRIPTION**

The site is bounded by San Thomas Aquino Creek to the west, Agnew Road to the north, one- and two-story technology buildings to the east, and Mission College Boulevard to the south. The site is currently developed with a two-story building and surrounding asphalt parking lots. Landscaping areas containing grass, shrubs, and mature trees are generally scattered throughout the parking lots, around the perimeter of the site, and along the south side of the existing building.

The site is relatively flat with Elevations of about 19 to 25 feet (Google Earth, 2016) and is graded slightly up to the existing building and to drain to storm drain facilities. The San Thomas Aquino Creek parallels the west side of the property, has a levee extending roughly 6½ to 7 feet above the adjacent site grades, has side slopes at roughly 2:1 (H:V) to 3:1 (H:V), and is about 12 to 14 feet deep below the adjacent site grades.

Surface pavements generally consisted of 1 to 3 inches of asphalt concrete over 2 to 4 inches of aggregate base. Based on visual observations, the existing pavements range from generally good to poor condition, with areas of significant alligator cracking.

#### **3.2 SUBSURFACE CONDITIONS**

Below the surface pavement sections, Boring EB-4 encountered undocumented fill consisting of clayey sand to a depth of 2 feet below the surface. Below the undocumented fill at Boring EB-4 and the surface pavements at our other explorations, our explorations generally encountered stiff to hard lean clays with variable amounts of sand. The lean clays were interbedded with some loose to dense layers of silty, clayey, and poorly graded sands with variable amounts of silt, clay, and gravel. Some larger, about 8 to 12 foot thick layers of sand were encountered at depths ranging from about 12 to 24 feet in Borings EB-1 and EB-4 and the paired CPT-1 and CPT-4. An approximate 5-foot thick sandy silt layer was encountered at a depth of about 9 feet

in Boring EB-2 and our deeper CPT exploration generally inferred a clayey silt to silty clay profile below a depth of about 50 feet.

### **3.2.1 Plasticity/Expansion Potential**

We performed one Plasticity Index (PI) test on a representative sample. The test result was used to evaluate the expansion potential of the surficial soils. The result of the PI test indicated a PI of 31, indicating high expansion potential to wetting and drying cycles.

### **3.2.2 In-Situ Moisture Contents**

Laboratory testing indicated that the in-situ moisture contents within the upper 10 feet range from near optimum to about 8 to 10 percent over the estimated laboratory optimum moisture.

## **3.3 GROUND WATER**

Ground water was encountered in our borings at depths of 8 to 11 feet below existing grades. Ground water was inferred at depths of approximately 13, 3, 13½, and 10 feet below current grades in CPT-1, CPT-3, CPT-4, and CPT-5, respectively, based on pore pressure dissipation tests. Historic high ground water levels are mapped at a depth of approximately 6 feet below current grades (CGS, Milpitas 7.5 Minute Quadrangle, 2001). In general, fluctuations in ground water levels occur due to many factors including seasonal fluctuation, underground drainage patterns, regional fluctuations, and other factors. Based on the above information, we anticipate a high ground water level of 6 feet below existing grades and recommend a ground water level of 6 feet be used for design.

## **SECTION 4: GEOLOGIC HAZARDS**

### **4.1 FAULT RUPTURE**

As discussed above several significant faults are located within 25 kilometers of the site. The site is not located within a State-designated Alquist Priolo Earthquake Fault Zone or a Santa Clara County Fault Hazard Zone. As shown in Figure 3, no known surface expression of fault traces is thought to cross the site; therefore, fault rupture hazard is not a significant geologic hazard at the site.

### **4.2 ESTIMATED GROUND SHAKING**

Moderate to severe (design-level) earthquakes can cause strong ground shaking, which is the case for most sites within the Bay Area. A peak ground acceleration ( $PGA_M$ ) was estimated for analysis using a value equal to  $F_{PGA} \times PGA$ , as allowed in the 2016 edition of the California Building Code. For our liquefaction analysis we used a PGA of 0.500g.

### 4.3 LIQUEFACTION POTENTIAL

The site is within a State-designated Liquefaction Hazard Zone (CGS, Milpitas Quadrangle, 2004) as well as a Santa Clara County Liquefaction Hazard Zone (Santa Clara County, 2004). Our field and laboratory programs addressed this issue by testing and sampling potentially liquefiable layers to depths of at least 50 feet, performing visual classification on sampled materials, evaluating CPT data, and performing various tests to further classify soil properties.

#### 4.3.1 Background

During strong seismic shaking, cyclically induced stresses can cause increased pore pressures within the soil matrix that can result in liquefaction triggering, soil softening due to shear stress loss, potentially significant ground deformation due to settlement within sandy liquefiable layers as pore pressures dissipate, and/or flow failures in sloping ground or where open faces are present (lateral spreading) (NCEER 1998). Limited field and laboratory data is available regarding ground deformation due to settlement; however, in clean sand layers settlement on the order of 2 to 4 percent of the liquefied layer thickness can occur. Soils most susceptible to liquefaction are loose, non-cohesive soils that are saturated and are bedded with poor drainage, such as sand and silt layers bedded with a cohesive cap.

#### 4.3.2 Analysis

As discussed in the "Subsurface" section above, several sand layers were encountered below the design ground water depth of 6 feet. Following the liquefaction analysis framework in the 2008 monograph, *Soil Liquefaction During Earthquakes* (Idriss and Boulanger, 2008), incorporating updates in *CPT and SPT Based Liquefaction Triggering Procedures* (Boulanger and Idriss, 2014), and in accordance with CDMG Special Publication 117A guidelines (CDMG, 2008) for quantitative analysis, these layers were analyzed for liquefaction triggering and potential post-liquefaction settlement. These methods compare the ratio of the estimated cyclic shaking (Cyclic Stress Ratio - CSR) to the soil's estimated resistance to cyclic shaking (Cyclic Resistance Ratio - CRR), providing a factor of safety against liquefaction triggering. Factors of safety less than or equal to 1.3 are considered to be potentially liquefiable and capable of post-liquefaction re-consolidation (i.e. settlement).

The CSR for each layer quantifies the stresses anticipated to be generated due to a design-level seismic event, is based on the peak horizontal acceleration generated at the ground surface discussed in the "Estimated Ground Shaking" section above, and is corrected for overburden and stress reduction factors as discussed in the procedure developed by Seed and Idriss (1971) and updated in the 2008 Idriss and Boulanger monograph.

The soil's CRR is estimated from the in-situ measurements from CPTs and laboratory testing on samples retrieved from our borings. SPT "N" values obtained from hollow-stem auger borings were not used in our analyses, as the "N" values obtained are less reliable in sands below ground water. The tip pressures are corrected for effective overburden stresses, taking into consideration both the ground water level at the time of exploration and the design ground water

level, and stress reduction versus depth factors. The CPT method utilizes the soil behavior type index ( $I_c$ ) to estimate the plasticity of the layers.

In estimating post-liquefaction settlement at the site, we have implemented a depth weighting factor proposed by Cetin (2009). Following evaluation of 49 high-quality, cyclically induced, ground settlement case histories from seven different earthquakes, Cetin proposed the use of a weighting factor based on the depth of layers. The weighting procedure was used to tune the surface observations at liquefaction sites to produce a better model fit with measured data. Aside from the better model fit it produced, the rationale behind the use of a depth weighting factor is based on the following: 1) upward seepage, triggering void ratio redistribution, and resulting in unfavorably higher void ratios for the shallower sublayers of soil layers; 2) reduced induced shear stresses and number of shear stress cycles transmitted to deeper soil layers due to initial liquefaction of surficial layers; and 3) possible arching effects due to nonliquefied soil layers. All these may significantly reduce the contribution of volumetric settlement of deeper soil layers to the overall ground surface settlement (Cetin, 2009).

The results of our CPT analyses (CPT-1 to CPT-6) are presented on Figures 4A to 4F of this report. Calculations for these CPTs are attached as Appendix D.

#### **4.3.3 Summary**

Our analyses indicate that several layers could potentially experience liquefaction triggering that could result in post-liquefaction total settlement at the ground surface ranging from less than  $\frac{1}{4}$  inch to 1 inch based on the Yoshimine (2006) method. At locations within the proposed building area, our CPT analyses indicate post-liquefaction total settlement at the ground surface ranging from less than  $\frac{1}{4}$  inch to  $\frac{3}{8}$  inch. As discussed in Special Publication 117A, differential movement for level ground sites over deep soil sites will be up to about two-thirds of the total settlement between independent foundation elements. In our opinion, differential settlements are anticipated to be on the order of  $\frac{1}{2}$ -inch between independent foundation elements for the proposed building and on the order of  $\frac{3}{8}$ -inch between independent foundation elements for the supplemental structures/equipment areas.

#### **4.3.4 Ground Rupture Potential**

The methods used to estimate liquefaction settlements assume that there is a sufficient cap of non-liquefiable material to prevent ground rupture or sand boils. For ground rupture to occur, the pore water pressure within the liquefiable soil layer will need to be great enough to break through the overlying non-liquefiable layer, which could cause significant ground deformation and settlement. The work of Youd and Garris (1995) indicates that the 9-foot and greater thick layer of non-liquefiable cap is sufficient to prevent ground rupture; therefore, the above total settlement estimates are reasonable.

### **4.4 LATERAL SPREADING**

Lateral spreading is horizontal/lateral ground movement of relatively flat-lying soil deposits towards a free face such as an excavation, channel, or open body of water; typically lateral

spreading is associated with liquefaction of one or more subsurface layers near the bottom of the exposed slope. As failure tends to propagate as block failures, it is difficult to analyze and estimate where the first tension crack will form.

The top of the eastern bank of the San Thomas Aquino Creek is located as close as about 30 feet west of the project site boundary, and has an estimated bank height of about 10 to 14 feet, based on site observations and elevations provided by Google Earth®. In general, lateral spreading is considered when an open face (Height = D) is within about 40D of a site. Since the project site is within this criteria, we analyzed the site for lateral spreading using analytical methods outlined in the 2008 monograph, *Soil Liquefaction During Earthquakes* (Idriss and Boulanger, 2008) and *CPT and SPT Based Liquefaction Triggering Procedures* (Boulanger and Idriss, 2014) by calculating Lateral Displacement Index (LDI) values at each CPT location. The LDI is calculated by integrating maximum shear strains versus depth, representing a measure of the potential maximum displacement (Zhang et al., 2004).

At our exploration locations closest to and adjacent to San Thomas Aquino Creek (CPT-1 and CPT-4) our analyses indicates potential for lateral displacement with LDI values of 0.81 and 0.79, respectively, and potential lateral displacements ranging from 0.4 to 1.6 feet. At our other exploration locations to the east of CPT-1 and CPT-4 and generally in the location of the proposed data center building, our analyses indicate LDI values of 0.0 to 0.02 and potential lateral displacement of 0.0 feet.

Based on the above, the potential for lateral displacement affecting the proposed data center building appears low. However, the potential for lateral spreading appears possible to affect the proposed substation and associated data center structures/equipment located between the creek and the west side of the proposed data center building. To protect these improvements, a shear key should be constructed between the creek and the western border of improvements. If desired, to further evaluate the horizontal distance into the site at which the potential for lateral spreading appears possible, further CPT exploration should be performed between CPT-1 and CPT-4 and the western side of the proposed data center building.

#### **4.5 SEISMIC SETTLEMENT/UNSATURATED SAND SHAKING**

Loose unsaturated sandy soils can settle during strong seismic shaking. As the soils encountered at the site above the design ground water depth of 6 feet below the existing ground surface were predominantly stiff to hard clays, in our opinion, the potential for significant differential seismic settlement affecting the proposed improvements is low.

#### **4.6 TSUNAMI/SEICHE**

The terms tsunami or seiche are described as ocean waves or similar waves usually created by undersea fault movement or by a coastal or submerged landslide. Tsunamis may be generated at great distance from shore (far field events) or nearby (near field events). Waves are formed, as the displaced water moves to regain equilibrium, and radiates across the open water, similar to ripples from a rock being thrown into a pond. When the waveform reaches the coastline, it quickly raises the water level, with water velocities as high as 15 to 20 knots. The water mass,

as well as vessels, vehicles, or other objects in its path create tremendous forces as they impact coastal structures.

Tsunamis have affected the coastline along the Pacific Northwest during historic times. The Fort Point tide gauge in San Francisco recorded approximately 21 tsunamis between 1854 and 1964. The 1964 Alaska earthquake generated a recorded wave height of 7.4 feet and drowned eleven people in Crescent City, California. For the case of a far-field event, the Bay area would have hours of warning; for a near field event, there may be only a few minutes of warning, if any.

A tsunami or seiche originating in the Pacific Ocean would lose much of its energy passing through San Francisco Bay. Based on the study of tsunami inundation potential for the San Francisco Bay Area (Ritter and Dupre, 1972), areas most likely to be inundated are marshlands, tidal flats, and former bay margin lands that are now artificially filled, but are still at or below sea level, and are generally within 1½ miles of the shoreline. The site is approximately 5½ miles inland from the San Francisco Bay shoreline, and is approximately 19 to 25 feet above mean sea level according to Google Earth®. Therefore, the potential for inundation due to tsunami or seiche is considered low.

#### **4.7 FLOODING**

Based on our internet search of the Federal Emergency Management Agency (FEMA) flood map public database, the site is located within Zone X and Zone AH. Zone X is described as “Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage area less than 1 square mile; and areas protected by levees from 1% annual chance flood.” Zone AH is described as “Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevation determined to be Elevation 23 feet.” We recommend the project civil engineer be retained to confirm this information and verify the base flood elevation, if appropriate.

### **SECTION 5: CONCLUSIONS**

#### **5.1 SUMMARY**

From a geotechnical viewpoint, the project is feasible provided the concerns listed below are addressed in the project design. Descriptions of each concern with brief outlines of our recommendations follow the listed concerns.

- Potential for significant static and seismic settlements
- Potential for lateral spreading
- Shallow ground water
- Highly expansive soils
- Undocumented fill

- Potential for fill settlement
- Soil corrosion potential

### **5.1.1 Potential for Significant Static and Seismic Settlements**

As discussed, our liquefaction analysis indicates that there is a potential for liquefaction of localized sand layers during a significant seismic event. Although the potential for liquefied sands to vent to the ground surface through cracks in the surficial soils is low, our analysis indicates that differential seismic movement from liquefaction could be on the order of ½-inch between independent foundation elements for the proposed data center building and on the order of ¾-inch between independent foundation elements for the supplemental structures/equipment areas outside the building along San Thomas Aquino Creek.

In addition to seismic settlement, we have analyzed static settlements due to the static dead plus live column loads provided for the proposed data center building. We estimate total static settlement for conventional shallow footings would be up to about 1¾ inches, resulting in approximately 1 inch of post-construction differential settlement between independent foundation elements for the data center building.

The building foundations will need to be designed to tolerate total and differential settlements due to static loads and liquefaction-induced settlement. Detailed foundation recommendations are presented in the “Foundations” section.

### **5.1.2 Potential for Lateral Spreading**

As previously discussed, there is a potential for lateral spreading towards the adjacent San Thomas Aquino Creek. Lateral spreading appears possible for the substation and associated data center structures/equipment located to the west of the proposed data center building. However, the potential for lateral spreading does not appear to extend to the proposed data center building and therefore appears to be low at the location of the proposed building. If desired to protect the substation and associated data center structures/equipment to the west of the proposed building, the site can be mitigated to reduce the potential for lateral spreading. Typical techniques to mitigate the potential for lateral spreading include ground improvement to construct a shear key or the installation of shear (pin) piles to effectively create a shear key. If mitigation recommendations are desired, we should be retained to provide design recommendations. Additionally, to further evaluate the horizontal distance into the site at which lateral spreading does not appear possible, further CPT exploration should be performed.

### **5.1.3 Shallow Ground Water**

Shallow ground water was measured at depths ranging from approximately 8 to 11 feet below the existing ground surface in our borings. We anticipate ground water may be present at depths as shallow as 6 feet below the existing ground surface, and can be perched in granular layers above ground water levels. Our experience with similar sites in the vicinity indicates that shallow ground water could significantly impact grading and underground construction. These impacts typically consist of potentially wet and unstable pavement subgrade, difficulty achieving

compaction, and difficult underground utility installation. Dewatering and shoring of utility trenches may be required in some isolated areas of the site. Detailed recommendations addressing this concern are presented in the “Earthwork” section of this report.

#### **5.1.4 Highly Expansive Soils**

Highly expansive surficial soils generally blanket the site. Expansive soils can undergo significant volume change with changes in moisture content. They shrink and harden when dried and expand and soften when wetted. To reduce the potential for damage to the planned structures, slabs-on-grade should have sufficient reinforcement and be supported on a layer of non-expansive fill; footings should extend below the zone of seasonal moisture fluctuation. In addition, it is important to limit moisture changes in the surficial soils by using positive drainage away from buildings and supplemental structures/equipment as well as limiting landscaping watering. Detailed grading and foundation recommendations addressing this concern are presented in the following sections.

#### **5.1.5 Undocumented Fill**

As mentioned, undocumented fill consisting of clayey sand was encountered in Boring EB-4 to a depth of 2 feet below the surface. While fill was not encountered in our other borings, undocumented fill can be variable in thickness, density, and consistency across the site. We recommend any fill be completely removed from within the building and supplemental structure/equipment areas. Please refer to Section 6.2 below for further recommendations.

#### **5.1.6 Potential for Fill Settlement**

As discussed, we understand site grades will be raised to Elevation 25 feet. As a result, it appears site grades will be raised from 0 to about 5 feet above existing grades across the site. This additional fill would cause settlement of the existing soils in addition to settlement due to foundation loads or seismic settlement. We estimate maximum settlement of up to 1 inch due to new fills.

#### **5.1.7 Soil Corrosion Potential**

A preliminary soil corrosion screening was performed by JDH Corrosion Consultants based on the results of analytical tests on samples of the near-surface soil. The JDH report concludes that the corrosion potential for buried concrete warrants the use of Type II cement, the water/cement ratio should not exceed 0.45, and there should be minimum depth of 3 inches over reinforcing steel. The JDH report also concludes the corrosion potential for buried metallic structures, such as ductile/cast iron, steel, and dielectric coated steel, is considered corrosive. JDH recommends that special requirements for corrosion control be made to protect metal pipes. A more detailed discussion of the site corrosion evaluation is presented in Appendix C.

## **5.2 PLANS AND SPECIFICATIONS REVIEW**

We recommend that we be retained to review the geotechnical aspects of the project structural, civil, and landscape plans and specifications, allowing sufficient time to provide the design team with any comments prior to issuing the plans for construction.

## **5.3 CONSTRUCTION OBSERVATION AND TESTING**

As site conditions may vary significantly between the small-diameter borings performed during this investigation, we also recommend that a Cornerstone representative be present to provide geotechnical observation and testing during earthwork and foundation construction. This will allow us to form an opinion and prepare a letter at the end of construction regarding contractor compliance with project plans and specifications, and with the recommendations in our report. We will also be allowed to evaluate any conditions differing from those encountered during our investigation, and provide supplemental recommendations as necessary. For these reasons, the recommendations in this report are contingent of Cornerstone providing observation and testing during construction. Contractors should provide at least a 48-hour notice when scheduling our field personnel.

## **SECTION 6: EARTHWORK**

### **6.1 SITE DEMOLITION, CLEARING AND PREPARATION**

#### **6.1.1 Site Stripping**

The site should be stripped of all surface vegetation, and surface and subsurface improvements within the proposed development area. Demolition of existing improvements is discussed in detail below. A detailed discussion of removal of existing fills is provided later in this report. Surface vegetation and topsoil should be stripped to a sufficient depth to remove all material greater than 3 percent organic content by weight.

#### **6.1.2 Tree and Shrub Removal**

Trees and shrubs designated for removal should have the root balls and any roots greater than ½-inch diameter removed completely. Mature trees are estimated to have root balls extending to depths of 2 to 4 feet, depending on the tree size. Significant root zones are anticipated to extend to the diameter of the tree canopy. Grade depressions resulting from root ball removal should be cleaned of loose material and backfilled in accordance with the recommendations in the "Compaction" section of this report.

#### **6.1.3 Demolition of Existing Slabs, Foundations and Pavements**

All slabs, foundations, and pavements should be completely removed from within planned building and supplemental structure/equipment pad areas. Slabs, foundations, and pavements that extend into planned flatwork, pavement, or landscape areas may be left in place provided there is at least 3 feet of engineered fill overlying the remaining materials, they are shown not to

conflict with new utilities, and that asphalt and concrete more than 10 feet square is broken up to provide subsurface drainage. A discussion of recycling existing improvements is provided later in this report.

#### **6.1.4 Abandonment of Existing Utilities**

All utilities should be completely removed from within planned building and supplemental structure/equipment pad areas. For any utility line to be considered acceptable to remain within building and supplemental structure/equipment pad areas, the utility line must be completely backfilled with grout or sand-cement slurry (sand slurry is not acceptable), the ends outside the building area capped with concrete, and the trench fills either removed and replaced as engineered fill with the trench side slopes flattened to at least 1:1, or the trench fills are determined not to be a risk to the structure. The assessment of the level of risk posed by the particular utility line will determine whether the utility may be abandoned in place or needs to be completely removed. The contractor should assume that all utilities will be removed from within building and supplemental structure/equipment pad areas unless provided written confirmation from both the owner and the geotechnical engineer.

Utilities extending beyond the building and supplemental structure/equipment pad areas may be abandoned in place provided the ends are plugged with concrete, they do not conflict with planned improvements, and that the trench fills do not pose significant risk to the planned surface improvements.

The risks associated with abandoning utilities in place include the potential for future differential settlement of existing trench fills, and/or partial collapse and potential ground loss into utility lines that are not completely filled with grout. In general, the risk is relatively low for single utility lines less than 4 inches in diameter, and increases with increasing pipe diameter.

#### **6.2 REMOVAL OF EXISTING FILLS**

While undocumented fill was only encountered in Boring EB-4, any fills encountered during site grading should be completely removed from within the building areas and supplemental structure/equipment pad areas. Fill should be removed to a lateral distance of at least 5 feet beyond the building footprint and supplemental structure/equipment pad areas or to a lateral distance equal to fill depth below the perimeter footing, whichever is greater. Provided the fills meet the "Material for Fill" requirements below, the fills may be reused when backfilling the excavations. If materials are encountered that do not meet the requirements, such as debris, wood, trash, those materials should be screened out of the remaining material and be removed from the site. Backfill of excavations should be placed in lifts and compacted in accordance with the "Compaction" section below.

Fills extending into planned pavement and flatwork areas may be left in place provided they are determined to be a low risk for future differential settlement and that the upper 12 to 18 inches of fill below pavement subgrade is re-worked and compacted as discussed in the "Compaction" section below.

### **6.3 TEMPORARY CUT AND FILL SLOPES**

The contractor is responsible for maintaining all temporary slopes and providing temporary shoring where required. Temporary shoring, bracing, and cuts/fills should be performed in accordance with the strictest government safety standards. On a preliminary basis, the upper 5 feet at the site may be classified as OSHA Soil Type C materials. A competent person should determine the actual soil classification during construction and be responsible for implementing and maintaining safe excavation slope inclination and/or shoring at the site during construction.

Excavations performed during site demolition and fill removal should be sloped at 3:1 (horizontal:vertical) within the upper 5 feet below building subgrade. Excavations extending more than 5 feet below building subgrade and excavations in pavement and flatwork areas should be slope at a 1.5:1 inclination unless the OSHA soil classification indicates differently.

### **6.4 GROUND WATER**

As previously stated, ground water was encountered at approximately 8 to 11 feet below existing grade in our borings. We recommend that contractors anticipate dewatering to control water seeping into deeper excavations close to or below the ground water. Ground water conditions can be difficult to handle, and if the ground water is in a relatively widespread, continuous layer, it may be hard to dewater, requiring continuous dewatering during excavations.

### **6.5 SUBGRADE PREPARATION**

After site clearing and demolition is complete, and prior to backfilling any excavations resulting from fill removal or demolition, the excavation subgrade and subgrade within areas to receive additional site fills, slabs-on-grade and/or pavements should be scarified to a depth of 6 inches, moisture conditioned, and compacted in accordance with the "Compaction" section below.

### **6.6 SUBGRADE STABILIZATION MEASURES**

Soil subgrade and fill materials, especially soils with high fines contents such as clays and silty soils, can become unstable due to high moisture content, whether from high in-situ moisture contents or from winter rains. As the moisture content increases over the laboratory optimum, it becomes more likely the materials will be subject to softening and yielding (pumping) from construction loading or become unworkable during placement and compaction.

As discussed in the "Subsurface" section in this report, the in-situ moisture contents range from near optimum to about 8 to 10 percent over the estimated laboratory optimum in the upper 10 feet of the soil profile. The contractor should anticipate needing to dry some of soils prior to reusing them as fill. In addition, repetitive rubber-tire loading may de-stabilize the soils.

There are several methods to address potentially unstable soil conditions and facilitate fill placement and trench backfill. Some of the methods are briefly discussed below.

Implementation of the appropriate stabilization measures should be evaluated on a case-by-case basis according to the project construction goals and the particular site conditions.

#### **6.6.1 Scarification and Drying**

The subgrade may be scarified to a depth of 8 to 12 inches and allowed to dry to near optimum conditions, if sufficient dry weather is anticipated to allow sufficient drying. More than one round of scarification may be needed to break up the soil clods.

#### **6.6.2 Removal and Replacement**

As an alternative to scarification, the contractor may choose to over-excavate the unstable soils and replace them with dry on-site or import materials. A Cornerstone representative should be present to provide recommendations regarding the appropriate depth of over-excavation, whether a geosynthetic (stabilization fabric or geogrid) is recommended, and what materials are recommended for backfill.

#### **6.6.3 Chemical Treatment**

Where the unstable area exceeds about 5,000 to 10,000 square feet and/or site winterization is desired, chemical treatment with quicklime (CaO), kiln-dust, or cement may be more cost-effective than removal and replacement. Recommended chemical treatment depths will typically range from 12 to 18 inches depending on the magnitude of the instability.

### **6.7 MATERIAL FOR FILL**

#### **6.7.1 Re-Use of On-site Soils**

On-site soils with an organic content less than 3 percent by weight may be reused as general fill. General fill should not have lumps, clods or cobble pieces larger than 6 inches in diameter; 85 percent of the fill should be smaller than 2½ inches in diameter. Minor amounts of oversized material (smaller than 12 inches in diameter) may be allowed provided the oversized pieces are not allowed to nest together and the compaction method will allow for loosely placed lifts not exceeding 12 inches.

#### **6.7.2 Re-Use of On-Site Site Improvements**

We anticipate that asphalt concrete (AC) grindings and aggregate base (AB) will be generated during site demolition. If the AC grindings are mixed with the underlying AB to meet Class 2 AB specifications, they may be reused within the new pavement and flatwork structural sections. AC/AB grindings may not be reused beneath the habitable areas. Laboratory testing will be required to confirm the grindings meet project specifications.

If the site area allows for on-site pulverization of PCC and provided the PCC is pulverized to meet the "Material for Fill" requirements of this report, it may be used as select fill within the building areas, excluding the capillary break layer; as typically pulverized PCC comes close to

or meets Class 2 AB specifications, the recycled PCC may likely be used within the pavement structural sections. PCC grindings also make good winter construction access roads, similar to a cement-treated base (CTB) section.

### **6.7.3 Potential Import Sources**

Imported and non-expansive material should be inorganic with a Plasticity Index (PI) of 15 or less, and not contain recycled asphalt concrete where it will be used within habitable areas. To prevent significant caving during trenching or foundation construction, imported material should have sufficient fines. Samples of potential import sources should be delivered to our office at least 10 days prior to the desired import start date. Information regarding the import source should be provided, such as any site geotechnical reports. If the material will be derived from an excavation rather than a stockpile, potholes will likely be required to collect samples from throughout the depth of the planned cut that will be imported. At a minimum, laboratory testing will include PI tests. Material data sheets for select fill materials (Class 2 aggregate base, ¾-inch crushed rock, quarry fines, etc.) listing current laboratory testing data (not older than 6 months from the import date) may be provided for our review without providing a sample. If current data is not available, specification testing will need to be completed prior to approval.

Environmental and soil corrosion characterization should also be considered by the project team prior to acceptance. Suitable environmental laboratory data to the planned import quantity should be provided to the project environmental consultant; additional laboratory testing may be required based on the project environmental consultant's review. The potential import source should also not be more corrosive than the on-site soils, based on pH, saturated resistivity, and soluble sulfate and chloride testing.

### **6.7.4 Non-Expansive Fill Using Lime Treatment**

As discussed above, non-expansive fill should have a Plasticity Index (PI) of 15 or less. Due to the high clay content and PI of the on-site soil materials, it is not likely that sufficient quantities of non-expansive fill would be generated from cut materials. As an alternative to importing non-expansive fill, chemical treatment can be considered to create non-expansive fill. It has been our experience that high PI clayey soil materials will likely need to be mixed with at least 3 to 4 percent quicklime (CaO) or approved equivalent to adequately reduce the PI of the on-site soils to 15 or less. If this option is considered, additional laboratory tests should be performed during initial site grading to further evaluate the optimum percentage of quicklime required.

## **6.8 COMPACTION REQUIREMENTS**

All fills, and subgrade areas where fill, slabs-on-grade, and pavements are planned, should be placed in loose lifts 8 inches thick or less and compacted in accordance with ASTM D1557 (latest version) requirements as shown in the table below. In general, clayey soils should be compacted with sheepsfoot equipment and sandy/gravelly soils with vibratory equipment; open-graded materials such as crushed rock should be placed in lifts no thicker than 18 inches and consolidated in place with vibratory equipment. Each lift of fill and all subgrade should be firm and unyielding under construction equipment loading in addition to meeting the compaction

requirements to be approved. The contractor (with input from a Cornerstone representative) should evaluate the in-situ moisture conditions, as the use of vibratory equipment on soils with high moistures can cause unstable conditions. General recommendations for soil stabilization are provided in the "Subgrade Stabilization Measures" section of this report. Where the soil's PI is 20 or greater, the expansive soil criteria should be used.

**Table 2: Compaction Requirements**

Description	Material Description	Minimum Relative <sup>1</sup> Compaction (percent)	Moisture <sup>2</sup> Content (percent)
General Fill (within upper 5 feet)	On-Site Expansive Soils	87 – 92	>3
	Low Expansion Soils	90	>1
General Fill (below a depth of 5 feet)	On-Site Expansive Soils	95	>3
	Low Expansion Soils	95	>1
Trench Backfill	On-Site Expansive Soils	87 – 92	>3
Trench Backfill	Low Expansion Soils	90	>1
Trench Backfill (upper 6 inches of subgrade)	On-Site Low Expansion Soils	95	>1
Crushed Rock Fill	¾-inch Clean Crushed Rock	Consolidate In-Place	NA
Non-Expansive Fill	Imported Non-Expansive Fill	90	Optimum
Flatwork Subgrade	On-Site Expansive Soils	87 - 92	>3
Flatwork Subgrade	Low Expansion Soils	90	>1
Flatwork Aggregate Base	Class 2 Aggregate Base <sup>3</sup>	90	Optimum
Pavement Subgrade	On-Site Expansive Soils	87 - 92	>3
Pavement Subgrade	Low Expansion Soils	95	>1
Pavement Aggregate Base	Class 2 Aggregate Base <sup>3</sup>	95	Optimum
Asphalt Concrete	Asphalt Concrete	95 (Marshall)	NA

1 – Relative compaction based on maximum density determined by ASTM D1557 (latest version)

2 – Moisture content based on optimum moisture content determined by ASTM D1557 (latest version)

3 – Class 2 aggregate base shall conform to Caltrans Standard Specifications, latest edition, except that the relative compaction should be determined by ASTM D1557 (latest version)

### 6.8.1 Construction Moisture Conditioning

Expansive soils can undergo significant volume change when dried then wetted. The contractor should keep all exposed expansive soil subgrade (and also trench excavation side walls) moist until protected by overlying improvements (or trenches are backfilled). If expansive soils are allowed to dry out significantly, re-moisture conditioning may require several days of re-wetting (flooding is not recommended), or deep scarification, moisture conditioning, and re-compaction.

## 6.9 TRENCH BACKFILL

Utility lines constructed within public right-of-way should be trenched, bedded and shaded, and backfilled in accordance with the local or governing jurisdictional requirements. Utility lines in private improvement areas should be constructed in accordance with the following requirements unless superseded by other governing requirements.

All utility lines should be bedded and shaded to at least 6 inches over the top of the lines with crushed rock ( $\frac{3}{8}$ -inch-diameter or greater) or well-graded sand and gravel materials conforming to the pipe manufacturer's requirements. Open-graded shading materials should be consolidated in place with vibratory equipment and well-graded materials should be compacted to at least 90 percent relative compaction with vibratory equipment prior to placing subsequent backfill materials.

General backfill over shading materials may consist of on-site native materials provided they meet the requirements in the "Material for Fill" section, and are moisture conditioned and compacted in accordance with the requirements in the "Compaction" section.

Where utility lines will cross perpendicular to strip footings, the footing should be deepened to encase the utility line, providing sleeves or flexible cushions to protect the pipes from anticipated foundation settlement, or the utility lines should be backfilled to the bottom of footing with sand-cement slurry or lean concrete. Where utility lines will parallel footings and will extend below the "foundation plane of influence," an imaginary 1:1 plane projected down from the bottom edge of the footing, either the footing will need to be deepened so that the pipe is above the foundation plane of influence or the utility trench will need to be backfilled with sand-cement slurry or lean concrete within the influence zone. Sand-cement slurry used within foundation influence zones should have a minimum compressive strength of 75 psi.

On expansive soils sites it is desirable to reduce the potential for water migration into building and pavement areas through the granular shading materials. We recommend that a plug of low-permeability clay soil, sand-cement slurry, or lean concrete be placed within trenches just outside where the trenches pass into building and pavement areas.

## 6.10 SITE DRAINAGE

Ponding should not be allowed adjacent to building foundations, slabs-on-grade, or pavements. Hardscape surfaces should slope at least 2 percent towards suitable discharge facilities; landscape areas should slope at least 3 percent towards suitable discharge facilities. Roof runoff should be directed away from building areas in closed conduits, to approved infiltration facilities, or on to hardscaped surfaces that drain to suitable facilities. Retention, detention or infiltration facilities should be spaced at least 10 feet from buildings, and preferably at least 5 feet from slabs-on-grade or pavements. However, if retention, detention or infiltration facilities are located within these zones, we recommend that these treatment facilities meet the requirements in the Storm Water Treatment Design Considerations section of this report.

## 6.11 LOW-IMPACT DEVELOPMENT (LID) IMPROVEMENTS

The Municipal Regional Permit (MRP) requires regulated projects to treat 100 percent of the amount of runoff identified in Provision C.3.d from a regulated project's drainage area with low impact development (LID) treatment measures onsite or at a joint stormwater treatment facility. LID treatment measures are defined as rainwater harvesting and use, infiltration, evapotranspiration, or biotreatment. A biotreatment system may only be used if it is infeasible to implement harvesting and use, infiltration, or evapotranspiration at a project site.

Technical infeasibility of infiltration may result from site conditions that restrict the operability of infiltration measures and devices. Various factors affecting the feasibility of infiltration treatment may create an environmental risk, structural stability risk, or physically restrict infiltration. The presence of any of these limiting factors may render infiltration technically infeasible for a proposed project. To aid in determining if infiltration may be feasible at the site, we provide the following site information regarding factors that may aid in determining the feasibility of infiltration facilities at the site.

- The near-surface soils at the site are clayey, and categorized as Hydrologic Soil Group D, and is expected to have infiltration rates of less than 0.2 inches per hour. In our opinion, these clayey soils will significantly limit the infiltration of stormwater.
- Locally, seasonal high ground water is mapped at a depth of about 6 feet, and therefore is expected to be within 10 feet of the base of the infiltration measure.
- In our opinion, infiltration locations within 10 feet of the buildings would create a geotechnical hazard.
- Infiltration measures, devices, or facilities may conflict with the location of existing or proposed underground utilities or easements. Infiltration measures, devices, or facilities should not be placed on top of or very near to underground utilities such that they discharge to the utility trench, restrict access, or cause stability concerns.

### 6.11.1 Storm Water Treatment Design Considerations

If storm water treatment improvements, such as shallow bio-retention swales, basins or pervious pavements, are required as part of the site improvements to satisfy Storm Water Quality (C.3) requirements, we recommend the following items be considered for design and construction.

#### 6.11.1.1 General Bioswale Design Guidelines

- If possible, avoid placing bioswales or basins within 10 feet of the building perimeter or within 5 feet of exterior flatwork or pavements. If bioswales must be constructed within these setbacks, the side(s) and bottom of the trench excavation should be lined with 10-mil visqueen to reduce water infiltration into the surrounding expansive clay.

- Bioswales constructed within 3 feet of proposed buildings may be within the foundation zone of influence for perimeter wall loads. Therefore, where bioswales will parallel foundations and will extend below the “foundation plane of influence,” an imaginary 1:1 plane projected down from the bottom edge of the foundation, the foundation will need to be deepened so that the bottom edge of the bioswale filter material is above the foundation plane of influence.
- The bottom of bioswale or detention areas should include a perforated drain placed at a low point, such as a shallow trench or sloped bottom, to reduce water infiltration into the surrounding soils near structural improvements, and to address the low infiltration capacity of the on-site clay soils.

#### 6.11.1.2 Bioswale Infiltration Material

- Gradation specifications for bioswale filter material, if required, should be specified on the grading and improvement plans.
- Compaction requirements for bioswale filter material in non-landscaped areas or in pervious pavement areas, if any, should be indicated on the plans and specifications to satisfy the anticipated use of the infiltration area.
- If required, infiltration (percolation) testing should be performed on representative samples of potential bioswale materials prior to construction to check for general conformance with the specified infiltration rates.
- It should be noted that multiple laboratory tests may be required to evaluate the properties of the bioswale materials, including percolation, landscape suitability and possibly environmental analytical testing depending on the source of the material. We recommend that the landscape architect provide input on the required landscape suitability tests if bioswales are to be planted.
- If bioswales are to be vegetated, the landscape architect should select planting materials that do not reduce or inhibit the water infiltration rate, such as covering the bioswale with grass sod containing a clayey soil base.
- If required by governing agencies, field infiltration testing should be specified on the grading and improvement plans. The appropriate infiltration test method, duration and frequency of testing should be specified in accordance with local requirements.
- Due to the relatively loose consistency and/or high organic content of many bioswale filter materials, long-term settlement of the bioswale medium should be anticipated. To reduce initial volume loss, bioswale filter material should be wetted in 12 inch lifts during placement to pre-consolidate the material. Mechanical compaction should not be allowed, unless specified on the grading and improvement plans, since this could significantly decrease the infiltration rate of the bioswale materials.

- It should be noted that the volume of bioswale filter material may decrease over time depending on the organic content of the material. Additional filter material may need to be added to bioswales after the initial exposure to winter rains and periodically over the life of the bioswale areas, as needed.

#### 6.11.1.3 Bioswale Construction Adjacent to Pavements

If bio-infiltration swales or basins are considered adjacent to proposed parking lots or exterior flatwork, we recommend that mitigative measures be considered in the design and construction of these facilities to reduce potential impacts to flatwork or pavements. Exterior flatwork, concrete curbs, and pavements located directly adjacent to bio-swales may be susceptible to settlement or lateral movement, depending on the configuration of the bioswale and the setback between the improvements and edge of the swale. To reduce the potential for distress to these improvements due to vertical or lateral movement, the following options should be considered by the project civil engineer:

- Improvements should be setback from the vertical edge of a bioswale such that there is at least 1 foot of horizontal distance between the edge of improvements and the top edge of the bioswale excavation for every 1 foot of vertical bioswale depth, or
- Concrete curbs for pavements, or lateral restraint for exterior flatwork, located directly adjacent to a vertical bioswale cut should be designed to resist lateral earth pressures in accordance with the recommendations in the “Retaining Walls” section of this report, or concrete curbs or edge restraint should be adequately keyed into the native soil or engineered to reduce the potential for rotation or lateral movement of the curbs.

#### 6.12 LANDSCAPE CONSIDERATIONS

Since the near-surface soils are highly expansive, we recommend greatly reducing the amount of surface water infiltrating these soils near foundations and exterior slabs-on-grade. This can typically be achieved by:

- Using drip irrigation
- Avoiding open planting within 3 feet of the building perimeter or near the top of slopes
- Regulating the amount of water distributed to lawns or planter areas by using irrigation timers, and
- Selecting landscaping that requires little or no watering, especially near foundations.

We recommend that the landscape architect consider these items when developing landscaping plans.

## SECTION 7: FOUNDATIONS

### 7.1 SUMMARY OF RECOMMENDATIONS

In our opinion, the proposed data center and associated structures/equipment may be supported on shallow foundations provided the recommendations in the “Earthwork” section and the sections below are followed.

### 7.2 SEISMIC DESIGN CRITERIA

The 2016 California Building Code (CBC) provides criteria for the seismic design of buildings in Chapter 16. The “Seismic Coefficients” used to design buildings are established based on a series of tables and figures addressing different site factors, including the soil profile in the upper 100 feet below grade and mapped spectral acceleration parameters based on distance to the controlling seismic source/fault system. Shear wave velocity measurements performed at CPT-5 to a depth of 100 feet resulted in an average shear wave velocity of 777 feet per second (or 237 meters per second). Therefore, we have classified the site as Soil Classification D. The mapped spectral acceleration parameters  $S_S$  and  $S_1$  were calculated using the USGS computer program *U.S. Seismic Design Maps*, located at <http://earthquake.usgs.gov/designmaps/us/application.php>, based on the site coordinates presented below and the site classification. The table below lists the various factors used to determine the seismic coefficients and other parameters.

**Table 3: CBC Site Categorization and Site Coefficients**

Classification/Coefficient	Design Value
Site Class	D
Site Latitude	37.39006°
Site Longitude	-121.96654°
0.2-second Period Mapped Spectral Acceleration <sup>1</sup> , $S_S$	1.500g
1-second Period Mapped Spectral Acceleration <sup>1</sup> , $S_1$	0.600g
Short-Period Site Coefficient – $F_a$	1.0
Long-Period Site Coefficient – $F_v$	1.5
0.2-second Period, Maximum Considered Earthquake Spectral Response Acceleration Adjusted for Site Effects - $S_{MS}$	1.500g
1-second Period, Maximum Considered Earthquake Spectral Response Acceleration Adjusted for Site Effects – $S_{M1}$	0.900g
0.2-second Period, Design Earthquake Spectral Response Acceleration – $S_{DS}$	1.000g
1-second Period, Design Earthquake Spectral Response Acceleration – $S_{D1}$	0.600g
Mapped MCE Geometric Mean Peak Ground Acceleration - PGA	0.500g
Site Coefficient Based on PGA and Site Class - $F_{PGA}$	1.0

<sup>1</sup>For Site Class B, 5 percent damped.

## 7.3 SHALLOW FOUNDATIONS – DATA CENTER BUILDING

### 7.3.1 Spread Footings

Provided the structure can tolerate the anticipated static and seismic total and differential settlements, conventional shallow spread footings can be considered. Spread footings should bear entirely on natural, undisturbed soil or engineered fill, be at least 18 inches wide, and extend at least 24 inches below the lowest adjacent grade. Lowest adjacent grade is defined as the deeper of the following: 1) bottom of the adjacent interior slab-on-grade, or 2) finished exterior grade, excluding landscaping topsoil. The deeper footing embedment is due to the presence of highly expansive soils, and is intended to embed the footing below the zone of significant seasonal moisture fluctuation, reducing the potential for differential movement.

Footings constructed to the above dimensions and in accordance with the “Earthwork” recommendations of this report are capable of supporting maximum allowable bearing pressures of 2,000 psf for dead loads, 3,000 psf for combined dead plus live loads, and 4,000 psf for all loads including wind and seismic. These pressures are based on factors of safety of 3.0, 2.0, and 1.5 applied to the ultimate bearing pressure for dead, dead plus live, and all loads, respectively. These pressures are net values; the weight of the footing may be neglected for the portion of the footing extending below grade (typically, the full footing depth). Top and bottom reinforcing steel should be included in continuous footings to help span irregularities and differential settlement.

### 7.3.2 Spread Footing Settlement

As previously mentioned, you indicated preliminary dead plus live column loads for the data hall and electric rooms with mezzanines are 516 kips and 427 kips, respectively. Based on this loading, the allowable bearing pressures presented above, and assuming site grades will be raised from 0 to about 5 feet, we estimate that the total static footing settlement will be on the order of 1½ to 1¾ inches, with about 1-inch of post-construction differential settlement between adjacent foundation elements. In addition we estimate that differential seismic movement will be on the order of ½-inch between independent foundation elements, resulting in a total estimated differential footing movement of about 1½-inch between independent foundation elements. We recommend we be retained to review the final footing layout and loading, and verify the settlement estimates above.

As mentioned, it appears site grades will be raised in locations from 0 up to about 5 feet. We should review the final grading plans to evaluate any impacts varying fill thickness may have on the foundation performance.

### 7.3.3 Lateral Loading

Lateral loads may be resisted by friction between the bottom of footing and the supporting subgrade, and also by passive pressures generated against footing sidewalls. An ultimate frictional resistance of 0.45 applied to the footing dead load, and an ultimate passive pressure based on an equivalent fluid pressure of 450 pcf may be used in design. The structural

engineer should apply an appropriate factor of safety to the ultimate values above. Where footings are adjacent to landscape areas without hardscape, the upper 12 inches of soil should be neglected when determining passive pressure capacity.

#### **7.3.4 Spread Footing Construction Considerations**

Where utility lines will cross perpendicular to strip footings, the footing should be deepened to encase the utility line, providing sleeves or flexible cushions to protect the pipes from anticipated foundation settlement, or the utility lines should be backfilled to the bottom of footing with sand-cement slurry or lean concrete. Where utility lines will parallel footings and will extend below the “foundation plane of influence,” an imaginary 1:1 plane projected down from the bottom edge of the footing, either the footing will need to be deepened so that the pipe is above the foundation plane of influence or the utility trench will need to be backfilled with sand-cement slurry or lean concrete within the influence zone. Sand-cement slurry used within foundation influence zones should have a minimum compressive strength of 75 psi.

Footing excavations should be filled as soon as possible or be kept moist until concrete placement by regular sprinkling to prevent desiccation. A Cornerstone representative should observe all footing excavations prior to placing reinforcing steel and concrete. If there is a significant schedule delay between our initial observation and concrete placement, we may need to re-observe the excavations.

#### **7.3.5 Alternative Foundation**

As an alternative to spread footings or if the estimated settlements exceed the structural requirements, the data center building can also be supported on a reinforced concrete mat foundation as recommended in the sections below. Due to the wide column spacing, a stiff grid foundation or spread footings overlying ground improvement could be additional alternatives to limit settlement.

#### **7.3.6 Reinforced Concrete Mat Foundations**

As an alternative to spread footings, the data center building may be supported on a reinforced concrete mat foundation. The mat foundation should bear entirely on undisturbed native soil or engineered fill prepared in accordance with the “Earthwork” section of this report, and designed in accordance with the recommendations below. A non-expansive fill (NEF) section, as discussed in Section 8.1 for interior slabs-on-grade, would not be required beneath a continuous mat foundation for the data center building.

The mat foundation may be designed for a maximum average areal bearing pressure of 1,000 pounds per square foot (psf) for dead plus live loads; at column or wall loading locations the maximum localized bearing pressure should not exceed 3,000 psf. When evaluating wind and seismic conditions, the allowable bearing pressures may be increased by one-third. These pressures are net values; the weight of the mat may be neglected for the portion of the mat extending below grade. Top and bottom mats of reinforcing steel should be included as required to help span irregularities and differential settlement.

### **7.3.7 Mat Foundation Settlement**

For our settlement analysis, we estimated an average areal mat pressure (structural dead plus live load) of 500 psf based on the previously discussed column loading provided. Based on this estimated loading and assuming site grades will be raised from 0 to about 5 feet, we estimate static settlements would be on the order of  $\frac{2}{3}$  to  $1\frac{1}{4}$  inches at the mat edges and corners and on the order of about  $1\frac{1}{4}$  to  $1\frac{3}{4}$  inches near the center of the mat. Differential settlement from the center of mat to the edges due to static loads is estimated to be up to approximately 1 inch. Accounting for both static and seismic settlement, a mat foundation may experience combined static and seismic differential settlements on the order of  $1\frac{1}{2}$  inches between the center of the mat to its edges.

Static settlement estimates were developed based on an estimated average areal mat pressure from the preliminary column loading provided. We recommend we be retained to review the final layout and loading, and verify the settlement estimates above.

### **7.3.8 Mat Modulus of Soil Subgrade Reaction**

We recommend using a variable modulus of subgrade reaction to provide a more accurate soil response and prediction of shears and moments in the mat. This will require at least one iteration between our soil model and the structural SAFE (or similar) analysis for the mat. As discussed above, we estimated an average areal mat pressure of 500 psf within the structure. Based on this pressure, we calculated preliminary modulus of subgrade reaction values for the mat foundation.

For preliminary SAFE runs, we recommend an initial modulus of subgrade reaction of 5 pounds per cubic inch (pci). As discussed above, these moduli of soil subgrade reaction are intended for use in the first iteration of the structural SAFE analysis for the mat design. Once your initial run is complete, please forward a color graph of contact pressures for the mat (to scale) so that we can provide a revised plan with updated contours of equal modulus of subgrade reaction values. It should be noted that modulus values may change once updated contact pressures are determined.

### **7.3.9 Mat Lateral Loading**

Lateral loads may be resisted by friction between the bottom of mat foundation and the supporting subgrade, and also by passive pressures generated against deepened mat edges. An ultimate frictional resistance of 0.45 applied to the mat dead load, and an ultimate passive pressure based on an equivalent fluid pressure of 450 pcf may be used in design. The structural engineer should apply an appropriate factor of safety to the ultimate values above. The upper 12 inches of soil should be neglected when determining passive pressure capacity.

### **7.3.10 Mat Foundation Construction Considerations**

Due to the presence of expansive soils, mat subgrade areas should be kept moist until concrete placement by regular sprinkling to prevent desiccation. If deep drying is allowed to occur,

several days of moisture conditioning (flooding of the pads is not recommended) may be required to allow the moisture to re-penetrate the subgrade. If severe drying occurs, reworking and moisture conditioning of the pad may be required. Prior to placement of any vapor retarder and mat construction, the subgrade should be proof-rolled and visually observed by a Cornerstone representative to confirm stable subgrade conditions. The pad moisture should also be checked at least 24 hours prior to vapor barrier or mat reinforcement placement to confirm that the soil has a moisture content of at least 3 percent over optimum in the upper 12 inches.

### **7.3.11 Moisture Protection Considerations for Mat Foundations**

The following general guidelines for concrete mat construction where floor coverings are planned are presented for the consideration by the developer, design team, and contractor. These guidelines are based on information obtained from a variety of sources, including the American Concrete Institute (ACI) and are intended to reduce the potential for moisture-related problems causing floor covering failures, and may be supplemented as necessary based on project-specific requirements. The application of these guidelines or not will not affect the geotechnical aspects of the mat foundation performance.

- Place a 10-mil vapor retarder conforming to ASTM E 1745, Class C requirements or better directly below the concrete mat; the vapor retarder should extend to within 12 to 18 inches from the mat edges and be sealed at all seams and penetrations in accordance with manufacturer's recommendations and ASTM E 1643 requirements. For mats 12 inches thick or less, a 4-inch-thick capillary break, consisting of ½- to ¾-inch crushed rock with less than 5 percent passing the No. 200 sieve, should be placed below the vapor retarder and consolidated in place with vibratory equipment.
- The concrete water:cement ratio should be 0.45 or less. Mid-range plasticizers may be used to increase concrete workability and facilitate pumping and placement.
- Water should not be added after initial batching unless the slump is less than specified and/or the resulting water:cement ratio will not exceed 0.45.
- Where floor coverings are planned, all concrete surfaces should be properly cured.
- Water vapor emission levels and concrete pH should be determined in accordance with ASTM F1869-98 and F710-98 requirements and evaluated against the floor covering manufacturer's requirements prior to installation.

## **7.4 REINFORCED CONCRETE MAT FOUNDATIONS – SUPPLEMENTAL STRUCTURES/EQUIPMENT**

The supplemental structures/equipment may be supported on mat foundations bearing on natural, undisturbed soil or engineered fill prepared in accordance with the "Earthwork" section of this report, and designed in accordance with the recommendations below.

For design, we assume mat foundations with a maximum average bearing pressure of 350 pounds per square foot (psf) for dead plus live loads; maximum localized bearing pressure should not exceed 2,000 psf at heavily loaded portions of the mats. When evaluating wind and seismic conditions, the allowable bearing pressures may be increased by one-third. These pressures are net values; the weight of the mat may be neglected for the portion of the mat extending below grade. Top and bottom mats of reinforcing steel should be included as required to help span irregularities and differential settlement.

#### **7.4.1 Mat Foundation Settlement**

Based on the above bearing pressure and assuming site grades will be raised 0 to about 5 feet, we estimate static settlements would be on the order of  $\frac{1}{2}$  to  $\frac{3}{8}$  inch near the center of the mat and less than  $\frac{1}{2}$  inch at the mat edges and corners. Differential settlement from the center of mat to the edges due to static loads is estimated to be less than  $\frac{1}{2}$  inch. Accounting for both static and seismic settlement, a mat foundation may experience combined static and seismic differential settlements on the order of  $\frac{3}{4}$  to 1 inch between the center of the mat to its edges. We recommend we be retained to review the final layout and loading, and verify the settlement estimates above.

#### **7.4.2 Mat Lateral Loading**

Lateral loads may be resisted by friction between the bottom of mat foundation and the supporting subgrade, and also by passive pressures generated against deepened mat edges. An ultimate frictional resistance of 0.45 applied to the mat dead load, and an ultimate passive pressure based on an equivalent fluid pressure of 450 pcf may be used in design. The structural engineer should apply an appropriate factor of safety to the ultimate values above. The upper 12 inches of soil should be neglected when determining passive pressure capacity.

#### **7.4.3 Mat Foundation Construction Considerations**

Due to the presence of expansive soils, mat subgrade areas should be kept moist until concrete placement by regular sprinkling to prevent desiccation. If deep drying is allowed to occur, several days of moisture conditioning (flooding of the pads is not recommended) may be required to allow the moisture to re-penetrate the subgrade. If severe drying occurs, reworking and moisture conditioning of the pad may be required. Prior to placement of any vapor retarder and mat construction, the subgrade should be proof-rolled and visually observed by a Cornerstone representative to confirm stable subgrade conditions. The pad moisture should also be checked at least 24 hours prior to vapor barrier or mat reinforcement placement to confirm that the soil has a moisture content of at least 3 percent over optimum in the upper 12 inches.

## **SECTION 8: CONCRETE SLABS AND PEDESTRIAN PAVEMENTS**

### **8.1 INTERIOR SLABS-ON-GRADE**

As the Plasticity Index (PI) of the surficial soils ranges up to 31, proposed slabs-on-grade should be supported on at least 18 inches of non-expansive fill (NEF) to reduce the potential for slab damage due to soil heave. If a continuous mat foundation is constructed for the data center building, NEF would not be required. The NEF layer should be constructed over subgrade prepared in accordance with the recommendations in the "Earthwork" section of this report. If moisture-sensitive floor coverings are planned, the recommendations in the "Interior Slabs Moisture Protection Considerations" section below may be incorporated in the project design if desired. If significant time elapses between initial subgrade preparation and NEF construction, the subgrade should be proof-rolled to confirm subgrade stability, and if the soil has been allowed to dry out, the subgrade should be re-moisture conditioned in accordance with the recommendations in the "Compaction" section.

The structural engineer should determine the appropriate slab reinforcement for the loading requirements and considering the expansion potential of the underlying soils. Consideration should be given to limiting the control joint spacing to a maximum of about 2 feet in each direction for each inch of concrete thickness.

### **8.2 INTERIOR SLABS MOISTURE PROTECTION CONSIDERATIONS**

The following general guidelines for concrete slab-on-grade construction where floor coverings are planned are presented for the consideration by the developer, design team, and contractor. These guidelines are based on information obtained from a variety of sources, including the American Concrete Institute (ACI) and are intended to reduce the potential for moisture-related problems causing floor covering failures, and may be supplemented as necessary based on project-specific requirements. The application of these guidelines or not will not affect the geotechnical aspects of the slab-on-grade performance.

- Place a minimum 10-mil-thick vapor retarder conforming to ASTM E 1745, Class C requirements or better directly below the concrete slab. The vapor retarder should extend to the slab edges and be sealed at all seams and penetrations in accordance with manufacturer's recommendations and ASTM E 1643 requirements.
- A 4-inch-thick capillary break, consisting of ½- to ¾-inch crushed rock with less than 5 percent passing the No. 200 sieve, should be placed below the vapor retarder and consolidated in place with vibratory equipment. For slabs-on-grade with spread footings, the capillary break rock may be considered as the upper 4 inches of the non-expansive fill previously recommended.
- The concrete water:cement ratio should be 0.45 or less. Mid-range plasticizers may be used to increase concrete workability and facilitate pumping and placement.

- Water should not be added after initial batching unless the slump is less than specified and/or the resulting water:cement ratio will not exceed 0.45.
- Polishing the concrete surface with metal trowels is not recommended.
- Where floor coverings are planned, all concrete surfaces should be properly cured.
- Water vapor emission levels and concrete pH should be determined in accordance with ASTM F1869 and F710 requirements and evaluated against the floor covering manufacturer's requirements prior to installation.

### 8.3 EXTERIOR FLATWORK

Exterior concrete flatwork subject to pedestrian traffic only should be at least 4 inches thick and supported on at least 12 inches of non-expansive fill (NEF) overlying subgrade prepared in accordance with the "Earthwork" recommendations of this report. In addition, the upper 4 inches of the NEF should also meet Class 2 aggregate base requirements. As an alternative, the Class 2 aggregate base can also be increased to the full depth of NEF as recommended above. Flatwork that will be subject to heavier or frequent vehicular loading should be designed in accordance with the recommendations in the "Vehicular Pavements" section below.

To help reduce the potential for uncontrolled shrinkage cracking, adequate expansion and control joints should be included. Consideration should be given to limiting the control joint spacing to a maximum of about 2 feet in each direction for each inch of concrete thickness.

## SECTION 9: VEHICULAR PAVEMENTS

### 9.1 ASPHALT CONCRETE

The following asphalt concrete pavement recommendations tabulated below are based on the Procedure 608 of the Caltrans Highway Design Manual, estimated traffic indices for various pavement-loading conditions, and on a design R-value of 5. The design R-value was chosen based on engineering judgment considering the surface conditions.

**Table 4: Asphalt Concrete Pavement Recommendations, Design R-value = 5**

Design Traffic Index (TI)	Asphalt Concrete (inches)	Class 2 Aggregate Base* (inches)	Total Pavement Section Thickness (inches)
4.0	2.5	7.5	10.0
4.5	2.5	9.5	12.0
5.0	3.0	10.0	13.0
5.5	3.0	12.0	15.0
6.0	3.5	13.0	16.5
6.5	4.0	14.0	18.0

\*Caltrans Class 2 aggregate base; minimum R-value of 78

Frequently, the full asphalt concrete section is not constructed prior to construction traffic loading. This can result in significant loss of asphalt concrete layer life, rutting, or other pavement failures. To improve the pavement life and reduce the potential for pavement distress through construction, we recommend the full design asphalt concrete section be constructed prior to construction traffic loading. Alternatively, a higher traffic index may be chosen for the areas where construction traffic will be use the pavements.

Asphalt concrete pavements constructed on expansive subgrade where the adjacent areas will not be irrigated for several months after the pavements are constructed may experience longitudinal cracking parallel to the pavement edge. These cracks typically form within a few feet of the pavement edge and are due to seasonal wetting and drying of the adjacent soil. The cracking may also occur during construction where the adjacent grade is allowed to significantly dry during the summer, pulling moisture out of the pavement subgrade. Any cracks that form should be sealed with bituminous sealant prior to the start of winter rains. One alternative to reduce the potential for this type of cracking is to install a moisture barrier at least 24 inches deep behind the pavement curb.

## 9.2 PORTLAND CEMENT CONCRETE

The exterior Portland Cement Concrete (PCC) pavement recommendations tabulated below are based on methods presented in the Portland Cement Association (PCA) design manual (PCA, 1984). We have provided a few pavement alternatives as an anticipated Average Daily Truck Traffic (ADTT) was not provided. An allowable ADTT should be chosen that is greater than what is expected for the development.

**Table 5: PCC Pavement Recommendations, Design R-value = 5**

Allowable ADTT	Minimum PCC Thickness (inches)
13	5.5
130	6.0

The PCC thicknesses above are based on a concrete compressive strength of at least 3,500 psi, supporting the PCC on at least 6 inches of Class 2 aggregate base compacted as recommended in the "Earthwork" section, and laterally restraining the PCC with curbs or concrete shoulders. Adequate expansion and control joints should be included. Consideration should be given to limiting the control joint spacing to a maximum of about 2 feet in each direction for each inch of concrete thickness. Due to the expansive surficial soils present, we recommend that the construction and expansion joints be dowelled.

## 9.3 TRASH ENCLOSURES

Trash enclosures and the associated stress pads should be supported on at least 8 inches of Portland cement concrete (PCC) over at least 6 inches of Class 2 aggregate base, where the

aggregate base should be compacted to 95 percent relative compaction. The top 6 inches of the underlying subgrade should be moisture conditioned and compacted according to the "Compaction" section of this report. The compressive strength and construction details should be consistent with the above recommendations for PCC pavements.

**9.4 PAVEMENT CUTOFF**

Surface water penetration into the pavement section can significantly reduce the pavement life, due to the native expansive clays. While quantifying the life reduction is difficult, a normal 20-year pavement design could be reduced to less than 10 years; therefore, increased long-term maintenance may be required.

It would be beneficial to include a pavement cut-off, such as deepened curbs, redwood-headers, or "Deep-Root Moisture Barriers" that are keyed at least 4 inches into the pavement subgrade. This will help limit the additional long-term maintenance.

**SECTION 10: RETAINING WALLS**

**10.1 STATIC LATERAL EARTH PRESSURES**

The structural design of any site retaining wall should include resistance to lateral earth pressures that develop from the soil behind the wall, any undrained water pressure, and surcharge loads acting behind the wall. Provided a drainage system is constructed behind the wall to prevent the build-up of hydrostatic pressures as discussed in the section below, we recommend that the walls with level backfill be designed for the following pressures:

**Table 6: Recommended Lateral Earth Pressures**

Wall Condition	Lateral Earth Pressure*	Additional Surcharge Loads
Unrestrained – Cantilever Wall	45 pcf	1/4 of vertical loads at top of wall
Restrained – Braced Wall	45 pcf + 8H** psf	1/2 of vertical loads at top of wall

\* Lateral earth pressures are based on an equivalent fluid pressure for level backfill conditions

\*\* H is the distance in feet between the bottom of footing and top of retained soil

If adequate drainage cannot be provided behind the wall, an additional equivalent fluid pressure of 40 pcf should be added to the values above for both restrained and unrestrained walls for the portion of the wall that will not have drainage. Damp proofing or waterproofing of the walls may be considered where moisture penetration and/or efflorescence are not desired.

**10.2 SEISMIC LATERAL EARTH PRESSURES**

The 2016 CBC states that lateral pressures from earthquakes should be considered in the design of basements and retaining walls. Based on our understanding, only 3- to 4-foot high retaining walls along the east property line are proposed. In our opinion, design of these walls

(i.e. walls 6 feet or less in height) for seismic lateral earth pressures in addition to static earth pressures is not warranted.

### **10.3 WALL DRAINAGE**

Adequate drainage should be provided by a subdrain system behind all walls. This system should consist of a 4-inch minimum diameter perforated pipe placed near the base of the wall (perforations placed downward). The pipe should be bedded and backfilled with Class 2 Permeable Material per Caltrans Standard Specifications, latest edition. The permeable backfill should extend at least 12 inches out from the wall and to within 2 feet of outside finished grade. Alternatively, ½-inch to ¾-inch crushed rock may be used in place of the Class 2 Permeable Material provided the crushed rock and pipe are enclosed in filter fabric, such as Mirafi 140N or approved equivalent. The upper 2 feet of wall backfill should consist of compacted on-site soil. The subdrain outlet should be connected to a free-draining outlet or sump.

Miradrain, Geotech Drainage Panels, or equivalent drainage matting can be used for wall drainage as an alternative to the Class 2 Permeable Material or drain rock backfill. Horizontal strip drains connecting to the vertical drainage matting may be used in lieu of the perforated pipe and crushed rock section. The vertical drainage panel should be connected to the perforated pipe or horizontal drainage strip at the base of the wall, or to some other closed or through-wall system such as the TotalDrain system from AmerDrain. Sections of horizontal drainage strips should be connected with either the manufacturer's connector pieces or by pulling back the filter fabric, overlapping the panel dimples, and replacing the filter fabric over the connection. At corners, a corner guard, corner connection insert, or a section of crushed rock covered with filter fabric must be used to maintain the drainage path.

Drainage panels should terminate 18 to 24 inches from final exterior grade. The Miradrain panel filter fabric should be extended over the top of and behind the panel to protect it from intrusion of the adjacent soil.

### **10.4 BACKFILL**

Where surface improvements will be located over the retaining wall backfill, backfill placed behind the walls with a PI less than 20 should be compacted to at least 95 percent relative compaction using light compaction equipment. If the soil's PI is 20 or greater, expansive soil criteria should be used as discussed in the "Compaction" section of this report. Where no surface improvements are planned, backfill should be compacted to at least 90 percent for soils with a PI less than 20. Expansive soil criteria should be followed for soils with a PI of 20 or greater. If heavy compaction equipment is used, the walls should be temporarily braced.

### **10.5 FOUNDATIONS**

Retaining walls may be supported on a continuous spread footing designed in accordance with the recommendations presented in the "Foundations" section of this report.

## **SECTION 11: LIMITATIONS**

This report, an instrument of professional service, has been prepared for the sole use of Aligned Data Centers specifically to support the design of the 2305 Mission College Boulevard Data Center project in Santa Clara, California. The opinions, conclusions, and recommendations presented in this report have been formulated in accordance with accepted geotechnical engineering practices that exist in Northern California at the time this report was prepared. No warranty, expressed or implied, is made or should be inferred.

Recommendations in this report are based upon the soil and ground water conditions encountered during our subsurface exploration. If variations or unsuitable conditions are encountered during construction, Cornerstone must be contacted to provide supplemental recommendations, as needed.

Aligned Data Centers may have provided Cornerstone with plans, reports and other documents prepared by others. Aligned Data Centers understands that Cornerstone reviewed and relied on the information presented in these documents and cannot be responsible for their accuracy.

Cornerstone prepared this report with the understanding that it is the responsibility of the owner or his representatives to see that the recommendations contained in this report are presented to other members of the design team and incorporated into the project plans and specifications, and that appropriate actions are taken to implement the geotechnical recommendations during construction.

Conclusions and recommendations presented in this report are valid as of the present time for the development as currently planned. Changes in the condition of the property or adjacent properties may occur with the passage of time, whether by natural processes or the acts of other persons. In addition, changes in applicable or appropriate standards may occur through legislation or the broadening of knowledge. Therefore, the conclusions and recommendations presented in this report may be invalidated, wholly or in part, by changes beyond Cornerstone's control. This report should be reviewed by Cornerstone after a period of three (3) years has elapsed from the date of this report. In addition, if the current project design is changed, then Cornerstone must review the proposed changes and provide supplemental recommendations, as needed.

An electronic transmission of this report may also have been issued. While Cornerstone has taken precautions to produce a complete and secure electronic transmission, please check the electronic transmission against the hard copy version for conformity.

Recommendations provided in this report are based on the assumption that Cornerstone will be retained to provide observation and testing services during construction to confirm that conditions are similar to that assumed for design, and to form an opinion as to whether the work has been performed in accordance with the project plans and specifications. If we are not retained for these services, Cornerstone cannot assume any responsibility for any potential claims that may arise during or after construction as a result of misuse or misinterpretation of

Cornerstone's report by others. Furthermore, Cornerstone will cease to be the Geotechnical-Engineer-of-Record if we are not retained for these services.

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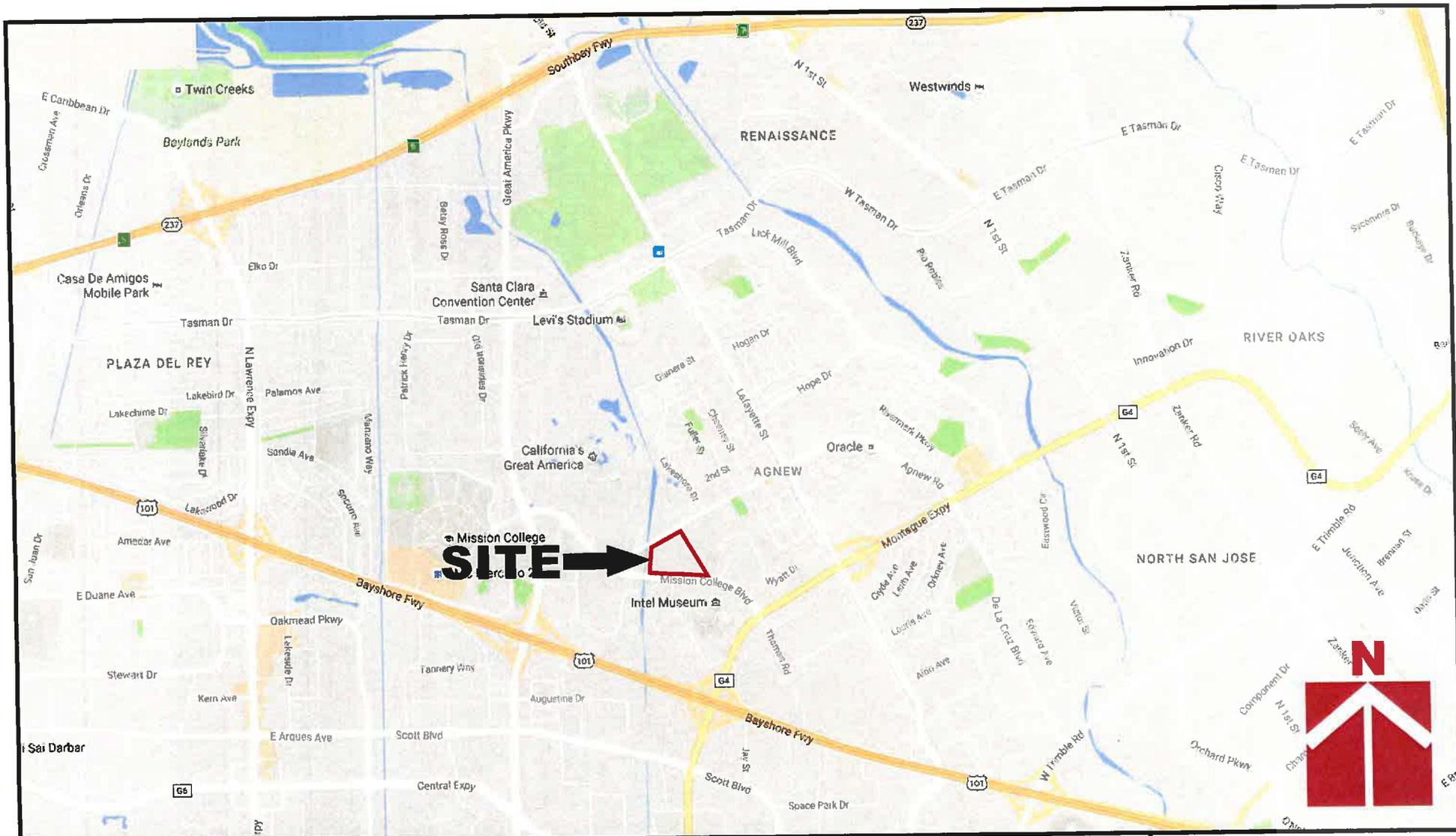
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**CORNERSTONE  
EARTH GROUP**

**Vicinity Map**

**2305 Mission College Boulevard Data Center  
Santa Clara, CA**

Project Number

930-1-1

Figure Number

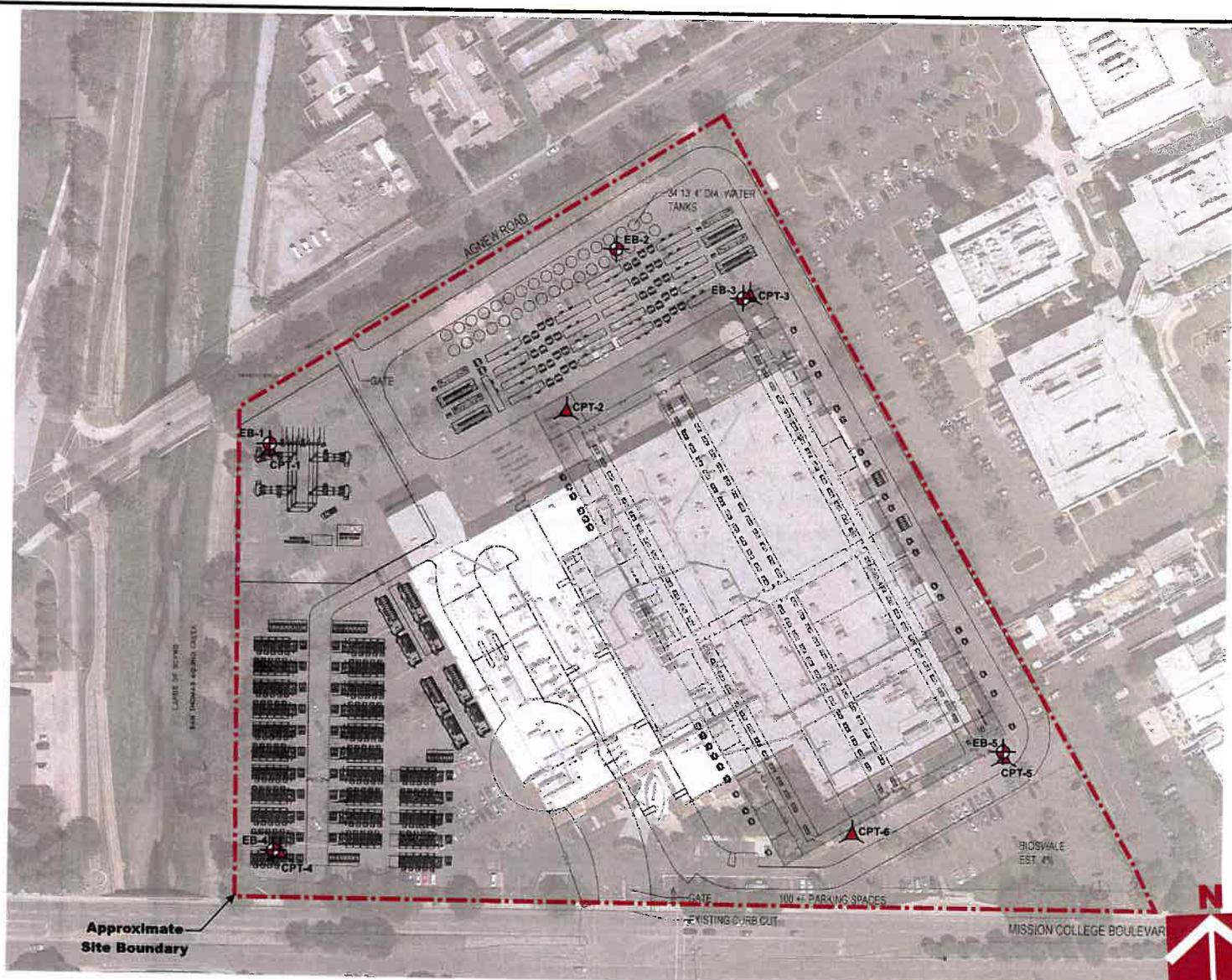
Figure 1

Date

November 2016

Drawn By

RRN



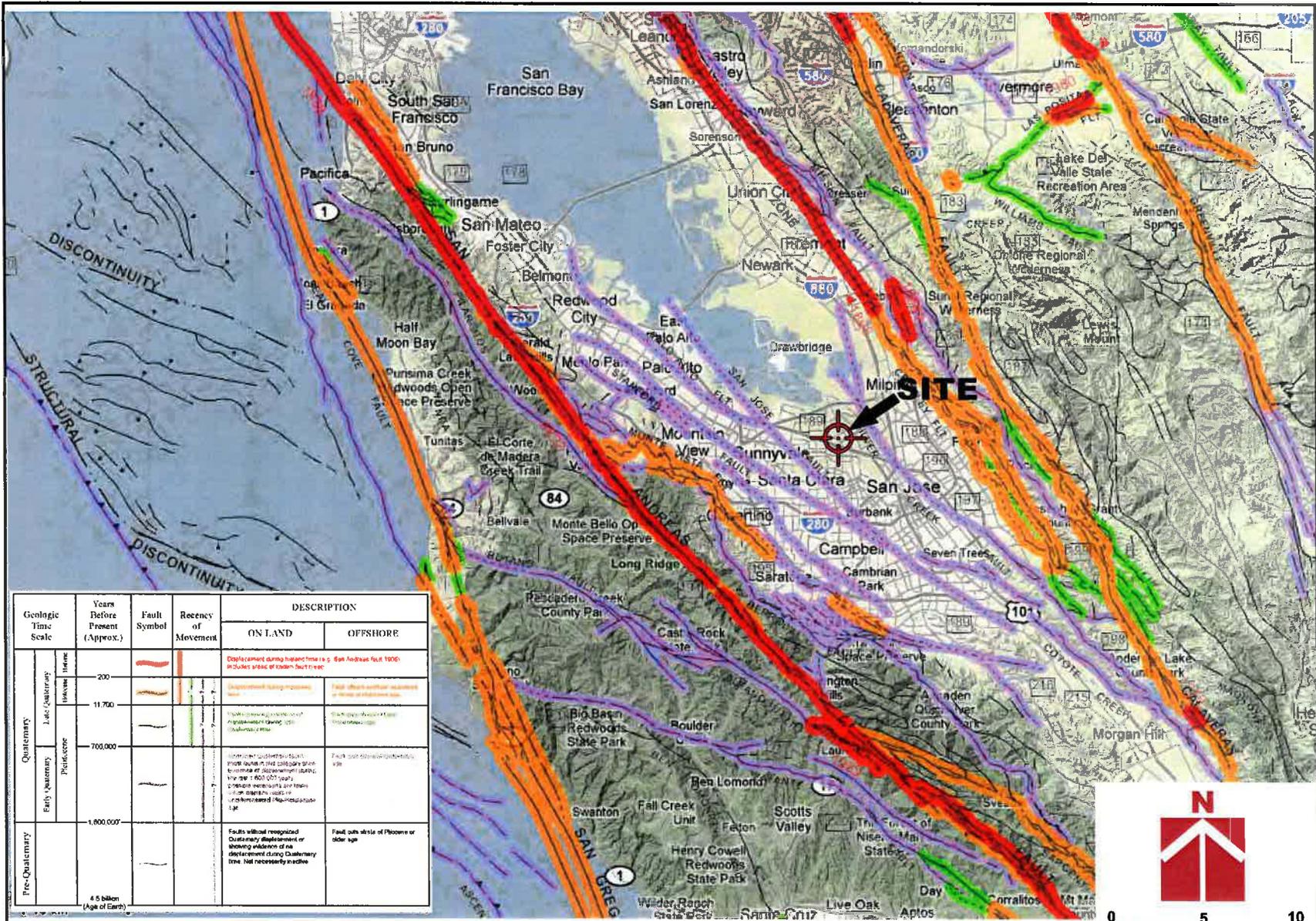
Base by Google Earth, dated 4/5/2016  
 Overlay by CAC Architects, Site Plan - Sheet A, dated 9/21/2016

**Legend**

-  Approximate location of exploratory boring (EB)
-  Approximate location of cone penetration test (CPT)

  
  
 APPROXIMATE SCALE (FEET)

<b>Site Plan</b>	Project Number <b>930-1-1</b>
	Figure Number <b>Figure 2</b>
2305 Mission College Boulevard Data Center Santa Clara, CA	
	
Date November 2016	Drawn By RRN



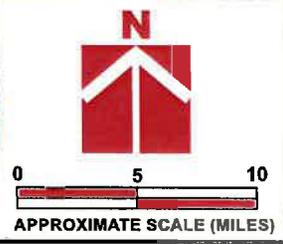
Project Number: 930-1-1  
 Figure Number: Figure 3  
 Date: November 2016  
 Drawn By: RRR

Regional Fault Map  
 2305 Mission College Boulevard Data Center  
 Santa Clara, CA

**CORNERSTONE**  
**EARTH GROUP**

Geologic Time Scale	Years Before Present (Approx.)	Fault Symbol	Receivcy of Movement	DESCRIPTION	
				ON LAND	OFFSHORE
Quaternary	Late Quaternary Holocene			Displacement during latest ice age (e.g. San Andreas fault 1000) includes areas of eastern fault zone	
	Pre-Ice Age			Displacement during ice age	Fault displacement includes areas of eastern fault zone
	Early Quaternary			Displacement during ice age	Fault displacement includes areas of eastern fault zone
Pre-Quaternary	700,000 - 1,600,000			Displacement during ice age	Fault displacement includes areas of eastern fault zone
	4.5 billion (Age of Earth)			Faults without recognized Quaternary displacement or striking evidence of displacement during Quaternary time. Not necessarily inactive	Faults older than 100,000 or older age

Base by California Geological Survey - 2010 Fault Activity Map of California (Jennings and Bryant, 2010)



## **Appendix E**

### **Phase I Environmental Site Assessment**



**PHASE I  
ENVIRONMENTAL SITE  
ASSESSMENT - FINAL**

2305 Mission College Boulevard  
– Santa Clara, CA

October 13, 2014

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# PHASE I ENVIRONMENTAL SITE ASSESSMENT - FINAL

2305 Mission College Boulevard – Santa Clara, California

October 13, 2014

## Client

Prudential Real Estate Investors  
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Appendix A – Key Definitions from ASTM E 1527-13

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Appendix C – Site Photographs-Not Allowed at Site

Appendix D – Environmental Database Report

Appendix E – Historical Information

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## Executive Summary

WSP conducted a Phase I environmental site assessment of the General Dynamics Advanced Information Systems (General Dynamics) facility located at 2305 Mission College Boulevard in Santa Clara, Santa Clara County, California (subject property, facility, or site), at the request of Prudential Real Estate Investors (PREI). The Phase I environmental site assessment was conducted in accordance with the U.S. Environmental Protection Agency Standards and Practices for All Appropriate Inquiries as required under Section 101(35)(B) of the Comprehensive Environmental Response, Compensation, and Liability Act and referenced in Title 40 Code of Federal Regulations, Part 312; the ASTM International Standard E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E 1527-13); and WSP's proposal to Prudential Real Estate Investors for the work, dated September 15, 2014.

The goal of this Phase I environmental site assessment was to identify recognized environmental conditions in connection with the Subject Property based on a records review, the property visit, and interviews. Key definitions from ASTM E 1527-13 that serve as the basis for WSP's findings are included in Appendix A.

The Subject Property is comprised of 15.76 acres of land and includes a two-story, multi-tenant, 358,503-square-foot building. The building consists of four contiguous sections identified as Buildings A, B, C and D. General Dynamics Advanced Information Systems (General Dynamics) occupies suite 101 (Buildings A, B and C), which includes approximately 347,503 square feet. Other tenants within the building include TUV Rheinland North America, an electrotechnical testing company, which occupies Suite 105 (Building D); and Corporate America Family Credit Union, which occupies Suite 103 (near the main entrance of Building B). Building A was constructed in 1979, Building B was constructed in 1980-81, Building C was constructed in 1983-84 and Building D was constructed in 1985. The buildings were completely remodeled in 2005 before General Dynamics began operating on-site in 2005.

Other key features of the subject property include a 120,000-gallon concrete aboveground storage tank (AST) containing fire water, a fire pump house, and outdoor fenced areas containing two emergency generators, an enclosed patio, a trash compactor and outdoor non-hazardous trash bins. The General Dynamics facility is used for research and development of high security aerospace and defense products and services. Operations conducted at the subject property include research and development laboratories, product and equipment distribution and storage and administrative offices. According to the Santa Clara County Recorder, the subject property is owned by 2305 MCB LLC and initial construction on the property occurred in 1979.

WSP did not identify any known recognized environmental conditions in connection with the subject property and does not recommend any additional investigation.

WSP identified the following historical recognized environmental condition in connection with the subject property:

- The Subject Property, identified as Nortel Networks, is listed on the Spills, Leaks, Investigations and Cleanup (SLIC) database as having a historical release of solvents to groundwater. The contamination was discovered during groundwater monitoring onsite and this information was presented to the San Francisco Bay Regional Water Quality Control Board (SFRWQCB) on June 7, 2002. The subsurface investigation indicated elevated concentrations of volatile organic compounds (VOCs) in groundwater and low levels of pesticides and metals in shallow soils. The information was reviewed by the SFRWQCB and on February 25, 2005, the site was granted "No Further Action" status.
- The Subject Property, identified as South Bay Development Company, is listed on the SLIC database for a release of total petroleum hydrocarbons in 2005. According to the Phase II investigation associated with the release, there was an attempt to steal an emergency generator at the Subject Property on January 2, 2005. During this event, between 180 and 200-gallons of diesel fuel were spilled on a paved area of the site. The release was cleaned up and subsequent soil and groundwater samples were collected. Analytical results indicated the presence of total petroleum hydrocarbons as diesel (TPHd) in nine of the 19 soil samples collected. TPHd was not detected in any of the five groundwater samples collected onsite. Based on the results of the investigation and current land use, the SFRWQCB granted "No Further Action" status to the site on March 17, 2005.

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WSP identified the following *de minimis* condition on the subject property:

- Minor staining was observed within the secondary containment area of the fire pump aboveground storage tank; however, no cracks were observed within the concrete containment. Additionally, WSP did not observe any staining outside of the concrete berm or outside the fire pump house. This minor staining is considered a *de minimis* condition as it is unlikely that subsurface soils or ground water have been impacted.

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# 1 Introduction

## 1.1 General

WSP conducted a Phase I Environmental Site Assessment of the General Dynamics facility located at 2305 Mission College Boulevard, Suite 100 in Santa Clara, Santa Clara County, California (Subject Property, facility, or site), at the request of Prudential Real Estate Investors. The Phase I environmental site assessment was conducted in accordance with the U.S. Environmental Protection Agency (EPA) Standards and Practices for All Appropriate Inquiries (AAI) as required under Section 101(35)(B) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as specified in Title 40 Code of Federal Regulations (CFR), Part 312; the ASTM International Standard E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E 1527-13); and WSP's proposal to Prudential Real Estate Investors for the work, dated September 15, 2014.

The goal of this Phase I environmental site assessment was to identify recognized environmental conditions in connection with the subject property based on a records review, the site visit, and interviews. Key definitions from ASTM E 1527-13 that serve as the basis for WSP's findings are included in Appendix A.

The assessment is based on a visit to the subject property by Betsy Mitton, senior project director of WSP, an Environmental Professional. Ms. Mitton's resume is included in Appendix B. Ms. Mitton was assisted at the Subject Property visit by Mr. Phil Cueto, facilities manager and Ms. Terry Duffina, energy manager of General Dynamics. The following work was conducted during completion of the environmental assessment:

- A site visit at the General Dynamics facility was conducted on September 22, 2014. The site visit covered areas of the building occupied by General Dynamics including lobbies, hallways, several cubicle areas, the cafeteria, warehouse and outdoor areas including a patio, loading dock, fire pump house, enclosed emergency generators, aboveground fire water tank and paved parking areas.
- The following areas of the Subject Property were inaccessible during the site visit due to restricted security access:
  - Laboratories and cubicles within Buildings A and B
  - Building C, with the exception of the fitness center
  - Building D (TUV Rheinland North America subtenant space)
  - The credit union (sub-tenant space near the front lobby)
- Relevant environmental documents were reviewed including building plans and Alta maps.
- Photographs of the subject property were not allowed due to security clearance protocols.
- WSP's confidential Phase I environmental site assessment questionnaire was completed with the assistance of Ms. Terry Duffina, energy manager and former environmental manager of General Dynamics. Ms. Duffina has been employed at the facility for 10 years.
- WSP conducted interviews with the following people:
  - Mr. Phil Cueto, facilities manager of General Dynamics. Mr. Cueto has been managing facility issues for General Dynamics for over 30 years.
  - WSP was unable to contact previous site owners. The significance of this data gap is discussed in Section 5.
  - The "user" of this Phase I environmental site assessment, PREI, was requested to provide information relevant to identifying the possibility of a recognized environmental condition in connection with the subject property. A response has not been received from PREI. The significance of this data gap is discussed in Section 5.

- 
- WSP retained Environmental Data Resources, Inc. (EDR), to conduct a database search of the subject property and relevant properties within AAI- and ASTM-specified search radii to identify releases or threatened releases and to help assess the likelihood of potentially migrating hazardous substances or petroleum products. The search (including the approximate minimum search distances) was conducted in accordance with the standards established by Section 101(35)(B) of CERCLA, 40 CFR 312.26, and ASTM E 1527-13. The results of the database search are presented in Appendix D.
  - WSP also retained EDR to conduct a search for historical records pertaining to the subject property. The records search produced the following results:
    - aerial photographs dated 1939, 1948, 1950, 1956, 1968, 1979, 1982, 1993, 1998, 2005, 2006, 2009, 2010 and 2012 (Appendix E)
    - Sanborn fire insurance maps were not available for the subject property (Appendix E)
    - historical topographic maps from 1899, 1953, 1961, 1968, 1973 and 1980 (Appendix E)
    - city directories from 1980 to 2013 (Appendix E)
  - WSP reviewed property information available on the Santa Clara County Assessor's website and the City of Santa Clara Zoning Map.
  - WSP reviewed the information available from the Santa Clara County Department of Environmental Health.
  - WSP reviewed files at the Santa Clara Fire Department-Hazardous Materials Division to verify information identified in the regulatory database search for the subject property.
  - WSP obtained information regarding releases at adjoining properties from the Geotracker online database.
  - A search of engineering and institutional controls on the use of the property, including deed restrictions, was included as part of the regulatory database search performed by EDR.
  - WSP reviewed the following previous environmental reports:
    - Phase I Environmental Site Assessment of Nortel Networks prepared by Roy F. Weston, Inc., dated July 1999.
    - Phase II Environmental Investigation at 2305 Mission College Boulevard, Santa Clara, California prepared by Clayton Group Services, dated July 12, 2002.
    - Asbestos Containing Materials Report for 2305 Mission College Boulevard, Santa Clara, California prepared by Clayton Group Services, dated December 9, 2002.
    - Phase II Environmental Site Assessment for 2305 Mission College Boulevard, Santa Clara, California, prepared by Clayton Group Services, dated March 2, 2005
    - No Further Action Letter for Diesel Fuel Release at 2305 Mission College Boulevard, Santa Clara, California, prepared by the San Francisco Bay Regional Water Quality Control Board, dated March 17, 2005
    - Phase I Environmental Site Assessment for General Dynamics Building, 2305 Mission College Boulevard, Santa Clara, California, prepared by MACTEC Engineering and Consulting Services, dated August 2005.
    - Phase I Environmental Site Assessment of General Dynamics, 2305 Mission College Boulevard, Santa Clara, California, prepared by Gabion Real Estate Advisors, dated October 11, 2013.
  - WSP also reviewed a Zoning and Site Requirements Summary for 2305 Mission College Boulevard, Santa Clara, California, prepared by The Planning & Zoning Resource Corporation, dated October 31, 2013.
  - A chain of title was not provided for the subject property.

---

This Phase I environmental site assessment was conducted in accordance with ASTM E 1527-13. Biological agents, cultural and historic resources, ecological resources, endangered species, health and safety, indoor air quality (except as related to a potential release of a hazardous substance or petroleum product), industrial hygiene, lead in drinking water, mold, and wetlands are non-scope considerations under Section 13.1.5 of ASTM E 1527-13 and were not included in WSP's Phase I environmental site assessment process.

## 1.2 Disclaimer

The Client acknowledges and agrees that this report was prepared solely on its behalf and functions solely as a Phase I environmental site assessment. By accepting this report the Client acknowledges and agrees that it may in part rely upon sources, either written or oral, that WSP considers reliable, but which are not guaranteed or independently verified by WSP.

Where Client is required to disseminate this report, either by law or in connection with Client's business activities, to any other party to whom this report is not addressed (the "Third Party"), Client agrees to notify the Third Party of the terms of this disclaimer who in turn shall be bound by such terms. Any Third Party wishing to rely on the information and opinions contained herein does so at its own risk in absence of a written letter of reliance provided by WSP.

## 1.3 Term of Report Viability

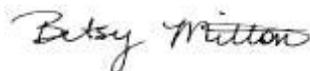
In accordance with ASTM E 1527-13 and AAI, this report is presumed to be valid for a period of up to 180 days before the date of a future property transaction by the intended user. In addition, this report may be used for a period of up to one year before the date of a future property transaction by the intended user, provided that the following components are conducted or updated within 180 days of the date of purchase or the date of the intended transaction:

- interviews with owners, operators, and occupants;
- searches for recorded environmental cleanup liens;
- reviews of federal, tribal, state, and local government records;
- visual reviews of the property and adjoining properties;
- declaration of the environmental professional responsible for the assessment or update.

## 1.4 Environmental Professional Declaration

This report was prepared by Betsy Mitton, senior project director of WSP. Ms. Mitton's resume is included in Appendix B.

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR Part 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



---

Betsy Mitton, Senior Project Director

---

## 2 Subject Property

### 2.1 General Description

General Dynamics is located at 2305 Mission College Boulevard, Suite 100 in Santa Clara, Santa Clara County, California (Figure 1). According to the Zoning and Site Requirements Summary Report prepared by the Zoning and Planning Resource Corporation, the subject property is zoned ML for light industrial zoning district and identified as mixed use office/warehouse and R&D use.

The subject property is owned by MCB 2305 LLC. General Dynamics leases the entire building and subleases two areas of the building. Other tenants within the building include TUV Rheinland North America, an electrotechnical testing company, which occupies Suite 105 (Building D); and Corporate America Family Credit Union, which occupies Suite 103 (near the main entrance of Building B). A general description of the property is summarized in the table below:

Item	Description
Property Size	15.786 acres
General Property Use	Multi-Tenant, Warehouse, Administrative and Research & Development
Number of Buildings	1 (four contiguous buildings under one roof)
Number of Stories	2
Construction Date	1979 (Previous Environmental Reports)
Major Renovation/Addition Date and Type	Complete building remodel in 2005
Building Square Footage	358,503 square feet
Leasehold Square Footage	347,503 square feet
Type of Foundation	Slab on grade
Basement	No
Heating, Ventilation, and Air Conditioning (HVAC)	Natural Gas Fired Forced Hot Air, electric A/C
Other site details	Landscape Areas, Paved Parking Lot, 120,000-gallon water tank; fire pump house

Key features of the subject property include the following:

- Main lobby
- contiguous Buildings A, B, C and D
- cubicles and research and development laboratories
- warehouse and file storage area
- shipping and receiving with loading dock
- hazardous materials/hazardous waste storage room

- 
- outdoor waste storage area
  - aboveground water storage tank
  - fire pump house
  - two emergency generators

## 2.2 Environmental Setting

According to the U.S. Geological Survey Milpitas, California quadrangle (7.5-minute series) map, the ground elevation of the subject property is approximately 27 feet above mean sea level. The subject property is located on relatively flat land with the property sloping slightly to the north-northeast toward the San Francisco Bay.

No water bodies are present on the subject property. The nearest water body, San Tomas Aquinas Creek borders the subject property to the west. A large berm is situated between the creek and the subject property and reportedly protects the property from a 100 year flood. According to previous reports, groundwater flow was presumed to be to the north.

The U.S. Department of Agriculture Soil Conservation Service indicates that the soils at the subject property are classified as Botella. The soils texture is identified as clay loam. The bedrock underlying the property consists of rocks from the Quaternary series.

According to the Federal Emergency Management Agency Flood Insurance Rate Map, the subject property is located within a 100-year flood plain. General Dynamics personnel reported that, to their knowledge, the property has never flooded.

WSP reviewed wetlands information for the site using the U.S. Fish and Wildlife Service's (USFWS) online National Wetland Inventory Mapper. According to the USFWS database, wetlands are not present on the subject.

## 2.3 Past Uses

According to local records, review of previous environmental reports and interviews with facility personnel, the subject property was originally developed in 1979 on agricultural land. The aerial photographs, historical topographic maps, and city directories reviewed from 1939 to 2013 confirm that the subject property was used for agricultural purposes until the portion identified as Building A was constructed in 1979. Building B was constructed in 1980-81, Building C was constructed in 1983-84 and Building D was constructed in 1985. The subject property was unoccupied from 2002 to 2005 when General Dynamics remodeled the building and began operating onsite in 2005.

Previous occupants of the subject property include Nortel Networks from 1979 to 2002. According to previous environmental reports, Nortel Networks conducted manufacturing, assembly, and distribution of circuit boards; assembly and distribution of telephone switching equipment; and research and development while it occupied the subject property. Nortel Networks previously used and stored chlorinated solvents on-site including Freon and 1,1,1 trichloroethane (1,1,1-TCA). Nortel Networks also previously used and stored acetone, isopropyl alcohol, lead solder and liquid nitrogen on the property. WSP reviewed a Final Closure Inspection and Report by the Santa Clara Fire Department, Hazardous Materials Division (Santa Clara HMD), prepared after Nortel vacated the property. The Santa Clara HMD inspected the facility on April 19, 2002 and identified the following tasks to be completed before closure of the building:

- Decontaminate and test all ducts and vents
- Decontaminate and test the hazardous materials storage area concrete

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- Provide manifests and bills of lading for the final shipment of all chemicals, lead-acid batteries, diesel generators and liquid nitrogen

According to Santa Clara HMD documents, all vents and ducts were removed from the site; the hazardous materials storage area concrete was properly decontaminated and tested with clean results; the chemicals and lead-acid batteries stored onsite were sent to Romic Environmental for offsite disposal; the diesel generators remained with the subject property and the liquid nitrogen tank was removed by Praxair. On July 1, 2002, the Santa Clara HMD issued "Final Closure" approval to Nortel for the subject property.

Two releases occurred on the subject property prior to General Dynamics occupying the site in 2005 including historical releases from manufacturing chemical storage areas maintained by Nortel Networks. The contamination was discovered during on-site groundwater monitoring and this information was provided to the San Francisco Bay Regional Water Quality Control Board (SFRWQCB) on June 7, 2002. The property was listed on the *Spills, Leaks, Investigations and Clean Up* (SLIC) database; however, based on monitoring data collected from the site and the use of the property, the SFRWQCB granted "No Further Action" status to the subject property on February 25, 2005. This release and subsequent case closure is considered a historical recognized environmental condition for the subject property.

A second reported release occurred on January 2, 2005. A contractor reportedly tried to steal an emergency generator from the property and subsequently spilled between 180 and 200 gallons of diesel on a paved area, which flowed to the storm water drainage system. Soil and groundwater samples were collected and analyzed for total petroleum hydrocarbons as diesel (TPHd). Low concentrations of TPHd were detected in shallow soils, and TPHd was not detected in any of the analyzed groundwater samples. Based on the results of the investigation and land use, the SFRWQCB granted "No Further Action" status to the site on March 17, 2005. The two (2) closed releases are considered historical recognized environmental conditions (HRECs) for the subject property.

Additional information is provided in *Section 2.4-Previous Environmental Reports* and *4.2-Regulatory Database Search*

According to the Santa Clara County Recorder, the subject property has been owned by 2305 MCB LLC since 2013. The previous owner of the subject property is identified as VV USA City LP.

## 2.4 Previous Environmental Reports

WSP reviewed the *Phase I Environmental Site Assessment of Nortel Networks; 2305 Mission College Boulevard, Santa Clara, California* dated July 1999 prepared by Roy F. Weston, Inc. (Weston). The Weston assessment identified the following recognized environmental conditions and observations at the subject property:

- Freon 113 and 1,1,1-TCA were stored in aboveground storage tanks and drums on-site. According to Weston, the potential for spills or releases of these hazardous materials was identified as a recognized environmental condition.
- Chlorinated solvent releases were identified at nearby properties Intel and Siliconix with groundwater monitoring wells located south of the subject property. Weston indicated the potential for migration onto the subject property was an environmental concern.
- Chlorinated solvents were identified in groundwater beneath the nearby Great America Amusement Park. The releases were reportedly due to underground storage tanks on that property. Weston indicated the potential for migration onto the subject property was an environmental concern.
- Asbestos containing materials were identified in floor tiles in two of the three buildings onsite. Weston indicated this was an environmental concern for the subject property.
- Weston indicated the fact that the subject property is within a floodplain was an environmental concern.

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- The Intel property, located south beyond Mission College Boulevard, operates a sewer line that enters the subject property before connecting to the publicly-owned treatment works (POTW). According to Weston, Intel had not cooperated with Nortel Networks to inspect the condition of the sewer line. Weston identified this as an environmental concern to the subject property.

WSP reviewed the *Phase II Environmental Site Assessment of 2305 Mission College Boulevard, Santa Clara, California* dated July 12, 2002 prepared by Clayton Group Services (Clayton). The Clayton assessment included the following activities at the subject property and results of the investigation. No recommendations were included.

- A total of 15 borings were installed throughout the property including in paved parking areas, hazardous materials storage areas, beneath Building A and north of Building A. All 15 soil borings were analyzed for pesticides, total metals (including lead), and volatile organic compounds (VOCs).
- Five groundwater samples were collected and analyzed for pesticides, total metals including lead and VOCs.
- Analytical results indicated the following:
  - VOCs were not detected in any of the soil samples analyzed.
  - Low levels of metals were detected including arsenic (39 to 51 milligrams/kilograms (mg/kg or parts per million)); lead (14 to 180 mg/kg) and mercury (0.67 to 0.139 mg/kg).
  - Pesticides in shallow soils included 4,4-DDE (0.29 to 2.4 mg/kg); 4,4-DDD (0.11 to 0.34 mg/kg); and 4,4-DDT (0.93 to 0.55 mg/kg)
  - VOCs were detected in groundwater included 1,1,1-trichloroethane (11 to 36 micrograms/kilogram (ug/kg or parts per billion); 1,1-dichloroethene (32 to 64 ug/kg); and 1,1-dichloroethane (6.9 to 10 ug/kg ).

The SFRWQCB issued a “No Further Action” letter indicating that the VOCs in groundwater were locally isolated and that no further assessment of VOCs in groundwater was warranted based on the use of the subject property and the surrounding area, and no local water supply wells were identified to be at risk. The releases identified at the subject property in 2002 are considered a historical recognized environmental condition for the subject property.

WSP reviewed the *Phase II Environmental Site Assessment of 2305 Mission College Boulevard, Santa Clara, California* dated March 2, 2005 prepared for South Bay Development Company by Clayton. The Phase II assessment was in response to an attempt to steal an emergency generator from the site. Reportedly, approximately 180 to 200-gallons of diesel fuel were released to paved areas and due to inclement weather, discharged to nearby storm drains. As part of the clean-up activities, the concrete area and storm water drains were pressure washed and all wash water was collected for off-site disposal. The subsurface investigation included advancement of 16 borings at the site with soil collected for analysis from 16 locations groundwater collected for analysis from five locations. All samples were analyzed for TPHd. Analytical results indicated TPHd was not detected in 10 of the 19 soil samples analyzed. Low concentrations of TPHd were detected in seven soil samples (maximum concentration of 37 mg/kg) and two soil samples indicated TPHd at 190 and 210 mg/kg. TPHd was not detected in any of the five groundwater samples analyzed. Clayton determined that the soil and groundwater beneath the site was not significantly impacted and recommended a no further action request be submitted to the agency.

WSP reviewed a letter, dated March 17, 2005, from the SFRWQCB that concurred with Clayton’s recommendation for no additional investigations or clean-up at the subject property. The SFRWQCB issued a “No Further Action” letter for the diesel release at the subject property. The release in 2005 is considered a historical recognized environmental condition for the subject property.

WSP reviewed the *Phase I Environmental Site Assessment of General Dynamics Building; 2305 Mission College Boulevard, Santa Clara, California* dated August 2005 prepared by MACTEC Engineering and Consulting

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(MACTEC). The MACTEC assessment identified the following recognized environmental condition and observations at the subject property:

- This report noted the previous investigation by Clayton in 2002, and the subsequent No Further Action letter dated 2005.
- MACTEC's review of the regulatory agency information and identified multiple regulatory listed facilities within the subject property area, including upgradient (Intel) and adjacent (Perkin Elmer) facilities. The Intel facility has had a documented release of chlorinated solvents to the groundwater and had been performing source removal and remediation at the facility since at least the late 1990's. The adjacent Perkin Elmer facility has utilized underground storage tanks (USTs) for storage of diesel, solvents, and waste chemicals. There have been no known documented releases from this facility. MACTEC concluded that due to the presence of USTs at the upgradient (Intel) and adjacent (Perkin Elmer) properties, the nearby properties are considered to have a moderate likelihood of impacting subsurface conditions at the subject site and could present a potential environmental concern. Furthermore, MACTEC stated that because the local regulatory agencies have acknowledged the presence of VOCs in the regional groundwater and VOCs have previously been detected in groundwater below the subject site, MACTEC did not interpret these offsite properties to represent recognized environmental conditions.
- In 2005, a portion of Building C is occupied by Sanmina, who conducted electromagnetic testing for radio antennas. MACTEC observed minor pavement staining associated with the one trash compactor located on the subject property, but the staining was observed to be restricted to the pavement surface. MACTEC concluded that the minor staining is considered a *de minimis* condition not requiring further assessment.
- MACTEC concluded that although elevated concentrations of VOCs were detected in groundwater, no adverse human health risks to office workers are expected as a result of vapor intrusion of VOCs from the groundwater to indoor air. MACTEC's conclusion was based on the depth to groundwater, the non-detection of VOCs in soil samples collected in the vicinity of the foundation during the previous investigations, and the lithology of permeable clays and silts encountered during the investigation.

WSP reviewed the *Phase I Environmental Site Assessment of General Dynamics Building; 2305 Mission College Boulevard, Santa Clara, California* dated October 11, 2013 prepared by Gabion Real Estate Investors (Gabion). Gabion did not identify any known recognized environmental conditions or *de minimis* conditions during its assessment. However, Gabion identified the following historical recognized environmental condition at the subject property:

- This report noted the previous investigation by Clayton in 2002 and the subsequent No Further Action letter dated 2005.

## 2.5 Current Operations and Conditions

The General Dynamics facility was used for research and development of high security aerospace and defense products and services. Operations conducted at the subject property include research and development laboratories, product and equipment distribution and storage, and administrative offices. General Dynamics operated under the North American Industry Classification System (NAICS) code 334511, which is specific to search, detection and aeronautical system and instrument manufacturing. This NAICS code corresponds to standard industrial classification (SIC) code 3812.

General Dynamics had 400 employees and operates from 6 A.M. to 6 P.M., Monday through Friday.

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### 2.5.1 Raw Materials Handling and Storage Practices

WSP observed the following materials used and stored onsite by General Dynamics: office equipment and supplies (computers, printers, paper products); electronic equipment in laboratories and at work stations; small quantities of research and development chemicals including acetone, isopropyl alcohol and xylene in 1-gallon or smaller containers; Instapak shipping chemicals in 55-gallon drums; wood for shipping crate construction; maintenance lubricants, degreasers, adhesives, and cleaners in aerosol cans or 1-gallon or smaller containers; paint in 1-gallon and aerosol containers; cafeteria cleaners in 1-gallon or smaller containers; and two 55-gallon drums of diesel were stored onsite for the emergency generators and fire pumps.

According to *Exhibit F-Permitted Hazardous Substances* of the General Dynamics lease agreement dated April 28, 2005, the following materials were stored onsite: anti-static spray cleaners, graphite lubricants, paper shredder oil, stain and grease remover, quick set adhesives, Loctite, multi-purpose oil and WD-40, office cleaners and hand soap, tin solder paste, bleach, tire repair and carpet cleaners, Simple Green, 409 cleaner, flux remover, chiller chemicals, joint compound, marker board conditioner and cleaner, and benchtop conditioner. The majority of these chemicals were reportedly stored in plastic bottles and aerosol cans within the laboratories, which WSP did not have full access due to security measures. Therefore, WSP cannot confirm which hazardous materials are currently stored onsite. Based on the quantities of these chemicals and the fact that WSP observed several flammable storage cabinets throughout the subject property, the lack of a complete chemical inventory is not considered a data gap and does not likely pose an environmental concern to the subject property.

No staining, significant cracked concrete, floor drains, or other evidence of product migration were observed outside the building.

There was a designated battery charging station for the fork lifts. The concrete floors at the battery charging station appeared in good condition (no visual evidence of significant cracking, pitting, acid staining or etching).

Facility personnel indicated that current materials handling and storage practices were substantially the same as they have been since General Dynamics began operations on-site in 2005.

The chemical containers observed by WSP were marked with labels indicating their contents. None of the chemical containers was observed to be leaking or rusted. According to facility personnel and reviews of regulatory databases, no reportable spills or releases of warehoused materials have occurred at the facility since General Dynamics began operations. Information regarding previous on-site releases is discussed in Section 2.4.3.

California's 1985 Community Right-to-Know law, Assembly Bill 2185 (AB 2185), known as the *Hazardous Materials Release Response Plans and Inventory Law* governs hazardous materials handling, reporting requirements, and local agency surveillance programs. Assembly Bill 2189 was also passed and partially integrated the federal Superfund Amendments and Reauthorization Act (SARA) Title III into the California program including Sections 302, 304, 311, and 312 of SARA Title III. In California, the basic emergency planning document is the *Hazardous Materials Business Plan* (HMBP), or "business plan," that originated with AB 2185. The California program is more stringent than the federal requirements because an additional business plan requirement reduces the inventory thresholds to 20 times more inclusive for hazardous materials than the federal thresholds. The California threshold quantities are 500 pounds of a solid, 55 gallons of a liquid, and 200 cubic feet of a compressed gas.

General Dynamics maintained a HMBP in the lobby, dated October 14, 2009. At the time of the site visit, a more recent version was not available for review. WSP reviewed hazardous materials files submitted by General Dynamics to the Santa Clara HMD (the certified unified program agency (CUPA)). An HMBP dated November 9, 2009, listed the following hazardous materials and hazardous wastes onsite: liquid nitrogen, #2 diesel fuel in drums and three aboveground storage tanks, sealed lead/acid batteries containing sulfuric acid, universal waste batteries, waste printer toner cartridges, waste isopropyl alcohol, waste paint and waste laboratory debris.

On April 18, 2011, General Dynamics re-certified the HMBP and only submitted the first several pages of the report. A chemical inventory was not included in the 2011 submittal as required.

Based on the facility's NAICS code, General Dynamics may be subject to the toxic release reporting requirements

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Section 313 of SARA, Title III; however, based on WSP's observations of the operations, General Dynamics did not manufacture, process or otherwise use any materials over the required reporting threshold and has not submitted a Form R report. WSP searched the USEPA website for Form R filings associated with the property and none were identified. .

WSP did not identify any recognized environmental conditions based on a review of the facility's raw materials handling practices.

## 2.5.2 Solid and Hazardous Waste

General Dynamics was registered as a small quantity generator of hazardous waste and operated under the California EPA identification number CAL000301461. Hazardous wastes generated onsite were collected in labpacks and sent to Nexeo Solutions of Fairfield, CA for offsite disposal. According to the hazardous waste manifest database from 2011, annual hazardous wastes generated onsite include the following:

- 7 pounds of organic solvent waste
- 228 pounds of oily waste
- 2 pounds of off-spec organic wastes
- 1,000 pounds of latex waste

The facility managed spent fluorescent bulbs, batteries, and electronic waste as Universal waste. Universal waste was collected by Nexeo Solutions of Fairfield, California for offsite recycling. Several containers of Universal waste lamps and batteries were observed during the WSP site visit. The Universal waste containers were properly closed, labeled, in good condition, and free of leaks.

Hazardous waste was stored in the chemical storage room in Building B. At the time of the site visit, hazardous wastes were not being stored onsite. Spent fluorescent lamps, spent batteries, four 55-gallon drums of diesel fuel and small quantities of hazardous materials in flammable cabinets were stored in the chemical storage room. All containers were properly labeled and closed and the drums were situated on secondary containment pallets. No cracked concrete or floor drains were observed in the chemical storage room.

Hazardous waste satellite accumulation containers (red cans for wipes) were reportedly stored in the laboratories and periodically removed for offsite disposal. WSP did not have access to the laboratories where the cans were being stored; therefore, WSP was not able to make observations as to the condition or labeling of the containers. Since these containers were small and likely did not contain any free liquids, the lack of observation of these containers are not considered a data gap and does not likely pose an environmental concern to the subject property.

Solid wastes generated onsite included general office trash, general cafeteria trash, waste tallow from the cafeteria grease trap, scrap metal, scrap cable wire, cardboard and paper. One trash compactor, one paper shredder and several roll-off dumpsters were located onsite. Scrap metal and scrap cable wire was collected by Sims Recycling of San Jose, CA. Waste tallow was collected by Salina Tallow Company of Salinas, California. Other nonhazardous wastes were collected by Allied Waste of San Jose, California for offsite disposal.

No evidence of onsite waste disposal was noted during the site visit. No onsite pits, ponds, or lagoons were observed.

The facility was inspected for hazardous materials and hazardous waste compliance by the Santa Clara HMD on September 2, 2009 and June 15, 2012. Following the 2009 inspection, General Dynamics was issued notices of violation for the following areas: the HMBP did not include hazardous waste generation, start dates were not included on hazardous waste storage cans (red cans) in several laboratories, and there were incomplete fire/life/safety inspections records. Corrective actions for all of the notices of violations were submitted to the Santa Clara HMD on October 8, 2009 and no further actions were required.

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During the 2012 Santa Clara MHD compliance inspection, two deficiencies were noted including signs not posted outside the battery room indicating the hazardous materials stored within, and a relief valve on the emergency generator appeared to be the wrong size. These deficiencies were corrected in September 2012, and no further actions were required. No releases were associated with the violations.

WSP did not identify any recognized environmental conditions based on a review of the facility's waste management practices.

### 2.5.3 Underground and Aboveground Tanks

Based on interviews of facility personnel and a review of historical records, no underground storage tanks (USTs) have ever been present at the subject property. Additionally, WSP did not observe evidence of USTs (such as fill or vent piping) during the site visit. Based on a review of state and federal databases, no USTs have ever been registered at the site.

Non-regulated aboveground storage tanks located at the subject property include: one 120,000 gallon fire water tank located on the north side of the property; one 60-gallon diesel fuel tank within the fire pump house on the north side of the site; one 300-gallon diesel belly tank associated with the standby generator (number 1); one 175-gallon diesel belly tank associated with the emergency generator (number 2). All of the diesel aboveground storage tanks were situated within secondary containment. Minor staining was observed within the concrete secondary containment area of the fire pump aboveground storage tank; however, no cracks or staining was observed outside of the fire pump house. The staining is considered a *de minimis* condition as it is unlikely that subsurface soils or ground water have been impacted. No other staining was observed near any of the other aboveground storage tanks.

With the exception of the diesel release described in section 2.4.3, no leaks or spills have been reported for the ASTs.

According to oil pollution prevention regulations promulgated under the Clean Water Act, facilities that have an aggregate storage capacity greater than 1,320 gallons or a completely buried storage capacity greater than 42,000 gallons are required to develop and implement a Spill Prevention, Control, and Countermeasure (SPCC) Plan where the facility could reasonably be expected to discharge oil in quantities that may be harmful into or upon the navigable waters of the United States or adjoining shorelines. Based on the amount of oil and oil products stored onsite at the time of the site visit, an SPCC plan was not required for the facility.

WSP did not identify any recognized environmental conditions based on a review of the facility's USTs or ASTs.

### 2.5.4 Water, Wastewater, and Storm Water

The facility obtained its water from the City of Santa Clara public water supply. No water supply wells are located on the subject property. The facility discharges sanitary wastewater, boiler blow down, compressor condensate, and cafeteria wastewater to the City of Santa Clara Publicly Owned Treatment Works (POTW). According to facility personnel and historical records, no septic systems or cesspools have ever been present onsite and none were observed by WSP. Wastewater from the cafeteria discharged through a grease trap before being discharged to the POTW. The grease trap was cleaned out every two weeks and the tallow was stored in two 55-gallon drums before it was collected by Salinas Tallow Company of Salinas, California for offsite disposal. Floor drains were located in the restrooms and discharged to the POTW. General Dynamics did not maintain a wastewater discharge permit and a permit does not appear to be required by City regulations.

Facility personnel reported that no hazardous materials or petroleum releases have occurred in the vicinity of the floor drains. At the time of the site visit, all observed drains appeared to be in good condition with no signs of staining. No sumps were observed or reported to be present at the subject property.

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Storm water at the site flowed from a flat roof to a system of drainage pipes located along the perimeter of the building. From the drainage pipes, storm water was conveyed to the paved parking lot and was ultimately discharged to storm water drains located throughout the parking area. The facility maintained three covered dumpsters and an enclosed trash compactor outside north of the building. No other hazardous materials were stored outdoors exposed to storm water. No evidence of stains or stressed vegetation was observed outdoors by WSP.

The facility did not maintain a general permit to discharge storm water under the National Pollutant Discharge Elimination System and one does not appear to be required by federal or state regulation.

WSP did not identify any recognized environmental conditions based on a review of the facility's water, wastewater, or storm water discharges.

### 2.5.5 Air Emissions

Fugitive air emissions were generated from cleaners, lubricants, wood crate construction, vent hoods in the research and development laboratories, paper shredding and exhaust vents in the cafeteria.

General Dynamics maintained a *Permit to Operate* (Number 17406) from the Bay Area Air Quality Management District (BAAQMD). The three permitted sources included the fire pump and two emergency generators. The permit expires on April 1, 2015.

The building was heated with natural gas and cooled by several roof-mounted electric-powered units. The General Dynamics facility relied on Trane to service the heating and air conditioning systems. According to Ms. Duffina, Trane personnel were onsite daily and maintain an inventory and all required records for each unit.

WSP did not identify any recognized environmental conditions based on a review of the facility's air emission sources.

### 2.5.6 Polychlorinated Biphenyls

The USEPA requires facilities to presume that any mineral oil filled electrical equipment manufactured before July 2, 1979, contains polychlorinated biphenyls (PCBs), unless testing or other information demonstrates otherwise. Based on the age of the subject building (constructed in 1979 through 1985), it is unlikely that onsite electrical and hydraulic equipment contained PCBs.

Electricity was supplied to the facility by Pacific Gas & Electric. Three pad-mounted transformers were located adjacent to the exterior southeast wall of the building. No leaks or stains were observed in the vicinity of the transformer. The transformers were labeled "Dry," which indicates that the transformers do not contain transformer oil and thus did not likely contain PCBs. As no leaks or stains were observed in the vicinity of the transformers and because the transformers are dry, it was unlikely to be an environmental concern. Hydraulic equipment was present at the facility. WSP did not see any evidence of leaks from this equipment. Facility personnel reported that none of the equipment used onsite utilizes hydraulic fluid containing PCBs. Facility personnel also advised WSP that PCB-containing fluorescent light ballasts were not present at the subject property.

Two traction passenger elevators serviced the subject building. Oil in the gearboxes was changed periodically by outside contractors and disposed of offsite. Reportedly, there have never been any spills or releases in the elevator mechanical rooms. Based on the date of installation (1979 to 1985) it was unlikely that the elevator hydraulic oil contained PCBs. WSP did not observe any leaks or stains within the elevator mechanical rooms.

WSP did not identify any recognized environmental conditions with respect to PCBs at the subject property.

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## 3 Adjoining Properties

### 3.1 Present Uses

Based on interviews with facility personnel, a review of available city directories, and a visual “drive-by” review, the current uses of properties adjoining the subject property are summarized below:

Direction	Operator Name	Address	Property Use
North	Residential homes	Agnew Road	Residential homes
South	Mission College Boulevard followed by Mission City Center and Intel Corporation	2350 Mission College Boulevard; 2200 Mission College Boulevard	Multi-tenant high rise office; Intel headquarters and museum
East	Perkin Elmer; Omni Vision	2175 Mission College Boulevard; 4275 Burton Drive	Medical Imaging; Image sensors
West	San Tomas Aquino Creek; San Tomas Aquino Trail; Santa Clara Fire Station #8	2400 Agnew Road	Creek, paved/dirt path; fire station

The regulatory database report identified adjoining properties to the south (2200 and 2350 Mission College Boulevard), east (2175 Mission College Boulevard) and west (2400 Agnew Road) of the subject property having reported releases or clean-up activities. Additional information regarding these sites is provided in Section 4.2 – Regulatory Database Search and 4.3.2-Regulatory Agency File Review for Adjoining Properties.

### 3.2 Past Uses

Aerial photographs from 1939 to 1956 show the surrounding properties were agricultural fields. Commercial properties were first constructed east of the subject property in 1968. No other past uses of surrounding properties were identified from the historical sources reviewed.

The previous environmental reports (MACTEC 2005) noted several adjoining properties as listed on databases searched by EDR as having releases to groundwater. However, MACTEC did not indicate that these offsite releases were an environmental concern to the subject property. The 2013 report (Gabion) did not identify any releases at adjoining properties. Based on WSP's review, there is no evidence indicating an existing release or a material threat of a release of any hazardous substances or petroleum products into structures on the subject property or onto the ground, groundwater or surface water of the subject property from adjoining properties. No other historical sources of information regarding past uses of the adjoining properties were reasonably ascertainable.

Further details on past use of adjoining properties are provided in Section 4.1 – Historical Records.

## 4 Records Review/User Provided Information

### 4.1 Historical Records

#### 4.1.1 Sanborn Fire Insurance Maps

WSP retained EDR to conduct a search for historical maps, including Sanborn fire insurance maps, for the subject property. EDR has certified that there is no Sanborn fire insurance map coverage for the subject property (Appendix D).

#### 4.1.2 Aerial Photographs

WSP reviewed aerial photographs taken in 1939, 1948, 1950, 1956, 1968, 1979, 1982, 1989, and 1994. Significant changes in the use of the subject property and adjoining properties are summarized below:

Photograph	Subject Property	Adjoining Properties
1939, 1948, 1950, 1956 Scale 1" = 500'	The subject property is agricultural land.	The neighboring properties are also in agricultural use.
1968 Scale 1" = 500'	The subject property is agricultural land.	The adjoining property to the east has been developed and site improvements include at least two buildings with paved parking lots and landscaped areas. The adjoining properties to the east, north, and south remain agricultural land.
1979 Scale 1" = 500'	Building A has been developed and includes paved parking and the large water AST. The remaining portions of the property have been cleared.	The adjoining property to the east has been further developed with buildings and a large cleared area. The residential homes to the north have been developed. The fire station to the east beyond San Tomas Aquino Creek has been developed. The adjoining property to the south appears to remain in agricultural use.
1982 Scale 1" = 500'	Building B has been developed and additional paved parking lots are visible on the property. The area for Buildings C and D have been cleared.	The adjoining properties to the north, south and west remain unchanged from the 1979 photograph. The adjoining property to the east has been developed with at least two additional commercial buildings.
1993 Scale 1"=500'	Buildings A, B and C are visible with surrounding paved parking areas.	The adjoining properties to the north remain residential homes. The adjoining properties to the east and south have been developed with multiple commercial and industrial buildings.
1998 Scale 1"=500'	Building D is under construction on the north side of the property. The remaining areas of the subject property are unchanged from the 1993 photograph.	The surrounding properties are unchanged from the 1993 photograph; however, further development of commercial buildings is visible to the

Photograph	Subject Property	Adjoining Properties
		south.
2005, 2006, 2009, 2010 and 2012 Scale 1"=500'	The subject property appears similar to conditions at the time of the site visit.	The surrounding properties appear similar to conditions at the time of the site visit.

The aerial photograph review did not identify any evidence of suspect land contaminating activities, such as landfills or bulk storage tank farms, on or in the immediate vicinity of the Subject Property.

#### 4.1.3 Topographic Maps

WSP reviewed historical topographic maps for the subject property and the surrounding area prepared in 1900, 1905, 1943, 1954, 1970, 1981 and 1995. Significant changes in the use of the subject property and adjoining properties are summarized below:

Topographic Map	Subject Property	Adjoining Property
1899 Scale 1:62,500	The subject property is undeveloped.	Adjoining properties to the north, south, east, and west are undeveloped.
1953, 1961, 1968 Scale 1:24,000	The subject property contains agricultural crops.	Adjoining properties to the north, south, east, and west contain agricultural crops. Highway 101 first appears on the 1953 map.
1973 Scale 1:24,000	The subject property remains agricultural crops.	The adjoining property to the south (Intel) contains a single building. The adjoining property to the north is being developed with residential homes. The adjoining properties to the east and west remain agricultural crops.
1980 Scale 1:24,000	The subject property is developed with Building A.	The adjoining property to the north is further developed with residential homes. The adjoining property to the south remains unchanged from the 1973 map. The adjoining properties to the east and west are vacant, undeveloped land.

The historical topographic map review did not identify any evidence of suspect land contaminating activities, such as landfills or bulk fuel storage tank farms, in the immediate vicinity of the subject property.

#### 4.1.4 City Directories

City directories from 1977 to 2007 were reviewed (Appendix B). The subject property was listed on the city directory searches from 2002 to 2007. The city directory findings are summarized in the table below:

City Directory Year	Subject Property	Adjoining Properties
2013	General Dynamics	2200 Mission College Blvd: Intel Corp.  2350 Mission College Blvd: 43 tenants listed for address
2008	Daniel Miskimen, Nortel, Sanmina Sci Corp.	2175 Mission College Blvd: Optoelectronics, Perkin Elmer Optoelectronics, EG&G Venture Manager  2200 Mission College Blvd: Intel Corp., Robertson

		Marketing, Rosenbluth International, William McClatchy, Trillium Digital Systems  2350 Mission College Blvd: 40 tenants listed
2001	Nortel Networks	2350 Mission College Blvd: 9 tenants
1996	Northern Telecom Inc.	2175 Mission College Blvd: Optoelectronics, Perkin Elmer Optoelectronics, EG&G Venture Manager  2200 Mission College Blvd: Intel Corp.  2350 Mission College Blvd: 59 tenants
1991	Northern Telecom Inc.	2350 Mission College Blvd: 78 tenants
1985, 1986	Northern Telecom Inc.	2350 Mission College Blvd: Hughes Gunmaer Bedolla & Diener attorneys
1980	Northern Telecom Inc.	None listed

## 4.2 Regulatory Database Search

WSP retained EDR to search federal and state regulatory databases to identify environmental issues that have been reported for the subject property or properties in the vicinity of the subject property. Search radii specified by the AAI Standard (40 CFR 312.26(c)) and ASTM 1527-05 were used. The complete database report, which provides detailed descriptions of the databases searched, subject property, and surrounding properties, is provided in Appendix C.

The subject property was listed on several databases as Graebel Van Lines, Nortel Networks, Northern Telecom, VV US City LP, and General Dynamics. The database information is summarized below:

Database	Summary	Status
CA Haznet	Graebel Van Lines listed as generating oily waste in 1996.  General Dynamics is listed as generating organic solvent waste, oily waste, off-spec organic wastes and latex waste in 2010 and 2011.  Nortel Networks is listed as generating inorganic wastes, oily waste and liquids with lead, organic solids, laboratory wastes, polymer resin wastes and alkaline solutions in 2002.  VV US City LP listed as generating organic waste in 2005.	No reported hazardous waste violations.
RCRA-SQG, FINDS, CA SLIC, CA ENF, CA EMI	The facility listed as Northern Telecom is a small quantity generator of hazardous waste, the FINDS database for a Toxic Release Inventory submittal, the California Spills, Leaks, Investigation and Clean Up (CA SLIC) database for two releases of solvents and diesel. The site is listed on the California Enforcement Action (CA ENF) database for requested investigation following the solvent release. The California Air Emissions (CA EMI) database indicates air permits maintained by the facility	No reported outstanding violations on the RCRA-SQG and CA EMI databases. The SLIC and ENF cases have been

Database	Summary	Status
	between 2002 and 2012.	granted case closure.
FINDS	General Dynamics is listed on the Facility Index System as listed on the hazardous air pollutant inventory and environmental information system databases.	No violations identified.

Federal and state databases also were searched to determine the potential for the subject property to be affected by releases from neighboring properties. The sites that have the greatest potential to have caused environmental contamination are those that have had releases or spills of hazardous substances or petroleum products located upgradient or in close proximity to the facility. The direction of localized groundwater flow at the subject property is presumed to be to the north. Therefore, the sites that are of the greatest potential concern are those that have had releases or spills of hazardous substances or petroleum products and are south (upgradient) or in close proximity to the subject property.

Sixty sites were identified on the databases searched by EDR. Of these 60 sites, five are not listed on any database as having a spill or release onsite. Therefore, these sites do not likely pose an environmental concern to the subject property. Of the remaining 55 sites, only 17 sites are located upgradient of the subject property. Furthermore, 12 of the 17 upgradient sites are located between 0.5 and 1.0 miles from the subject property. Therefore based on the distance of these 12 sites to the subject property, these upgradient sites do not likely pose an environmental concern to the subject property. The remaining five sites are summarized below:

Site Name	Location	Distance From Subject Property	Description
Mission Investors, LLC	2350 Mission College Boulevard	Adjacent to SE	Listed as having one AST and one UST onsite. Site also listed as having an air emissions permit. No spills, releases or permit violations are identified. Therefore, this site does not pose an environmental concern to the subject property.
Fire Department #8	2400 Agnew Road	Adjacent to S	Site listed on CA LUST, Hist LUST and having a release of diesel in 1996. The facility was granted case closure in 2000. The site is also listed as having four active USTs onsite. No spills or release have been reported. Based on the closed status, this site does not likely pose an environmental concern to the subject property.
Intel Corp. headquarters	2200 Mission College Blvd., 3601 Juliette Lane	Adjacent to S and 0.125 to 0.5 miles SSE	Historical releases onsite due to electronics manufacturing. The LUST and SLIC cases for these sites are identified as having been granted case closure. The EDR report indicates the facility has entered into the Voluntary Cleanup Program and has also been issued a

Site Name	Location	Distance From Subject Property	Description
			deed restriction. According to Geotracker and a review of the Covenant of Environmental Restrictions, soil and groundwater beneath the property is contaminated with VOCs and land use is restricted. See below for additional details.
Siliconix Inc. and AT&T Mobility	2201 Laurelwood Road	0.25 to 0.5 mi SSE	The site is listed on several databases as having a release and subsequent enforcement action for VOC contaminated groundwater due to historical manufacturing operations. EDR listings indicate a groundwater remediation program is ongoing at the site. WSP reviewed a 2012 Well Installation and Aquifer Test Report prepared by AEI Consultants and obtained through Geotracker which indicated the highest VOC concentrations are on the south side of the Siliconix property. Additionally, the monitoring well closest to the subject property indicated low levels of VOCs. Based on the well data reviewed and the distance from the subject property, this site does not likely pose an environmental concern to the subject property.
Exxon #7	2181 Laurelwood Road	0.25 to 0.5 mi SSE	The site on several databases as having a historical release to groundwater. In 2004, the site was granted closure; therefore it does not pose an environmental concern to the subject property.

According to the Covenant of Environmental Restrictions (Covenant) for the Intel property, dated February 11, 2003 and issued by the SFRWQCB, the VOC contaminants remaining and included in the Covenant are identified in capillary fringe soils and groundwater wholly contained on the Intel property. According to the Covenant document, mitigation measures have been implemented at the Intel property and the exposure pathways are limited to direct contact with soils (dermal and ingestion) and groundwater primarily from deep excavations and dewatering activities. Therefore, the Covenant concludes that the risk to public exposure has been lessened due to remediation activities and the purpose of the Covenant is to eliminate any significant risks to human health and beneficial uses of waters of the State. Furthermore, WSP reviewed groundwater monitoring data from a monitoring well on the Intel property and closest to the subject property which indicated VOCs were not detected in groundwater as recent as 2005. The Covenant is included in Appendix E.

Based on the information provided in the database report and Covenant, and groundwater monitoring well information reviewed on the Geotracker database, it is unlikely that groundwater quality at the subject property was adversely affected by the Intel property and other offsite sources listed by EDR.

Four facilities within a 1-mile radius of the subject property were identified as “orphan sites” in the EDR database report. These sites are identified as unmappable sites due to imprecise or limited address information (e.g., an incomplete street address or a P.O. box). Therefore, it is difficult to determine the potential for activities at these sites to have affected the subject site. WSP did not observe any of the “orphan sites” in the vicinity of the subject property.

## 4.3 Regulatory Agency File Reviews

### 4.3.1 Subject Property

The subject property was identified on the RCRA-SQG, FINDS, CA SLIC, CA ENF, CA EMI, CA Haznet and FINDS databases. WSP reviewed information on the Geotracker database and also reviewed file information available from the Santa Clara HMD on September 26, 2014. A summary of the information reviewed is included in Section 2.5.1 Raw Materials Handling and Section 2.4 Previous Environmental Reports.

### 4.3.2 Adjoining Properties

As noted in Section 4.1 – Regulatory Database Search, the following adjoining properties were identified on regulatory databases searched by EDR:

Property Location	Property Name and Address	Regulatory Database Listings	Status	Agency File and Records Review
South	Mission Investors, LLC 2350 Mission College Boulevard	CA AST; CA SWEEPS UST; CA EMI	No releases identified	Not warranted due to lack of documented releases at the site.
South	Fire Dept #8 2400 Agnew Road	CA FID UST; CA LUST, CA HIST LUST, CA UST, CA SWEEPS UST; CA HIST UST; CA HIST CORTESE	Closed LUST case. No spills or releases identified with current USTs onsite.	Not warranted due to case closure status.
Southeast	Intel Corp. campus 2200 Mission College Blvd and 3601 Juliette Lane	ENVIROSTOR; CA AST; CA DEED; CA VCP; CA HIST LUST; SLIC; CERC-NFRAP	Release of VOCs to groundwater. LUST, SLIC and CERCLA-NFRAP cases were granted closure.	WSP reviewed groundwater monitoring well data for the Intel site on Geotracker. The groundwater monitoring well closest to the subject property indicated non detectable levels of VOCs in 2005. Therefore, this site

Property Location	Property Name and Address	Regulatory Database Listings	Status	Agency File and Records Review
				does not pose an environmental concern to the subject property.
East, Southeast	Advanced Microdevices, EG&G Sensors and Perkin Elmer Holdings 2175 Mission College Blvd.	RCRA LQG; ENVIROSTOR; CERC-NFRAP; SWEEPS UST; CA HIST UST; NPDES	Site has been granted No Further Action under CERCLA and the ENVIROSTOR database indicates the site is inactive.	The Geotracker database does not identify any ongoing onsite clean up or remediation. Therefore, this site does not likely pose an environmental concern to the subject property.

#### 4.4 Environmental Cleanup Liens/Activity and Use Limitations

A search of engineering and institutional controls on the use of the property, including deed restrictions, was included in the regulatory database search conducted by EDR. The results of the search indicated that no current engineering or institutional controls exist for the subject property.

#### 4.5 Review of Local Records

WSP also *contacted the Santa Clara County* Department of Health, Environmental Health Division, to determine whether any hazardous substances incidents have been reported for the subject property. A return message has not been received at this time.

No “commonly known” information was identified during the local records review.

#### 4.6 User-Provided Information

WSP submitted a User Questionnaire to PREI regarding knowledge or information they may have for the subject property. The completed questionnaire has not been provided by PREI at the time of the completion of this report. The lack of information provided by PREI is considered a data gap.

---

## 5 Data Gaps

WSP identified the following data gap during the Phase I environmental assessment:

- WSP was unable to interview any previous property owners or occupants of the subject property; however, sufficient information was available through other sources to determine historical operations that were conducted at the subject property. Therefore, this data gap does not affect WPS's ability to identify recognized environmental conditions at the subject property.
- WSP was unable to observe all interior areas of the building including laboratories and chemical storage areas. WSP was able to view several laboratories that were reportedly very similar to the restricted access labs. Additionally, WSP was able to obtain information from onsite personnel and local file reviews to determine current practices onsite. Therefore, this data gap does not affect WPS's ability to identify recognized environmental conditions at the subject property.
- WSP did not receive the completed User Questionnaire from PREI. This data gap does not affect WSP's ability to identify recognized environmental conditions at the subject property.

---

## 6 Conclusions

### 6.1 Findings and Opinion

WSP conducted a Phase I environmental site assessment of the General Dynamics facility located at 2305 Mission College Boulevard in Santa Clara, Santa Clara County, California. This assessment was conducted in accordance with the EPA Standards and Practices for AAI; ASTM E 1527-13; and WSP's proposal to Prudential Real Estate Investors for the work, dated September 15, 2014. Any exceptions to, or deletions from, ASTM E 1527-13 are described in Sections 1.1 and 5 of this report and in WSP's proposal.

#### 6.1.1 Known Recognized Environmental Conditions

WSP did not identify any known recognized environmental condition in connection with the subject property.

#### 6.1.2 Controlled Recognized Environmental Conditions

WSP did not identify any controlled recognized environmental condition in connection with the subject property.

#### 6.1.3 Historical Recognized Environmental Conditions

WSP identified the following historical recognized environmental condition in connection with the subject property:

- The subject property, identified as Nortel Networks, is listed on the Spills, Leaks, Investigations and Cleanup (SLIC) database as having a historical release of solvents to groundwater. The contamination was discovered during groundwater monitoring onsite and was presented to the San Francisco Bay Regional Water Quality Control Board (SFRWQCB) on June 7, 2002. The subsurface investigation indicated elevated concentrations of volatile organic compounds (VOCs) in groundwater and low levels of pesticides and metals in shallow soils. The information was reviewed by the SFRWQCB and on June 25, 2003, the site was granted "No Further Action" status.
- The subject property, identified as South Bay Development Company, is listed on the SLIC database for a release of total petroleum hydrocarbons in 2005. According to the Phase II investigation, there was an attempt to steal an emergency generator at the subject property on January 2, 2005. During this event, between 180 and 200-gallons of diesel fuel were spilled on a paved area of the site. The release was cleaned up and subsequent soil and groundwater samples were collected. Analytical results indicated the presence of total petroleum hydrocarbons as diesel (TPHd) in nine of the 19 soil samples collected. TPHd was not detected in any of the five groundwater samples collected onsite. Based on the results of the investigation and current land use, the SFRWQCB granted "No Further Action" status to the site on March 17, 2005.

#### 6.1.4 *De minimis* Conditions

WSP identified the following *de minimis* condition at the subject property:

- Minor petroleum staining was observed within the secondary containment area of the fire pump aboveground storage tank; however, no cracks were observed within the concrete containment. Additionally, WSP did not observe any petroleum staining outside of the concrete berm or outside the fire pump house. This minor staining is considered a *de minimis* condition as it is unlikely that subsurface soils or ground water have been impacted.

---

## 6.2 Recommendations

WSP did not identify any known recognized environmental conditions in connection with the subject property and does not recommend any additional investigation.

---

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- Weston, Roy F. 1999. Phase I Environmental Site Assessment of Nortel Networks. July.

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## 8 Acronym List

AAI	all appropriate inquiries
ACM	asbestos-containing material
AST	Aboveground Storage Tank
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Act Information System database
CFR	Code of Federal Regulations
EDR	Environmental Data Resources, Inc.
EPA	U.S. Environmental Protection Agency
LUST	leaking underground storage tank database
PCBs	polychlorinated biphenyls
PCE	tetrachloroethene
SARA	Superfund Amendments and Reauthorization Act
SIC	standard industrial classification
SPCC	spill prevention, control, and countermeasure
1,1,1-TCA	1,1,1-trichloroethane
UST	Underground Storage Tank
USFWS	U. S. Fish and Wildlife Service

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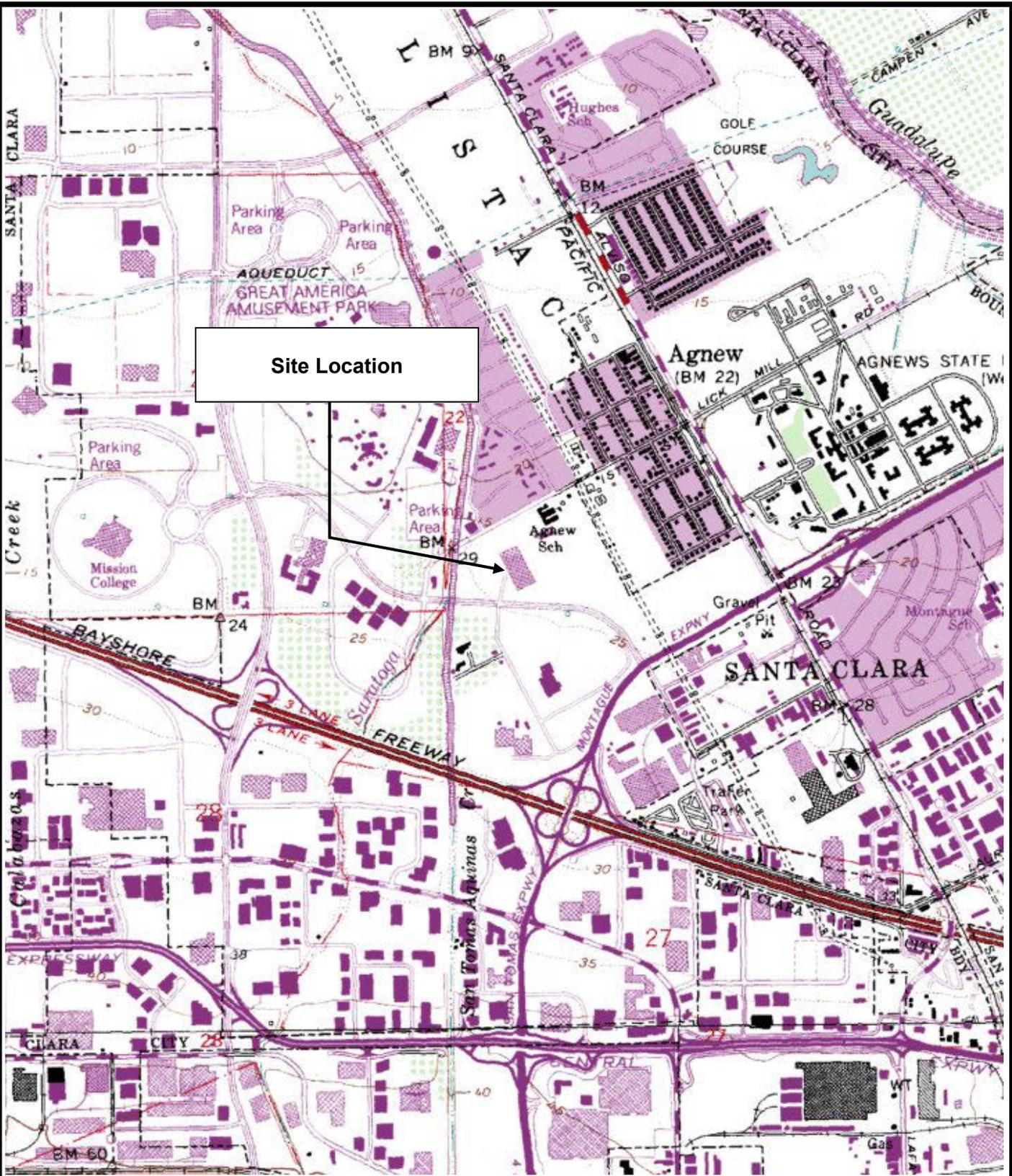
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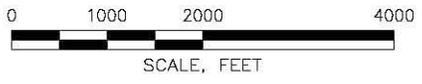
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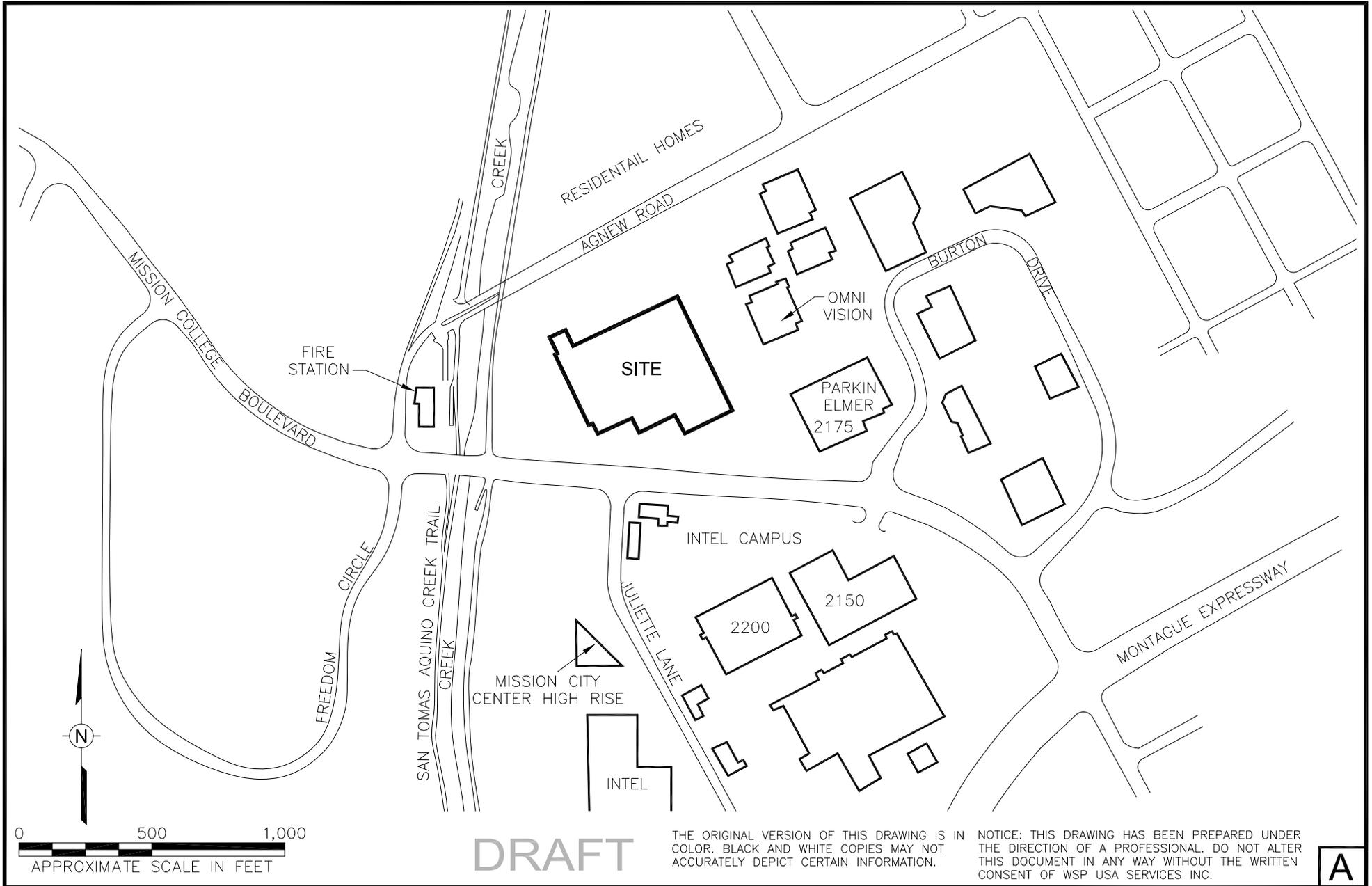
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 7.5 MINUTE SERIES TOPOGRAPHIC QUADRANGLE  
 SANTA CLARA COUNTY, CALIFORNIA  
 PHOTOREVISED 1980 SCALE 1:24,000



**WSP**  
 WSP USA Corp.  
 2025 Gateway Place, Suite 435  
 San Jose, California 95110  
 (408) 453-6100

FIGURE 1  
 SITE LOCATION MAP

GENERAL DYNAMICS  
 SANTA CLARA, CALIFORNIA  
 PREPARED FOR  
 PRUDENTIAL REAL ESTATE INVESTORS  
 SAN FRANCISCO, CALIFORNIA



**A**

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Figure 2

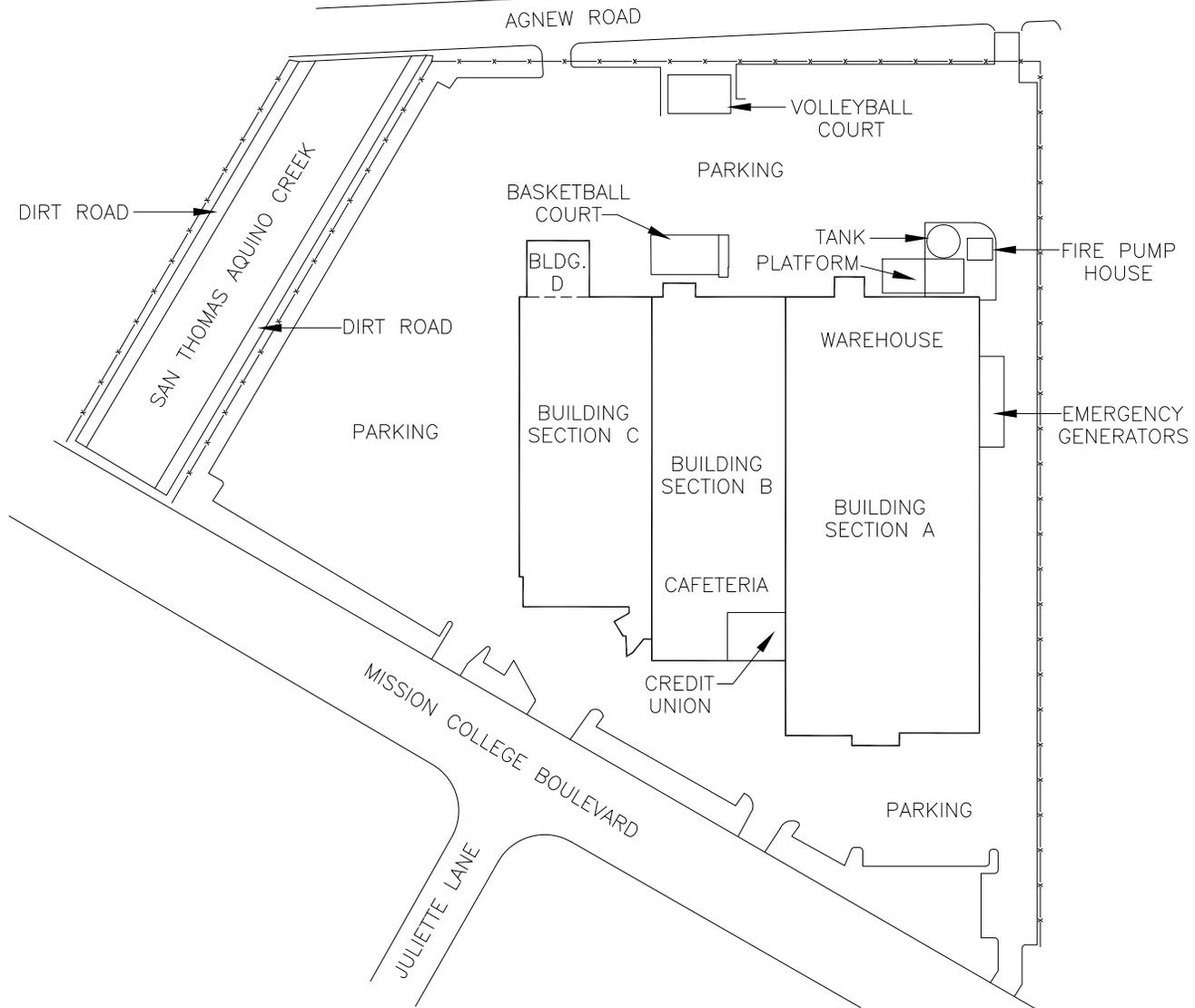
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SITE LAYOUT

GENERAL DYNAMICS  
 SANTA CLARA, CALIFORNIA

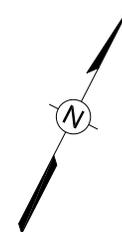
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 PRUDENTIAL REAL ESTATE INVESTORS  
 SAN FRANCISCO, CALIFORNIA

Drawn By: LS <i>10/7/2014</i>
Checked:
Approved:
DWG Name: 14M3100-001



**LEGEND**

—x—x—x— FENCE



0 250 500  
APPROXIMATE SCALE IN FEET

**A**

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**DRAFT**

Figure 3

FACILITY LAYOUT

GENERAL DYNAMICS  
SANTA CLARA, CALIFORNIA

PREPARED FOR  
PRUDENTIAL REAL ESTATE INVESTORS  
SAN FRANCISCO, CALIFORNIA

Drawn By: LS 10/7/2014

Checked:

Approved:

DWG Name: 14M3100-002



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## Appendix A – Key Definitions from ASTM E 1527-13

**Key Definitions from ASTM E 1527-13**  
**Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process**

As stated in ASTM E 1527-13, the goal of the Phase I site assessment process is to identify recognized environmental conditions. A recognized environmental condition means:

... the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

In addition, WSP used the following definitions from ASTM E 1527-13 to identify certain findings for this Phase I site assessment:

Controlled Recognized Environmental Condition – a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

Historical Recognized Environmental Condition – a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

De minimis Condition – a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

---

## Appendix B – Statement of Qualifications



## Betsy Mitton, CPEA, REA I

Senior Project Director  
WSP Environment & Energy

### Career Summary

Ms. Mitton has conducted environmental site assessments and compliance audits for clients with multiple manufacturing facilities in the United States and Canada as part of mergers and acquisitions, due diligence, real estate transactions, or corporate environmental management. The site assessments include evaluating historic property uses and conducting property inspections for current and past raw material and waste handling procedures, wastewater and storm water management, air emissions, and the presence of polychlorinated biphenyls, asbestos, radon, and lead-based paint. Ms. Mitton has interpreted regulatory database results for use in site assessments and treatment, storage and disposal facility evaluations. Ms. Mitton has conducted site assessments at numerous facilities including commercial and vacant properties, product warehouses, chemical processing plants, gear and axle manufacturing, metal forming and finishing, plastic injection molding, electronic component repair, printed circuit board assembly, computer hardware assembly, lead smelters, oil fields and petroleum production facilities, and grape vineyards.

### Professional Qualifications

- Registered Environmental Assessor I
- Environmental Compliance Certified Professional Environmental Auditor (CPEA),
- Board of Environmental Auditor Certifications Board of Environmental Health & Safety Auditor (BEAC)
- Certified Professional Environmental Auditor (CPEA) in Environmental Compliance

### Education and Training

- B.S. - Natural Resources and Environment, University of Michigan-Ann Arbor, MI
- OSHA 40-hour Health and Safety Training (1999) with Current 8-hour Refresher Training
- First Aid and CPR
- Department of Transportation Hazardous Materials Handling Certification

## Professional Memberships

- BEAC Member
- The Auditing Roundtable

## Selected relevant experience

### Project experience

- **Environmental Audits:** Ms. Mitton has audited many industrial facilities for compliance with environmental laws and regulations. The audit programs have included evaluations of compliance with the Resource Conservation and Recovery Act (RCRA), Superfund Amendments and Reauthorization Act (SARA) Title III, Clean Air Act, and Clean Water Act; underground and aboveground storage tank, polychlorinated biphenyl, Department of Transportation (DOT) hazardous material regulations; and lead-based paint and asbestos management practices. Ms. Mitton has performed audits of a variety of industrial processes, such as metal forming and finishing, plastic injection molding and extrusion, oil and gas extraction and distribution, chemical manufacture and distribution, food and beverage preparation and distribution, printed circuit boards and electronics. These audits included developing recommendations to achieve and maintain compliance, improve environmental management, and limit potential environmental liabilities. Ms. Mitton also manages a treatment, storage, and disposal facility liability review program for a client who uses waste management facilities throughout the United States and Canada for hazardous waste treatment and disposal. The program included evaluating the facilities' waste handling practices and compliance with RCRA regulations.
- **Regulatory Compliance:** Ms. Mitton routinely assists clients in developing procedures and programs for maintaining compliance with environmental regulations. Ms. Mitton has prepared storm water pollution prevention plans, spill prevention control and countermeasures plans, hazardous materials business plans, air permit applications and registrations, and prepared and reviewed Superfund Amendment Reauthorization Act Title III Section 313 Form R reports for facilities.
- **Due Diligence:** Ms. Mitton manages and completes numerous Phase I environmental site assessment and merger and acquisition due diligence projects for clients throughout the U.S and Mexico. The site assessments have included an evaluation of historic property uses; current raw material and waste handling and storage practices; wastewater and storm water management; air emissions; and the presence of polychlorinated biphenyls, asbestos, radon, and lead-based paint.
- **Environmental Management Systems Audit:** Ms. Mitton has assisted clients prepare their management system procedures and documents. Ms. Mitton has also conducted internal ISO 9001 pre-certification audits and training for a semi-conductor manufacturing facility.
- **Risk Assessment:** Ms. Mitton has evaluated the technical aspects of a number of environmental policies for insurance companies. Her responsibilities have included assessing agricultural facilities' container handling practices for fertilizers, pesticides, and herbicides for policy renewals; assessing the operations of a large industrial warehouse facility including a groundwater pump and treatment operation; evaluating remediation and contamination at landfills, and preparing documents for underwriters to assist in policy renewals.
- **Remediation Projects:** Ms. Mitton has managed numerous groundwater sampling events (monthly, quarterly, and semi-annually) for sites contaminated with volatile organic compounds (VOCs) and lead in the operation and maintenance phases of remediation. Ms. Mitton has prepared technical reports presenting and summarizing data obtained from sampling events.

- **Environmental Investigation:** Ms. Mitton has sampled soil, groundwater, air, surface water, and drinking water extensively at numerous facilities. Ms. Mitton has installed and abandoned monitoring wells. Ms. Mitton also has experience in soil and groundwater investigation coordination including work plan preparation, permit acquisition, field coordination, collecting soil samples using hand augers, drilling rigs, and Geoprobe technology, and analytical interpretation.
- **Preliminary Endangerment Assessment:** Ms. Mitton has conducted preliminary endangerment assessments (PEA) of an elementary school property and a metal recycling facility in accordance with the PEA requirements outlined by the State of California Environmental Protection Agency Department of Toxic Substances Control. The PEA includes background research, workplan preparation and implementation, public participation in the form of a community profile and public meeting, data evaluation, and report preparation.
- **Health and Safety:** Ms. Mitton has prepared workplans and health and safety plans for numerous sites contaminated with lead, petroleum, phenol, and VOCs. Ms. Mitton served as the onsite health and safety coordinator at a phenol manufacturing facility that was contaminated with phenol, acetone, cumene, and VOCs. In addition, Ms. Mitton routinely serves as the onsite health and safety coordinator when she is conducting field work.
- **Employee Training:** Ms. Mitton has prepared training slides and conducted employee training for several disciplines including hazardous waste, universal waste, used oil, storm water pollution prevention, spill prevention control and countermeasures plans, and polychlorinated biphenyls.
- **Forester:** As a forester, Ms. Mitton has been employed with the state and federal government as a crew leader and governmental inspector. She has interpreted aerial photographs in the field for extensive reforestation and timber harvesting projects, constructed maps and figures using aerial photographs and a global positioning system, and compiled data for a reforestation project. Ms. Mitton has also been a wildland firefighter and conducted environmental education classes.

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## Appendix C – Site Photographs-Not Allowed at Site

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## Appendix D – Environmental Database Report

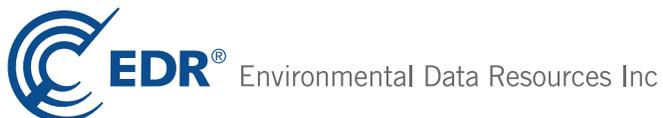


**General Dynamics**

2305 Mission College Boulevard  
Santa Clara, CA 95054

Inquiry Number: 4070509.2s  
September 19, 2014

**The EDR Radius Map™ Report with GeoCheck®**



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[www.edrnet.com](http://www.edrnet.com)

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*Thank you for your business.*  
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with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

2305 MISSION COLLEGE BOULEVARD  
SANTA CLARA, CA 95054

#### COORDINATES

Latitude (North): 37.3893000 - 37° 23' 21.48"  
Longitude (West): 121.9665000 - 121° 57' 59.40"  
Universal Transverse Mercator: Zone 10  
UTM X (Meters): 591489.4  
UTM Y (Meters): 4138357.0  
Elevation: 27 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 37121-D8 MILPITAS, CA  
Most Recent Revision: 1980  
  
South Map: 37121-C8 SAN JOSE WEST, CA  
Most Recent Revision: 1980

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20120520  
Source: USDA

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
GRAEBEL VAN LINES 2305 MISSION COLLEGE BLVD. SANTA CLARA, CA 95050	CA HAZNET	N/A
GENERAL DYNAMICS A I S 2305 MISSION COLLEGE BLVD SANTA CLARA, CA 95054	CA HAZNET	N/A

## EXECUTIVE SUMMARY

NORTHERN TELECOM INC 2305 MISSION COLLEGE BLVD SANTA CLARA, CA 95054	RCRA-SQG FINDS CA SLIC Facility Status: Completed - Case Closed  CA ENF CA EMI	CAD094973195
GENERAL DYNAMICS/AIS 2305 MISSION COLLEGE BLVD SANTA CLARA, CA 95054	FINDS	N/A
GENERAL DYNAMICS, AIS 2305 MISSION COLLAGE BLVD. SUITE 101 SANTA CLARA, CA 95054	FINDS	N/A
NORTEL NETWORKS 2305 MISSION COLLEGE BLVD. SANTA CLARA, CA 95050	CA HAZNET	N/A
V V US CITY LP 2305 MISSION COLLEGE BLVD SANTA CLARA, CA 95054	CA HAZNET	N/A

**DATABASES WITH NO MAPPED SITES**

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

**STANDARD ENVIRONMENTAL RECORDS**

***Federal NPL site list***

Proposed NPL..... Proposed National Priority List Sites  
 NPL LIENS..... Federal Superfund Liens

***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

***Federal CERCLIS list***

FEDERAL FACILITY..... Federal Facility Site Information listing

***Federal RCRA generators list***

RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

## EXECUTIVE SUMMARY

### **Federal institutional controls / engineering controls registries**

LUCIS..... Land Use Control Information System

### **Federal ERNS list**

ERNS..... Emergency Response Notification System

### **State and tribal landfill and/or solid waste disposal site lists**

CA SWF/LF..... Solid Waste Information System

### **State and tribal leaking storage tank lists**

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### **State and tribal registered storage tank lists**

INDIAN UST..... Underground Storage Tanks on Indian Land  
FEMA UST..... Underground Storage Tank Listing

### **State and tribal voluntary cleanup sites**

INDIAN VCP..... Voluntary Cleanup Priority Listing

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### **Local Brownfield lists**

US BROWNFIELDS..... A Listing of Brownfields Sites

#### **Local Lists of Landfill / Solid Waste Disposal Sites**

ODI..... Open Dump Inventory  
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations  
CA SWRCY..... Recycler Database  
CA HAULERS..... Registered Waste Tire Haulers Listing  
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands  
CA WMUDS/SWAT..... Waste Management Unit Database

#### **Local Lists of Hazardous waste / Contaminated Sites**

US CDL..... Clandestine Drug Labs  
CA SCH..... School Property Evaluation Program  
CA Toxic Pits..... Toxic Pits Cleanup Act Sites  
CA CDL..... Clandestine Drug Labs  
US HIST CDL..... National Clandestine Laboratory Register

#### **Local Land Records**

LIENS 2..... CERCLA Lien Information  
CA LIENS..... Environmental Liens Listing

#### **Records of Emergency Release Reports**

HMIRS..... Hazardous Materials Information Reporting System

## EXECUTIVE SUMMARY

CA LDS..... Land Disposal Sites Listing  
CA MCS..... Military Cleanup Sites Listing  
CA SPILLS 90..... SPILLS 90 data from FirstSearch

### ***Other Ascertainable Records***

DOT OPS..... Incident and Accident Data  
DOD..... Department of Defense Sites  
FUDS..... Formerly Used Defense Sites  
CONSENT..... Superfund (CERCLA) Consent Decrees  
UMTRA..... Uranium Mill Tailings Sites  
US MINES..... Mines Master Index File  
TSCA..... Toxic Substances Control Act  
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing  
SSTS..... Section 7 Tracking Systems  
ICIS..... Integrated Compliance Information System  
PADS..... PCB Activity Database System  
MLTS..... Material Licensing Tracking System  
RADINFO..... Radiation Information Database  
RAATS..... RCRA Administrative Action Tracking System  
RMP..... Risk Management Plans  
CA BOND EXP. PLAN..... Bond Expenditure Plan  
CA UIC..... UIC Listing  
CA SAN JOSE HAZMAT..... Hazardous Material Facilities  
CA CUPA Listings..... CUPA Resources List  
CA Notify 65..... Proposition 65 Records  
CA WIP..... Well Investigation Program Case List  
INDIAN RESERV..... Indian Reservations  
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
CA PROC..... Certified Processors Database  
CA MWMP..... Medical Waste Management Program Listing  
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List  
US FIN ASSUR..... Financial Assurance Information  
US AIRS..... Aerometric Information Retrieval System Facility Subsystem  
EPA WATCH LIST..... EPA WATCH LIST  
2020 COR ACTION..... 2020 Corrective Action Program List  
LEAD SMELTERS..... Lead Smelter Sites  
PCB TRANSFORMER..... PCB Transformer Registration Database  
COAL ASH DOE..... Steam-Electric Plant Operation Data

### **EDR HIGH RISK HISTORICAL RECORDS**

#### ***EDR Exclusive Records***

EDR MGP..... EDR Proprietary Manufactured Gas Plants  
EDR US Hist Auto Stat..... EDR Exclusive Historic Gas Stations  
EDR US Hist Cleaners..... EDR Exclusive Historic Dry Cleaners

### **EDR RECOVERED GOVERNMENT ARCHIVES**

#### ***Exclusive Recovered Govt. Archives***

CA RGA LF..... Recovered Government Archive Solid Waste Facilities List

# EXECUTIVE SUMMARY

CA RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

## SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 10/25/2013 has revealed that there are 2 NPL sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>APPLIED MATERIALS, INC. - BOWE</i></b>	<b><i>3050 BOWERS AVENUE</i></b>	<b><i>SW 1/2 - 1 (0.971 mi.)</i></b>	<b><i>0</i></b>	<b><i>25</i></b>
<b><i>SYNERTEK, INC. (BUILDING 1)</i></b>	<b><i>3050 CORONADO BLVD</i></b>	<b><i>SSW 1/2 - 1 (0.695 mi.)</i></b>	<b><i>0</i></b>	<b><i>46</i></b>

### ***Federal CERCLIS list***

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>AT&amp;T MOBILITY</i></b>	<b><i>2201 LAURELWOOD RD</i></b>	<b><i>SSE 1/4 - 1/2 (0.384 mi.)</i></b>	<b><i>F43</i></b>	<b><i>185</i></b>

## EXECUTIVE SUMMARY

### ***Federal CERCLIS NFRAP site List***

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 10/25/2013 has revealed that there are 3 CERC-NFRAP sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>EG AND G IC SENSORS</i>	<i>2175 MISSION COLLEGE BL</i>	<i>ESE 1/8 - 1/4 (0.203 mi.)</i>	<i>D26</i>	<i>107</i>
<i>INTEL CORP-RNB</i>	<i>2200 MISSION COLLEGE BL</i>	<i>SSE 1/4 - 1/2 (0.373 mi.)</i>	<i>E38</i>	<i>154</i>
PAUL MONROE HYDRAULICS	3701 THOMAS RD	ESE 1/4 - 1/2 (0.423 mi.)	H47	209

### ***Federal RCRA CORRACTS facilities list***

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 06/10/2014 has revealed that there are 3 CORRACTS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>TELEDYNE WIRELESS INC</i>	<i>3251 OLCOTT ST</i>	<i>S 1/2 - 1 (0.615 mi.)</i>	<i>J55</i>	<i>235</i>
<i>FABRICATED CIRCUITS INC</i>	<i>1196 NORMAN AVE</i>	<i>ESE 1/2 - 1 (0.734 mi.)</i>	<i>K63</i>	<i>274</i>
<i>HORIBA/STEC INC</i>	<i>3265 SCOTT BLVD</i>	<i>SSW 1/2 - 1 (0.741 mi.)</i>	<i>L65</i>	<i>282</i>

### ***Federal RCRA generators list***

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 06/10/2014 has revealed that there are 2 RCRA-LQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PERKINELMER HOLDINGS, INC	2175 MISSION COLLEGE BO	ESE 1/8 - 1/4 (0.203 mi.)	D24	100
<i>INTERNAP NETWORK SERVICES</i>	<i>2151 MISSION COLLEGE BL</i>	<i>ESE 1/8 - 1/4 (0.222 mi.)</i>	<i>D32</i>	<i>127</i>

## EXECUTIVE SUMMARY

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/10/2014 has revealed that there are 6 RCRA-SQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>EG AND G IC SENSORS</i>	<i>2175 MISSION COLLEGE BL</i>	<i>ESE 1/8 - 1/4 (0.203 mi.)</i>	<i>D26</i>	<i>107</i>
<i>DATA DOMAIN LLC</i>	<i>2421 MISSION COLLEGE BL</i>	<i>W 1/8 - 1/4 (0.222 mi.)</i>	<i>31</i>	<i>123</i>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>PARAMOUNTS GREAT AMERICA</i>	<i>2401 AGNEW RD</i>	<i>NNW 1/8 - 1/4 (0.142 mi.)</i>	<i>C18</i>	<i>72</i>
<i>JOHN SHAWN PRODUCTION INC</i>	<i>2401 AGNEW RD FRON</i>	<i>NNW 1/8 - 1/4 (0.142 mi.)</i>	<i>C19</i>	<i>80</i>
<i>MEMORY DISC MANUFACTURING CO</i>	<i>4255 BURTON DR</i>	<i>E 1/8 - 1/4 (0.204 mi.)</i>	<i>29</i>	<i>120</i>
<i>BRION TECHNOLOGIES</i>	<i>4211 BURTON DR</i>	<i>ENE 1/8 - 1/4 (0.204 mi.)</i>	<i>30</i>	<i>122</i>

### **State- and tribal - equivalent NPL**

CA RESPONSE: Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

A review of the CA RESPONSE list, as provided by EDR, and dated 06/05/2014 has revealed that there are 2 CA RESPONSE sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>PITTSBURGH-DES MOINES</i>	<i>3500 BASSETT ST</i>	<i>ESE 1/2 - 1 (0.930 mi.)</i>	<i>M82</i>	<i>334</i>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>AGNEWS STATE HOSPITAL</i>	<i>AVENUE A AND LICK ROAD</i>	<i>NE 1/2 - 1 (0.861 mi.)</i>	<i>74</i>	<i>308</i>

### **State- and tribal - equivalent CERCLIS**

CA ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the CA ENVIROSTOR list, as provided by EDR, and dated 06/05/2014 has revealed that there are 38 CA ENVIROSTOR sites within approximately 1 mile of the target property.

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
INTEL CORP. #D2 - SANTA CLARA Status: Inactive - Needs Evaluation	2200 MISSION COLLEGE BO	ESE 1/8 - 1/4 (0.170 mi.)	23	99
EG&G AMORPHOUS SILICON Status: Inactive - Needs Evaluation	2175 MISSION COLLEGE BO	ESE 1/8 - 1/4 (0.203 mi.)	D25	106
<b>INTEL FREEDOM CIRCLE</b> Status: Certified / Operation & Maintenance	<b>3935 FREEDOM CIR</b>	<b>SW 1/4 - 1/2 (0.302 mi.)</b>	<b>34</b>	<b>129</b>
<b>INTEL CORP, JULIETTE LANE</b> Status: Refer: RWQCB	<b>3601 JULIETTE</b>	<b>SSE 1/4 - 1/2 (0.373 mi.)</b>	<b>E37</b>	<b>143</b>
<b>SILICONIX INC.</b> Status: Refer: RWQCB Status: Inactive - Needs Evaluation	<b>2201 LAURELWOOD</b>	<b>SSE 1/4 - 1/2 (0.384 mi.)</b>	<b>F42</b>	<b>177</b>
<b>PAUL MUNROE HYDRAULICS</b> Status: Refer: RWQCB	<b>3701 THOMAS RD</b>	<b>ESE 1/4 - 1/2 (0.423 mi.)</b>	<b>H46</b>	<b>197</b>
<b>FORMER PYCON INC. FACILITY</b> Status: Refer: Local Agency	<b>3501 LEONARD COURT</b>	<b>SE 1/2 - 1 (0.615 mi.)</b>	<b>I54</b>	<b>232</b>
<b>FILTRONIC SOLID STATE (FSS), S</b> Status: Inactive - Needs Evaluation	<b>3251 OLCOTT STREET</b>	<b>S 1/2 - 1 (0.615 mi.)</b>	<b>J56</b>	<b>253</b>
<b>EQUITY OFFICE PROPERTIES INC</b> Status: Active	<b>2620 AUGUSTINE DR</b>	<b>SW 1/2 - 1 (0.617 mi.)</b>	<b>57</b>	<b>255</b>
ALPHA METALS, INC.. LEONARD CT Status: Inactive - Needs Evaluation	3401 LEONARD CT	SE 1/2 - 1 (0.636 mi.)	I58	259
<b>SANTA CLARA TECHNOLOGY CAMPUS</b> Status: Active	<b>2685 AUGUSTINE DRIVE</b>	<b>SW 1/2 - 1 (0.689 mi.)</b>	<b>59</b>	<b>260</b>
L & P MACHINE, INC. Status: Inactive - Needs Evaluation	1340 NORMAN AVENUE	ESE 1/2 - 1 (0.689 mi.)	60	266
<b>KAWATEC</b> Status: Refer: RWQCB	<b>3030/3040 OLCOTT ST</b>	<b>S 1/2 - 1 (0.692 mi.)</b>	<b>61</b>	<b>267</b>
<b>3100 JAY STREET, VARIAN</b> Status: Refer: RWQCB	<b>3100 JAY</b>	<b>SSE 1/2 - 1 (0.711 mi.)</b>	<b>62</b>	<b>269</b>
<b>FABRICATED CIRCUITS INC.</b> Status: Refer: RWQCB	<b>1196 NORMAN AVENUE</b>	<b>ESE 1/2 - 1 (0.738 mi.)</b>	<b>K64</b>	<b>280</b>
<b>ZETA LABORATORIES INC</b> Status: No Further Action	<b>3265 SCOTT BLVD</b>	<b>SSW 1/2 - 1 (0.741 mi.)</b>	<b>L66</b>	<b>285</b>
<b>APPLIED KOMATSU TECHNOLOGY</b> Status: Refer: RWQCB	<b>3101 SCOTT BOULEVARD</b>	<b>SSE 1/2 - 1 (0.787 mi.)</b>	<b>67</b>	<b>287</b>
<b>MICREL-SYNERGY SEMICONDUCTOR</b> Status: Inactive - Needs Evaluation	<b>3250 SCOTT BLVD</b>	<b>SSW 1/2 - 1 (0.789 mi.)</b>	<b>68</b>	<b>289</b>
UNISIL CORP. Status: Inactive - Needs Evaluation	3030/3040 OLCOTT STREET	S 1/2 - 1 (0.823 mi.)	70	297
APPLIED MATERIALS, INC., CORON Status: Inactive - Needs Evaluation	3111 CORONADO DRIVE #15	SSW 1/2 - 1 (0.838 mi.)	72	302
<b>LSI LOGIC CORPORATION</b> Status: No Further Action	<b>3115 ALFRED STREET</b>	<b>SSE 1/2 - 1 (0.860 mi.)</b>	<b>73</b>	<b>303</b>
<b>AIRCO SPECIAL GASES</b> Status: Inactive - Needs Evaluation	<b>3025 STENDER WAY</b>	<b>SSW 1/2 - 1 (0.867 mi.)</b>	<b>75</b>	<b>313</b>
<b>HONEYWELL, INC</b> Status: Refer: RWQCB	<b>3001 STENDER WAY</b>	<b>SSW 1/2 - 1 (0.890 mi.)</b>	<b>76</b>	<b>314</b>

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TYCO PRINTED CIRCUIT GRP. - SA Status: Inactive - Needs Evaluation	3510 BASSETT STREET	ESE 1/2 - 1 (0.900 mi.)	77	318
ADVANCE CIRCUIT SERVICES Status: Inactive - Needs Evaluation	3150 CORONADO DRIVE #C	SSW 1/2 - 1 (0.906 mi.)	78	319
<b>3050 CORONADO, SYNERTEK B-1</b> Status: Refer: RWQCB	<b>3050 CORONADO</b>	<b>SSW 1/2 - 1 (0.912 mi.)</b>	<b>79</b>	<b>320</b>
FAIRCHILD/MICROPOWER Status: Refer: RWQCB	3080/3100 ALFRED STREET	SSE 1/2 - 1 (0.915 mi.)	80	332
CHIP EXPRESS CORP. Status: Inactive - Needs Evaluation	2323 OWEN STREET	S 1/2 - 1 (0.917 mi.)	81	333
<b>PITTSBURGH-DES MOINES</b> Status: Certified	<b>3500 BASSETT ST</b>	<b>ESE 1/2 - 1 (0.930 mi.)</b>	<b>M82</b>	<b>334</b>
<b>HEWLETT PACKARD (AVANTEK)</b> Status: Refer: RWQCB Status: Refer: Other Agency	<b>3175 BOWERS AVE</b>	<b>SW 1/2 - 1 (0.982 mi.)</b>	<b>85</b>	<b>345</b>
<b>MPI-3333 SCOTT BLVD</b> Status: Refer: RWQCB	<b>3333 SCOTT</b>	<b>WSW 1/2 - 1 (0.992 mi.)</b>	<b>86</b>	<b>364</b>
<b>EXCELICS SEMICONDUCTOR INC</b> Status: Inactive - Needs Evaluation	<b>2908 SCOTT BOULEVARD</b>	<b>SSE 1/2 - 1 (0.997 mi.)</b>	<b>87</b>	<b>378</b>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>SIX SIGMA</b> Status: Inactive - Needs Evaluation	<b>1500 WYATT DR STE 4 AND</b>	<b>E 1/2 - 1 (0.570 mi.)</b>	<b>52</b>	<b>223</b>
<b>AGNEWS STATE HOSPITAL - DGS</b> Status: Certified	<b>AGNEW ROAD &amp; LAFAYETTE NE 1/2 - 1 (0.579 mi.)</b>		<b>53</b>	<b>226</b>
<b>GIANERA 2 - HABITAT FOR HUMANI</b> Status: Certified	<b>2261 - 2285 GIANERA STR</b>	<b>N 1/2 - 1 (0.813 mi.)</b>	<b>69</b>	<b>292</b>
<b>HOGAN DRIVE PROPERTY</b> Status: No Further Action	<b>HOGAN DRIVE AND LAFAYETNNE 1/2 - 1 (0.838 mi.)</b>		<b>71</b>	<b>298</b>
<b>AGNEWS STATE HOSPITAL</b> Status: Certified	<b>AVENUE A AND LICK ROAD</b>	<b>NE 1/2 - 1 (0.861 mi.)</b>	<b>74</b>	<b>308</b>
<b>CELTRIX PHARMACEUTICALS INC</b> Status: Inactive - Needs Evaluation	<b>3055 PATRICK HENRY DR</b>	<b>WNW 1/2 - 1 (0.955 mi.)</b>	<b>84</b>	<b>340</b>

### **State and tribal leaking storage tank lists**

CA LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the CA LUST list, as provided by EDR, and dated 07/30/2014 has revealed that there are 11 CA LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>INTEL CORP, JULIETTE LANE</b> Status: Completed - Case Closed	<b>3601 JULIETTE</b>	<b>SSE 1/4 - 1/2 (0.373 mi.)</b>	<b>E37</b>	<b>143</b>

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
INTEL D2 ENERGY CENTER Status: Completed - Case Closed	3600 JULIETTE LN	SSE 1/4 - 1/2 (0.373 mi.)	E39	162
<b>INTEL D2 ENERGY CENTER</b>	<b>3600 JULIETTE LN</b>	<b>SSE 1/4 - 1/2 (0.373 mi.)</b>	<b>E40</b>	<b>163</b>
<b>EXXON #7-3624</b>	<b>2181 LAURELWOOD RD</b>	<b>SSE 1/4 - 1/2 (0.413 mi.)</b>	<b>G44</b>	<b>193</b>
<b>EXXON #7-3624</b> Status: Completed - Case Closed	<b>2181 LAURELWOOD RD</b>	<b>SSE 1/4 - 1/2 (0.413 mi.)</b>	<b>G45</b>	<b>194</b>
<b>PAUL MUNROE HYDRAULICS</b> Status: Completed - Case Closed	<b>3701 THOMAS RD</b>	<b>ESE 1/4 - 1/2 (0.423 mi.)</b>	<b>H46</b>	<b>197</b>
<b>SAFEWAY STEEL</b> Status: Completed - Case Closed	<b>3601 THOMAS RD</b>	<b>SE 1/4 - 1/2 (0.475 mi.)</b>	<b>49</b>	<b>210</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>FIRE STATION #8</b>	<b>2400 AGNEW RD</b>	<b>NNW 1/8 - 1/4 (0.140 mi.)</b>	<b>C11</b>	<b>65</b>
<b>FIRE STATION #8</b> Status: Completed - Case Closed	<b>2400 AGNEW RD</b>	<b>NNW 1/8 - 1/4 (0.140 mi.)</b>	<b>C13</b>	<b>67</b>
<b>GREAT AMERICA - GREAT AMERICA</b> Status: Completed - Case Closed Status: Open - Eligible for Closure Status: Open - Site Assessment	<b>2401 AGNEW ROAD</b>	<b>NNW 1/8 - 1/4 (0.142 mi.)</b>	<b>C20</b>	<b>83</b>
<b>CULLIGAN INDUSTRIAL WATER</b> Status: Completed - Case Closed	<b>1785 RUSSELL</b>	<b>ESE 1/4 - 1/2 (0.496 mi.)</b>	<b>50</b>	<b>213</b>

CA SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the CA SLIC list, as provided by EDR, and dated 07/30/2014 has revealed that there are 5 CA SLIC sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
INTEL FAB - 1 SITE <b>INTEL CORP, JULIETTE LANE</b> Facility Status: Completed - Case Closed	3601 JULIETTE LANE <b>3601 JULIETTE</b>	SSE 1/4 - 1/2 (0.373 mi.) <b>SSE 1/4 - 1/2 (0.373 mi.)</b>	E36 <b>E37</b>	143 <b>143</b>
<b>SILICONIX INCORPORATED</b>	<b>2201 LAURELWOOD ROAD</b>	<b>SSE 1/4 - 1/2 (0.384 mi.)</b>	<b>F41</b>	<b>164</b>
<b>SILICONIX INC.</b> Facility Status: Open - Remediation	<b>2201 LAURELWOOD</b>	<b>SSE 1/4 - 1/2 (0.384 mi.)</b>	<b>F42</b>	<b>177</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>GREAT AMERICA - GREAT AMERICA</b> Facility Status: Open - Site Assessment	<b>2401 AGNEW ROAD</b>	<b>NNW 1/8 - 1/4 (0.142 mi.)</b>	<b>C20</b>	<b>83</b>

CA HIST LUST: A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

A review of the CA HIST LUST list, as provided by EDR, and dated 03/29/2005 has revealed that there

## EXECUTIVE SUMMARY

are 8 CA HIST LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
INTEL CORPORATION	3601 JULIETTE LN	SSE 1/4 - 1/2 (0.373 mi.)	E35	142
<b>INTEL D2 ENERGY CENTER</b>	<b>3600 JULIETTE LN</b>	<b>SSE 1/4 - 1/2 (0.373 mi.)</b>	<b>E40</b>	<b>163</b>
<b>EXXON #7-3624</b>	<b>2181 LAURELWOOD RD</b>	<b>SSE 1/4 - 1/2 (0.413 mi.)</b>	<b>G44</b>	<b>193</b>
PAUL-MUNROE HYDRAULICS	3701 THOMAS RD	ESE 1/4 - 1/2 (0.423 mi.)	H48	209
<b>SAFWAY STEEL</b>	<b>3601 THOMAS RD</b>	<b>SE 1/4 - 1/2 (0.475 mi.)</b>	<b>49</b>	<b>210</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>FIRE STATION #8</b>	<b>2400 AGNEW RD</b>	<b>NNW 1/8 - 1/4 (0.140 mi.)</b>	<b>C11</b>	<b>65</b>
<b>GREAT AMERICA - GREAT AMERICA</b>	<b>2401 AGNEW ROAD</b>	<b>NNW 1/8 - 1/4 (0.142 mi.)</b>	<b>C20</b>	<b>83</b>
<b>CULLIGAN INDUSTRIAL WATER</b>	<b>1785 RUSSELL</b>	<b>ESE 1/4 - 1/2 (0.496 mi.)</b>	<b>50</b>	<b>213</b>

### **State and tribal registered storage tank lists**

CA UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the CA UST list, as provided by EDR, and dated 07/30/2014 has revealed that there are 4 CA UST sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GREAT AMERICA THEME PARK	2401 AGNEW ROAD 886	NNW 1/8 - 1/4 (0.142 mi.)	C14	68
GREAT AMERICA THEME PARK	2401 AGNEW ROAD 881	NNW 1/8 - 1/4 (0.142 mi.)	C17	72
GREAT AMERICA THEME PARK	2401 AGNEW ROAD 526	NNW 1/8 - 1/4 (0.142 mi.)	C21	99
GREAT AMERICA THEME PARK	2401 AGNEW ROAD 887	NNW 1/8 - 1/4 (0.142 mi.)	C22	99

CA AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the CA AST list, as provided by EDR, and dated 08/01/2009 has revealed that there are 2 CA AST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MISSION INVESTORS, LLC (SHELL)	2350 MISSION COLLEGE BL	SE 0 - 1/8 (0.047 mi.)	B8	62
INTEL CORPORATION	2150 MISSION COLLEGE BL	ESE 1/8 - 1/4 (0.224 mi.)	D33	129

### **State and tribal voluntary cleanup sites**

CA VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the CA VCP list, as provided by EDR, and dated 06/05/2014 has revealed that there is 1 CA VCP site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>INTEL FREEDOM CIRCLE</b>	<b>3935 FREEDOM CIR</b>	<b>SW 1/4 - 1/2 (0.302 mi.)</b>	<b>34</b>	<b>129</b>

## EXECUTIVE SUMMARY

### ADDITIONAL ENVIRONMENTAL RECORDS

#### **Local Lists of Hazardous waste / Contaminated Sites**

CA HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the CA HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there are 3 CA HIST Cal-Sites sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>3050 CORONADO, SYNERTEK B-1</b> PITTSBURGH-DES MOINES	<b>3050 CORONADO</b> 3500 BASSETT ST	<b>SSW 1/2 - 1 (0.912 mi.)</b> ESE 1/2 - 1 (0.930 mi.)	<b>79</b> M83	<b>320</b> 337
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>AGNEWS STATE HOSPITAL</b>	<b>AVENUE A AND LICK ROAD</b>	<b>NE 1/2 - 1 (0.861 mi.)</b>	<b>74</b>	<b>308</b>

#### **Local Lists of Registered Storage Tanks**

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there is 1 CA FID UST site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>FIRE DEPARTMENT, STATION #8</b>	<b>2400 AGNEW ROAD</b>	<b>NNW 1/8 - 1/4 (0.140 mi.)</b>	<b>C10</b>	<b>65</b>

CA HIST UST: Historical UST Registered Database.

A review of the CA HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 3 CA HIST UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>ADVANCED MICRO DEVICES INC</b>	<b>2175 MISSION COLLEGE BL</b>	<b>ESE 1/8 - 1/4 (0.203 mi.)</b>	<b>D28</b>	<b>110</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>FIRE STATION #8</b> MARRIOTT'S GREAT AMERICA	<b>2400 AGNEW RD</b> 2401 AGNEW RD	<b>NNW 1/8 - 1/4 (0.140 mi.)</b> NNW 1/8 - 1/4 (0.142 mi.)	<b>C11</b> C15	<b>65</b> 69

## EXECUTIVE SUMMARY

CA SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the CA SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 6 CA SWEEPS UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>2350 MISSION INVESTORS LLC</b>	<b>2350 MISSION COLLEGE BL</b>	<b>SE 0 - 1/8 (0.047 mi.)</b>	<b>B9</b>	<b>63</b>
ADVANCED MICRO DEVICES	2175 MISSION COLLEGE B	ESE 1/8 - 1/4 (0.203 mi.)	D27	110
<b>ADVANCED MICRO DEVICES INC</b>	<b>2175 MISSION COLLEGE BL</b>	<b>ESE 1/8 - 1/4 (0.203 mi.)</b>	<b>D28</b>	<b>110</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FIRE DEPARTMENT, STATION #8	2400 AGNEW ROAD	NNW 1/8 - 1/4 (0.140 mi.)	C12	66
PARAMOUNT'S GREAT AMERICA	2401 AGNEW ROAD	NNW 1/8 - 1/4 (0.142 mi.)	C16	70
<b>PARAMOUNTS GREAT AMERICA</b>	<b>2401 AGNEW RD</b>	<b>NNW 1/8 - 1/4 (0.142 mi.)</b>	<b>C18</b>	<b>72</b>

### Local Land Records

CA DEED: The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes .

A review of the CA DEED list, as provided by EDR, and dated 06/09/2014 has revealed that there are 2 CA DEED sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>INTEL FREEDOM CIRCLE</b>	<b>3935 FREEDOM CIR</b>	<b>SW 1/4 - 1/2 (0.302 mi.)</b>	<b>34</b>	<b>129</b>
<b>INTEL CORP, JULIETTE LANE</b>	<b>3601 JULIETTE</b>	<b>SSE 1/4 - 1/2 (0.373 mi.)</b>	<b>E37</b>	<b>143</b>

### Other Ascertainable Records

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 11/25/2013 has revealed that there are 2 ROD sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>APPLIED MATERIALS, INC. - BOWE</b>	<b>3050 BOWERS AVENUE</b>	<b>SW 1/2 - 1 (0.971 mi.)</b>	<b>0</b>	<b>25</b>
<b>SYNERTEK, INC. (BUILDING 1)</b>	<b>3050 CORONADO BLVD</b>	<b>SSW 1/2 - 1 (0.695 mi.)</b>	<b>0</b>	<b>46</b>

CA Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the CA Cortese list, as provided by EDR, and dated 06/30/2014 has revealed that there are 2 CA Cortese sites within approximately 0.5 miles of the target property.

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>INTEL CORP, JULIETTE LANE</i>	<i>3601 JULIETTE</i>	<i>SSE 1/4 - 1/2 (0.373 mi.)</i>	<i>E37</i>	<i>143</i>
<i>SILICONIX INCORPORATED</i>	<i>2201 LAURELWOOD ROAD</i>	<i>SSE 1/4 - 1/2 (0.384 mi.)</i>	<i>F41</i>	<i>164</i>

CA HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSTATES]. This listing is no longer updated by the state agency.

A review of the CA HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 8 CA HIST CORTESE sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>INTEL CORP, JULIETTE LANE</i>	<i>3601 JULIETTE</i>	<i>SSE 1/4 - 1/2 (0.373 mi.)</i>	<i>E37</i>	<i>143</i>
<i>SILICONIX INC.</i>	<i>2201 LAURELWOOD</i>	<i>SSE 1/4 - 1/2 (0.384 mi.)</i>	<i>F42</i>	<i>177</i>
<i>EXXON #7-3624</i>	<i>2181 LAURELWOOD RD</i>	<i>SSE 1/4 - 1/2 (0.413 mi.)</i>	<i>G45</i>	<i>194</i>
<i>PAUL MUNROE HYDRAULICS</i>	<i>3701 THOMAS RD</i>	<i>ESE 1/4 - 1/2 (0.423 mi.)</i>	<i>H46</i>	<i>197</i>
<i>SAFeway STEEL</i>	<i>3601 THOMAS RD</i>	<i>SE 1/4 - 1/2 (0.475 mi.)</i>	<i>49</i>	<i>210</i>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>FIRE STATION #8</i>	<i>2400 AGNEW RD</i>	<i>NNW 1/8 - 1/4 (0.140 mi.)</i>	<i>C13</i>	<i>67</i>
<i>GREAT AMERICA - GREAT AMERICA</i>	<i>2401 AGNEW ROAD</i>	<i>NNW 1/8 - 1/4 (0.142 mi.)</i>	<i>C20</i>	<i>83</i>
<i>CULLIGAN INDUSTRIAL WATER</i>	<i>1785 RUSSELL</i>	<i>ESE 1/4 - 1/2 (0.496 mi.)</i>	<i>50</i>	<i>213</i>

CA HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the CA HWP list, as provided by EDR, and dated 05/27/2014 has revealed that there are 5 CA HWP sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>J &amp; B ENTERPRISES</i>	<i>1650 RUSSELL AVE.</i>	<i>ESE 1/2 - 1 (0.509 mi.)</i>	<i>51</i>	<i>216</i>
<i>TELEDYNE WIRELESS INC</i>	<i>3251 OLCOTT ST</i>	<i>S 1/2 - 1 (0.615 mi.)</i>	<i>J55</i>	<i>235</i>
<i>3100 JAY STREET, VARIAN</i>	<i>3100 JAY</i>	<i>SSE 1/2 - 1 (0.711 mi.)</i>	<i>62</i>	<i>269</i>
<i>FABRICATED CIRCUITS INC.</i>	<i>1196 NORMAN AVENUE</i>	<i>ESE 1/2 - 1 (0.738 mi.)</i>	<i>K64</i>	<i>280</i>
<i>ZETA LABORATORIES INC</i>	<i>3265 SCOTT BLVD</i>	<i>SSW 1/2 - 1 (0.741 mi.)</i>	<i>L66</i>	<i>285</i>

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

Site Name

GENERAL ELECTRIC  
GENERAL ELECTRIC CALMA SITE  
AGNEWS DEVELOPMENTAL CENTER 1  
FRONTIER INFINITI

Database(s)

CA RGA LUST  
CA RGA LUST  
CA LUST  
CA LUST

# OVERVIEW MAP - 4070509.2S



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

▲ Manufactured Gas Plants

■ National Priority List Sites

■ Dept. Defense Sites

■ Indian Reservations BIA

▲ Oil & Gas pipelines from USGS

■ 100-year flood zone

■ 500-year flood zone

■ National Wetland Inventory

■ Areas of Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: General Dynamics  
 ADDRESS: 2305 Mission College Boulevard  
 Santa Clara CA 95054  
 LAT/LONG: 37.3893 / 121.9665

CLIENT: WSP Environmental & Energy  
 CONTACT: Betsy Mitton  
 INQUIRY #: 4070509.2s  
 DATE: September 19, 2014 11:11 am



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	2	NR	2
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
CERCLIS	0.500		0	0	1	NR	NR	1
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site List</i></b>								
CERC-NFRAP	0.500		0	1	2	NR	NR	3
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	3	NR	3
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	2	NR	NR	NR	2
RCRA-SQG	0.250	1	0	6	NR	NR	NR	7
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent NPL</i></b>								
CA RESPONSE	1.000		0	0	0	2	NR	2
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
CA ENVIROSTOR	1.000		0	2	4	32	NR	38
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
CA SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
CA LUST	0.500		0	3	8	NR	NR	11

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA SLIC	0.500	1	0	1	4	NR	NR	6
CA HIST LUST	0.500		0	2	6	NR	NR	8
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b>State and tribal registered storage tank lists</b>								
CA UST	0.250		0	4	NR	NR	NR	4
CA AST	0.250		1	1	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
CA VCP	0.500		0	0	1	NR	NR	1
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
CA SWRCY	0.500		0	0	0	NR	NR	0
CA HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
CA WMUDS/SWAT	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US CDL	TP		NR	NR	NR	NR	NR	0
CA HIST Cal-Sites	1.000		0	0	0	3	NR	3
CA SCH	0.250		0	0	NR	NR	NR	0
CA Toxic Pits	1.000		0	0	0	0	NR	0
CA CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
<b>Local Lists of Registered Storage Tanks</b>								
CA FID UST	0.250		0	1	NR	NR	NR	1
CA HIST UST	0.250		0	3	NR	NR	NR	3
CA SWEEPS UST	0.250		1	5	NR	NR	NR	6
<b>Local Land Records</b>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
CA LIENS	TP		NR	NR	NR	NR	NR	0
CA DEED	0.500		0	0	2	NR	NR	2
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
CA CHMIRS	TP		NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA LDS	TP		NR	NR	NR	NR	NR	0
CA MCS	TP		NR	NR	NR	NR	NR	0
CA SPILLS 90	TP		NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	2	NR	2
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP	3	NR	NR	NR	NR	NR	3
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CA UIC	TP		NR	NR	NR	NR	NR	0
CA NPDES	TP		NR	NR	NR	NR	NR	0
CA Cortese	0.500		0	0	2	NR	NR	2
CA HIST CORTESE	0.500		0	2	6	NR	NR	8
CA SAN JOSE HAZMAT	0.250		0	0	NR	NR	NR	0
CA CUPA Listings	0.250		0	0	NR	NR	NR	0
RI MANIFEST	0.250		0	0	NR	NR	NR	0
NY MANIFEST	0.250		0	0	NR	NR	NR	0
CA Notify 65	1.000		0	0	0	0	NR	0
CA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CA WIP	0.250		0	0	NR	NR	NR	0
CA ENF	TP	1	NR	NR	NR	NR	NR	1
CA HAZNET	TP	4	NR	NR	NR	NR	NR	4
CA EMI	TP	1	NR	NR	NR	NR	NR	1
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
CA PROC	0.500		0	0	0	NR	NR	0
CA HWT	0.250		0	0	NR	NR	NR	0
CA HWP	1.000		0	0	0	5	NR	5
CA Financial Assurance	TP		NR	NR	NR	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
CA MWMP	0.250		0	0	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PRP	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		0	0	NR	NR	NR	0
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

CA RGA LF	TP		NR	NR	NR	NR	NR	0
CA RGA LUST	TP		NR	NR	NR	NR	NR	0

#### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A1**  
**Target**  
**Property**

**GRAEBEL VAN LINES**  
**2305 MISSION COLLEGE BLVD.**  
**SANTA CLARA, CA 95050**

**CA HAZNET** **S112878187**  
**N/A**

**Site 1 of 7 in cluster A**

**Actual:**  
**27 ft.**

HAZNET:  
Year: 1996  
Gepaid: CAC001254392  
Contact: GRAEBEL VAN LINES  
Telephone: 0000000000  
Mailing Name: Not reported  
Mailing Address: 401 S AIRPORT BLVD  
Mailing City,St,Zip: AURORA, CO 800170000  
Gen County: Not reported  
TSD EPA ID: CAD980887418  
TSD County: Not reported  
Waste Category: Unspecified oil-containing waste  
Disposal Method: Recycler  
Tons: 1.2510  
Facility County: Santa Clara

**A2**  
**Target**  
**Property**

**GENERAL DYNAMICS A I S**  
**2305 MISSION COLLEGE BLVD**  
**SANTA CLARA, CA 95054**

**CA HAZNET** **S113140295**  
**N/A**

**Site 2 of 7 in cluster A**

**Actual:**  
**27 ft.**

HAZNET:  
Year: 2011  
Gepaid: CAL000301461  
Contact: TERRY DUFFINA  
Telephone: 6509663317  
Mailing Name: Not reported  
Mailing Address: 2305 MISSION COLLEGE BLVD STE101 M/  
Mailing City,St,Zip: SANTA CLARA, CA 950540000  
Gen County: Not reported  
TSD EPA ID: CAD980887418  
TSD County: Not reported  
Waste Category: Waste oil and mixed oil  
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration,  
Organics Recovery Ect  
Tons: 0.059  
Facility County: Santa Clara

Year: 2011  
Gepaid: CAL000301461  
Contact: TERRY DUFFINA  
Telephone: 6509663317  
Mailing Name: Not reported  
Mailing Address: 2305 MISSION COLLEGE BLVD STE101 M/  
Mailing City,St,Zip: SANTA CLARA, CA 950540000  
Gen County: Not reported  
TSD EPA ID: CAD980887418  
TSD County: Not reported  
Waste Category: Waste oil and mixed oil  
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration,  
Organics Recovery Ect  
Tons: 0.059  
Facility County: Santa Clara

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL DYNAMICS A I S (Continued)**

**S113140295**

Year: 2011  
Gepaid: CAL000301461  
Contact: TERRY DUFFINA  
Telephone: 6509663317  
Mailing Name: Not reported  
Mailing Address: 2305 MISSION COLLEGE BLVD STE101 M/  
Mailing City,St,Zip: SANTA CLARA, CA 950540000  
Gen County: Not reported  
TSD EPA ID: IND000646943  
TSD County: Not reported  
Waste Category: Other organic solids  
Disposal Method: Solvents Recovery  
Tons: 0.0035  
Facility County: Santa Clara

Year: 2011  
Gepaid: CAL000301461  
Contact: TERRY DUFFINA  
Telephone: 6509663317  
Mailing Name: Not reported  
Mailing Address: 2305 MISSION COLLEGE BLVD STE101 M/  
Mailing City,St,Zip: SANTA CLARA, CA 950540000  
Gen County: Not reported  
TSD EPA ID: IND000646943  
TSD County: Not reported  
Waste Category: Other organic solids  
Disposal Method: Solvents Recovery  
Tons: 0.0035  
Facility County: Santa Clara

Year: 2010  
Gepaid: CAL000301461  
Contact: Vince McGuire  
Telephone: 4803839474  
Mailing Name: Not reported  
Mailing Address: 112 LAKEVIEW CANYON DR BOX 5027  
Mailing City,St,Zip: THOUSAND OAKS, CA 913620000  
Gen County: Not reported  
TSD EPA ID: CAD980887418  
TSD County: Not reported  
Waste Category: Waste oil and mixed oil  
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration,  
Organics Recovery Ect  
Tons: 0.114  
Facility County: Santa Clara

[Click this hyperlink](#) while viewing on your computer to access  
16 additional CA\_HAZNET: record(s) in the EDR Site Report.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A3**            **NORTHERN TELECOM INC**  
**Target**       **2305 MISSION COLLEGE BLVD**  
**Property**     **SANTA CLARA, CA 95054**

**RCRA-SQG**    **1001075493**  
**FINDS**        **CAD094973195**  
**CA SLIC**  
**CA ENF**  
**CA EMI**

**Site 3 of 7 in cluster A**

**Actual:**  
**27 ft.**

**RCRA-SQG:**

Date form received by agency: 03/04/1999  
Facility name:            NORTEL NETWORKS  
Site name:                NORTEL TELECOM LTD  
Facility address:        2305 MISSION COLLEGE BLVD  
                                  SANTA CLARA, CA 950541521  
  
EPA ID:                    CAD094973195  
Contact:                  ALAIN RAYMOND  
Contact address:        Not reported  
                                  Not reported  
  
Contact country:        Not reported  
Contact telephone:     (408) 565-3461  
Contact email:           Not reported  
EPA Region:             09  
Classification:          Small Small Quantity Generator  
Description:              Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

**Historical Generators:**

Date form received by agency: 10/23/1998  
Site name:                NORTEL NETWORKS  
Classification:            Small Quantity Generator

Date form received by agency: 10/23/1998  
Site name:                NORTEL NETWORKS  
Classification:            Large Quantity Generator

Date form received by agency: 09/01/1996  
Site name:                NORTEL NETWORKS  
Classification:            Large Quantity Generator

Date form received by agency: 03/20/1994

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTHERN TELECOM INC (Continued)**

**1001075493**

Site name: NORTHERN TELECOM  
Classification: Large Quantity Generator

Date form received by agency: 02/21/1992  
Site name: NORTHERN TELECOM, INC.  
Classification: Large Quantity Generator

Violation Status: No violations found

**FINDS:**

Registry ID: 110009532327

**Environmental Interest/Information System**

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**SLIC:**

Region: STATE  
**Facility Status:** **Completed - Case Closed**  
Status Date: 06/25/2003  
Global Id: SL0608570619  
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
Lead Agency Case Number: Not reported  
Latitude: 37.388997  
Longitude: -121.965553  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 43S0994  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: \* Solvents  
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Region: STATE  
**Facility Status:** **Completed - Case Closed**  
Status Date: 10/24/2013  
Global Id: T10000005223  
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
Lead Agency Case Number: Not reported  
Latitude: 37.3895944  
Longitude: -121.9664536  
Case Type: Cleanup Program Site  
Case Worker: UUU

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTHERN TELECOM INC (Continued)**

**1001075493**

Local Agency: Not reported  
RB Case Number: 43S1168  
File Location: Not reported  
Potential Media Affected: Not reported  
Potential Contaminants of Concern: Diesel, Total Petroleum Hydrocarbons (TPH)  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

**SLIC REG 2:**

Region: 2  
Facility ID: 43S0994  
Facility Status: Case Closed  
Date Closed: Not reported  
Local Case #: Not reported  
How Discovered: Not reported  
Leak Cause: Not reported  
Leak Source: Not reported  
Date Confirmed: Not reported  
Date Prelim Site Assmnt Workplan Submitted: Not reported  
Date Preliminary Site Assessment Began: Not reported  
Date Pollution Characterization Began: Not reported  
Date Remediation Plan Submitted: Not reported  
Date Remedial Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

**ENF:**

Region: 2  
Facility Id: 245261  
Agency Name: Bay Networks  
Place Type: Facility  
Place Subtype: Not reported  
Facility Type: Industrial  
Agency Type: Other  
# Of Agencies: 1  
Place Latitude: Not reported  
Place Longitude: Not reported  
SIC Code 1: Not reported  
SIC Desc 1: Not reported  
SIC Code 2: Not reported  
SIC Desc 2: Not reported  
SIC Code 3: Not reported  
SIC Desc 3: Not reported  
NAICS Code 1: Not reported  
NAICS Desc 1: Not reported  
NAICS Code 2: Not reported  
NAICS Desc 2: Not reported  
NAICS Code 3: Not reported  
NAICS Desc 3: Not reported  
# Of Places: 1  
Source Of Facility: Reg Meas  
Design Flow: Not reported  
Threat To Water Quality: Not reported  
Complexity: Not reported  
Pretreatment: Not reported  
Facility Waste Type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTHERN TELECOM INC (Continued)**

**1001075493**

Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 43S0994
Reg Measure Id:	171894
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	248483
Region:	2
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	13267 Letter
Effective Date:	06/21/2002
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	Enforcement - 2 43S0994
Description:	Request for workplan to determine the extent of the groundwater contamination.
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTHERN TELECOM INC (Continued)**

**1001075493**

Total \$ Paid/Completed Amount:	0
Region:	2
Facility Id:	245261
Agency Name:	Bay Networks
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Other
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 43S0994
Reg Measure Id:	171894
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NORTHERN TELECOM INC (Continued)**

**1001075493**

WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	247293
Region:	2
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	13267 Letter
Effective Date:	09/18/2002
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	Enforcement - 2 43S0994
Description:	Letter to off-site property owner requiring them to grant site access to Nortel Networks
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	2
Facility Id:	245261
Agency Name:	Bay Networks
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Other
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTHERN TELECOM INC (Continued)**

**1001075493**

Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 43S0994
Reg Measure Id:	171894
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	246844
Region:	2
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	13267 Letter
Effective Date:	11/14/2002
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	Enforcement - 2 43S0994
Description:	13267 letter requesting an investigation workplan
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTHERN TELECOM INC (Continued)**

**1001075493**

Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	2
Facility Id:	245261
Agency Name:	Bay Networks
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Other
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 43S0994
Reg Measure Id:	171894
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTHERN TELECOM INC (Continued)**

**1001075493**

Expiration/Review Date: Not reported  
Termination Date: Not reported  
WDR Review - Amend: Not reported  
WDR Review - Revise/Renew: Not reported  
WDR Review - Rescind: Not reported  
WDR Review - No Action Required: Not reported  
WDR Review - Pending: Not reported  
WDR Review - Planned: Not reported  
Status Enrollee: N  
Individual/General: I  
Fee Code: Not reported  
Direction/Voice: Passive  
Enforcement Id(EID): 246420  
Region: 2  
Order / Resolution Number: UNKNOWN  
Enforcement Action Type: 13267 Letter  
Effective Date: 12/20/2002  
Adoption/Issuance Date: Not reported  
Achieve Date: Not reported  
Termination Date: Not reported  
ACL Issuance Date: Not reported  
EPL Issuance Date: Not reported  
Status: Active  
Title: Enforcement - 2 43S0994  
Description: Request for results of the site investigation  
Program: UNREGS  
Latest Milestone Completion Date: Not reported  
# Of Programs1: 1  
Total Assessment Amount: 0  
Initial Assessed Amount: 0  
Liability \$ Amount: 0  
Project \$ Amount: 0  
Liability \$ Paid: 0  
Project \$ Completed: 0  
Total \$ Paid/Completed Amount: 0

**EMI:**

Year: 1987  
County Code: 43  
Air Basin: SF  
Facility ID: 1726  
Air District Name: BA  
SIC Code: 3679  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 37  
Reactive Organic Gases Tons/Yr: 15  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0  
  
Year: 1990  
County Code: 43  
Air Basin: SF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTHERN TELECOM INC (Continued)**

**1001075493**

Facility ID: 1726  
Air District Name: BA  
SIC Code: 3671  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1995  
County Code: 43  
Air Basin: SF  
Facility ID: 1726  
Air District Name: BA  
SIC Code: 3679  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 3  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1996  
County Code: 43  
Air Basin: SF  
Facility ID: 1726  
Air District Name: BA  
SIC Code: 3679  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 3  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1997  
County Code: 43  
Air Basin: SF  
Facility ID: 1726  
Air District Name: BA  
SIC Code: 3679  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTHERN TELECOM INC (Continued)**

**1001075493**

Total Organic Hydrocarbon Gases Tons/Yr: 3  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1998  
County Code: 43  
Air Basin: SF  
Facility ID: 1726  
Air District Name: BA  
SIC Code: 3661  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2006  
County Code: 43  
Air Basin: SF  
Facility ID: 17406  
Air District Name: BA  
SIC Code: 3669  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: .006  
Reactive Organic Gases Tons/Yr: .0050202  
Carbon Monoxide Emissions Tons/Yr: .018  
NOX - Oxides of Nitrogen Tons/Yr: .082  
SOX - Oxides of Sulphur Tons/Yr: .001  
Particulate Matter Tons/Yr: .006  
Part. Matter 10 Micrometers & Smlr Tons/Yr: .005856

Year: 2007  
County Code: 43  
Air Basin: SF  
Facility ID: 17406  
Air District Name: BA  
SIC Code: 3669  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: .006  
Reactive Organic Gases Tons/Yr: .0050202  
Carbon Monoxide Emissions Tons/Yr: .018  
NOX - Oxides of Nitrogen Tons/Yr: .082  
SOX - Oxides of Sulphur Tons/Yr: .001  
Particulate Matter Tons/Yr: .006

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTHERN TELECOM INC (Continued)**

**1001075493**

Part. Matter 10 Micrometers & Smlr Tons/Yr: .005856

Year: 2008  
County Code: 43  
Air Basin: SF  
Facility ID: 17406  
Air District Name: BA  
SIC Code: 3669  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: .001  
Reactive Organic Gases Tons/Yr: .0008367  
Carbon Monoxide Emissions Tons/Yr: .004  
NOX - Oxides of Nitrogen Tons/Yr: .033  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2009  
County Code: 43  
Air Basin: SF  
Facility ID: 17406  
Air District Name: BA  
SIC Code: 3669  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.001  
Reactive Organic Gases Tons/Yr: 8.3670000000000001E-4  
Carbon Monoxide Emissions Tons/Yr: 4.0000000000000001E-3  
NOX - Oxides of Nitrogen Tons/Yr: 3.3000000000000002E-2  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2010  
County Code: 43  
Air Basin: SF  
Facility ID: 17406  
Air District Name: BA  
SIC Code: 3669  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.001  
Reactive Organic Gases Tons/Yr: 8.3670000000000001E-4  
Carbon Monoxide Emissions Tons/Yr: 4.0000000000000001E-3  
NOX - Oxides of Nitrogen Tons/Yr: 2.9000000000000001E-2  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0.00102459016393442  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0.001

Year: 2011  
County Code: 43  
Air Basin: SF  
Facility ID: 17406

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTHERN TELECOM INC (Continued)**

**1001075493**

Air District Name: BA  
SIC Code: 3669  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.001  
Reactive Organic Gases Tons/Yr: 0.0008367  
Carbon Monoxide Emissions Tons/Yr: 0.004  
NOX - Oxides of Nitrogen Tons/Yr: 0.029  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2012  
County Code: 43  
Air Basin: SF  
Facility ID: 17406  
Air District Name: BA  
SIC Code: 3669  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0.004  
NOX - Oxides of Nitrogen Tons/Yr: 0.022  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

**A4**  
**Target**  
**Property**  
**GENERAL DYNAMICS/AIS**  
**2305 MISSION COLLEGE BLVD**  
**SANTA CLARA, CA 95054**

**FINDS 1015780377**  
**N/A**

**Site 4 of 7 in cluster A**

**Actual:**  
**27 ft.**

FINDS:  
Registry ID: 110054341654  
Environmental Interest/Information System  
CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

**A5**  
**Target**  
**Property**  
**GENERAL DYNAMICS, AIS**  
**2305 MISSION COLLAGE BLVD. SUITE 101**  
**SANTA CLARA, CA 95054**

**FINDS 1016433553**  
**N/A**

**Site 5 of 7 in cluster A**

**Actual:**  
**27 ft.**

FINDS:  
Registry ID: 110055856792  
Environmental Interest/Information System

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A6**            **NORTEL NETWORKS**  
**Target**        **2305 MISSION COLLEGE BLVD.**  
**Property**      **SANTA CLARA, CA 95050**

**CA HAZNET**    **S113002211**  
                         **N/A**

**Site 6 of 7 in cluster A**

**Actual:**  
**27 ft.**

**HAZNET:**

Year: 2002  
Gepaid: CAD094973195  
Contact: KARL KPATAKPA  
Telephone: 4084951925  
Mailing Name: Not reported  
Mailing Address: 4655 GREAT AMERICA PARKWAY SC100-6  
Mailing City,St,Zip: SANTA CLARA, CA 950540000  
Gen County: Not reported  
TSD EPA ID: CAD009452657  
TSD County: Not reported  
Waste Category: Other inorganic solid waste  
Disposal Method: Disposal, Land Fill  
Tons: 0.09  
Facility County: Santa Clara

Year: 2002  
Gepaid: CAD094973195  
Contact: KARL KPATAKPA  
Telephone: 4084951925  
Mailing Name: Not reported  
Mailing Address: 4655 GREAT AMERICA PARKWAY SC100-6  
Mailing City,St,Zip: SANTA CLARA, CA 950540000  
Gen County: Not reported  
TSD EPA ID: CAD009452657  
TSD County: Not reported  
Waste Category: Aqueous solution with total organic residues less than 10 percent  
Disposal Method: Recycler  
Tons: 1.27  
Facility County: Santa Clara

Year: 2002  
Gepaid: CAD094973195  
Contact: KARL KPATAKPA  
Telephone: 4084951925  
Mailing Name: Not reported  
Mailing Address: 4655 GREAT AMERICA PARKWAY SC100-6  
Mailing City,St,Zip: SANTA CLARA, CA 950540000  
Gen County: Not reported  
TSD EPA ID: CAD009452657  
TSD County: Not reported  
Waste Category: Other inorganic solid waste  
Disposal Method: Treatment, Incineration  
Tons: 0.05  
Facility County: Santa Clara

Year: 2002  
Gepaid: CAD094973195  
Contact: KARL KPATAKPA  
Telephone: 4084951925  
Mailing Name: Not reported  
Mailing Address: 4655 GREAT AMERICA PARKWAY SC100-6  
Mailing City,St,Zip: SANTA CLARA, CA 950540000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTEL NETWORKS (Continued)**

**S113002211**

Gen County: Not reported  
TSD EPA ID: CAD009452657  
TSD County: Not reported  
Waste Category: Unspecified oil-containing waste  
Disposal Method: Recycler  
Tons: 0.68  
Facility County: Santa Clara

Year: 2002  
Gepaid: CAD094973195  
Contact: KARL KPATAKPA  
Telephone: 4084951925  
Mailing Name: Not reported  
Mailing Address: 4655 GREAT AMERICA PARKWAY SC100-6  
Mailing City,St,Zip: SANTA CLARA, CA 950540000  
Gen County: Not reported  
TSD EPA ID: CAD009452657  
TSD County: Not reported  
Waste Category: Liquids with lead >= 500 Mg./L  
Disposal Method: Treatment, Incineration  
Tons: 0.3  
Facility County: Santa Clara

[Click this hyperlink](#) while viewing on your computer to access  
119 additional CA\_HAZNET: record(s) in the EDR Site Report.

**A7**  
**Target**  
**Property**

**V V US CITY LP**  
**2305 MISSION COLLEGE BLVD**  
**SANTA CLARA, CA 95054**

**CA HAZNET** **S112949456**  
**N/A**

**Site 7 of 7 in cluster A**

**Actual:**  
**27 ft.**

HAZNET:  
Year: 2005  
Gepaid: CAC002597150  
Contact: ABBY DONAHOE  
Telephone: 4158359700  
Mailing Name: Not reported  
Mailing Address: 225 BUSH ST STE 480  
Mailing City,St,Zip: SAN FRANCISCO, CA 94104  
Gen County: Not reported  
TSD EPA ID: CAD028409019  
TSD County: Not reported  
Waste Category: Other inorganic solid waste  
Disposal Method: Not reported  
Tons: 0.49  
Facility County: Santa Clara

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NPL  
Region  
SW  
1/2-1  
5126 ft.**

**APPLIED MATERIALS, INC. - BOWERS  
3050 BOWERS AVENUE  
SANTA CLARA, CA 95054**

**NPL 1000284775  
CERCLIS 95054PPLDM3050B  
RCRA-LQG  
US ENG CONTROLS  
US INST CONTROL  
ROD  
TRIS  
FINDS  
CA HIST UST  
NY MANIFEST  
PRP**

**NPL:**

EPA ID: CAD042728840  
EPA Region: 09  
Federal: N  
Final Date: 1987-07-22 00:00:00

**Category Details:**

NPL Status: Currently on the Final NPL  
Category Description: Depth To Aquifer-> 100 Feet  
Category Value: 240

NPL Status: Currently on the Final NPL  
Category Description: Distance To Nearest Population-> 0 And <= 1/4 Mile  
Category Value: 10

**Site Details:**

Site Name: APPLIED MATERIALS  
Site Status: Final  
Site Zip: 95051  
Site City: SANTA CLARA  
Site State: CA  
Federal Site: No  
Site County: SANTA CLARA  
EPA Region: 09  
Date Proposed: 10/15/84  
Date Deleted: Not reported  
Date Finalized: 07/22/87

**Substance Details:**

NPL Status: Currently on the Final NPL  
Substance ID: Not reported  
Substance: Not reported  
CAS #: Not reported  
Pathway: Not reported  
Scoring: Not reported

NPL Status: Currently on the Final NPL  
Substance ID: A091  
Substance: 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE  
CAS #: 76-13-1  
Pathway: GROUND WATER PATHWAY  
Scoring: 2

NPL Status: Currently on the Final NPL  
Substance ID: U078  
Substance: DICHLOROETHENE, 1,1-

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC. - BOWERS (Continued)**

**1000284775**

CAS #: 75-35-4  
Pathway: GROUND WATER PATHWAY  
Scoring: 4

NPL Status: Currently on the Final NPL  
Substance ID: U210  
Substance: TETRACHLOROETHENE  
CAS #: 127-18-4  
Pathway: GROUND WATER PATHWAY  
Scoring: 2

NPL Status: Currently on the Final NPL  
Substance ID: U226  
Substance: TRICHLOROETHANE, 1,1,1-  
CAS #: 71-55-6  
Pathway: GROUND WATER PATHWAY  
Scoring: 2

NPL Status: Currently on the Final NPL  
Substance ID: U228  
Substance: TRICHLOROETHYLENE (TCE)  
CAS #: 79-01-6  
Pathway: GROUND WATER PATHWAY  
Scoring: 2

Summary Details:

Conditions at proposal (October 15, 1984): Applied Materials produces equipment for manufacturing wafers for the electronics industry at a plant in Santa Clara, Santa Clara County, California. The facility occupies about 2.5 acres and is surrounded by business and industrial areas. Monitoring wells on the site are contaminated with Freon 113, tetrachloroethylene, 1,1,1-trichloroethane, 1,1-dichloroethylene, and trichloroethylene, according to analyses conducted by a consultant to Applied Materials. Contamination is believed to have resulted from leaking tanks. About 300,000 people depend on wells within 3 miles of the site as a source of drinking water. Applied Materials is working with the California Regional Water Quality Control Board (CRWQCB) to determine the extent of contamination of ground water and soils. This is one of 19 sites in the South Bay Area of San Francisco. Facilities at these sites have used a variety of toxic chemicals, primarily chlorinated organic solvents, which contaminate a common ground water basin. Although these sites are listed separately, EPA intends to apply an area-wide approach to the problem as well as take specific action as necessary. The plant received Interim Status under the Resource Conservation and Recovery Act (RCRA) when the company filed Part A of a permit application. Status (January 1986): The company has installed and is operating a system to pump and treat contaminated ground water. CRWQCB, in conjunction with EPA and the California Department of Health Services, is overseeing response actions at the site. Site investigations and cleanup continue to be regulated by the board's Waste Discharge Requirements. This site remains in proposed status until EPA implements the appropriate elements of its final policy for placing RCRA-related sites on the NPL and then applies the policy to this site. Status (July 22, 1987): Subsequent investigation revealed that this site is not subject to the Subtitle C permitting requirements of RCRA. Its score on the Hazard Ranking System, which EPA uses to evaluate sites for the NPL, is above the cutoff point of 28.50, and EPA received no information that prevents placing the site on the NPL. Therefore, it is being placed on the NPL.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC. - BOWERS (Continued)**

**1000284775**

Site Status Details:

NPL Status: Final  
Proposed Date: 10/15/1984  
Final Date: 07/22/1987  
Deleted Date: Not reported

Narratives Details:

NPL Name: APPLIED MATERIALS  
City: SANTA CLARA  
State: CA

CERCLIS:

Site ID: 0901344  
EPA ID: CAD042728840  
Facility County: SANTA CLARA  
Short Name: APPLIED MATERIALS  
Congressional District: 17  
IFMS ID: 0983  
SMSA Number: 7400  
USGC Hydro Unit: 18050003  
Federal Facility: Not a Federal Facility  
DMNSN Number: 9.00000  
Site Orphan Flag: N  
RCRA ID: Not reported  
USGS Quadrangle: Not reported  
Site Init By Prog: Not reported  
NFRAP Flag: Not reported  
Parent ID: Not reported  
RST Code: Not reported  
EPA Region: 09  
Classification: Manufacturing Plant  
Site Settings Code: SU  
NPL Status: Currently on the Final NPL  
DMNSN Unit Code: ACRE  
RBRAC Code: Not reported  
RResp Fed Agency Code: Not reported  
Non NPL Status: Not reported  
Non NPL Status Date: / /  
Site Fips Code: 06085  
CC Concurrence Date: 09/27/93  
CC Concurrence FY: 1993  
Alias EPA ID: Not reported  
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):

Contact ID: 13003940.00000  
Contact Name: Daewon Rojas-Mickelson  
Contact Tel: (415) 947-4191  
Contact Title: Remedial Project Manager (RPM)  
Contact Email: Not reported

Contact ID: 13003854.00000  
Contact Name: Leslie Ramirez  
Contact Tel: (415) 972-3978

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC. - BOWERS (Continued)**

**1000284775**

Contact Title: Site Assessment Manager (SAM)  
Contact Email: Not reported

Contact ID: 13003858.00000  
Contact Name: Sharon Murray  
Contact Tel: (415) 972-4250  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: Not reported

Contact ID: 13004003.00000  
Contact Name: Carl Brickner  
Contact Tel: Not reported  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: Not reported

**CERCLIS Site Alias Name(s):**

Alias ID: 101  
Alias Name: APPLIED MATERIALS  
Alias Address: 3050 BOWERS AVE  
SANTA CLARA, CA 95051  
Alias Comments: Not reported

Site Description: The Applied Materials, Inc. Superfund site (AM or the site), is located at 3050 Bowers Avenue in the City of Santa Clara. Applied Materials manufactures vapor deposition equipment used in the semiconductor industry in its Building 1 plant. Building 1 is located on a nine-acre parcel about 6.4 miles south of San Francisco Bay and within one mile of Calabazas, Saratoga, and San Tomas Aguino Creeks. The population of the City of Santa Clara is about 90,000. The population density in the vicinity of the site is about 4,660 people per square mile. Land use near the site is primarily light industrial, commercial and residential. Agricultural use dominated the area before 1970 but presently represents only a small percentage of land use near the site. The two primary natural resources in the vicinity of AM are land and water. The potential for agricultural use has been greatly reduced by conversion of land to light industrial, commercial and residential use. Ground water for human consumption is extracted from wells from about 150 to 500 ft deep in the Santa Clara Valley. The nearest drinking water supply well to the AM site is located 3,500 ft upgradient, to the southwest. Volatile organic compounds (VOCs) were first detected in groundwater in November 1983, in the vicinity of three underground tanks at the west side of Building 1. The predominant pollutant in 1983 was trichloroethane (1,1,1-TCA) at concentrations up to 12,000 parts per billion (ppb); also detected were trichloroethylene (TCE), dichloroethylene (1,1-DCE), dichloroethane (DCA), Freon 113, and other VOCs. In 1983, Applied Materials discovered that underground tank leakage and/or spills had resulted in the contamination of soil and shallow groundwater with organic solvents, principally 1,1,1-trichloroethane (TCA), with lower concentrations of 1,1-dichloroethane (DCA) 1,1-dichloroethylene (DCE), and with trace amounts of perchloroethylene (PCE), and Freon 113. AM has been conducting interim cleanup activities consisting of tank and soil removal and groundwater extraction with treatment by air stripping. In 1984 and 1985, VOCs were detected at concentrations up to 65 milligrams per liter (mg/l) in soil samples collected in the vicinity of the underground tanks. These data suggested that the VOCs were released from the tanks and/or associated piping. The tanks have been excavated and removed. Above 60 cubic yards of contaminated soil were also removed. The excavation was filled and converted into an extraction pit. About 10,000 gallons of water were extracted to remove sediment and develop the pit. Soil borings indicated that some contaminated soils remain in place in the immediate vicinity of the former tanks. Additional soil was not removed because

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC. - BOWERS (Continued)**

**1000284775**

of a perceived threat to the integrity of the Building 1 structure. Interim groundwater extraction and treatment began in July 1984. AM has installed and maintains nine onsite monitoring wells, including seven in the A zone and two in the underlying B zone, and three piezometers in the A zone in the vicinity of the extraction pit. The extraction system consists of three wells and the extraction pit and removes from 20,000 to 26,000 gallons of water per day. The extracted groundwater is processed through an air stripping unit which discharges to San Tomas Aquino Creek and ultimately to South San Francisco Bay. This discharge is regulated under a NPDES permit from the California Regional Water Quality Control Board, San Francisco Bay Region (the Board). Prior to the discovery of subsurface contamination at the site, significant VOC concentrations had been detected at three sites bordering the AM property. However, VOC plumes from the neighboring sites do not appear to extend to the AM site and it is probable that no VOCs were present in the shallow groundwater at Building 1 prior to onsite release. Pursuant to the South Bay Multi-Site Cooperative Agreement and the South Bay Ground Water Contamination Enforcement Agreement, entered into on May 2, 1985 (as subsequently amended) by the California Regional Water Quality Control Board, San Francisco Bay Region, EPA, and DHS, the Regional Board has been acting as the lead regulatory agency. The Regional Board will continue to oversee the remediation of the site pursuant to CERCLA, the NCP and applicable state law. The site is on the National Priorities List (NPL) and is regulated under Site Cleanup Requirements of the Regional Board as indicated herein: -October 15, 1984 Site proposed for the NPL. -June 19, 1985 Regional Board adopted NPDES Permit NO. CA0028851, for the discharge of treated water to a storm drain system tributary to San Tomas Aquino Creek and South San Francisco Bay. -September 17, 1986 Regional Board adopted waste discharge requirements for the site. -July 22, 1987 Site added to the final NPL. In December 21, 1988 Regional Board adopted a revised NPDES Permit No. CA9928851. -September 20, 1989 Regional Board adopted site cleanup requirements Order No. 89-167. - June 20, 1990 Regional Board adopted permit renewal for NPDES Permit No. CA9928851. -September 19, 1990 September 19, 1990 Regional Board adopted amendments to site cleanup requirements Order No. 90-134. A Record of Decision (ROD) for The Applied Materials, Inc. Superfund Site addresses groundwater, as Operable Unit (OU) 01. The Applied Materials, Inc. Superfund Site was added to the National Priorities List (NPL) in July 22, 1987. A ROD for the Site was signed in September 1990. The remedy described in the 1990 ROD consisted of pumping the contaminated groundwater and treating it with an air stripper. The treated water is discharged to San Tomas Aquino Creek under an NPDES Permit. Since the groundwater ROD did not address soil contamination, the Applied Materials contractor, Weiss and Associates, performed an additional evaluation of the facility soils. The Water Board concurred with the findings that 1. The remaining soil contamination, resulting from an underground storage tank removed in 1983, resides below the water table in the saturated zone, and 2. the vadose zone soils in the former chemical storage areas are not contaminated. A ROD addressing OU02 of the Applied Materials site was completed in August, 1993.

CERCLIS Assessment History:

Action Code:	001
Action:	DISCOVERY
Date Started:	/ /
Date Completed:	12/01/80
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	State, Fund Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC. - BOWERS (Continued)**

**1000284775**

Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 07/01/84  
Priority Level: Low priority for further assessment  
Operable Unit: SITEWIDE  
Primary Responsibility: State, Fund Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: SITE INSPECTION  
Date Started: / /  
Date Completed: 08/01/84  
Priority Level: Higher priority for further assessment  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: HAZARD RANKING SYSTEM PACKAGE  
Date Started: / /  
Date Completed: 08/01/84  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: PROPOSAL TO NATIONAL PRIORITIES LIST  
Date Started: / /  
Date Completed: 10/15/84  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC. - BOWERS (Continued)**

**1000284775**

Action Code: 001  
Action: NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH  
Date Started: / /  
Date Completed: 05/15/85  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: Federal Enforcement  
Planning Status: Alternate  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: STATE ORDER  
Date Started: / /  
Date Completed: 09/17/86  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: State Enforcement  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: FINAL LISTING ON NATIONAL PRIORITIES LIST  
Date Started: / /  
Date Completed: 07/22/87  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002  
Action: STATE ORDER  
Date Started: / /  
Date Completed: 09/20/89  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: State Enforcement  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: REMOVAL ASSESSMENT  
Date Started: 08/15/90

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC. - BOWERS (Continued)**

**1000284775**

Date Completed: 08/15/90  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
Date Started: 10/01/83  
Date Completed: 09/28/90  
Priority Level: Not reported  
Operable Unit: OVERALL SITE  
Primary Responsibility: PRP Response Under State  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: ADMINISTRATIVE RECORDS  
Date Started: 07/05/89  
Date Completed: 09/28/90  
Priority Level: Admin Record Compiled for a Remedial Event  
Operable Unit: OVERALL SITE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION  
Date Started: 09/28/90  
Date Completed: 09/28/90  
Priority Level: Not reported  
Operable Unit: OVERALL SITE  
Primary Responsibility: PRP Response Under State  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN  
Date Started: 09/28/90  
Date Completed: 09/28/90  
Priority Level: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC. - BOWERS (Continued)**

**1000284775**

Operable Unit: OVERALL SITE  
Primary Responsibility: PRP Response Under State  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: RECORD OF DECISION  
Date Started: / /  
Date Completed: 09/28/90  
Priority Level: Not reported  
Operable Unit: OVERALL SITE  
Primary Responsibility: Federal Enforcement  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002  
Action: REMOVAL ASSESSMENT  
Date Started: 03/25/91  
Date Completed: 03/25/91  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: ADMINISTRATIVE ORDER ON CONSENT  
Date Started: / /  
Date Completed: 09/28/92  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: Federal Enforcement  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003  
Action: STATE ORDER  
Date Started: / /  
Date Completed: 06/16/93  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: State Enforcement  
Planning Status: Primary  
Urgency Indicator: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC. - BOWERS (Continued)**

**1000284775**

Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002  
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
Date Started: 09/28/90  
Date Completed: 08/25/93  
Priority Level: Not reported  
Operable Unit: OU02  
Primary Responsibility: PRP Response Under State  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002  
Action: RECORD OF DECISION  
Date Started: / /  
Date Completed: 08/25/93  
Priority Level: Final Remedy Selected at Site  
Operable Unit: OU02  
Primary Responsibility: Federal Enforcement  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: PRELIMINARY CLOSE-OUT REPORT PREPARED  
Date Started: / /  
Date Completed: 09/27/93  
Priority Level: Not reported  
Operable Unit: OU02  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: FIVE-YEAR REVIEW  
Date Started: / /  
Date Completed: 04/28/95  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC. - BOWERS (Continued)**

**1000284775**

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: PREPARATION OF COST DOCUMENT PACKAGE  
Date Started: 02/01/95  
Date Completed: 09/28/95  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: Federal Enforcement  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002  
Action: FIVE-YEAR REVIEW  
Date Started: / /  
Date Completed: 07/11/00  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003  
Action: FIVE-YEAR REVIEW  
Date Started: 08/24/05  
Date Completed: 09/29/05  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 004  
Action: FIVE-YEAR REVIEW  
Date Started: / /  
Date Completed: 09/28/10  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Federal Register Details:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC. - BOWERS (Continued)**

**1000284775**

Fed Register Date: 07/22/87  
Fed Register Volume: 52  
Page Number: 27620

Fed Register Date: 10/15/84  
Fed Register Volume: 49  
Page Number: 40320

[Click this hyperlink](#) while viewing on your computer to access  
20 additional US CERCLIS Financial: record(s) in the EDR Site Report.

**RCRA-LQG:**

Date form received by agency: 03/21/2012  
Facility name: APPLIED MATERIALS, INC. - BOWERS  
Facility address: 3050 BOWERS AVENUE  
SANTA CLARA, CA 95054  
EPA ID: CAD042728840  
Mailing address: 974 E ARQUES AVE  
M/S 8501 P.O. BOX 58039  
SUNNYVALE, CA 94085  
Contact: DINA C SCHILLER  
Contact address: 974 EAST ARQUES AVE. M/S 8501 P.O. BOX 58039  
SUNNYVALE, CA 94085  
Contact country: US  
Contact telephone: (408) 584-4306  
Contact email: DINA\_SCHILLER@AMAT.COM  
EPA Region: 09  
Land type: Private  
Classification: Large Quantity Generator  
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

**Owner/Operator Summary:**

Owner/operator name: APPLIED MATERIALS, INC.  
Owner/operator address: 3050 BOWERS AVE PO BOX 58039  
SANTA CLARA, CA 95054  
Owner/operator country: US  
Owner/operator telephone: (408) 748-5400  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 09/12/1973  
Owner/Op end date: Not reported  
Owner/operator name: APPLIED MATERIALS, INC.  
Owner/operator address: 3050 BOWERS AVE PO BOX 58039

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC. - BOWERS (Continued)**

**1000284775**

SANTA CLARA, CA 95054  
Owner/operator country: US  
Owner/operator telephone: (408) 748-5400  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 09/12/1973  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 02/09/2010  
Site name: APPLIED MATERIALS, INC. - BOWERS CAMPUS  
Classification: Large Quantity Generator

Date form received by agency: 02/12/2008  
Site name: APPLIED MATERIALS, INC. - BOWERS  
Classification: Large Quantity Generator

Date form received by agency: 02/23/2006  
Site name: APPLIED MATERIALS, INC. - BOWERS CAMPUS  
Classification: Large Quantity Generator

Date form received by agency: 02/27/2004  
Site name: APPLIED MATERIALS, INC. - BOWERS CAMPUS  
Classification: Large Quantity Generator

Date form received by agency: 03/01/2002  
Site name: APPLIED MATERIALS, INC. - BOWERS CAMPUS  
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000  
Site name: APPLIED MATERIALS  
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999  
Site name: APPLIED MATERIALS  
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996  
Site name: APPLIED MATERIALS INC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC. - BOWERS (Continued)**

**1000284775**

Classification: Large Quantity Generator

Date form received by agency: 10/23/1992

Site name: APPLIED MATERIALS INC

Classification: Small Quantity Generator

Date form received by agency: 02/28/1992

Site name: APPLIED MATERIALS INC

Classification: Large Quantity Generator

Date form received by agency: 06/12/1990

Site name: APPLIED MATERIALS INC

Classification: Large Quantity Generator

**Hazardous Waste Summary:**

Waste code: 122

Waste name: 122

Waste code: 133

Waste name: 133

Waste code: 341

Waste name: 341

Waste code: 343

Waste name: 343

Waste code: 352

Waste name: 352

Waste code: 551

Waste name: 551

Waste code: 791

Waste name: 791

Waste code: 792

Waste name: 792

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC. - BOWERS (Continued)**

**1000284775**

Waste code: D003  
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D008  
Waste name: LEAD

Waste code: D011  
Waste name: SILVER

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Amount (Lbs): 42425

Waste code: D002  
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Amount (Lbs): 963239.6

Waste code: D003  
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Amount (Lbs): 22

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC. - BOWERS (Continued)**

**1000284775**

Waste code: D008  
Waste name: LEAD  
Amount (Lbs): 525

Waste code: D011  
Waste name: SILVER  
Amount (Lbs): 525

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.  
Amount (Lbs): 44568

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 09/15/2010  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 09/03/2009  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 10/12/2007  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 08/17/2006  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 08/17/2006  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: Local

Evaluation date: 07/20/2005  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC. - BOWERS (Continued)**

**1000284775**

Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State Contractor/Grantee

**US ENG CONTROLS:**

EPA ID: CAD042728840  
Site ID: 0901344  
Name: APPLIED MATERIALS  
Address: 3050 BOWERS AVE  
SANTA CLARA, CA 95051  
EPA Region: 09  
County: SANTA CLARA  
Event Code: Not reported  
Actual Date: 09/30/1993

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 09/28/1990  
Operable Unit: 01  
Contaminated Media : Groundwater  
Engineering Control: Air Stripping

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 09/28/1990  
Operable Unit: 01  
Contaminated Media : Groundwater  
Engineering Control: Discharge

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 09/28/1990  
Operable Unit: 01  
Contaminated Media : Groundwater  
Engineering Control: Monitoring

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 09/28/1990  
Operable Unit: 01  
Contaminated Media : Groundwater  
Engineering Control: Pump And Treat

Action ID: 002  
Action Name: RECORD OF DECISION  
Action Completion date: 08/25/1993  
Operable Unit: 02  
Contaminated Media : Soil  
Engineering Control: No Further Action

**US INST CONTROL:**

EPA ID: CAD042728840  
Site ID: 0901344  
Name: APPLIED MATERIALS  
Action Name: RECORD OF DECISION  
Address: 3050 BOWERS AVE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC. - BOWERS (Continued)**

**1000284775**

SANTA CLARA, CA 95051  
EPA Region: 09  
County: SANTA CLARA  
Event Code: Not reported  
Inst. Control: Institutional Controls, (N.O.S.)  
Actual Date: 09/30/1990  
Comple. Date: 09/28/1990  
Operable Unit: 01  
Contaminated Media : Groundwater

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

TRIS:

[Click this hyperlink](#) while viewing on your computer to access  
1 additional US\_TRIS: record(s) in the EDR Site Report.

FINDS:

Registry ID: 110000770862

Environmental Interest/Information System

California Department of Toxic Substances Control EnviroStor System (DTSC-EnviroStor) is an online search and Geographic Information System (GIS) tool for identifying sites that have known contamination or sites for which there may be reasons to investigate further. The EnviroStor database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC. - BOWERS (Continued)**

**1000284775**

including an inventory of sites, planned and actual site activities,  
and financial information.

HAZARDOUS WASTE BIENNIAL REPORTER

CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

Registry ID: 110055707150

Environmental Interest/Information System

HIST UST:

Region: STATE  
Facility ID: 00000008399  
Facility Type: Other  
Other Type: EQUIPMENT MFGR.  
Total Tanks: 0003  
Contact Name: R. PIERCE  
Telephone: 4087275555  
Owner Name: APPLIED MATERIALS INC.  
Owner Address: 3050 BOWERS AVE  
Owner City,St,Zip: SANTA CLARA, CA 95051

Tank Num: 001  
Container Num: 1  
Year Installed: Not reported  
Tank Capacity: 00001077  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Groundwater Monitoring Well

Tank Num: 002  
Container Num: 2  
Year Installed: Not reported  
Tank Capacity: 00001077  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Groundwater Monitoring Well

Tank Num: 003  
Container Num: 3  
Year Installed: Not reported  
Tank Capacity: 00000120  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Groundwater Monitoring Well

NY MANIFEST:

EPA ID: CAD042728840  
Country: USA

Mailing Info:

Name: APPLIED MATERIALS  
Contact: APPLIED MATERIALS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC. - BOWERS (Continued)**

**1000284775**

Address: 3050 BOWERS AVENUE  
City/State/Zip: SANTA CLARA, CA 95054  
Country: USA  
Phone: 408-748-5244

Document ID: NYA8012871  
Manifest Status: Completed copy  
Trans1 State ID: 00000000  
Trans2 State ID: 00000000  
Generator Ship Date: 880923  
Trans1 Recv Date: 880923  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 881006  
Part A Recv Date: 881017  
Part B Recv Date: 881017  
Generator EPA ID: CAD042728840  
Trans1 EPA ID: NYD980769947  
Trans2 EPA ID: Not reported  
TSD ID: NYD000632372  
Waste Code: D003 - NON-LISTED REACTIVE WASTES  
Quantity: 00020  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DW  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 100  
Year: 88

Document ID: NYG1598409  
Manifest Status: Not reported  
Trans1 State ID: CAD982492399  
Trans2 State ID: NYD982792814  
Generator Ship Date: 03/12/2001  
Trans1 Recv Date: 03/12/2001  
Trans2 Recv Date: 03/23/2001  
TSD Site Recv Date: 03/23/2001  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: CAD042728840  
Trans1 EPA ID: NYD000632372  
Trans2 EPA ID: Not reported  
TSD ID: Not reported  
Waste Code: P096 - PHOSPHINE  
Quantity: 00004  
Units: P - Pounds  
Number of Containers: 001  
Container Type: CY - Cylinders  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2001

Document ID: NYC5702365  
Manifest Status: Not reported  
Trans1 State ID: NYD982792814

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC. - BOWERS (Continued)**

**1000284775**

Trans2 State ID: Not reported  
Generator Ship Date: 04/22/2002  
Trans1 Recv Date: 04/22/2002  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 05/03/2002  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: CAD042728840  
Trans1 EPA ID: NYD000632372  
Trans2 EPA ID: Not reported  
TSD ID: AB62852NY  
Waste Code: D003 - NON-LISTED REACTIVE WASTES  
Quantity: 00050  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Quantity: 00050  
Units: P - Pounds  
Number of Containers: 001  
Container Type: CY - Cylinders  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Quantity: 00025  
Units: P - Pounds  
Number of Containers: 001  
Container Type: CY - Cylinders  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 01.00  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Quantity: 00005  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2002

Document ID: NYC5829726  
Manifest Status: Not reported  
Trans1 State ID: SCR000074591  
Trans2 State ID: NYD982792814  
Generator Ship Date: 06/27/2002  
Trans1 Recv Date: 06/27/2002  
Trans2 Recv Date: 07/17/2002  
TSD Site Recv Date: 07/17/2002  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: CAD042728840  
Trans1 EPA ID: NYD000632372  
Trans2 EPA ID: Not reported  
TSD ID: Not reported  
Waste Code: D002 - NON-LISTED CORROSIVE WASTES

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC. - BOWERS (Continued)**

**1000284775**

Quantity: 00045  
Units: P - Pounds  
Number of Containers: 002  
Container Type: CY - Cylinders  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2002

Document ID: NYG1598481  
Manifest Status: Not reported  
Trans1 State ID: CAD982492399  
Trans2 State ID: NYD982792814  
Generator Ship Date: 12/01/2000  
Trans1 Recv Date: 12/01/2000  
Trans2 Recv Date: 12/04/2000  
TSD Site Recv Date: 12/19/2000  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: CAD042728840  
Trans1 EPA ID: NYD000632372  
Trans2 EPA ID: Not reported  
TSD ID: Not reported  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Quantity: 00060  
Units: P - Pounds  
Number of Containers: 001  
Container Type: CY - Cylinders  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2000

PRP:  
PRP name: APPLIED MATERIALS, INC  
APPLIED MATERIALS, INC.

**NPL  
Region  
SSW  
1/2-1  
3671 ft.**

**SYNERTEK, INC. (BUILDING 1)  
3050 CORONADO BLVD  
SANTA CLARA, CA 95051**

**NPL 1000219435  
CERCLIS CAD990832735  
RCRA-SQG  
US ENG CONTROLS  
US INST CONTROL  
ROD  
FINDS  
PRP**

NPL:  
EPA ID: CAD990832735  
EPA Region: 09  
Federal: N  
Final Date: 1989-10-04 00:00:00

Category Details:  
NPL Status: Currently on the Final NPL  
Category Description: Depth To Aquifer-> 25 And <= 50 Feet  
Category Value: 40

NPL Status: Currently on the Final NPL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNERTEK, INC. (BUILDING 1) (Continued)**

**1000219435**

Category Description: Distance To Nearest Population-> 0 And <= 1/4 Mile  
Category Value: 10

Site Details:

Site Name: SYNERTEK, INC. (BUILDING 1)  
Site Status: Final  
Site Zip: 95051  
Site City: SANTA CLARA  
Site State: CA  
Federal Site: No  
Site County: SANTA CLARA  
EPA Region: 09  
Date Proposed: 06/24/88  
Date Deleted: Not reported  
Date Finalized: 10/04/89

Substance Details:

NPL Status: Currently on the Final NPL  
Substance ID: Not reported  
Substance: Not reported  
CAS #: Not reported  
Pathway: Not reported  
Scoring: Not reported

NPL Status: Currently on the Final NPL  
Substance ID: U043  
Substance: VINYL CHLORIDE  
CAS #: 75-01-4  
Pathway: GROUND WATER PATHWAY  
Scoring: 2

NPL Status: Currently on the Final NPL  
Substance ID: U076  
Substance: DICHLOROETHANE, 1,1-  
CAS #: 75-34-3  
Pathway: GROUND WATER PATHWAY  
Scoring: 2

NPL Status: Currently on the Final NPL  
Substance ID: U078  
Substance: DICHLOROETHENE, 1,1-  
CAS #: 75-35-4  
Pathway: GROUND WATER PATHWAY  
Scoring: 4

NPL Status: Currently on the Final NPL  
Substance ID: U226  
Substance: TRICHLOROETHANE, 1,1,1-  
CAS #: 71-55-6  
Pathway: GROUND WATER PATHWAY  
Scoring: 2

NPL Status: Currently on the Final NPL  
Substance ID: U228  
Substance: TRICHLOROETHYLENE (TCE)  
CAS #: 79-01-6

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNERTEK, INC. (BUILDING 1) (Continued)**

**1000219435**

Pathway: GROUND WATER PATHWAY  
Scoring: 2

Summary Details:

Conditions at proposal June 24, 1988): Synertek, Inc. SI) manufactured electronics in five buildings on a 3.5-acre site at 3050 Coronado Boulevard in Santa Clara, Santa Clara County, California, from March 1978 to February 1985. SI, a subsidiary of Honeywell, Inc., operated a neutralization system consisting of three buried tanks during 1974-82. Building 1 is adjacent to the tank system, which was removed in April 1985. A buried tank for storing trichloroethylene (TCE) and trichloroethane (TCA) was installed in 1976 and removed in February 1985. According to California Regional Water Quality Control Board (CRWQCB) files, the neutralization tank and solvent storage tank appear to have leaked. In 1985, Honeywell found TCE, TCA, and other chlorinated solvents in ground water on and off the site. Both the shallow and deep aquifers are contaminated. An estimated 300,000 people obtain drinking water from public wells within 3 miles of the site. Honeywell is constructing a single-well extraction system to pump contaminated ground water to the surface, route it through two air-stripping towers to remove contaminants, and discharge the treated water to the storm sewer. The discharge will be regulated under a permit issued by CRWQCB under the National Pollutant Discharge Elimination System. The pumping system is scheduled to be in operation shortly. Status October 4, 1989): Under CRWQCB orders, Honeywell is conducting a remedial investigation/feasibility study to determine the type and extent of contamination at the site and identify alternatives for remedial action. The work is meeting the schedule outlined in the orders. Honeywell plans to remove a large concrete neutralization tank in the near future.

Site Status Details:

NPL Status: Final  
Proposed Date: 06/24/1988  
Final Date: 10/04/1989  
Deleted Date: Not reported

Narratives Details:

NPL Name: SYNERTEK, INC. (BUILDING 1)  
City: SANTA CLARA  
State: CA

CERCLIS:

Site ID: 0902620  
EPA ID: CAD990832735  
Facility County: SANTA CLARA  
Short Name: SYNERTEK, INC. (BUILDING 1)  
Congressional District: 17  
IFMS ID: 09K3  
SMSA Number: 7400  
USGC Hydro Unit: 18050003  
Federal Facility: Not a Federal Facility  
DMNSN Number: 3.50000  
Site Orphan Flag: N  
RCRA ID: Not reported  
USGS Quadrangle: Not reported  
Site Init By Prog: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNERTEK, INC. (BUILDING 1) (Continued)**

**1000219435**

NFRAP Flag: Not reported  
Parent ID: Not reported  
RST Code: Not reported  
EPA Region: 09  
Classification: Manufacturing Plant  
Site Settings Code: UR  
NPL Status: Currently on the Final NPL  
DMNSN Unit Code: ACRE  
RBRAC Code: Not reported  
RResp Fed Agency Code: Not reported  
Non NPL Status: Not reported  
Non NPL Status Date: / /  
Site Fips Code: 06085  
CC Concurrence Date: 03/25/92  
CC Concurrence FY: 1992  
Alias EPA ID: Not reported  
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):

Contact ID: 13003854.00000  
Contact Name: Leslie Ramirez  
Contact Tel: (415) 972-3978  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: Not reported

Contact ID: 13003858.00000  
Contact Name: Sharon Murray  
Contact Tel: (415) 972-4250  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: Not reported

Contact ID: 13004003.00000  
Contact Name: Carl Brickner  
Contact Tel: Not reported  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: Not reported

Contact ID: 13004283.00000  
Contact Name: Melanie Morash  
Contact Tel: (415) 972-3050  
Contact Title: Remedial Project Manager (RPM)  
Contact Email: Not reported

CERCLIS Site Alias Name(s):

Alias ID: 101  
Alias Name: SYNERTEK, INC. (BUILDING 1)  
Alias Address: 3050 CORONADO BLVD  
SANTA CLARA, CA 95051

Alias Comments: Not reported

Site Description: The former Synertek #1 facility is located in Santa Clara County about 6 miles south of the southern tip of San Francisco Bay near San Jose, California. The Synertek #1 Superfund site has an on-site and an off-site component within the Superfund site boundaries. The on-site component consists of the area within the Synertek property boundaries surrounding Building #1. The off-site component includes the area located above the portion, of the contaminated groundwater plume that has migrated north past the property boundaries and into

MAP FINDINGS

**SYNERTEK, INC. (BUILDING 1) (Continued)**

**1000219435**

the adjacent industrial park area. REGIONAL TOPOGRAPHY The Study Area is located in the Santa Clara Valley which is a gently sloping alluvial plain, flanked by the Diablo Range to the east-southeast and the Santa Cruz Mountains to the west-southwest. The Study Area is located toward the center of the valley. The Santa Cruz Mountains are located several miles southwest of the Study Area. San Francisco Bay is located approximately 6 miles north of the Study Area. ADJACENT LAND USE Synertek #1 is located in the City of Santa Clara in a relatively flat lying portion of the Santa Clara Valley. Ground surface elevations are generally between 27 feet and 35 feet above mean sea level. Synertek is in an industrial park setting, dominated by the electronics industry, particularly semiconductor manufacturing. As such, the majority of the area is developed, with large paved areas for streets and parking lots. Surface water is controlled by the storm sewer system which directs run-off to San Tomas Aquino Creek. The nearest residential areas are located 3600 feet south of the site. Other residential areas are located 6000 feet north-northeast of the site. None of these residential areas are within the area affected by the past chemical releases from Synertek. HISTORICAL LAND USE The land in the area occupied by Synertek #1 was in agricultural use until 1974 when Synertek, Inc. began operation as a semiconductor manufacturing firm. Honeywell Inc. acquired Synertek as a wholly owned subsidiary in 1979. Synertek manufactured semiconductor products in Synertek Building #1 from March 1978 to February 1985. The RREEF Funds is the current owner of the property and leases it to two tenants (Media Publications, Inc. and Westmar Printing Company). HYDROGEOLOGY Three shallow aquifer zones have been identified beneath the site. These zones are designated as the A, B, and B1 Aquifer Zones. The A, B, and B1 Aquifer Zones are subdivisions of the regional Upper Aquifer Zone. The Lower Aquifer Zone occurs beneath a regional aquitard that occurs at depths ranging from about 100 feet to about 150 to 250 feet. Thickness of this regional aquitard varies from about 20 feet to over 100 feet. Numerous individual aquifers occur within, this predominantly aquitard zone and all ground water in this zone occurs confined. Within the regional aquifer zones, the A Aquifer Zone is the shallowest and has its upper boundary at about 10 feet below ground surface (BGS), and the lower boundary about 20 feet BGS. The B Aquifer Zone lies between about 30 and 40 feet BGS. The two zones are separated by a 2 to 10 feet thick aquitard composed of clay to silty sand. It is suspected that hydraulic separation between the two zones is imperfect owing to the discontinuous nature of sediment types. The deeper B1 Aquifer Zone lies between 100 and 108 feet BGS. The stratigraphy below 108 feet consists of clay to 171 feet. Below 171 feet is a sequence of sands, clays and gravels that are believed to make up the lower aquifer zone below the site. Shallow groundwater flow in the A and B Aquifer Zones beneath the site is generally to the north. This flow regime is consistent with the northerly regional flow towards San Francisco Bay. WATER USE Prior to the construction of public water connections and municipal water supply wells, groundwater use in the area of the Synertek site included private water-supply wells for homes and agriculture. Two well searches for abandoned agricultural wells located within 1 mile of the site identified 56 wells. Of the identified wells, 23 are shallow groundwater extraction wells and 31 are deep former agricultural wells that are located at least 800 feet laterally beyond the contaminated ground water at the site. The remaining 2 deep agricultural wells are near the Synertek site; one has been located and sealed and the other is still under investigation. The site overlies the Santa Clara Valley groundwater basin. Ground water from this basin provides up to 50% of the municipal drinking water for the 1.4 million residents of the Santa Clara Valley. In 1989, ground water accounted for approximately 128,000 of the 315,000 acre feet of drinking water delivered to Santa Clara Valley Water District customers. Synertek #1 was listed on the National Priorities List (NPL) primarily because of the potential threat from

MAP FINDINGS

**SYNERTEK, INC. (BUILDING 1) (Continued)**

**1000219435**

past chemical releases to the quality of this valuable resource. The major concern at the site stems from the potential migration of contaminants in the Upper Aquifer Zone down to the Lower Aquifer Zone through abandoned or poorly sealed wells or natural conduits through aquitard material. Municipal water supply wells are generally perforated in the Lower Aquifer Zone. Perforated intervals in City of Santa Clara water supply wells located within 2 miles of Synertek #1 begin from 250 to 320 feet below ground surface. Currently, the nearest municipal drinking water supply well downgradient of the site is the City of Santa Clara's Well No. 33, which is located 1.6 miles north of the site. No pollutants have been found in this well to date. Currently, there are no known users of ground water from the Upper Aquifer Zone. The Regional Water Quality Control Board (RWQCB) has identified potential beneficial uses of the shallow ground water underlying and adjacent to the Synertek site. These beneficial uses include industrial process water supply, industrial service water supply, municipal and domestic water supply and agricultural water supply. These are the same as the existing and potential beneficial uses of the ground water in the Lower Aquifer Zone. SURFACE AND SUBSURFACE STRUCTURES Synertek Building #1 is approximately 24,000 square feet in size and the property covers approximately 1.5 acres. The site and surrounding area is zoned for light industrial manufacturing operations and, with the exception of minor landscaping, the site consists of streets, paved areas, and buildings.

Prior to 1985, Synertek constructed and operated two underground tank systems east of the building. Solvent Tank [A] had a capacity of 200 gallons and was used for storing solvents between 1976 and 1982. Three former neutralization system tanks [B] were used between 1974 and 1982 as holding tanks. These tanks stored a variety of chemicals including solvents. The quantity of contaminants released by these tanks and the dates of the releases are unknown. These tanks along with affected soils were removed in the Spring of 1985. An underground concrete vault was constructed in the summer of 1982 to be used for process water neutralization. The approximate depth of the vault was 14 feet BGS. Neutralization operations continued until 1985 when manufacturing operations at Synertek ceased. In April 1990, demolition and excavation of the neutralization system was completed. There were no clear indications that this newer neutralization system was a source of groundwater or soil contaminants. HISTORY OF SITE ACTIVITIES The land in the area occupied by Synertek #1 was in agricultural use until 1974 when Synertek, Inc. began operation as a semiconductor manufacturing firm. Honeywell Inc. acquired Synertek as a wholly owned subsidiary in 1979. Synertek manufactured semiconductor products in Synertek Building #1 from March 1978 to February 1985. A variety of solvents were used in the manufacturing process and some were stored with other chemicals in underground tanks or vaults. Wastewater from the underground neutralization system was discharged to the sanitary sewer. Two of the three tank systems were removed in 1985. The building was vacant from 1985 until 1989, when it was leased to Media Publications, Inc. and Westmar Printing Company. HISTORY OF SITE INVESTIGATIONS In 1982, Synertek submitted a Facility Questionnaire to RWQCB staff describing Synertek #'s underground neutralization systems, sumps, and tanks. Based on these submittals, RWQCB staff required initiation of subsurface pollution characterization at Synertek #1 in 1982. This remedial investigation (RI) type work has been ongoing for the last eight years. Interim remedial actions began at Synertek #1 in 1985 with the excavation and removal of the solvent tank and the neutralization tanks. The additional interim remedial actions of groundwater extraction and treatment began at Synertek #1 in 1987. These interim actions were performed at RWQCB request. In 1985, Conestoga-Rovers and Associates were retained by Honeywell to assist in the investigation. Studies continued to define the horizontal and vertical extent of solvent plumes in the shallow ground water at the site. Soil contamination was studied

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNERTEK, INC. (BUILDING 1) (Continued)**

**1000219435**

near the excavation sites. A well search for abandoned agricultural wells within 1/2 mile of the site was conducted in February 1986. The search was extended to one mile north of the site in November 1989. A formal RI workplan was approved in June 1989. The final version of the RI was submitted in October 1990. The feasibility study (FS) evaluated the interim remedial actions that have been ongoing for the last three years and alternatives for the final remedial action. The remedial investigation/feasibility study (RI/FS) reports summarize the last eight years of the RI and the last five years of the interim remedial actions. The final version of the FS was submitted in January 1991. HISTORY OF ENFORCEMENT ACTIONS Synertek #1 has been under RWQCB orders since 1987. Honeywell and The RREEF Funds are the only identified responsible parties associated with the release of pollutants at this site. Honeywell has accepted responsibility for the site cleanup. The summary of the enforcement history for the site is as follows: - Oct. 6, 1982: Synertek submitted completed RWQCB Facility Questionnaire - May 20, 1987: RWQCB adopted NPDES Permit No. CA0029211 (Order No. 87-050) for the discharge of extracted ground water - July 15, 1987: RWQCB adopted Order No. 87-084 issuing Site Cleanup Requirements - June 1988: EPA proposed Synertek #1 for the NPL - June 21, 1989: RWQCB adopted Order No. 89-134 amending Site Cleanup Requirements and approving the RI/FS workplan - Sept. 1989: EPA listed Synertek #1 on the NPL - March 1991: RWQCB adopted Order No. 91-051 issuing the Final Remedial Action Plan A Record of Decision addressing Operable Unit 01 of the Synertek, Inc. Building #1 site was completed in June 1991.

CERCLIS Assessment History:

Action Code: 001  
Action: DISCOVERY  
Date Started: / /  
Date Completed: 05/01/86  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 04/01/87  
Priority Level: Low priority for further assessment  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: SITE INSPECTION  
Date Started: / /  
Date Completed: 06/01/87

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNERTEK, INC. (BUILDING 1) (Continued)**

**1000219435**

Priority Level: Low priority for further assessment  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: HAZARD RANKING SYSTEM PACKAGE  
Date Started: / /  
Date Completed: 06/01/87  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: PROPOSAL TO NATIONAL PRIORITIES LIST  
Date Started: / /  
Date Completed: 06/24/88  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: STATE ORDER  
Date Started: / /  
Date Completed: 06/21/89  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: State Enforcement  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: REMOVAL ASSESSMENT  
Date Started: 08/03/89  
Date Completed: 08/03/89  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNERTEK, INC. (BUILDING 1) (Continued)**

**1000219435**

Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: FINAL LISTING ON NATIONAL PRIORITIES LIST  
Date Started: / /  
Date Completed: 10/04/89  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH  
Date Started: 08/04/89  
Date Completed: 03/15/90  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: Federal Enforcement  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002  
Action: REMOVAL ASSESSMENT  
Date Started: 02/18/91  
Date Completed: 02/18/91  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002  
Action: STATE ORDER  
Date Started: / /  
Date Completed: 03/20/91  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: State Enforcement  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNERTEK, INC. (BUILDING 1) (Continued)**

**1000219435**

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
Date Started: 06/21/89  
Date Completed: 06/28/91  
Priority Level: Not reported  
Operable Unit: OVERALL SITE  
Primary Responsibility: PRP Response Under State  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION  
Date Started: 06/28/91  
Date Completed: 06/28/91  
Priority Level: Not reported  
Operable Unit: OVERALL SITE  
Primary Responsibility: PRP Response Under State  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN  
Date Started: 06/28/91  
Date Completed: 06/28/91  
Priority Level: Not reported  
Operable Unit: OVERALL SITE  
Primary Responsibility: PRP Response Under State  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: RECORD OF DECISION  
Date Started: / /  
Date Completed: 06/28/91  
Priority Level: Final Remedy Selected at Site  
Operable Unit: OVERALL SITE  
Primary Responsibility: Federal Enforcement  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNERTEK, INC. (BUILDING 1) (Continued)**

**1000219435**

Action Code: 002  
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN  
Date Started: 06/28/91  
Date Completed: 07/01/91  
Priority Level: Not reported  
Operable Unit: OVERALL SITE  
Primary Responsibility: PRP Response Under State  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002  
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION  
Date Started: 07/01/91  
Date Completed: 03/25/92  
Priority Level: Not reported  
Operable Unit: OVERALL SITE  
Primary Responsibility: PRP Response Under State  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: PRELIMINARY CLOSE-OUT REPORT PREPARED  
Date Started: / /  
Date Completed: 03/25/92  
Priority Level: Not reported  
Operable Unit: OVERALL SITE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: ADMINISTRATIVE ORDER ON CONSENT  
Date Started: / /  
Date Completed: 09/28/92  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: Federal Enforcement  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: PREPARATION OF COST DOCUMENT PACKAGE  
Date Started: 03/01/95  
Date Completed: 08/23/95

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNERTEK, INC. (BUILDING 1) (Continued)**

**1000219435**

Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: Federal Enforcement  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: FIVE-YEAR REVIEW  
Date Started: / /  
Date Completed: 10/31/96  
Priority Level: Not reported  
Operable Unit: OVERALL SITE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002  
Action: FIVE-YEAR REVIEW  
Date Started: 04/22/02  
Date Completed: 09/30/02  
Priority Level: Not reported  
Operable Unit: OVERALL SITE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003  
Action: FIVE-YEAR REVIEW  
Date Started: / /  
Date Completed: 09/28/07  
Priority Level: Not reported  
Operable Unit: OVERALL SITE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 004  
Action: FIVE-YEAR REVIEW  
Date Started: / /  
Date Completed: 09/27/12  
Priority Level: Not reported  
Operable Unit: OVERALL SITE  
Primary Responsibility: EPA Fund-Financed

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNERTEK, INC. (BUILDING 1) (Continued)**

**1000219435**

Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001  
Action: OPERATIONS AND MAINTENANCE  
Date Started: 06/28/91  
Date Completed: / /  
Priority Level: Not reported  
Operable Unit: OVERALL SITE  
Primary Responsibility: PRP Response Under State  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002  
Action: OPERATIONS AND MAINTENANCE  
Date Started: 03/25/92  
Date Completed: / /  
Priority Level: Not reported  
Operable Unit: OVERALL SITE  
Primary Responsibility: PRP Response Under State  
Planning Status: Primary  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Federal Register Details:

Fed Register Date: 10/04/89  
Fed Register Volume: 54  
Page Number: 41015

Fed Register Date: 06/24/88  
Fed Register Volume: 53  
Page Number: 23988

[Click this hyperlink](#) while viewing on your computer to access  
6 additional US CERCLIS Financial: record(s) in the EDR Site Report.

RCRA-SQG:

Date form received by agency: 07/09/2010  
Facility name: CRYSTAL SOLAR INC  
Facility address: 3050 CORONADO DR  
SANTA CLARA, CA 95054  
EPA ID: CAD990832735  
Contact: ALLEN LOUIE  
Contact address: 3050 CORONADO DR  
SANTA CLARA, CA 95054  
Contact country: US  
Contact telephone: 408-490-1356

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNERTEK, INC. (BUILDING 1) (Continued)**

**1000219435**

Contact email: ALOUIE@XTALSOLAR.COM  
EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: JIM LINDSEY  
Owner/operator address: 18 CYPRESS AVE  
KENTFIELD, CA 94904  
Owner/operator country: US  
Owner/operator telephone: 415-987-7526  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 01/01/1998  
Owner/Op end date: Not reported

Owner/operator name: TS RAVI  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 08/01/2008  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Universal Waste Summary:

Waste type: Batteries  
Accumulated waste on-site: No  
Generated waste on-site: Not reported  
Waste type: Lamps  
Accumulated waste on-site: No  
Generated waste on-site: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNERTEK, INC. (BUILDING 1) (Continued)**

**1000219435**

Waste type: Pesticides  
Accumulated waste on-site: No  
Generated waste on-site: Not reported

Waste type: Thermostats  
Accumulated waste on-site: No  
Generated waste on-site: Not reported

Historical Generators:

Date form received by agency: 12/19/2008  
Site name: CRYSTAL SOLAR  
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996  
Site name: SYNERTEK#  
Classification: Small Quantity Generator

Date form received by agency: 07/24/1980  
Site name: SYNERTEK#  
Classification: Large Quantity Generator

Hazardous Waste Summary:

Waste code: 551  
Waste name: 551

Waste code: U134  
Waste name: HYDROFLUORIC ACID (C,T)

Violation Status: No violations found

US ENG CONTROLS:

EPA ID: CAD990832735  
Site ID: 0902620  
Name: SYNERTEK, INC. (BUILDING 1)  
Address: 3050 CORONADO BLVD  
SANTA CLARA, CA 95051  
EPA Region: 09  
County: SANTA CLARA  
Event Code: Not reported  
Actual Date: 06/30/1991

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 06/28/1991  
Operable Unit: 01  
Contaminated Media : Groundwater  
Engineering Control: Air Stripping

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 06/28/1991  
Operable Unit: 01  
Contaminated Media : Groundwater  
Engineering Control: Discharge

Action ID: 001  
Action Name: RECORD OF DECISION

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNERTEK, INC. (BUILDING 1) (Continued)**

**1000219435**

Action Completion date: 06/28/1991  
Operable Unit: 01  
Contaminated Media : Groundwater  
Engineering Control: Extraction

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 06/28/1991  
Operable Unit: 01  
Contaminated Media : Groundwater  
Engineering Control: Monitoring

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 06/28/1991  
Operable Unit: 01  
Contaminated Media : Groundwater  
Engineering Control: Operations & Maintenance (O&M)

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 06/28/1991  
Operable Unit: 01  
Contaminated Media : Groundwater  
Engineering Control: Publicly Owned Treatment Works (POTW)

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 06/28/1991  
Operable Unit: 01  
Contaminated Media : Groundwater  
Engineering Control: Reinjection

**US INST CONTROL:**

EPA ID: CAD990832735  
Site ID: 0902620  
Name: SYNERTEK, INC. (BUILDING 1)  
Action Name: RECORD OF DECISION  
Address: 3050 CORONADO BLVD  
SANTA CLARA, CA 95051

EPA Region: 09  
County: SANTA CLARA  
Event Code: Not reported  
Inst. Control: Deed Restriction  
Actual Date: 06/30/1991  
Comple. Date: 06/28/1991  
Operable Unit: 01  
Contaminated Media : Groundwater

EPA ID: CAD990832735  
Site ID: 0902620  
Name: SYNERTEK, INC. (BUILDING 1)  
Action Name: RECORD OF DECISION  
Address: 3050 CORONADO BLVD  
SANTA CLARA, CA 95051  
EPA Region: 09

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SYNERTEK, INC. (BUILDING 1) (Continued)**

**1000219435**

County: SANTA CLARA  
Event Code: Not reported  
Inst. Control: Groundwater use/well drilling regulation  
Actual Date: 06/30/1991  
Comple. Date: 06/28/1991  
Operable Unit: 01  
Contaminated Media : Groundwater

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

FINDS:

Registry ID: 110055664160

Environmental Interest/Information System  
Registry ID: 110002903886

Environmental Interest/Information System

California Department of Toxic Substances Control EnviroStor System (DTSC-EnviroStor) is an online search and Geographic Information System (GIS) tool for identifying sites that have known contamination or sites for which there may be reasons to investigate further. The EnviroStor database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

PRP name: HONEYWELL, INC.

**B8**  
**SE**  
**< 1/8**  
**0.047 mi.**  
**249 ft.**

**MISSION INVESTORS, LLC (SHELL)**  
**2350 MISSION COLLEGE BLVD, 365**  
**SANTA CLARA, CA**  
**Site 1 of 2 in cluster B**

**CA AST A100322954**  
**N/A**

**Relative:**  
**Higher**

AST:  
Owner: Not reported  
Total Gallons: 1,385  
Certified Unified Program Agencies: Santa Clara City

**Actual:**  
**27 ft.**

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**B9**  
**SE**  
 < 1/8  
 0.047 mi.  
 249 ft.

**2350 MISSION INVESTORS LLC**  
**2350 MISSION COLLEGE BLVD**  
**SANTA CLARA, CA 95054**

**CA SWEEPS UST**    **U003783640**  
**CA EMI**            **N/A**

**Site 2 of 2 in cluster B**

**Relative:**  
**Higher**

SWEEPS UST:

Status: Active  
 Comp Number: 91187  
 Number: 9  
 Board Of Equalization: 44-033318  
 Referral Date: 05-27-93  
 Action Date: 01-21-94  
 Created Date: 01-21-94  
 Owner Tank Id: 91187T001  
 SWRCB Tank Id: 43-010-091187-000001  
 Tank Status: A  
 Capacity: 971  
 Active Date: 05-27-93  
 Tank Use: M.V. FUEL  
 STG: P  
 Content: DIESEL  
 Number Of Tanks: 1

**Actual:**  
 27 ft.

EMI:

Year: 2007  
 County Code: 43  
 Air Basin: SF  
 Facility ID: 17717  
 Air District Name: BA  
 SIC Code: 6531  
 Air District Name: BAY AREA AQMD  
 Community Health Air Pollution Info System: Not reported  
 Consolidated Emission Reporting Rule: Not reported  
 Total Organic Hydrocarbon Gases Tons/Yr: .008  
 Reactive Organic Gases Tons/Yr: .0066936  
 Carbon Monoxide Emissions Tons/Yr: .021  
 NOX - Oxides of Nitrogen Tons/Yr: .099  
 SOX - Oxides of Sulphur Tons/Yr: 0  
 Particulate Matter Tons/Yr: .007  
 Part. Matter 10 Micrometers & Smlr Tons/Yr: .006832

Year: 2008  
 County Code: 43  
 Air Basin: SF  
 Facility ID: 17717  
 Air District Name: BA  
 SIC Code: 6531  
 Air District Name: BAY AREA AQMD  
 Community Health Air Pollution Info System: Not reported  
 Consolidated Emission Reporting Rule: Not reported  
 Total Organic Hydrocarbon Gases Tons/Yr: .008  
 Reactive Organic Gases Tons/Yr: .0066936  
 Carbon Monoxide Emissions Tons/Yr: .021  
 NOX - Oxides of Nitrogen Tons/Yr: .099  
 SOX - Oxides of Sulphur Tons/Yr: 0  
 Particulate Matter Tons/Yr: .007  
 Part. Matter 10 Micrometers & Smlr Tons/Yr: .006832

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2350 MISSION INVESTORS LLC (Continued)**

**U003783640**

Year: 2009  
County Code: 43  
Air Basin: SF  
Facility ID: 17717  
Air District Name: BA  
SIC Code: 6531  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 5.000000000000001E-3  
Reactive Organic Gases Tons/Yr: 4.183499999999997E-3  
Carbon Monoxide Emissions Tons/Yr: 1.299999999999999E-2  
NOX - Oxides of Nitrogen Tons/Yr: 5.999999999999998E-2  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 4.0983606557376999E-3  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 4.000000000000001E-3

Year: 2010  
County Code: 43  
Air Basin: SF  
Facility ID: 17717  
Air District Name: BA  
SIC Code: 6531  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 5.000000000000001E-3  
Reactive Organic Gases Tons/Yr: 4.183499999999997E-3  
Carbon Monoxide Emissions Tons/Yr: 1.299999999999999E-2  
NOX - Oxides of Nitrogen Tons/Yr: 5.999999999999998E-2  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 4.0983606557376999E-3  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 4.000000000000001E-3

Year: 2011  
County Code: 43  
Air Basin: SF  
Facility ID: 17717  
Air District Name: BA  
SIC Code: 6531  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.008  
Reactive Organic Gases Tons/Yr: 0.0066936  
Carbon Monoxide Emissions Tons/Yr: 0.023  
NOX - Oxides of Nitrogen Tons/Yr: 0.107  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2012  
County Code: 43  
Air Basin: SF  
Facility ID: 17717  
Air District Name: BA  
SIC Code: 6531

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**2350 MISSION INVESTORS LLC (Continued)**

**U003783640**

Air District Name: BAY AREA AQMD  
 Community Health Air Pollution Info System: Not reported  
 Consolidated Emission Reporting Rule: Not reported  
 Total Organic Hydrocarbon Gases Tons/Yr: 0.008  
 Reactive Organic Gases Tons/Yr: 0.0066936  
 Carbon Monoxide Emissions Tons/Yr: 0.023  
 NOX - Oxides of Nitrogen Tons/Yr: 0.107  
 SOX - Oxides of Sulphur Tons/Yr: 0  
 Particulate Matter Tons/Yr: 0.0081967213115  
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0.008

**C10  
 NNW  
 1/8-1/4  
 0.140 mi.  
 741 ft.**

**FIRE DEPARTMENT, STATION #8  
 2400 AGNEW ROAD  
 SANTA CLARA, CA 95054**

**CA FID UST S101594653  
 N/A**

**Site 1 of 13 in cluster C**

**Relative:  
 Lower**

CA FID UST:  
 Facility ID: 43012262  
 Regulated By: UTNKA  
 Regulated ID: Not reported  
 Cortese Code: Not reported  
 SIC Code: Not reported  
 Facility Phone: Not reported  
 Mail To: Not reported  
 Mailing Address: 1500 WARBURTON AVENUE  
 Mailing Address 2: Not reported  
 Mailing City,St,Zip: SANTA CLARA 95054  
 Contact: Not reported  
 Contact Phone: Not reported  
 DUNS Number: Not reported  
 NPDES Number: Not reported  
 EPA ID: Not reported  
 Comments: Not reported  
 Status: Active

**Actual:  
 24 ft.**

**C11  
 NNW  
 1/8-1/4  
 0.140 mi.  
 741 ft.**

**FIRE STATION #8  
 2400 AGNEW RD  
 SANTA CLARA, CA 95054**

**CA LUST U001601776  
 CA HIST LUST N/A  
 CA HIST UST**

**Site 2 of 13 in cluster C**

**Relative:  
 Lower**

LUST REG 2:  
 Region: 2  
 Facility Id: Not reported  
 Facility Status: Case Closed  
 Case Number: 06S1W22L02f  
 How Discovered: Not reported  
 Leak Cause: Not reported  
 Leak Source: Not reported  
 Date Leak Confirmed: Not reported  
 Oversight Program: LUST  
 Prelim. Site Assesment Wokplan Submitted: Not reported  
 Preliminary Site Assesment Began: 4/28/1994  
 Pollution Characterization Began: Not reported  
 Pollution Remediation Plan Submitted: Not reported

**Actual:  
 24 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIRE STATION #8 (Continued)**

**U001601776**

Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

**HIST LUST SANTA CLARA:**

Region: SANTA CLARA  
Region Code: 2  
SCVWD ID: 06S1W22L02  
Oversite Agency: SCVWD  
Date Listed: 1996-03-11 00:00:00  
Closed Date: 2000-08-17 00:00:00

**HIST UST:**

Region: STATE  
Facility ID: 00000011921  
Facility Type: Other  
Other Type: GOVERNMENT  
Total Tanks: 0001  
Contact Name: JOHN G. STRUNK  
Telephone: 4089843242  
Owner Name: CITY OF SANTA CLARA  
Owner Address: 1500 WARBURTON AVE  
Owner City,St,Zip: SANTA CLARA, CA 95050

Tank Num: 001  
Container Num: 1  
Year Installed: 1976  
Tank Capacity: 00002000  
Tank Used for: PRODUCT  
Type of Fuel: DIESEL  
Tank Construction: Not reported  
Leak Detection: None

**C12  
NNW  
1/8-1/4  
0.140 mi.  
741 ft.**

**FIRE DEPARTMENT, STATION #8  
2400 AGNEW ROAD  
SANTA CARA, CA 95054  
Site 3 of 13 in cluster C**

**CA SWEEPS UST S106926187  
N/A**

**Relative:  
Lower  
Actual:  
24 ft.**

**SWEEPS UST:**  
Status: Active  
Comp Number: 11921  
Number: 4  
Board Of Equalization: Not reported  
Referral Date: 01-08-91  
Action Date: 01-08-91  
Created Date: 01-08-91  
Owner Tank Id: 11921T001  
SWRCB Tank Id: 43-010-011921-000001  
Tank Status: A  
Capacity: 2000  
Active Date: 01-08-91  
Tank Use: M.V. FUEL  
STG: P  
Content: DIESEL  
Number Of Tanks: 1

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**C13**      **FIRE STATION #8**  
**NNW**      **2400 AGNEW RD**  
**1/8-1/4**    **SANTA CLARA, CA 95054**  
**0.140 mi.**  
**741 ft.**    **Site 4 of 13 in cluster C**

**CA HIST CORTESE**    **S102429967**  
**CA LUST**              **N/A**

**Relative:**      HIST CORTESE:  
**Lower**            Region:                      CORTESE  
                         Facility County Code:    43  
**Actual:**            Reg By:                      LTNKA  
**24 ft.**                Reg Id:                        43-1895

LUST:  
Region:                      STATE  
Global Id:                    T0608501813  
Latitude:                    37.3896  
Longitude:                  -121.968  
Case Type:                  LUST Cleanup Site  
Status:                      Completed - Case Closed  
Status Date:                08/17/2000  
Lead Agency:                SANTA CLARA COUNTY LOP  
Case Worker:                UST  
Local Agency:                SANTA CLARA COUNTY LOP  
RB Case Number:            Not reported  
LOC Case Number:           Not reported  
File Location:                Stored electronically as an E-file  
Potential Media Affect:    Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Diesel  
Site History:                Not reported

[Click here to access the California GeoTracker records for this facility:](#)

Contact:  
Global Id:                    T0608501813  
Contact Type:                Local Agency Caseworker  
Contact Name:                UST CASE WORKER  
Organization Name:         SANTA CLARA COUNTY LOP  
Address:                      1555 Berger Drive, Suite 300  
City:                          SAN JOSE  
Email:                         Not reported  
Phone Number:              4089183400  
  
Global Id:                    T0608501813  
Contact Type:                Regional Board Caseworker  
Contact Name:                ZSC  
Organization Name:         SAN FRANCISCO BAY RWQCB (REGION 2)  
Address:                      1515 CLAY STREET, SUITE 1400  
City:                          OAKLAND  
Email:                         Not reported  
Phone Number:              Not reported

Status History:  
Global Id:                    T0608501813  
Status:                      Completed - Case Closed  
Status Date:                08/17/2000  
  
Global Id:                    T0608501813  
Status:                      Open - Site Assessment  
Status Date:                04/28/1994

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIRE STATION #8 (Continued)**

**S102429967**

Global Id: T0608501813  
Status: Open - Case Begin Date  
Status Date: 04/28/1994

Regulatory Activities:

Global Id: T0608501813  
Action Type: ENFORCEMENT  
Date: 03/11/1996  
Action: Notice of Responsibility - #40313

Global Id: T0608501813  
Action Type: RESPONSE  
Date: 03/06/1996  
Action: Monitoring Report - Quarterly

Global Id: T0608501813  
Action Type: RESPONSE  
Date: 03/06/1996  
Action: Soil and Water Investigation Report

Global Id: T0608501813  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Reported

Global Id: T0608501813  
Action Type: ENFORCEMENT  
Date: 01/05/1995  
Action: Staff Letter - #32469

Global Id: T0608501813  
Action Type: ENFORCEMENT  
Date: 06/02/1994  
Action: Staff Letter - #32471

LUST SANTA CLARA:

Region: SANTA CLARA  
SCVWD ID: 06S1W22L02F  
Date Closed: 08/17/2000  
EDR Link ID: 06S1W22L02F

**C14** **GREAT AMERICA THEME PARK**  
**NNW** **2401 AGNEW ROAD 886**  
**1/8-1/4** **SANTA CLARA, CA 95054**  
**0.142 mi.**  
**750 ft.** **Site 5 of 13 in cluster C**

**CA UST** **U004126327**  
**N/A**

**Relative:** **UST:**  
**Lower** Facility ID: 43-010-600645  
Latitude: 37.39498  
**Actual:** Longitude: -121.9681839  
**23 ft.** Permitting Agency: SANTA CLARA, CITY OF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**C15**  
**NNW**  
**1/8-1/4**  
**0.142 mi.**  
**750 ft.**

**MARRIOTT'S GREAT AMERICA**  
**2401 AGNEW RD**  
**SANTA CLARA, CA 95052**

**CA HIST UST**    **U001601904**  
**N/A**

**Site 6 of 13 in cluster C**

**Relative:**  
**Lower**

HIST UST:

**Actual:**  
**23 ft.**

Region: STATE  
Facility ID: 00000004125  
Facility Type: Other  
Other Type: AMUSEMENT PARK  
Total Tanks: 0009  
Contact Name: JAMES A. MORROW (VP/GM)  
Telephone: 4089881776  
Owner Name: MARRIOTT CORPORATION  
Owner Address: MARRIOTT DRIVE  
Owner City,St,Zip: WASHINGTON, DC 20058

Tank Num: 001  
Container Num: 1  
Year Installed: 1974  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: Groundwater Monitoring Well

Tank Num: 002  
Container Num: 9  
Year Installed: 1975  
Tank Capacity: 00000250  
Tank Used for: WASTE  
Type of Fuel: WASTE OIL  
Tank Construction: 4 inches  
Leak Detection: None

Tank Num: 003  
Container Num: 8  
Year Installed: 1975  
Tank Capacity: 00000150  
Tank Used for: WASTE  
Type of Fuel: WASTE OIL  
Tank Construction: 4 inches  
Leak Detection: None

Tank Num: 004  
Container Num: 7  
Year Installed: 1979  
Tank Capacity: 00012000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: Groundwater Monitoring Well

Tank Num: 005  
Container Num: 6  
Year Installed: 1979  
Tank Capacity: 00012000  
Tank Used for: PRODUCT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MARRIOTT'S GREAT AMERICA (Continued)**

**U001601904**

Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: Groundwater Monitoring Well

Tank Num: 006  
Container Num: 5  
Year Installed: 1979  
Tank Capacity: 00012000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: Groundwater Monitoring Well

Tank Num: 007  
Container Num: 4  
Year Installed: 1979  
Tank Capacity: 00012000  
Tank Used for: PRODUCT  
Type of Fuel: PREMIUM  
Tank Construction: Not reported  
Leak Detection: Groundwater Monitoring Well

Tank Num: 008  
Container Num: 3  
Year Installed: 1983  
Tank Capacity: 00000550  
Tank Used for: PRODUCT  
Type of Fuel: DIESEL  
Tank Construction: Not reported  
Leak Detection: Groundwater Monitoring Well

Tank Num: 009  
Container Num: 2  
Year Installed: 1975  
Tank Capacity: 00008000  
Tank Used for: PRODUCT  
Type of Fuel: DIESEL  
Tank Construction: Not reported  
Leak Detection: Groundwater Monitoring Well

**C16**  
**NNW**  
**1/8-1/4**  
**0.142 mi.**  
**750 ft.**

**PARAMOUNT'S GREAT AMERICA**  
**2401 AGNEW ROAD**  
**SANTA CARA, CA 95054**  
**Site 7 of 13 in cluster C**

**CA SWEEPS UST** **S106930488**  
**N/A**

**Relative:**  
**Lower**

SWEEPS UST:  
Status: Active  
Comp Number: 4125  
Number: 1  
Board Of Equalization: Not reported  
Referral Date: 06-11-93  
Action Date: 06-11-93  
Created Date: 05-09-91  
Owner Tank Id: 4125T006  
SWRCB Tank Id: 43-010-004125-000006  
Tank Status: A  
Capacity: 6000

**Actual:**  
**23 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PARAMOUNT'S GREAT AMERICA (Continued)**

**S106930488**

Active Date: 05-09-91  
Tank Use: M.V. FUEL  
STG: P  
Content: LEADED  
Number Of Tanks: 5

Status: Active  
Comp Number: 4125  
Number: 1  
Board Of Equalization: Not reported  
Referral Date: 06-11-93  
Action Date: 06-11-93  
Created Date: 05-09-91  
Owner Tank Id: 4125T007  
SWRCB Tank Id: 43-010-004125-000007  
Tank Status: A  
Capacity: 10000  
Active Date: 02-19-93  
Tank Use: M.V. FUEL  
STG: P  
Content: REG UNLEADED  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 4125  
Number: 1  
Board Of Equalization: Not reported  
Referral Date: 06-11-93  
Action Date: 06-11-93  
Created Date: 05-09-91  
Owner Tank Id: 4125T008  
SWRCB Tank Id: 43-010-004125-000008  
Tank Status: A  
Capacity: 520  
Active Date: 02-19-93  
Tank Use: PETROLEUM  
STG: P  
Content: DIESEL  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 4125  
Number: 1  
Board Of Equalization: Not reported  
Referral Date: 06-11-93  
Action Date: 06-11-93  
Created Date: 05-09-91  
Owner Tank Id: 9  
SWRCB Tank Id: 43-010-004125-000009  
Tank Status: A  
Capacity: 8000  
Active Date: 02-19-93  
Tank Use: M.V. FUEL  
STG: P  
Content: DIESEL  
Number Of Tanks: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**PARAMOUNT'S GREAT AMERICA (Continued)**

**S106930488**

Status: Active  
 Comp Number: 4125  
 Number: 1  
 Board Of Equalization: Not reported  
 Referral Date: 06-11-93  
 Action Date: 06-11-93  
 Created Date: 05-09-91  
 Owner Tank Id: 4125T010  
 SWRCB Tank Id: 43-010-004125-000010  
 Tank Status: A  
 Capacity: 520  
 Active Date: 02-19-93  
 Tank Use: PETROLEUM  
 STG: W  
 Content: GASOHOL  
 Number Of Tanks: Not reported

**C17  
 NNW  
 1/8-1/4  
 0.142 mi.  
 750 ft.**

**GREAT AMERICA THEME PARK  
 2401 AGNEW ROAD 881  
 SANTA CLARA, CA 95054  
 Site 8 of 13 in cluster C**

**CA UST U004118120  
 N/A**

**Relative:  
 Lower**

UST:  
 Facility ID: 43-010-600647  
 Latitude: 37.39498  
 Longitude: -121.9681839  
 Permitting Agency: SANTA CLARA, CITY OF

**Actual:  
 23 ft.**

**C18  
 NNW  
 1/8-1/4  
 0.142 mi.  
 750 ft.**

**PARAMOUNTS GREAT AMERICA  
 2401 AGNEW RD  
 SANTA CLARA, CA 95054  
 Site 9 of 13 in cluster C**

**RCRA-SQG 1000362309  
 FINDS CAT080029663  
 CA SWEEPS UST  
 CA EMI**

**Relative:  
 Lower**

RCRA-SQG:  
 Date form received by agency: 08/12/1994  
 Facility name: PARAMOUNTS GREAT AMERICA  
 Facility address: 2401 AGNEW RD  
 SANTA CLARA, CA 950540000  
 EPA ID: CAT080029663  
 Mailing address: PO BOX 1776  
 SANTA CLARA, CA 950520000  
 Contact: EDWARD L ROMERO  
 Contact address: Not reported  
 Not reported  
 Contact country: Not reported  
 Contact telephone: (408) 988-1776  
 Telephone ext.: 4701  
 Contact email: Not reported  
 EPA Region: 09  
 Classification: Small Small Quantity Generator  
 Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

**Actual:  
 23 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PARAMOUNTS GREAT AMERICA (Continued)**

**1000362309**

hazardous waste at any time

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 11/18/1993  
Site name: PARAMOUNTS GREAT AMERICA  
Classification: Small Quantity Generator

Date form received by agency: 01/29/1992  
Site name: GREAT AMERICA  
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002955400

Environmental Interest/Information System

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

SWEEPS UST:

Status: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PARAMOUNTS GREAT AMERICA (Continued)**

**1000362309**

Comp Number: 4125  
Number: Not reported  
Board Of Equalization: Not reported  
Referral Date: Not reported  
Action Date: Not reported  
Created Date: Not reported  
Owner Tank Id: Not reported  
SWRCB Tank Id: 43-010-004125-000001  
Tank Status: Not reported  
Capacity: 10000  
Active Date: Not reported  
Tank Use: M.V. FUEL  
STG: PRODUCT  
Content: REG UNLEADED  
Number Of Tanks: 5

Status: Not reported  
Comp Number: 4125  
Number: Not reported  
Board Of Equalization: Not reported  
Referral Date: Not reported  
Action Date: Not reported  
Created Date: Not reported  
Owner Tank Id: Not reported  
SWRCB Tank Id: 43-010-004125-000002  
Tank Status: Not reported  
Capacity: 8000  
Active Date: Not reported  
Tank Use: M.V. FUEL  
STG: PRODUCT  
Content: DIESEL  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 4125  
Number: Not reported  
Board Of Equalization: Not reported  
Referral Date: Not reported  
Action Date: Not reported  
Created Date: Not reported  
Owner Tank Id: Not reported  
SWRCB Tank Id: 43-010-004125-000003  
Tank Status: Not reported  
Capacity: 550  
Active Date: Not reported  
Tank Use: M.V. FUEL  
STG: PRODUCT  
Content: DIESEL  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 4125  
Number: Not reported  
Board Of Equalization: Not reported  
Referral Date: Not reported  
Action Date: Not reported  
Created Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PARAMOUNTS GREAT AMERICA (Continued)**

**1000362309**

Owner Tank Id: Not reported  
SWRCB Tank Id: 43-010-004125-000004  
Tank Status: Not reported  
Capacity: 150  
Active Date: Not reported  
Tank Use: OIL  
STG: WASTE  
Content: WASTE OIL  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 4125  
Number: Not reported  
Board Of Equalization: Not reported  
Referral Date: Not reported  
Action Date: Not reported  
Created Date: Not reported  
Owner Tank Id: Not reported  
SWRCB Tank Id: 43-010-004125-000005  
Tank Status: Not reported  
Capacity: 250  
Active Date: Not reported  
Tank Use: OIL  
STG: WASTE  
Content: WASTE OIL  
Number Of Tanks: Not reported

**EMI:**

Year: 1997  
County Code: 43  
Air Basin: SF  
Facility ID: 10647  
Air District Name: BA  
SIC Code: 7996  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 12  
Reactive Organic Gases Tons/Yr: 10  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1998  
County Code: 43  
Air Basin: SF  
Facility ID: 10647  
Air District Name: BA  
SIC Code: 7996  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 3  
Reactive Organic Gases Tons/Yr: 2  
Carbon Monoxide Emissions Tons/Yr: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PARAMOUNTS GREAT AMERICA (Continued)**

**1000362309**

NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1999  
County Code: 43  
Air Basin: SF  
Facility ID: 10647  
Air District Name: BA  
SIC Code: 7996  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2000  
County Code: 43  
Air Basin: SF  
Facility ID: 10647  
Air District Name: BA  
SIC Code: 7996  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2001  
County Code: 43  
Air Basin: SF  
Facility ID: 10647  
Air District Name: BA  
SIC Code: 7996  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PARAMOUNTS GREAT AMERICA (Continued)**

**1000362309**

County Code: 43  
Air Basin: SF  
Facility ID: 10647  
Air District Name: BA  
SIC Code: 7996  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2003  
County Code: 43  
Air Basin: SF  
Facility ID: 10647  
Air District Name: BA  
SIC Code: 7996  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 1  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2004  
County Code: 43  
Air Basin: SF  
Facility ID: 10647  
Air District Name: BA  
SIC Code: 7996  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1.669  
Reactive Organic Gases Tons/Yr: 1.2063813  
Carbon Monoxide Emissions Tons/Yr: 0.049  
NOX - Oxides of Nitrogen Tons/Yr: 0.223  
SOX - Oxides of Sulphur Tons/Yr: 0.002  
Particulate Matter Tons/Yr: 0.016  
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0.015616

Year: 2005  
County Code: 43  
Air Basin: SF  
Facility ID: 10647  
Air District Name: BA  
SIC Code: 7996  
Air District Name: BAY AREA AQMD

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PARAMOUNTS GREAT AMERICA (Continued)**

**1000362309**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.383
Reactive Organic Gases Tons/Yr:	.9231843
Carbon Monoxide Emissions Tons/Yr:	.004
NOX - Oxides of Nitrogen Tons/Yr:	.013
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	.001
Part. Matter 10 Micrometers & Smlr Tons/Yr:	.000976
Year:	2006
County Code:	43
Air Basin:	SF
Facility ID:	10647
Air District Name:	BA
SIC Code:	7996
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.428
Reactive Organic Gases Tons/Yr:	.4272876
Carbon Monoxide Emissions Tons/Yr:	.002
NOX - Oxides of Nitrogen Tons/Yr:	.008
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0
Year:	2007
County Code:	43
Air Basin:	SF
Facility ID:	10647
Air District Name:	BA
SIC Code:	7996
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.433
Reactive Organic Gases Tons/Yr:	.4314711
Carbon Monoxide Emissions Tons/Yr:	.014
NOX - Oxides of Nitrogen Tons/Yr:	.067
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	.004
Part. Matter 10 Micrometers & Smlr Tons/Yr:	.003904
Year:	2008
County Code:	43
Air Basin:	SF
Facility ID:	10647
Air District Name:	BA
SIC Code:	7996
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.625
Reactive Organic Gases Tons/Yr:	.6218031
Carbon Monoxide Emissions Tons/Yr:	.034
NOX - Oxides of Nitrogen Tons/Yr:	.142

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PARAMOUNTS GREAT AMERICA (Continued)**

**1000362309**

SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: .011  
Part. Matter 10 Micrometers & Smlr Tons/Yr: .010736

Year: 2009  
County Code: 43  
Air Basin: SF  
Facility ID: 10647  
Air District Name: BA  
SIC Code: 7996  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.4010000000000002  
Reactive Organic Gases Tons/Yr: 0.39488790000000001  
Carbon Monoxide Emissions Tons/Yr: 7.499999999999997E-2  
NOX - Oxides of Nitrogen Tons/Yr: 0.371  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 2.4172131147540899E-2  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 2.359199999999998E-2

Year: 2010  
County Code: 43  
Air Basin: SF  
Facility ID: 10647  
Air District Name: BA  
SIC Code: 7996  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.5879999999999997  
Reactive Organic Gases Tons/Yr: 0.51686580000000004  
Carbon Monoxide Emissions Tons/Yr: 2.1000000000000001E-2  
NOX - Oxides of Nitrogen Tons/Yr: 0.104  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 6.1475409836065503E-3  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 6.0000000000000001E-3

Year: 2011  
County Code: 43  
Air Basin: SF  
Facility ID: 10647  
Air District Name: BA  
SIC Code: 7996  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.582  
Reactive Organic Gases Tons/Yr: 0.5118456  
Carbon Monoxide Emissions Tons/Yr: 0.004  
NOX - Oxides of Nitrogen Tons/Yr: 0.029  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2012  
County Code: 43

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**PARAMOUNTS GREAT AMERICA (Continued)**

**1000362309**

Air Basin: SF  
 Facility ID: 10647  
 Air District Name: BA  
 SIC Code: 7996  
 Air District Name: BAY AREA AQMD  
 Community Health Air Pollution Info System: Not reported  
 Consolidated Emission Reporting Rule: Not reported  
 Total Organic Hydrocarbon Gases Tons/Yr: 0.582  
 Reactive Organic Gases Tons/Yr: 0.5118456  
 Carbon Monoxide Emissions Tons/Yr: 0.004  
 NOX - Oxides of Nitrogen Tons/Yr: 0.029  
 SOX - Oxides of Sulphur Tons/Yr: 0  
 Particulate Matter Tons/Yr: 0.0010245901639  
 Part. Matter 10 Micrometers & Smllr Tons/Yr: 0.001

**C19  
 NNW  
 1/8-1/4  
 0.142 mi.  
 750 ft.**

**JOHN SHAWN PRODUCTION INC  
 2401 AGNEW RD FRONT GATE  
 SANTA CLARA, CA 95054**

**RCRA-SQG 1000857343  
 FINDS CAD983667569  
 CA HAZNET**

**Site 10 of 13 in cluster C**

**Relative:  
 Lower**

RCRA-SQG:

Date form received by agency: 05/07/1993

Facility name: JOHN SHAWN PRODUCTION INC

Facility address: 2401 AGNEW RD FRONT GATE

PHOTO BOOTH ONLY

SANTA CLARA, CA 95054

EPA ID: CAD983667569

Mailing address: AGNEW RD FRONT GATE

PHOTO BOOTH ONLY

SANTA CLARA, CA 95054

Contact: PATRICK CONNER

Contact address: 2401 AGNEW RD FRONT GATE PHOTO BOOTH ONLY

SANTA CLARA, CA 95054

Contact country: US

Contact telephone: (408) 988-1776

Contact email: Not reported

EPA Region: 09

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: JOHN SHAWN PRODUCTIONS INC

Owner/operator address: 129 SEA GIRT AVE  
 MANASQUAN, NJ 08736

Owner/operator country: Not reported

Owner/operator telephone: (908) 223-1190

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: Not reported

Owner/Op end date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JOHN SHAWN PRODUCTION INC (Continued)**

**1000857343**

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002898623

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

Year: 2002  
Gepaid: CAD983667569  
Contact: JOHN SHAWN PRODUCTIONS INC  
Telephone: 4089881776  
Mailing Name: Not reported  
Mailing Address: 2401 AGNEW RD FRNT GATE  
Mailing City,St,Zip: SANTA CLARA, CA 950541201  
Gen County: Not reported  
TSD EPA ID: CA0000084517  
TSD County: Not reported  
Waste Category: Photochemicals/photoprocessing waste  
Disposal Method: Transfer Station  
Tons: 0.45  
Facility County: Santa Clara

Year: 2002  
Gepaid: CAD983667569  
Contact: JOHN SHAWN PRODUCTIONS INC  
Telephone: 4089881776  
Mailing Name: Not reported  
Mailing Address: 2401 AGNEW RD FRNT GATE  
Mailing City,St,Zip: SANTA CLARA, CA 950541201  
Gen County: Not reported  
TSD EPA ID: CA0000084517

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JOHN SHAWN PRODUCTION INC (Continued)**

**1000857343**

TSD County: Not reported  
Waste Category: Photochemicals/photoprocessing waste  
Disposal Method: Transfer Station  
Tons: 0.45  
Facility County: Santa Clara

Year: 2000  
Gepaid: CAD983667569  
Contact: JOHN SHAWN PRODUCTIONS INC  
Telephone: 4089881776  
Mailing Name: Not reported  
Mailing Address: 2401 AGNEW RD FRNT GATE  
Mailing City,St,Zip: SANTA CLARA, CA 950541201  
Gen County: Not reported  
TSD EPA ID: CA0000084517  
TSD County: Not reported  
Waste Category: Photochemicals/photoprocessing waste  
Disposal Method: Transfer Station  
Tons: 0.06  
Facility County: Santa Clara

Year: 2000  
Gepaid: CAD983667569  
Contact: JOHN SHAWN PRODUCTIONS INC  
Telephone: 4089881776  
Mailing Name: Not reported  
Mailing Address: 2401 AGNEW RD FRNT GATE  
Mailing City,St,Zip: SANTA CLARA, CA 950541201  
Gen County: Not reported  
TSD EPA ID: CA0000084517  
TSD County: Not reported  
Waste Category: Photochemicals/photoprocessing waste  
Disposal Method: Transfer Station  
Tons: 0.06  
Facility County: Santa Clara

Year: 1998  
Gepaid: CAD983667569  
Contact: JOHN SHAWN PRODUCTIONS INC  
Telephone: 4089881776  
Mailing Name: Not reported  
Mailing Address: 2401 AGNEW RD FRNT GATE  
Mailing City,St,Zip: SANTA CLARA, CA 950541201  
Gen County: Not reported  
TSD EPA ID: CA0000084517  
TSD County: Not reported  
Waste Category: Photochemicals/photoprocessing waste  
Disposal Method: Transfer Station  
Tons: .0625  
Facility County: Santa Clara

[Click this hyperlink](#) while viewing on your computer to access  
1 additional CA\_HAZNET: record(s) in the EDR Site Report.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**C20**  
**NNW**  
**1/8-1/4**  
**0.142 mi.**  
**750 ft.**

**GREAT AMERICA - GREAT AMERICA TANK 4**  
**2401 AGNEW ROAD**  
**SANTA CLARA, CA 95054**  
**Site 11 of 13 in cluster C**

**CA HIST CORTESE**  
**CA LUST**  
**CA SLIC**  
**CA HIST LUST**  
**S100852163**  
**N/A**

**Relative:**  
**Lower**

HIST CORTESE:  
Region: CORTESE  
Facility County Code: 43  
Reg By: LTNKA  
Reg Id: 43-1558

**Actual:**  
**23 ft.**

**LUST:**

Region: STATE  
Global Id: T10000002633  
Latitude: 37.3954085357495  
Longitude: -121.968884468079  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 03/21/2011  
Lead Agency: SANTA CLARA COUNTY LOP  
Case Worker: GOR  
Local Agency: SANTA CLARA COUNTY LOP  
RB Case Number: 14-361D  
LOC Case Number: 06S1W22M02f  
File Location: Stored electronically as an E-file  
Potential Media Affect: Other Groundwater (uses other than drinking water), Soil, Soil Vapor, Surface water  
Potential Contaminants of Concern: Gasoline  
Site History: The Great America Environmental Project consists of 15 sites. These sites are areas where contamination was noted when USTs were removed or areas where contamination was noted related to spills potentially associated with maintenance and operation activities. The 15 sites are described and their locations shown on a map in the Workplan for Additional Site Assessment prepared by Locus and dated September 8, 2010. On February 1, 1985 a 4,000 gallon fiberglass gasoline storage UST was removed under the supervision of the Santa Clara Fire Department (Deputy Fire Marsha, Richard Munson). The UST was mounted on a concrete anchoring slab and split in two during removal. This report pertains to Tank 4 only. Two soil samples were collected. The location and analytical results are described below: 1. A sidewall sample from 9 feet below ground surface (bgs) detected 5 parts per million (ppm) total hydrocarbons; and 2. A sample collected below the UST (depth not recorded) detected 12 ppm total hydrocarbons. The base of the excavation for the existing swimming pool was up to 8 to 10 feet bgs. The UST location is no longer accessible because it is located within the footprint of an existing pool. Contaminated soil was likely removed at the time the pool was installed.

[Click here to access the California GeoTracker records for this facility:](#)

**Contact:**

Global Id: T10000002633  
Contact Type: Local Agency Caseworker  
Contact Name: Gerald O'Regan  
Organization Name: SANTA CLARA COUNTY LOP  
Address: 1555 BERGER DRIVE STE 300  
City: SAN JOSE  
Email: gerald.o'regan@deh.sccgov.org

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GREAT AMERICA - GREAT AMERICA TANK 4 (Continued)**

**S100852163**

Phone Number: Not reported  
Global Id: T10000002633  
Contact Type: Regional Board Caseworker  
Contact Name: NATHAN KING  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY ST., SUITE 1400  
City: OAKLAND  
Email: nking@waterboards.ca.gov  
Phone Number: Not reported

Status History:

Global Id: T10000002633  
Status: Open - Site Assessment  
Status Date: 11/12/2010

Global Id: T10000002633  
Status: Completed - Case Closed  
Status Date: 03/21/2011

Global Id: T10000002633  
Status: Open - Case Begin Date  
Status Date: 02/01/1985

Regulatory Activities:

Global Id: T10000002633  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Stopped

Global Id: T10000002633  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Reported

Global Id: T10000002633  
Action Type: ENFORCEMENT  
Date: 03/21/2011  
Action: Closure/No Further Action Letter

Global Id: T10000002633  
Action Type: RESPONSE  
Date: 01/14/2011  
Action: Soil and Water Investigation Workplan - Regulator Responded

Global Id: T10000002633  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Discovery

Global Id: T10000002633  
Action Type: ENFORCEMENT  
Date: 11/15/2010  
Action: Staff Letter - #01025111

Global Id: T10000002633

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GREAT AMERICA - GREAT AMERICA TANK 4 (Continued)**

**S100852163**

Action Type: ENFORCEMENT  
Date: 03/02/2011  
Action: Staff Letter

Region: STATE  
Global Id: T10000002618  
Latitude: 37.3941129272588  
Longitude: -121.972296237946  
Case Type: LUST Cleanup Site  
Status: Open - Eligible for Closure  
Status Date: 06/03/2014  
Lead Agency: SANTA CLARA COUNTY LOP  
Case Worker: GOR  
Local Agency: SANTA CLARA COUNTY LOP  
RB Case Number: 14-361B  
LOC Case Number: 06S1W21J01f  
File Location: Stored electronically as an E-file  
Potential Media Affect: Under Investigation  
Potential Contaminants of Concern: Benzene, Toluene, Xylene, Gasoline  
Site History: The Great America Environmental Project consists of 15 sites. These sites are areas where contamination was noted when USTs were removed or areas where contamination was noted related to spills potentially associated with maintenance and operation activities. The 15 sites are described and their locations shown on a map in the Workpan for Additional Site Assessment prepared by Locus and dated September 8, 2010. On February 1, 1985 a 6000 gallon fiberglass gasoline UST was removed under the supervision of the Santa Clara Fire Department. A 2 foot thick concrete slab supported the base of the UST. A soil sample collected below the concrete slab detected 317 parts per million (ppm) total hydrocarbons. Soil immediately below the slab had a distinct gasoline odor. Soil samples collected at 3 feet 4 to 4.5 feet below the base of the concrete lab detected 4 ppm gasoline related hydrocarbons.

[Click here to access the California GeoTracker records for this facility:](#)

Contact:  
Global Id: T10000002618  
Contact Type: Regional Board Caseworker  
Contact Name: NATHAN KING  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY ST., SUITE 1400  
City: OAKLAND  
Email: nking@waterboards.ca.gov  
Phone Number: Not reported

Global Id: T10000002618  
Contact Type: Local Agency Caseworker  
Contact Name: Gerald O'Regan  
Organization Name: SANTA CLARA COUNTY LOP  
Address: 1555 BERGER DRIVE STE 300  
City: SAN JOSE  
Email: gerald.o'regan@deh.sccgov.org  
Phone Number: Not reported

Status History:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GREAT AMERICA - GREAT AMERICA TANK 4 (Continued)**

**S100852163**

Global Id: T10000002618  
Status: Open - Eligible for Closure  
Status Date: 06/03/2014

Global Id: T10000002618  
Status: Open - Case Begin Date  
Status Date: 02/03/1985

Global Id: T10000002618  
Status: Open - Site Assessment  
Status Date: 02/03/1985

Global Id: T10000002618  
Status: Open - Site Assessment  
Status Date: 02/03/1985

Regulatory Activities:

Global Id: T10000002618  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Reported

Global Id: T10000002618  
Action Type: ENFORCEMENT  
Date: 07/20/2012  
Action: Staff Letter

Global Id: T10000002618  
Action Type: ENFORCEMENT  
Date: 02/25/2011  
Action: Staff Letter - #1102522

Global Id: T10000002618  
Action Type: ENFORCEMENT  
Date: 11/12/2010  
Action: Staff Letter

Global Id: T10000002618  
Action Type: RESPONSE  
Date: 01/31/2013  
Action: Monitoring Report - Annually

Global Id: T10000002618  
Action Type: ENFORCEMENT  
Date: 10/31/2013  
Action: Staff Letter

Global Id: T10000002618  
Action Type: REMEDIATION  
Date: 01/01/1950  
Action: Excavation

Global Id: T10000002618  
Action Type: RESPONSE  
Date: 01/14/2011  
Action: Soil and Water Investigation Workplan - Regulator Responded

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GREAT AMERICA - GREAT AMERICA TANK 4 (Continued)**

**S100852163**

Global Id: T10000002618  
Action Type: RESPONSE  
Date: 01/31/2013  
Action: Monitoring Report - Annually

Global Id: T10000002618  
Action Type: ENFORCEMENT  
Date: 11/12/2010  
Action: Staff Letter - #01022111

Global Id: T10000002618  
Action Type: ENFORCEMENT  
Date: 06/04/2014  
Action: Staff Letter

Global Id: T10000002618  
Action Type: RESPONSE  
Date: 03/11/2014  
Action: Site Assessment Report

Global Id: T10000002618  
Action Type: RESPONSE  
Date: 10/01/2013  
Action: Soil and Water Investigation Workplan - Regulator Responded

Global Id: T10000002618  
Action Type: ENFORCEMENT  
Date: 07/16/2013  
Action: Staff Letter

Global Id: T10000002618  
Action Type: RESPONSE  
Date: 05/27/2011  
Action: Site Assessment Report

Region: STATE  
Global Id: T0608501520  
Latitude: 37.3972666719919  
Longitude: -121.969742774963  
Case Type: LUST Cleanup Site  
Status: Open - Site Assessment  
Status Date: 07/22/2010  
Lead Agency: SANTA CLARA COUNTY LOP  
Case Worker: GOR  
Local Agency: SANTA CLARA COUNTY LOP  
RB Case Number: 14-361  
LOC Case Number: 06S1W22M01f  
File Location: Stored electronically as an E-file  
Potential Media Affect: Other Groundwater (uses other than drinking water), Soil  
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon, Vinyl chloride, Diesel, Gasoline, Heating Oil / Fuel Oil

Site History: The Great America Environmental Project consists of 15 sites. These sites are areas where contamination was noted when USTs were removed or areas where contamination was noted related to spills potentially associated with maintenance and operation activities. The 15 sites are described and their locations shown on a map in the Workplan for

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GREAT AMERICA - GREAT AMERICA TANK 4 (Continued)**

**S100852163**

Additional Site Assessment prepared by Locus and dated September 8, 2010. In 1985 an estimated 80 to 100 gallons of diesel fuel were released. On March 2, 1993 a 550 gallon diesel UST and approximately 60 cubic yards of contaminated soil was removed. A soil sample collected below the base of the soil excavation detected 20.47 ppm diesel. Historically, floating product was noted in Well MW-3.

[Click here to access the California GeoTracker records for this facility:](#)

**Contact:**

Global Id: T0608501520  
Contact Type: Regional Board Caseworker  
Contact Name: NATHAN KING  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY ST., SUITE 1400  
City: OAKLAND  
Email: nking@waterboards.ca.gov  
Phone Number: Not reported

Global Id: T0608501520  
Contact Type: Local Agency Caseworker  
Contact Name: Gerald O'Regan  
Organization Name: SANTA CLARA COUNTY LOP  
Address: 1555 BERGER DRIVE STE 300  
City: SAN JOSE  
Email: gerald.o'regan@deh.sccgov.org  
Phone Number: Not reported

**Status History:**

Global Id: T0608501520  
Status: Open - Site Assessment  
Status Date: 07/22/2010

Global Id: T0608501520  
Status: Open - Site Assessment  
Status Date: 07/23/1987

Global Id: T0608501520  
Status: Open - Case Begin Date  
Status Date: 02/13/1985

Global Id: T0608501520  
Status: Open - Site Assessment  
Status Date: 02/13/1985

**Regulatory Activities:**

Global Id: T0608501520  
Action Type: ENFORCEMENT  
Date: 11/12/2010  
Action: Staff Letter

Global Id: T0608501520  
Action Type: ENFORCEMENT  
Date: 07/22/2010  
Action: Staff Letter

Global Id: T0608501520

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GREAT AMERICA - GREAT AMERICA TANK 4 (Continued)**

**S100852163**

Action Type:	ENFORCEMENT
Date:	07/20/2012
Action:	Staff Letter
Global Id:	T0608501520
Action Type:	RESPONSE
Date:	05/07/2010
Action:	Verbal Communication
Global Id:	T0608501520
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery
Global Id:	T0608501520
Action Type:	RESPONSE
Date:	07/01/1998
Action:	Other Report / Document
Global Id:	T0608501520
Action Type:	RESPONSE
Date:	08/27/1999
Action:	Other Report / Document
Global Id:	T0608501520
Action Type:	REMEDIATION
Date:	01/01/1950
Action:	Excavation
Global Id:	T0608501520
Action Type:	RESPONSE
Date:	01/14/2011
Action:	Soil and Water Investigation Workplan - Regulator Responded
Global Id:	T0608501520
Action Type:	ENFORCEMENT
Date:	11/10/2010
Action:	Staff Letter
Global Id:	T0608501520
Action Type:	RESPONSE
Date:	04/15/2002
Action:	Soil and Water Investigation Report
Global Id:	T0608501520
Action Type:	RESPONSE
Date:	03/11/2014
Action:	Site Assessment Report
Global Id:	T0608501520
Action Type:	RESPONSE
Date:	10/04/2001
Action:	Soil and Water Investigation Workplan
Global Id:	T0608501520
Action Type:	ENFORCEMENT
Date:	10/31/2013

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GREAT AMERICA - GREAT AMERICA TANK 4 (Continued)**

**S100852163**

Action: Staff Letter

Global Id: T0608501520  
Action Type: ENFORCEMENT  
Date: 09/14/2012  
Action: Staff Letter

Global Id: T0608501520  
Action Type: ENFORCEMENT  
Date: 07/15/2013  
Action: Staff Letter

Global Id: T0608501520  
Action Type: ENFORCEMENT  
Date: 11/12/2010  
Action: Staff Letter - #01022111

Global Id: T0608501520  
Action Type: RESPONSE  
Date: 11/30/2012  
Action: Soil and Water Investigation Report

Global Id: T0608501520  
Action Type: ENFORCEMENT  
Date: 02/04/1991  
Action: Warning Letter - #32265

Global Id: T0608501520  
Action Type: ENFORCEMENT  
Date: 02/27/1997  
Action: Notice of Responsibility - #40314

Global Id: T0608501520  
Action Type: ENFORCEMENT  
Date: 03/02/1998  
Action: Staff Letter - #32269

Global Id: T0608501520  
Action Type: ENFORCEMENT  
Date: 06/01/1999  
Action: Staff Letter - #32271

Global Id: T0608501520  
Action Type: ENFORCEMENT  
Date: 08/24/2001  
Action: Staff Letter - #32275

Global Id: T0608501520  
Action Type: ENFORCEMENT  
Date: 02/01/2002  
Action: Staff Letter - #37892

Global Id: T0608501520  
Action Type: ENFORCEMENT  
Date: 04/21/2010  
Action: Staff Letter - #0102124

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GREAT AMERICA - GREAT AMERICA TANK 4 (Continued)**

**S100852163**

Global Id: T0608501520  
Action Type: ENFORCEMENT  
Date: 02/25/2011  
Action: Staff Letter - #1102522

Global Id: T0608501520  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Reported

Global Id: T0608501520  
Action Type: RESPONSE  
Date: 10/01/2013  
Action: Soil and Water Investigation Workplan - Regulator Responded

Global Id: T0608501520  
Action Type: RESPONSE  
Date: 05/27/2011  
Action: Site Assessment Report

Region: STATE  
Global Id: T10000002632  
Latitude: 37.3938572124105  
Longitude: -121.972489356995  
Case Type: LUST Cleanup Site  
Status: Open - Eligible for Closure  
Status Date: 05/22/2014  
Lead Agency: SANTA CLARA COUNTY LOP  
Case Worker: GOR  
Local Agency: SANTA CLARA COUNTY LOP  
RB Case Number: 14-361C  
LOC Case Number: 06S1W21J02f  
File Location: Stored electronically as an E-file  
Potential Media Affect: Under Investigation  
Potential Contaminants of Concern: Gasoline, Waste Oil / Motor / Hydraulic / Lubricating  
Site History: The Great America Environmental Project consists of 15 sites. These sites are areas where contamination was noted when USTs were removed or areas where contamination was noted related to spills potentially associated with maintenance and operation activities. The 15 sites are described and their locations shown on a map in the Workplan for Additional Site Assessment prepared by Locus and dated September 8, 2010. This report pertains to Tank 3 only. On February 1, 1985 a 200 gallon fiberglass covered steel waste oil UST was removed under the supervision of the Santa Clara Fire Department. A soil sample collected at 8.5 to 9 feet below ground surface detected 12 ppm total hydrocarbons.

Click here to access the California GeoTracker records for this facility:

Contact:  
Global Id: T10000002632  
Contact Type: Local Agency Caseworker  
Contact Name: Gerald O'Regan  
Organization Name: SANTA CLARA COUNTY LOP  
Address: 1555 BERGER DRIVE STE 300  
City: SAN JOSE  
Email: gerald.o'regan@deh.sccgov.org

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GREAT AMERICA - GREAT AMERICA TANK 4 (Continued)**

**S100852163**

Phone Number: Not reported

Global Id: T10000002632  
Contact Type: Regional Board Caseworker  
Contact Name: NATHAN KING  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY ST., SUITE 1400  
City: OAKLAND  
Email: nking@waterboards.ca.gov  
Phone Number: Not reported

Status History:

Global Id: T10000002632  
Status: Open - Site Assessment  
Status Date: 11/12/2010

Global Id: T10000002632  
Status: Open - Eligible for Closure  
Status Date: 05/22/2014

Global Id: T10000002632  
Status: Open - Case Begin Date  
Status Date: 02/01/1985

Regulatory Activities:

Global Id: T10000002632  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Stopped

Global Id: T10000002632  
Action Type: ENFORCEMENT  
Date: 11/15/2010  
Action: Staff Letter - #01025111

Global Id: T10000002632  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Reported

Global Id: T10000002632  
Action Type: ENFORCEMENT  
Date: 09/14/2012  
Action: Staff Letter

Global Id: T10000002632  
Action Type: ENFORCEMENT  
Date: 02/25/2011  
Action: Staff Letter - #1102522

Global Id: T10000002632  
Action Type: ENFORCEMENT  
Date: 07/18/2013  
Action: Staff Letter

Global Id: T10000002632

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GREAT AMERICA - GREAT AMERICA TANK 4 (Continued)**

**S100852163**

Action Type: RESPONSE  
Date: 01/14/2010  
Action: Soil and Water Investigation Workplan

Global Id: T10000002632  
Action Type: ENFORCEMENT  
Date: 05/27/2014  
Action: Staff Letter

Global Id: T10000002632  
Action Type: RESPONSE  
Date: 10/01/2013  
Action: Other Report / Document

Global Id: T10000002632  
Action Type: RESPONSE  
Date: 05/27/2011  
Action: Site Assessment Report

Global Id: T10000002632  
Action Type: RESPONSE  
Date: 11/30/2012  
Action: Site Assessment Report

Global Id: T10000002632  
Action Type: ENFORCEMENT  
Date: 07/20/2012  
Action: Staff Letter

Region: STATE  
Global Id: T10000002636  
Latitude: 37.3951357779283  
Longitude: -121.969592571259  
Case Type: LUST Cleanup Site  
Status: Open - Eligible for Closure  
Status Date: 07/16/2013  
Lead Agency: SANTA CLARA COUNTY LOP  
Case Worker: GOR  
Local Agency: SANTA CLARA COUNTY LOP  
RB Case Number: 14-361G  
LOC Case Number: 06S1W21J03f  
File Location: Stored electronically as an E-file  
Potential Media Affect: Under Investigation  
Potential Contaminants of Concern: Benzene, Toluene, Xylene, Gasoline  
Site History: The Great America Environmental Project consists of 15 sites. These sites are areas where contamination was noted when USTs were removed or areas where contamination was noted related to spills potentially associated with maintenance and operation activities. The 15 sites are described and their locations shown on a map in the Workplan for Additional Site Assessment prepared by Locus and dated September 8, 2010. This report pertains to Tank 6 and the clarifier only. On March 2nd and 3rd, 1993 an 8,000 gallon diesel fiberglass UST and a four stage concrete clarifier were removed. Removal operations were conducted under the supervision of the Santa Clara Fire Department Fire Marshal, John Signorino. Soil and groundwater samples collected at the former UST and clarifier detected TPH-d, BTEX and VOC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GREAT AMERICA - GREAT AMERICA TANK 4 (Continued)**

**S100852163**

compounds.

[Click here to access the California GeoTracker records for this facility:](#)

**Contact:**

Global Id: T10000002636  
Contact Type: Regional Board Caseworker  
Contact Name: NATHAN KING  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY ST., SUITE 1400  
City: OAKLAND  
Email: nking@waterboards.ca.gov  
Phone Number: Not reported

Global Id: T10000002636  
Contact Type: Local Agency Caseworker  
Contact Name: Gerald O'Regan  
Organization Name: SANTA CLARA COUNTY LOP  
Address: 1555 BERGER DRIVE STE 300  
City: SAN JOSE  
Email: gerald.o'regan@deh.sccgov.org  
Phone Number: Not reported

**Status History:**

Global Id: T10000002636  
Status: Open - Site Assessment  
Status Date: 11/15/2010

Global Id: T10000002636  
Status: Open - Case Begin Date  
Status Date: 03/03/1993

Global Id: T10000002636  
Status: Open - Eligible for Closure  
Status Date: 07/16/2013

**Regulatory Activities:**

Global Id: T10000002636  
Action Type: REMEDIATION  
Date: 01/01/1950  
Action: Excavation

Global Id: T10000002636  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Reported

Global Id: T10000002636  
Action Type: ENFORCEMENT  
Date: 03/01/2011  
Action: Staff Letter - #110213

Global Id: T10000002636  
Action Type: RESPONSE  
Date: 01/14/2011  
Action: Soil and Water Investigation Workplan - Regulator Responded

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GREAT AMERICA - GREAT AMERICA TANK 4 (Continued)**

**S100852163**

Global Id: T10000002636  
Action Type: RESPONSE  
Date: 05/27/2011  
Action: Risk Assessment Report

Global Id: T10000002636  
Action Type: ENFORCEMENT  
Date: 11/15/2010  
Action: Staff Letter - #01025111

Global Id: T10000002636  
Action Type: ENFORCEMENT  
Date: 07/20/2012  
Action: Staff Letter

Region: STATE  
Global Id: T10000002634  
Latitude: 37.3939083554499  
Longitude: -121.969420909882  
Case Type: LUST Cleanup Site  
Status: Open - Eligible for Closure  
Status Date: 06/03/2014  
Lead Agency: SANTA CLARA COUNTY LOP  
Case Worker: GOR  
Local Agency: SANTA CLARA COUNTY LOP  
RB Case Number: 14-361E  
LOC Case Number: 06S1W22M03f  
File Location: Stored electronically as an E-file  
Potential Media Affect: Other Groundwater (uses other than drinking water), Soil Vapor, Under Investigation

Potential Contaminants of Concern: Gasoline

Site History: The Great America Environmental Project consists of 15 sites. These sites are areas where contamination was noted when USTs were removed or areas where contamination was noted related to spills potentially associated with maintenance and operation activities. The 15 sites are described and their locations shown on a map in the Workplan for Additional Site Assessment prepared by Locus and dated September 8, 2010. This report pertains to Tank 5 only. On March 2, 1993 a 10,000 gallon unleaded gasoline fiberglass UST was removed under the supervision of Santa Clara Fire Department Fire Marshal, John Signorino. Two soil samples were collected from 6 and 9 feet below ground surface (bgs). The samples were ND for TPH and all BTEX compounds. One groundwater sample was collected from the UST excavation. The laboratory reported 2,480 ppb TPH, 729 ppb benzene, 350 ppb tetrachloroethene (PCE), and 99 ppb trichloroethene (TCE). On February 25, 2002 additional soil and groundwater samples were collected from temporary sampling points and an existing monitoring well. Four soil samples were collected from between 7 to 9 feet bgs. VOCs were not detected in any of the samples. Five groundwater samples were collected. Four of the samples were from temporary sampling points and a fifth was from an existing monitoring well. VOCs were detected in all five of the groundwater samples. The maximum detected concentrations were: 5.4 ppb Cis-1,2-DCE 35 ppb trichloroethene (TCE) 31 ppb tetrachloroethene (PCE) 1.0 ppb trans-1,2-DCE 1.2 ppb vinyl chloride

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GREAT AMERICA - GREAT AMERICA TANK 4 (Continued)**

**S100852163**

[Click here to access the California GeoTracker records for this facility:](#)

Contact:

Global Id: T10000002634  
Contact Type: Regional Board Caseworker  
Contact Name: NATHAN KING  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY ST., SUITE 1400  
City: OAKLAND  
Email: nking@waterboards.ca.gov  
Phone Number: Not reported

Global Id: T10000002634  
Contact Type: Local Agency Caseworker  
Contact Name: Gerald O'Regan  
Organization Name: SANTA CLARA COUNTY LOP  
Address: 1555 BERGER DRIVE STE 300  
City: SAN JOSE  
Email: gerald.o'regan@deh.sccgov.org  
Phone Number: Not reported

Status History:

Global Id: T10000002634  
Status: Open - Site Assessment  
Status Date: 11/12/2010

Global Id: T10000002634  
Status: Open - Eligible for Closure  
Status Date: 06/03/2014

Global Id: T10000002634  
Status: Open - Case Begin Date  
Status Date: 04/19/1993

Regulatory Activities:

Global Id: T10000002634  
Action Type: ENFORCEMENT  
Date: 07/20/2012  
Action: Staff Letter

Global Id: T10000002634  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Reported

Global Id: T10000002634  
Action Type: ENFORCEMENT  
Date: 07/16/2013  
Action: Staff Letter

Global Id: T10000002634  
Action Type: ENFORCEMENT  
Date: 03/01/2011  
Action: Staff Letter - #110213

Global Id: T10000002634

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GREAT AMERICA - GREAT AMERICA TANK 4 (Continued)**

**S100852163**

Action Type: ENFORCEMENT  
Date: 03/31/2013  
Action: Staff Letter

Global Id: T10000002634  
Action Type: RESPONSE  
Date: 01/14/2011  
Action: Soil and Water Investigation Workplan - Regulator Responded

Global Id: T10000002634  
Action Type: ENFORCEMENT  
Date: 11/15/2010  
Action: Staff Letter - #01025111

Global Id: T10000002634  
Action Type: ENFORCEMENT  
Date: 06/03/2014  
Action: Staff Letter

Global Id: T10000002634  
Action Type: RESPONSE  
Date: 10/01/2013  
Action: Soil and Water Investigation Workplan - Regulator Responded

Global Id: T10000002634  
Action Type: RESPONSE  
Date: 03/11/2014  
Action: Site Assessment Report - Regulator Responded

Global Id: T10000002634  
Action Type: RESPONSE  
Date: 05/27/2011  
Action: Site Assessment Report

**LUST REG 2:**

Region: 2  
Facility Id: Not reported  
Facility Status: Pollution Characterization  
Case Number: 06S1W22M01f  
How Discovered: Not reported  
Leak Cause: Not reported  
Leak Source: Not reported  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assesment Wokplan Submitted: Not reported  
Preliminary Site Assesment Began: 2/13/1985  
Pollution Characterization Began: 7/23/1987  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

**LUST SANTA CLARA:**

Region: SANTA CLARA  
SCVWD ID: 06S1W22M01F  
Date Closed: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GREAT AMERICA - GREAT AMERICA TANK 4 (Continued)**

**S100852163**

EDR Link ID: 06S1W22M01F

Region: SANTA CLARA  
SCVWD ID: 06S1W21J01F  
Date Closed: Not reported  
EDR Link ID: 06S1W21J01F

Region: SANTA CLARA  
SCVWD ID: 06S1W21J02F  
Date Closed: Not reported  
EDR Link ID: 06S1W21J02F

Region: SANTA CLARA  
SCVWD ID: 06S1W22M03F  
Date Closed: Not reported  
EDR Link ID: 06S1W22M03F

Region: SANTA CLARA  
SCVWD ID: 06S1W21J03F  
Date Closed: Not reported  
EDR Link ID: 06S1W21J03F

Region: SANTA CLARA  
SCVWD ID: 06S1W22M02F  
Date Closed: 03/21/2011  
EDR Link ID: 06S1W22M02F

**SLIC:**

Region: STATE  
**Facility Status:** **Open - Site Assessment**  
Status Date: 01/27/2011  
Global Id: T10000002795  
Lead Agency: SANTA CLARA COUNTY LOP  
Lead Agency Case Number: 06S1W21J04s  
Latitude: 37.3946073068252  
Longitude: -121.97386264801  
Case Type: Cleanup Program Site  
Case Worker: GOR  
Local Agency: SANTA CLARA COUNTY LOP  
RB Case Number: Not reported  
File Location: Stored electronically as an E-file  
Potential Media Affected: Soil  
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating  
Site History: Per the September 12, 2012, DEH directive letter, additional soil and groundwater investigation and monitoring is needed to define the extent of contamination at Tank 8 and Grizzly ride areas.

[Click here to access the California GeoTracker records for this facility:](#)

**HIST LUST SANTA CLARA:**

Region: SANTA CLARA  
Region Code: 2  
SCVWD ID: 06S1W22M01  
Oversite Agency: SCVWD  
Date Listed: 1988-01-01 00:00:00  
Closed Date: Not reported

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**C21**      **GREAT AMERICA THEME PARK**  
**NNW**      **2401 AGNEW ROAD 526**  
**1/8-1/4**    **SANTA CLARA, CA 95054**  
**0.142 mi.**  
**750 ft.**    **Site 12 of 13 in cluster C**

**CA UST**    **U003782204**  
**N/A**

**Relative:**      **UST:**  
**Lower**          Facility ID:            43-010-600644  
                         Latitude:                37.39498  
**Actual:**          Longitude:              -121.9681839  
**23 ft.**            Permitting Agency:    SANTA CLARA, CITY OF

**C22**      **GREAT AMERICA THEME PARK**  
**NNW**      **2401 AGNEW ROAD 887**  
**1/8-1/4**    **SANTA CLARA, CA 95054**  
**0.142 mi.**  
**750 ft.**    **Site 13 of 13 in cluster C**

**CA UST**    **U004118121**  
**N/A**

**Relative:**      **UST:**  
**Lower**          Facility ID:            43-010-700447  
                         Latitude:                37.39498  
**Actual:**          Longitude:              -121.9681839  
**23 ft.**            Permitting Agency:    SANTA CLARA, CITY OF

**23**      **INTEL CORP. #D2 - SANTA CLARA**  
**ESE**      **2200 MISSION COLLEGE BOULEVARD**  
**1/8-1/4**    **SANTA CLARA, CA 95054**  
**0.170 mi.**  
**900 ft.**

**CA ENVIROSTOR**    **S110493941**  
**N/A**

**Relative:**      **ENVIROSTOR:**  
**Higher**          Facility ID:            71002115  
                         Status:                 Inactive - Needs Evaluation  
**Actual:**          Status Date:            Not reported  
**27 ft.**            Site Code:              Not reported  
                         Site Type:              Tiered Permit  
                         Site Type Detailed:    Tiered Permit  
                         Acres:                    Not reported  
                         NPL:                     NO  
                         Regulatory Agencies:    NONE SPECIFIED  
                         Lead Agency:            NONE SPECIFIED  
                         Program Manager:      Not reported  
                         Supervisor:              Not reported  
                         Division Branch:        Cleanup Berkeley  
                         Assembly:                25  
                         Senate:                    10  
                         Special Program:        Not reported  
                         Restricted Use:          NO  
                         Site Mgmt Req:          NONE SPECIFIED  
                         Funding:                  Not reported  
                         Latitude:                 37.38774  
                         Longitude:                -121.9631  
                         APN:                      NONE SPECIFIED  
                         Past Use:                 NONE SPECIFIED  
                         Potential COC:          NONE SPECIFIED  
                         Confirmed COC:         NONE SPECIFIED  
                         Potential Description:    NONE SPECIFIED  
                         Alias Name:                CAD000626697

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL CORP. #D2 - SANTA CLARA (Continued)**

**S110493941**

Alias Type: EPA Identification Number  
Alias Name: 110018976991  
Alias Type: EPA (FRS #)  
Alias Name: 71002115  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: Not reported  
Completed Sub Area Name: Not reported  
Completed Document Type: Not reported  
Completed Date: Not reported  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**D24**  
**ESE**  
**1/8-1/4**  
**0.203 mi.**  
**1071 ft.**

**PERKINELMER HOLDINGS, INC**  
**2175 MISSION COLLEGE BOULEVARD**  
**SANTA CLARA, CA 95054**

**RCRA-LQG** **1001115418**  
**CAR000013532**

**Site 1 of 7 in cluster D**

**Relative:**  
**Higher**

RCRA-LQG:

Date form received by agency: 03/27/2012  
Facility name: PERKINELMER HOLDINGS, INC  
Facility address: 2175 MISSION COLLEGE BOULEVARD  
SANTA CLARA, CA 95054  
EPA ID: CAR000013532  
Mailing address: MISSION COLLEGE BOULEVARD  
SANTA CLARA, CA 95054  
Contact: JOSEPH H BATDORF  
Contact address: MISSION COLLEGE BOULEVARD  
SANTA CLARA, CA 95054  
Contact country: Not reported  
Contact telephone: (408) 565-0858  
Contact email: JOSEPH.BATDORF@PERKINELMER.COM  
EPA Region: 09  
Land type: Private  
Classification: Large Quantity Generator

**Actual:**  
**27 ft.**

Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PERKINELMER HOLDINGS, INC (Continued)**

**1001115418**

Owner/Operator Summary:

Owner/operator name: PERKINELMER, INC.  
Owner/operator address: MISSION COLLEGE BOULEVARD  
SANTA CLARA, CA 95054  
Owner/operator country: Not reported  
Owner/operator telephone: (408) 565-0858  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 02/02/1994  
Owner/Op end date: Not reported

Owner/operator name: HUNT OIL CORP.  
Owner/operator address: ROSS AT FIELD  
DALLAS, TX 75001  
Owner/operator country: Not reported  
Owner/operator telephone: (972) 361-5124  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 12/01/2001  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 06/15/2010  
Site name: PERKINELMER INC.  
Classification: Large Quantity Generator

Date form received by agency: 02/26/2008  
Site name: PERKINELMER OPTOELECTRONICS  
Classification: Large Quantity Generator

Date form received by agency: 02/27/2006  
Site name: PERKINELMER OPTOELECTRONICS  
Classification: Large Quantity Generator

Date form received by agency: 02/12/2004  
Site name: PERKINELMER OPTOELECTRONICS  
Classification: Large Quantity Generator

Date form received by agency: 03/01/2002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PERKINELMER HOLDINGS, INC (Continued)**

**1001115418**

Site name: PERKINELMER, INC. OPTOELECTRONICS  
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000

Site name: PERKINELMER, INC.-OPTOELECTRONICS-AMS  
Classification: Large Quantity Generator

Date form received by agency: 07/01/1996

Site name: EG AND G RETICON INC  
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: 214  
Waste name: 214

Waste code: 331  
Waste name: 331

Waste code: 343  
Waste name: 343

Waste code: 352  
Waste name: 352

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D035  
Waste name: METHYL ETHYL KETONE

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: 181  
Waste name: 181

Waste code: 214  
Waste name: 214

Waste code: 343  
Waste name: 343

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PERKINELMER HOLDINGS, INC (Continued)**

**1001115418**

Waste code: 352  
Waste name: 352

Waste code: 728  
Waste name: 728

Waste code: 791  
Waste name: 791

Waste code: D002  
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D004  
Waste name: ARSENIC

Waste code: D005  
Waste name: BARIUM

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Amount (Lbs): 35515

Waste code: D035  
Waste name: METHYL ETHYL KETONE  
Amount (Lbs): 220

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PERKINELMER HOLDINGS, INC (Continued)**

**1001115418**

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Amount (Lbs): 35400

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 08/02/2010  
Date achieved compliance: 09/08/2010  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/02/2010  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 12/06/2006  
Date achieved compliance: 12/06/2006  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/06/2006  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 11/14/2005  
Date achieved compliance: 12/14/2005  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/14/2005  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 10/22/2003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PERKINELMER HOLDINGS, INC (Continued)**

**1001115418**

Date achieved compliance: 11/11/2003  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 10/22/2003  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 06/13/2012  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 08/02/2010  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 09/08/2010  
Evaluation lead agency: State

Evaluation date: 11/06/2009  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 06/09/2008  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 06/11/2007  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 12/06/2006  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 12/06/2006  
Evaluation lead agency: State

Evaluation date: 11/14/2005  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 12/14/2005  
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 10/22/2003  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PERKINELMER HOLDINGS, INC (Continued)**

**1001115418**

Date achieved compliance: 11/11/2003  
Evaluation lead agency: State Contractor/Grantee

**D25**  
**ESE**  
**1/8-1/4**  
**0.203 mi.**  
**1071 ft.**

**EG&G AMORPHOUS SILICON**  
**2175 MISSION COLLEGE BOULEVARD**  
**SANTA CLARA, CA 95054**

**CA ENVIROSTOR** **S104583860**  
**N/A**

**Site 2 of 7 in cluster D**

**Relative:**  
**Higher**

ENVIROSTOR:  
Facility ID: 71003454  
Status: Inactive - Needs Evaluation  
Status Date: Not reported  
Site Code: Not reported  
Site Type: Tiered Permit  
Site Type Detailed: Tiered Permit  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Not reported  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.38959  
Longitude: -121.9639  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: CAR000013532  
Alias Type: EPA Identification Number  
Alias Name: 110009555864  
Alias Type: EPA (FRS #)  
Alias Name: 71003454  
Alias Type: Envirostor ID Number

**Actual:**  
**27 ft.**

**Completed Info:**

Completed Area Name: Not reported  
Completed Sub Area Name: Not reported  
Completed Document Type: Not reported  
Completed Date: Not reported  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

D26  
ESE  
1/8-1/4  
0.203 mi.  
1071 ft.

**EG AND G IC SENSORS**  
**2175 MISSION COLLEGE BLVD**  
**SANTA CLARA, CA 95054**

**CERC-NFRAP**  
**RCRA-SQG**  
**FINDS**

**1000698148**  
**CAT080013618**

**Site 3 of 7 in cluster D**

**Relative:**  
**Higher**

CERC-NFRAP:  
Site ID: 0902686  
Federal Facility: Not a Federal Facility  
NPL Status: Not on the NPL  
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

**Actual:**  
**27 ft.**

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID: 13288225.00000  
Person ID: 13003854.00000  
  
Contact Sequence ID: 13293820.00000  
Person ID: 13003858.00000  
  
Contact Sequence ID: 13299678.00000  
Person ID: 13004003.00000

CERCLIS-NFRAP Site Alias Name(s):

Alias Name: ADVANCED MICRO DEVICES  
Alias Address: Not reported  
CA

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY  
Date Started: / /  
Date Completed: 05/01/86  
Priority Level: Not reported  
  
Action: ARCHIVE SITE  
Date Started: / /  
Date Completed: 11/01/87  
Priority Level: Not reported  
  
Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 11/01/87  
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

RCRA-SQG:

Date form received by agency: 09/01/1996  
Facility name: EG AND G IC SENSORS  
Facility address: 2175 MISSION COLLEGE BLVD  
NORTH SIDE  
SANTA CLARA, CA 95054  
  
EPA ID: CAT080013618  
Mailing address: MCCARTHY BLVD  
MILPITAS, CA 95035  
  
Contact: Not reported  
Contact address: Not reported  
Not reported  
Contact country: Not reported  
Contact telephone: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EG AND G IC SENSORS (Continued)**

**1000698148**

Contact email: Not reported  
EPA Region: 09  
Land type: Private  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: EG AND G INC  
Owner/operator address: 45 WILLAMS ST  
WELLESLEY, MA 02181  
Owner/operator country: Not reported  
Owner/operator telephone: (617) 431-4265  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999

Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 09/01/1996  
Site name: EG AND G IC SENSORS  
Classification: Small Quantity Generator

Date form received by agency: 03/02/1992  
Site name: ADVANCED MICRO DEVICES, INC.  
Classification: Large Quantity Generator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EG AND G IC SENSORS (Continued)**

**1000698148**

Date form received by agency: 04/03/1991  
Site name: ADVANCED MICRO DEVICES INC  
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 05/22/1984  
Date achieved compliance: 05/30/1984  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 05/30/1984  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 05/22/1984  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 05/30/1984  
Evaluation lead agency: State

FINDS:

Registry ID: 110009555864

Environmental Interest/Information System

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

Registry ID: 110055901449

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EG AND G IC SENSORS (Continued)**

1000698148

Environmental Interest/Information System

D27  
ESE  
1/8-1/4  
0.203 mi.  
1071 ft.

**ADVANCED MICRO DEVICES**  
**2175 MISSION COLLEGE BLVD**  
**SANTA CLARA, CA 95054**

CA SWEEPS UST S106922434  
N/A

Site 4 of 7 in cluster D

Relative:  
Higher

SWEEPS UST:

Status: Active  
Comp Number: 939  
Number: 1  
Board Of Equalization: Not reported  
Referral Date: 05-21-92  
Action Date: 05-21-92  
Created Date: 10-10-90  
Owner Tank Id: 727  
SWRCB Tank Id: 43-010-000939-000001  
Tank Status: A  
Capacity: 2000  
Active Date: 10-10-90  
Tank Use: HAZARDOUS  
STG: W  
Content: MIXED WASTE  
Number Of Tanks: 2

Actual:  
27 ft.

D28  
ESE  
1/8-1/4  
0.203 mi.  
1071 ft.

**ADVANCED MICRO DEVICES INC**  
**2175 MISSION COLLEGE BLVD**  
**SANTA CLARA, CA 95050**

CA NPDES U001601815  
CA HIST UST N/A  
CA SWEEPS UST  
CA EMI

Site 5 of 7 in cluster D

Relative:  
Higher

NPDES:

Npdes Number: CAS000001  
Facility Status: Active  
Agency Id: 0  
Region: 2  
Regulatory Measure Id: 184070  
Order No: 97-03-DWQ  
Regulatory Measure Type: Enrollee  
Place Id: Not reported  
WDID: 2 431012033  
Program Type: Industrial  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: 12/14/1995  
Expiration Date Of Regulatory Measure: Not reported  
Termination Date Of Regulatory Measure: Not reported  
Discharge Name: Perkin Elmer Inc  
Discharge Address: 2175 Mission College Blvd  
Discharge City: Santa Clara  
Discharge State: California  
Discharge Zip: 95054

Actual:  
27 ft.

HIST UST:

Region: STATE  
Facility ID: 00000000939

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ADVANCED MICRO DEVICES INC (Continued)**

**U001601815**

Facility Type: Other  
Other Type: SEMICONDUCTOR MFG.  
Total Tanks: 0011  
Contact Name: GEORGE KERN  
Telephone: 4089709700  
Owner Name: MONOLITHIC MEMORIES, INC.  
Owner Address: 2175 MISSION COLLEGE BLVD.  
Owner City,St,Zip: SANTA CLARA, CA 95050

Tank Num: 001  
Container Num: 07-01  
Year Installed: 1981  
Tank Capacity: 00012000  
Tank Used for: PRODUCT  
Type of Fuel: DIESEL  
Tank Construction: 1/2 inches  
Leak Detection: None

Tank Num: 002  
Container Num: 07-02  
Year Installed: 1981  
Tank Capacity: 00012000  
Tank Used for: PRODUCT  
Type of Fuel: DIESEL  
Tank Construction: 1/2 inches  
Leak Detection: None

Tank Num: 003  
Container Num: 07-03  
Year Installed: 1981  
Tank Capacity: 00003400  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: 0.4 inches  
Leak Detection: Visual

Tank Num: 004  
Container Num: 07-04  
Year Installed: 1981  
Tank Capacity: 00003400  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: 0.4 inches  
Leak Detection: Visual

Tank Num: 005  
Container Num: 07-05  
Year Installed: 1981  
Tank Capacity: 00003400  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: 0.4 inches  
Leak Detection: Visual

Tank Num: 006  
Container Num: 07-06  
Year Installed: 1981

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ADVANCED MICRO DEVICES INC (Continued)**

**U001601815**

Tank Capacity: 00005000  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: 0.4 inches  
Leak Detection: Visual

Tank Num: 007  
Container Num: 07-07  
Year Installed: 1981  
Tank Capacity: 00002000  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: 0.4 inches  
Leak Detection: Visual

Tank Num: 008  
Container Num: 07-08  
Year Installed: 1981  
Tank Capacity: 00000240  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Tank Construction: 0.5 inches  
Leak Detection: Visual

Tank Num: 009  
Container Num: 07-09  
Year Installed: 1981  
Tank Capacity: 00001060  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: 0.4 inches  
Leak Detection: Groundwater Monitoring Well

Tank Num: 010  
Container Num: 07-10  
Year Installed: 1981  
Tank Capacity: 00000470  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: 1/4 inches  
Leak Detection: Groundwater Monitoring Well

Tank Num: 011  
Container Num: 07-11  
Year Installed: 1981  
Tank Capacity: 00000470  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: 1/4 inches  
Leak Detection: Groundwater Monitoring Well

**SWEEPS UST:**

Status: Active  
Comp Number: 939  
Number: 1  
Board Of Equalization: Not reported  
Referral Date: 05-21-92

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ADVANCED MICRO DEVICES INC (Continued)**

**U001601815**

Action Date: 05-21-92  
Created Date: 10-10-90  
Owner Tank Id: T5  
SWRCB Tank Id: 43-010-000939-000002  
Tank Status: A  
Capacity: 740  
Active Date: 05-21-92  
Tank Use: M.V. FUEL  
STG: P  
Content: DIESEL  
Number Of Tanks: Not reported

**EMI:**

Year: 1987  
County Code: 43  
Air Basin: SF  
Facility ID: 3208  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 44  
Reactive Organic Gases Tons/Yr: 25  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 1  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1990  
County Code: 43  
Air Basin: SF  
Facility ID: 3208  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 22  
Reactive Organic Gases Tons/Yr: 13  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 2  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1993  
County Code: 43  
Air Basin: SF  
Facility ID: 3208  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ADVANCED MICRO DEVICES INC (Continued)**

**U001601815**

Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0
Year:	1996
County Code:	43
Air Basin:	SF
Facility ID:	9848
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0
Year:	1997
County Code:	43
Air Basin:	SF
Facility ID:	9848
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0
Year:	1998
County Code:	43
Air Basin:	SF
Facility ID:	9848
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ADVANCED MICRO DEVICES INC (Continued)**

**U001601815**

Year: 1999  
County Code: 43  
Air Basin: SF  
Facility ID: 9848  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 12  
Reactive Organic Gases Tons/Yr: 9  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 1  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2000  
County Code: 43  
Air Basin: SF  
Facility ID: 9848  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 12  
Reactive Organic Gases Tons/Yr: 9  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 1  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2001  
County Code: 43  
Air Basin: SF  
Facility ID: 9848  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Y  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 15  
Reactive Organic Gases Tons/Yr: 12  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 1  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2002  
County Code: 43  
Air Basin: SF  
Facility ID: 9848  
Air District Name: BA  
SIC Code: 3641

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ADVANCED MICRO DEVICES INC (Continued)**

**U001601815**

Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 22  
Reactive Organic Gases Tons/Yr: 18  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 1  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2003  
County Code: 43  
Air Basin: SF  
Facility ID: 9848  
Air District Name: BA  
SIC Code: 3641  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 32  
Reactive Organic Gases Tons/Yr: 26  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 2  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2004  
County Code: 43  
Air Basin: SF  
Facility ID: 9848  
Air District Name: BA  
SIC Code: 3641  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.535  
Reactive Organic Gases Tons/Yr: 0.3851353  
Carbon Monoxide Emissions Tons/Yr: 0.452  
NOX - Oxides of Nitrogen Tons/Yr: 2.207  
SOX - Oxides of Sulphur Tons/Yr: 0.01  
Particulate Matter Tons/Yr: 0.126  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0.125481

Year: 2005  
County Code: 43  
Air Basin: SF  
Facility ID: 9848  
Air District Name: BA  
SIC Code: 3641  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1.234  
Reactive Organic Gases Tons/Yr: .9523329  
Carbon Monoxide Emissions Tons/Yr: .452

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ADVANCED MICRO DEVICES INC (Continued)**

**U001601815**

NOX - Oxides of Nitrogen Tons/Yr: 2.207  
SOX - Oxides of Sulphur Tons/Yr: .01  
Particulate Matter Tons/Yr: .127  
Part. Matter 10 Micrometers & Smlr Tons/Yr: .125986

Year: 2006  
County Code: 43  
Air Basin: SF  
Facility ID: 9848  
Air District Name: BA  
SIC Code: 3641  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2.097  
Reactive Organic Gases Tons/Yr: 1.2169696  
Carbon Monoxide Emissions Tons/Yr: .452  
NOX - Oxides of Nitrogen Tons/Yr: 2.207  
SOX - Oxides of Sulphur Tons/Yr: .01  
Particulate Matter Tons/Yr: .127  
Part. Matter 10 Micrometers & Smlr Tons/Yr: .125986

Year: 2007  
County Code: 43  
Air Basin: SF  
Facility ID: 9848  
Air District Name: BA  
SIC Code: 3641  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 8.921  
Reactive Organic Gases Tons/Yr: 7.0486361  
Carbon Monoxide Emissions Tons/Yr: .471  
NOX - Oxides of Nitrogen Tons/Yr: 2.284  
SOX - Oxides of Sulphur Tons/Yr: .01  
Particulate Matter Tons/Yr: .131  
Part. Matter 10 Micrometers & Smlr Tons/Yr: .128525

Year: 2008  
County Code: 43  
Air Basin: SF  
Facility ID: 9848  
Air District Name: BA  
SIC Code: 3641  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 7.522  
Reactive Organic Gases Tons/Yr: 5.5286718  
Carbon Monoxide Emissions Tons/Yr: .494  
NOX - Oxides of Nitrogen Tons/Yr: 2.379  
SOX - Oxides of Sulphur Tons/Yr: .011  
Particulate Matter Tons/Yr: .134  
Part. Matter 10 Micrometers & Smlr Tons/Yr: .13103

Year: 2008

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ADVANCED MICRO DEVICES INC (Continued)**

**U001601815**

County Code:	43
Air Basin:	SF
Facility ID:	3208
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.047
Reactive Organic Gases Tons/Yr:	.0181894
Carbon Monoxide Emissions Tons/Yr:	.072
NOX - Oxides of Nitrogen Tons/Yr:	.43
SOX - Oxides of Sulphur Tons/Yr:	.002
Particulate Matter Tons/Yr:	.042
Part. Matter 10 Micrometers & Smlr Tons/Yr:	.042
Year:	2009
County Code:	43
Air Basin:	SF
Facility ID:	3208
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.047
Reactive Organic Gases Tons/Yr:	1.8189400000000001E-2
Carbon Monoxide Emissions Tons/Yr:	7.1999999999999995E-2
NOX - Oxides of Nitrogen Tons/Yr:	0.4299999999999999
SOX - Oxides of Sulphur Tons/Yr:	0.002
Particulate Matter Tons/Yr:	4.2000000000000003E-2
Part. Matter 10 Micrometers & Smlr Tons/Yr:	4.2000000000000003E-2
Year:	2009
County Code:	43
Air Basin:	SF
Facility ID:	9848
Air District Name:	BA
SIC Code:	3641
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.3440000000000003
Reactive Organic Gases Tons/Yr:	3.5773505999999999
Carbon Monoxide Emissions Tons/Yr:	0.5200000000000002
NOX - Oxides of Nitrogen Tons/Yr:	2.4849999999999999
SOX - Oxides of Sulphur Tons/Yr:	1.0999999999999999E-2
Particulate Matter Tons/Yr:	0.1360000000000001
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0.1330300000000001
Year:	2010
County Code:	43
Air Basin:	SF
Facility ID:	9848
Air District Name:	BA
SIC Code:	3641
Air District Name:	BAY AREA AQMD

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ADVANCED MICRO DEVICES INC (Continued)**

**U001601815**

Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 3.5230000000000001  
Reactive Organic Gases Tons/Yr: 2.5286381000000002  
Carbon Monoxide Emissions Tons/Yr: 0.5240000000000002  
NOX - Oxides of Nitrogen Tons/Yr: 2.5030000000000001  
SOX - Oxides of Sulphur Tons/Yr: 1.0999999999999999E-2  
Particulate Matter Tons/Yr: 0.138049180327868  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0.1350300000000001

Year: 2010  
County Code: 43  
Air Basin: SF  
Facility ID: 3208  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.047  
Reactive Organic Gases Tons/Yr: 1.8189400000000001E-2  
Carbon Monoxide Emissions Tons/Yr: 7.1999999999999995E-2  
NOX - Oxides of Nitrogen Tons/Yr: 0.4299999999999999  
SOX - Oxides of Sulphur Tons/Yr: 0.002  
Particulate Matter Tons/Yr: 4.2000000000000003E-2  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 4.2000000000000003E-2

Year: 2011  
County Code: 43  
Air Basin: SF  
Facility ID: 9848  
Air District Name: BA  
SIC Code: 3641  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 4.039  
Reactive Organic Gases Tons/Yr: 2.8500151  
Carbon Monoxide Emissions Tons/Yr: 0.52  
NOX - Oxides of Nitrogen Tons/Yr: 2.486  
SOX - Oxides of Sulphur Tons/Yr: 0.011  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2011  
County Code: 43  
Air Basin: SF  
Facility ID: 3208  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.047  
Reactive Organic Gases Tons/Yr: 0.0181894  
Carbon Monoxide Emissions Tons/Yr: 0.072  
NOX - Oxides of Nitrogen Tons/Yr: 0.43

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ADVANCED MICRO DEVICES INC (Continued)**

**U001601815**

SOX - Oxides of Sulphur Tons/Yr:	0.002
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0
Year:	2012
County Code:	43
Air Basin:	SF
Facility ID:	9848
Air District Name:	BA
SIC Code:	3641
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.811
Reactive Organic Gases Tons/Yr:	4.1885864
Carbon Monoxide Emissions Tons/Yr:	0.525
NOX - Oxides of Nitrogen Tons/Yr:	2.508
SOX - Oxides of Sulphur Tons/Yr:	0.011
Particulate Matter Tons/Yr:	0.13996997241
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0.136
Year:	2012
County Code:	43
Air Basin:	SF
Facility ID:	3208
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.047
Reactive Organic Gases Tons/Yr:	0.0181894
Carbon Monoxide Emissions Tons/Yr:	0.072
NOX - Oxides of Nitrogen Tons/Yr:	0.43
SOX - Oxides of Sulphur Tons/Yr:	0.002
Particulate Matter Tons/Yr:	0.042
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0.042

**29**  
**East**  
**1/8-1/4**  
**0.204 mi.**  
**1075 ft.**

**MEMORY DISC MANUFACTURING CO**  
**4255 BURTON DR**  
**SANTA CLARA, CA 95054**

**RCRA-SQG 1000342044**  
**FINDS CAD982040644**

**Relative:**  
**Lower**

RCRA-SQG:  
 Date form received by agency: 09/01/1996  
 Facility name: MEMORY DISC MANUFACTURING CO  
 Facility address: 4255 BURTON DR  
 SANTA CLARA, CA 95054  
 EPA ID: CAD982040644  
 Mailing address: BURTON DR  
 SANTA CLARA, CA 95054  
 Contact: Not reported  
 Contact address: Not reported  
 Not reported  
 Contact country: Not reported  
 Contact telephone: Not reported  
 Contact email: Not reported

**Actual:**  
**26 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MEMORY DISC MANUFACTURING CO (Continued)**

**1000342044**

EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Owner/Operator Summary:**

Owner/operator name: L W SHIMEG  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999

Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

**FINDS:**

Registry ID: 110002785521

**Environmental Interest/Information System**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MEMORY DISC MANUFACTURING CO (Continued)**

**1000342044**

program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**30**  
**ENE**  
**1/8-1/4**  
**0.204 mi.**  
**1077 ft.**

**BRION TECHNOLOGIES**  
**4211 BURTON DR**  
**SANTA CLARA, CA 95054**

**RCRA-SQG** **1000245645**  
**FINDS** **CAD982523136**

**Relative:**  
**Lower**

**RCRA-SQG:**

**Actual:**  
**26 ft.**

Date form received by agency: 04/13/1989  
Facility name: RADIAN RECHNOLOGY INC  
Facility address: 4211 BURTON DRIVE  
SANTA CLARA, CA 95054  
EPA ID: CAD982523136  
Contact: ENVIRONMENTAL MANAGER  
Contact address: 4211 BURTON DRIVE  
SANTA CLARA, CA 95054  
Contact country: US  
Contact telephone: (408) 980-9877  
Contact email: Not reported  
EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Owner/Operator Summary:**

Owner/operator name: RADIAN TECHNOLOGY  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BRION TECHNOLOGIES (Continued)**

**1000245645**

Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

**FINDS:**

Registry ID: 110055902180

Environmental Interest/Information System  
Registry ID: 110002841658

**Environmental Interest/Information System**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**31**  
**West**  
**1/8-1/4**  
**0.222 mi.**  
**1170 ft.**

**DATA DOMAIN LLC**  
**2421 MISSION COLLEGE BLVD**  
**SANTA CLARA, CA 95054**

**RCRA-SQG 1000314833**  
**FINDS CAD981387681**  
**CA HAZNET**  
**CA EMI**

**Relative:**  
**Higher**

**RCRA-SQG:**

Date form received by agency: 02/18/1986  
Facility name: STANFORD TELECOMMUNICATIONS, INC  
Facility address: 2421 MISSION COLLEGE BLVD  
SANTA CLARA, CA 95054  
EPA ID: CAD981387681  
Contact: ENVIRONMENTAL MANAGER  
Contact address: 2421 MISSION COLLEGE BLVD  
SANTA CLARA, CA 95054  
Contact country: US  
Contact telephone: (408) 748-1010  
Contact email: Not reported  
EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Owner/Operator Summary:**

Owner/operator name: SOBRATO DEV CORP  
Owner/operator address: NOT REQUIRED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DATA DOMAIN LLC (Continued)**

**1000314833**

Owner/operator country: NOT REQUIRED, ME 99999  
Owner/operator telephone: Not reported  
Legal status: (415) 555-1212  
Owner/Operator Type: Private  
Owner/Op start date: Owner  
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
Owner/operator country: NOT REQUIRED, ME 99999  
Owner/operator telephone: Not reported  
Legal status: (415) 555-1212  
Owner/Operator Type: Private  
Owner/Op start date: Operator  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110055712590

Environmental Interest/Information System  
Registry ID: 110055723748

Environmental Interest/Information System  
Registry ID: 110001195466

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DATA DOMAIN LLC (Continued)**

**1000314833**

HAZNET:

Year: 1994  
Gepaid: CAD981387681  
Contact: Not reported  
Telephone: 0000000000  
Mailing Name: Not reported  
Mailing Address: 2421 MISSION COLLEGE BLVD  
Mailing City,St,Zip: SANTA CLARA, CA 950540000  
Gen County: Not reported  
TSD EPA ID: CAD009452657  
TSD County: Not reported  
Waste Category: Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)  
Disposal Method: Recycler  
Tons: .4587  
Facility County: Santa Clara

Year: 1993  
Gepaid: CAD981387681  
Contact: Not reported  
Telephone: 0000000000  
Mailing Name: Not reported  
Mailing Address: 2421 MISSION COLLEGE BLVD  
Mailing City,St,Zip: SANTA CLARA, CA 950540000  
Gen County: Not reported  
TSD EPA ID: CAD050806850  
TSD County: Not reported  
Waste Category: Unspecified solvent mixture  
Disposal Method: Recycler  
Tons: 0.1000000000  
Facility County: Santa Clara

Year: 1993  
Gepaid: CAD981387681  
Contact: Not reported  
Telephone: 0000000000  
Mailing Name: Not reported  
Mailing Address: 2421 MISSION COLLEGE BLVD  
Mailing City,St,Zip: SANTA CLARA, CA 950540000  
Gen County: Not reported  
TSD EPA ID: CAD009452657  
TSD County: Not reported  
Waste Category: Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)  
Disposal Method: Disposal, Other  
Tons: 0.4378000000  
Facility County: Santa Clara

Year: 1993  
Gepaid: CAD981387681  
Contact: Not reported  
Telephone: 0000000000  
Mailing Name: Not reported  
Mailing Address: 2421 MISSION COLLEGE BLVD  
Mailing City,St,Zip: SANTA CLARA, CA 950540000  
Gen County: Not reported  
TSD EPA ID: CAD009452657

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DATA DOMAIN LLC (Continued)**

**1000314833**

TSD County: Not reported  
Waste Category: Laboratory waste chemicals  
Disposal Method: Disposal, Other  
Tons: 0.25  
Facility County: Santa Clara

Year: 1993  
Gepaid: CAD981387681  
Contact: Not reported  
Telephone: 0000000000  
Mailing Name: Not reported  
Mailing Address: 2421 MISSION COLLEGE BLVD  
Mailing City,St,Zip: SANTA CLARA, CA 950540000  
Gen County: Not reported  
TSD EPA ID: CAD074644659  
TSD County: Not reported  
Waste Category: Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)  
Disposal Method: Transfer Station  
Tons: 0.1459  
Facility County: Santa Clara

[Click this hyperlink](#) while viewing on your computer to access 3 additional CA\_HAZNET: record(s) in the EDR Site Report.

EMI:

Year: 1990  
County Code: 43  
Air Basin: SF  
Facility ID: 3866  
Air District Name: BA  
SIC Code: 3671  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2012  
County Code: 43  
Air Basin: SF  
Facility ID: 18666  
Air District Name: BA  
SIC Code: 7374  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.003  
Reactive Organic Gases Tons/Yr: 0.0025101  
Carbon Monoxide Emissions Tons/Yr: 0.006  
NOX - Oxides of Nitrogen Tons/Yr: 0.049  
SOX - Oxides of Sulphur Tons/Yr: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DATA DOMAIN LLC (Continued)**

**1000314833**

Particulate Matter Tons/Yr: 0.0010245901639  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0.001

**D32**  
**ESE**  
**1/8-1/4**  
**0.222 mi.**  
**1172 ft.**

**INTERNAP NETWORK SERVICES**  
**2151 MISSION COLLEGE BLVD**  
**SANTA CLARA, CA 95054**

**RCRA-LQG** **1014386565**  
**FINDS** **CAC002643391**

**Site 6 of 7 in cluster D**

**Relative:**  
**Higher**

RCRA-LQG:

**Actual:**  
**27 ft.**

Date form received by agency: 07/21/2010  
Facility name: INTEL CORPORATION DATA CENTER  
Facility address: 2151 MISSION COLLEGE BLVD.  
SANTA CLARA, CA 95052  
EPA ID: CAC002643391  
Mailing address: MISSION COLLEGE BLVD.  
SANTA CLARA, CA 95054  
Contact: DAWN ADDONIZIO  
Contact address: 2200 MISSION COLLEGE BLVD.  
SANTA CLARA, CA 95054  
Contact country: US  
Contact telephone: (408) 765-3302  
Contact email: DAWN.T.ADDONIZIO@INTEL.COM  
EPA Region: 09  
Classification: Large Quantity Generator  
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: INTEL CORP.UNTIL 8-09 CURRENTLY PACTRUST  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 05/01/1999  
Owner/Op end date: Not reported

Owner/operator name: KOLL/INTEREAL BAY AREA  
Owner/operator address: 2000 WYATT DRIVE SUITE #7  
SANTA CLARA, CA 95054

Owner/operator country: US  
Owner/operator telephone: (408) 588-4630  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 01/01/1999

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTERNAP NETWORK SERVICES (Continued)**

**1014386565**

Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Universal Waste Summary:

Waste type: Batteries  
Accumulated waste on-site: Yes  
Generated waste on-site: No

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002  
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Violation Status: No violations found

FINDS:

Registry ID: 110055856337

Environmental Interest/Information System  
Registry ID: 110055917548

Environmental Interest/Information System

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**D33**  
**ESE**  
**1/8-1/4**  
**0.224 mi.**  
**1185 ft.**

**INTEL CORPORATION**  
**2150 MISSION COLLEGE BLVD, D**  
**SANTA CLARA, CA**

**CA AST**    **A100323553**  
**N/A**

**Site 7 of 7 in cluster D**

**Relative:**  
**Higher**

**AST:**  
Owner: Not reported  
Total Gallons: 6,200  
Certified Unified Program Agencies: Santa Clara City

**Actual:**  
**27 ft.**

**34**  
**SW**  
**1/4-1/2**  
**0.302 mi.**  
**1594 ft.**

**INTEL FREEDOM CIRCLE**  
**3935 FREEDOM CIR**  
**SANTA CLARA, CA 95054**

**CA DEED**    **S105557580**  
**CA VCP**    **N/A**  
**CA ENVIROSTOR**

**Relative:**  
**Higher**

**DEED:**  
Area: PROJECT WIDE  
Sub Area: Not reported  
Site Type: VOLUNTARY CLEANUP  
Status: CERTIFIED / OPERATION & MAINTENANCE  
Agency: Not reported  
Covenant Uploaded: Not reported  
Deed Date(s): 07/22/2004  
EDR Link ID: 43010028

**Actual:**  
**33 ft.**

**VCP:**

Facility ID: 43010028  
Site Type: Voluntary Cleanup  
Site Type Detail: Voluntary Cleanup  
Site Mgmt. Req.: REM, ASP, FOUN, HOS, LUC, NOWN, SCH, FOOD, RES  
Acres: 17  
National Priorities List: NO  
Cleanup Oversight Agencies: SMBRP  
Lead Agency: SMBRP  
Lead Agency Description: DTSC - Site Cleanup Program  
Project Manager: Claude Jemison  
Supervisor: Mark Piros  
Division Branch: Cleanup Berkeley  
Site Code: 201320  
Assembly: 25  
Senate: 10  
Special Programs Code: Voluntary Cleanup Program  
Status: Certified / Operation & Maintenance  
Status Date: 07/27/2004  
Restricted Use: YES  
Funding: Responsible Party  
Lat/Long: 37.38499 / -121.9708  
APN: 104-40-020, 104-40-20, 104-40-21, 104-40-37  
Past Use: AGRICULTURAL - ORCHARD  
Potential COC: 30001, 30013  
Confirmed COC: 30001,30013  
Potential Description: SOIL  
Alias Name: INTEL FREEDOM CIRCLE  
Alias Type: Alternate Name  
Alias Name: 104-40-020  
Alias Type: APN  
Alias Name: 104-40-20

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL FREEDOM CIRCLE (Continued)**

**S105557580**

Alias Type: APN  
Alias Name: 104-40-21  
Alias Type: APN  
Alias Name: 104-40-37  
Alias Type: APN  
Alias Name: 110033615167  
Alias Type: EPA (FRS #)  
Alias Name: 201320  
Alias Type: Project Code (Site Code)  
Alias Name: 43010028  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \*Land Use Restriction Monitoring Report  
Completed Date: 03/05/2012  
Comments: DTSC conducted its annual site visit to check the condition of the cap over contaminated soil and to verify compliance with the Land Use Covenant. Numerous cracks were observed in Parcel 3. However, Intel is collecting soil samples for arsenic analysis on Parcel 3 for the purpose of better defining the area requiring asphalt maintenance. DTSC will make a determination on Parcel 3 after the sampling results are evaluated. No activities prohibited by the Land Use Covenant were observed.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: 5 Year Review Reports  
Completed Date: 01/21/2010  
Comments: The site remains adequately protective of human health and the environment.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Plan  
Completed Date: 05/10/2004  
Comments: Approved O&M Plan. A Soil Management Plan and Health and Safety Plan provide management guidelines that will minimize threat to human health and the environment should future earthwork activities disturb impacted soils at the site.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Workplan  
Completed Date: 09/30/2003  
Comments: Final Removal Action Workplan recommends a clean soil/gravel cap with a minimum thickness of 1 foot over parcels one and two, and an asphalt parking lot and single-story building over parcel three.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Public Notice  
Completed Date: 08/22/2003  
Comments: Published in the San Jose Mercury News on 8/22/2003 and in Spanish in La Oferta on 8/24/2003.

Completed Area Name: PROJECT WIDE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL FREEDOM CIRCLE (Continued)**

**S105557580**

Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Completion Report  
Completed Date: 09/30/2003  
Comments: The Final RAW included approval of the existing Cap as the final remedy over all three parcels.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 07/07/2005  
Comments: Cap Inspection Report signed off 7/7/05.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Risk Assessment Report  
Completed Date: 12/28/2001  
Comments: No increased health risk posed by the Site under current conditions. However, there are areas onsite where soils deeper than one foot have arsenic concentrations above health-based action standards.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Report  
Completed Date: 05/10/2004  
Comments: The Soil Management Plan (as well as the enclosed Health and Safety Plan) provide the soil management guidelines that will minimize the threat to human health and the environment should future earthwork activities disturb impacted soils at the site.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Community Profile  
Completed Date: 08/13/2003  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Phase 1  
Completed Date: 11/20/2000  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 01/18/2006  
Comments: No problems observed on Parcels 1 and 2. The report provides a description of the emergency sewer line repair for Parcel 3 that occurred the end of November 2005.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fact Sheets  
Completed Date: 08/22/2003  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL FREEDOM CIRCLE (Continued)**

**S105557580**

Completed Document Type: Operations and Maintenance Report  
Completed Date: 01/17/2007  
Comments: Report described activities at the site over the past year.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 02/04/2008  
Comments: DTSC has no comments.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Public Notice  
Completed Date: 05/25/2010  
Comments: The 5-yr review completion public notice was published in San Jose Mercury News 5/25/2010

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 03/13/2009  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 04/29/2010  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Public Notice  
Completed Date: 05/27/2010  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 03/04/2011  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 03/07/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 01/24/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 02/21/2014

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL FREEDOM CIRCLE (Continued)**

**S105557580**

Comments: Intel performed an annual inspection as required by the June 14, 2004 Operation and Maintenance Agreement. No breaches, holes in the clean soil/gravel and asphalt cap greater than one foot below the ground surface were observed.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \*Correspondence - Received  
Completed Date: 02/17/2011  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Plan Amendment  
Completed Date: 01/04/2013  
Comments: Intel submitted an Addendum to the Operation and Maintenance Plan that presented the following: 1) an evaluation of current receptors and exposures on the three parcels making up the Intel Freedom Circle Site (Site); 2) results of additional soil sampling conducted on Parcel 3; and 3) revised Figures 2 and 3 and protocol for inspection of Parcel 3 based on the recent and previous sampling results. DTSC has concurred with the conclusion in the Addendum that immediate asphalt maintenance in Parcel 3 is required only when any breaches, holes, and gaps that may result in exposure to soils one foot or more below the existing surface are identified during the annual inspections.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Voluntary Cleanup Consultation  
Completed Date: 05/26/2006  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Inspections/Visit (Non LUR)  
Completed Date: 05/11/2005  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction - Site Inspection/Visit  
Completed Date: 08/11/2006  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: 07/27/2004  
Comments: A clean soil / gravel cap with a minimum thickness of 1 foot exists over the impacted soil on Parcels 1 and 2. An asphalt parking lot and single-story building exist over impacted soil on Parcel 3. This alternative allowed for the lowest short-term risk and provided high long-term protection by preventing direct exposure to impacted soil. The Department has determined that all appropriate removal/remedial actions have been completed and that all acceptable engineering practices were implemented; however, the site requires ongoing

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL FREEDOM CIRCLE (Continued)**

**S105557580**

operation and maintenance (O&M) and monitoring efforts.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Voluntary Cleanup Agreement  
Completed Date: 11/20/2000  
Comments: Intel Corporation entered into the VCA for DTSC to oversee site characterization and remediation activities.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operation & Maintenance Order/Agreement  
Completed Date: 06/14/2004  
Comments: Required operation and maintenance activities for the Cap include (1) annual inspection of the Cap for breaches, holes, and gaps that may result in exposure to soils at or greater than one foot below the existing ground surface; and (2) provisions to repair any significant breaches, holes and gaps to be made immediately.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction  
Completed Date: 07/22/2004  
Comments: Recorded Deed Restriction restricting property use for commercial/industrial enterprises only.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: CEQA - Notice of Exemption  
Completed Date: 09/30/2003  
Comments: The Notice of Exemption concludes that the remedial action will not have a significant effect on the environment because no additional fieldwork will be required in order to implement the currently proposed remedy, groundwater has not been impacted from soil contaminants at the Site, and the Final Health-Based Risk Assessment indicates that no significant risks are present under current Site use provided the cap is maintained.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Letter - Demand  
Completed Date: 07/24/2012  
Comments: Demand letter #1

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 12/14/2011  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 10/12/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL FREEDOM CIRCLE (Continued)**

**S105557580**

Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 10/04/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction - Site Inspection/Visit  
Completed Date: 04/14/2010  
Comments: The gravel-covered portion of the cap on Parcels 1 and 2 appeared in good condition. Numerous asphalt cracks were observed around the storm drain south of Pedro's Restaurant of Parcel 3. Intel was required to repair by 6/30/2010

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction - Site Inspection/Visit  
Completed Date: 11/06/2007  
Comments: Holes and buckling asphalt were observed in the parking lot.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction - Site Inspection/Visit  
Completed Date: 02/09/2009  
Comments: The gravel-covered portion of the cap on Parcels 1 and 2 appeared to be in good condition; Minor wear of the concrete surfaces was observed in Parcel 3. However, major cracks were observed near a storm drain in parking lot south of the Pedro's Restaurant.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 10/27/2009  
Comments: Not reported

Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Operations and Maintenance Report  
Future Due Date: 2015  
Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Operations and Maintenance Report  
Future Due Date: 2016  
Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Operations and Maintenance Report  
Future Due Date: 2017  
Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Operations and Maintenance Report  
Future Due Date: 2018  
Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: 5 Year Review Reports  
Future Due Date: 2015  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL FREEDOM CIRCLE (Continued)**

**S105557580**

Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**ENVIROSTOR:**

Facility ID: 43010028  
Status: Certified / Operation & Maintenance  
Status Date: 07/27/2004  
Site Code: 201320  
Site Type: Voluntary Cleanup  
Site Type Detailed: Voluntary Cleanup  
Acres: 17  
NPL: NO  
Regulatory Agencies: SMBRP  
Lead Agency: SMBRP  
Program Manager: Claude Jemison  
Supervisor: Mark Piros  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Voluntary Cleanup Program  
Restricted Use: YES  
Site Mgmt Req: REM, ASP, FOUN, HOS, LUC, NOWN, SCH, FOOD, RES  
Funding: Responsible Party  
Latitude: 37.38499  
Longitude: -121.9708  
APN: 104-40-020, 104-40-20, 104-40-21, 104-40-37  
Past Use: AGRICULTURAL - ORCHARD  
Potential COC: Arsenic Lead  
Confirmed COC: Arsenic Lead  
Potential Description: SOIL  
Alias Name: INTEL FREEDOM CIRCLE  
Alias Type: Alternate Name  
Alias Name: 104-40-020  
Alias Type: APN  
Alias Name: 104-40-20  
Alias Type: APN  
Alias Name: 104-40-21  
Alias Type: APN  
Alias Name: 104-40-37  
Alias Type: APN  
Alias Name: 110033615167  
Alias Type: EPA (FRS #)  
Alias Name: 201320  
Alias Type: Project Code (Site Code)  
Alias Name: 43010028  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \*Land Use Restriction Monitoring Report  
Completed Date: 03/05/2012  
Comments: DTSC conducted its annual site visit to check the condition of the cap over contaminated soil and to verify compliance with the Land Use Covenant. Numerous cracks were observed in Parcel 3. However, Intel is collecting soil samples for arsenic analysis on Parcel 3 for

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL FREEDOM CIRCLE (Continued)**

**S105557580**

the purpose of better defining the area requiring asphalt maintenance. DTSC will make a determination on Parcel 3 after the sampling results are evaluated. No activities prohibited by the Land Use Covenant were observed.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: 5 Year Review Reports  
Completed Date: 01/21/2010  
Comments: The site remains adequately protective of human health and the environment.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Plan  
Completed Date: 05/10/2004  
Comments: Approved O&M Plan. A Soil Management Plan and Health and Safety Plan provide management guidelines that will minimize threat to human health and the environment should future earthwork activities disturb impacted soils at the site.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Workplan  
Completed Date: 09/30/2003  
Comments: Final Removal Action Workplan recommends a clean soil/gravel cap with a minimum thickness of 1 foot over parcels one and two, and an asphalt parking lot and single-story building over parcel three.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Public Notice  
Completed Date: 08/22/2003  
Comments: Published in the San Jose Mercury News on 8/22/2003 and in Spanish in La Oferta on 8/24/2003.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Completion Report  
Completed Date: 09/30/2003  
Comments: The Final RAW included approval of the existing Cap as the final remedy over all three parcels.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 07/07/2005  
Comments: Cap Inspection Report signed off 7/7/05.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Risk Assessment Report  
Completed Date: 12/28/2001  
Comments: No increased health risk posed by the Site under current conditions. However, there are areas onsite where soils deeper than one foot have arsenic concentrations above health-based action standards.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL FREEDOM CIRCLE (Continued)**

**S105557580**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Report  
Completed Date: 05/10/2004  
Comments: The Soil Management Plan (as well as the enclosed Health and Safety Plan) provide the soil management guidelines that will minimize the threat to human health and the environment should future earthwork activities disturb impacted soils at the site.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Community Profile  
Completed Date: 08/13/2003  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Phase 1  
Completed Date: 11/20/2000  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 01/18/2006  
Comments: No problems observed on Parcels 1 and 2. The report provides a description of the emergency sewer line repair for Parcel 3 that occurred the end of November 2005.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fact Sheets  
Completed Date: 08/22/2003  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 01/17/2007  
Comments: Report described activities at the site over the past year.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 02/04/2008  
Comments: DTSC has no comments.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Public Notice  
Completed Date: 05/25/2010  
Comments: The 5-yr review completion public notice was published in San Jose Mercury News 5/25/2010

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL FREEDOM CIRCLE (Continued)**

**S105557580**

Completed Date: 03/13/2009  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 04/29/2010  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Public Notice  
Completed Date: 05/27/2010  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 03/04/2011  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 03/07/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 01/24/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Report  
Completed Date: 02/21/2014  
Comments: Intel performed an annual inspection as required by the June 14, 2004 Operation and Maintenance Agreement. No breaches, holes in the clean soil/gravel and asphalt cap greater than one foot below the ground surface were observed.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \*Correspondence - Received  
Completed Date: 02/17/2011  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operations and Maintenance Plan Amendment  
Completed Date: 01/04/2013  
Comments: Intel submitted an Addendum to the Operation and Maintenance Plan that presented the following: 1) an evaluation of current receptors and exposures on the three parcels making up the Intel Freedom Circle Site (Site); 2) results of additional soil sampling conducted on Parcel 3; and 3) revised Figures 2 and 3 and protocol for inspection

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL FREEDOM CIRCLE (Continued)**

**S105557580**

of Parcel 3 based on the recent and previous sampling results. DTSC has concurred with the conclusion in the Addendum that immediate asphalt maintenance in Parcel 3 is required only when any breaches, holes, and gaps that may result in exposure to soils one foot or more below the existing surface are identified during the annual inspections.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Voluntary Cleanup Consultation  
Completed Date: 05/26/2006  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Inspections/Visit (Non LUR)  
Completed Date: 05/11/2005  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction - Site Inspection/Visit  
Completed Date: 08/11/2006  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: 07/27/2004  
Comments: A clean soil / gravel cap with a minimum thickness of 1 foot exists over the impacted soil on Parcels 1 and 2. An asphalt parking lot and single-story building exist over impacted soil on Parcel 3. This alternative allowed for the lowest short-term risk and provided high long-term protection by preventing direct exposure to impacted soil. The Department has determined that all appropriate removal/remedial actions have been completed and that all acceptable engineering practices were implemented; however, the site requires ongoing operation and maintenance (O&M) and monitoring efforts.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Voluntary Cleanup Agreement  
Completed Date: 11/20/2000  
Comments: Intel Corporation entered into the VCA for DTSC to oversee site characterization and remediation activities.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Operation & Maintenance Order/Agreement  
Completed Date: 06/14/2004  
Comments: Required operation and maintenance activities for the Cap include (1) annual inspection of the Cap for breaches, holes, and gaps that may result in exposure to soils at or greater than one foot below the existing ground surface; and (2) provisions to repair any significant breaches, holes and gaps to be made immediately.

Completed Area Name: PROJECT WIDE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL FREEDOM CIRCLE (Continued)**

**S105557580**

Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction  
Completed Date: 07/22/2004  
Comments: Recorded Deed Restriction restricting property use for commercial/industrial enterprises only.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: CEQA - Notice of Exemption  
Completed Date: 09/30/2003  
Comments: The Notice of Exemption concludes that the remedial action will not have a significant effect on the environment because no additional fieldwork will be required in order to implement the currently proposed remedy, groundwater has not been impacted from soil contaminants at the Site, and the Final Health-Based Risk Assessment indicates that no significant risks are present under current Site use provided the cap is maintained.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Letter - Demand  
Completed Date: 07/24/2012  
Comments: Demand letter #1

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 12/14/2011  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 10/12/2012  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 10/04/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction - Site Inspection/Visit  
Completed Date: 04/14/2010  
Comments: The gravel-covered portion of the cap on Parcels 1 and 2 appeared in good condition. Numerous asphalt cracks were observed around the storm drain south of Pedro's Restaurant of Parcel 3. Intel was required to repair by 6/30/2010

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction - Site Inspection/Visit  
Completed Date: 11/06/2007  
Comments: Holes and buckling asphalt were observed in the parking lot.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL FREEDOM CIRCLE (Continued)**

**S105557580**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction - Site Inspection/Visit  
Completed Date: 02/09/2009  
Comments: The gravel-covered portion of the cap on Parcels 1 and 2 appeared to be in good condition; Minor wear of the concrete surfaces was observed in Parcel 3. However, major cracks were observed near a storm drain in parking lot south of the Pedro?s Restaurant.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 10/27/2009  
Comments: Not reported

Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Operations and Maintenance Report  
Future Due Date: 2015  
Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Operations and Maintenance Report  
Future Due Date: 2016  
Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Operations and Maintenance Report  
Future Due Date: 2017  
Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Operations and Maintenance Report  
Future Due Date: 2018  
Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: 5 Year Review Reports  
Future Due Date: 2015  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**E35**  
**SSE**  
**1/4-1/2**  
**0.373 mi.**  
**1967 ft.**

**INTEL CORPORATION**  
**3601 JULIETTE LN**  
**SANTA CLARA, CA**  
**Site 1 of 6 in cluster E**

**CA HIST LUST** **S103655336**  
**N/A**

**Relative:**  
**Higher**

HIST LUST SANTA CLARA:  
Region: SANTA CLARA  
Region Code: 2  
SCVWD ID: 06S1W27D01  
Oversite Agency: SFRWQCB  
Date Listed: 1995-08-18 00:00:00  
Closed Date: 1997-02-28 00:00:00

**Actual:**  
**31 ft.**

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**E36**  
**SSE**  
 1/4-1/2  
 0.373 mi.  
 1967 ft.

**INTEL FAB - 1 SITE**  
**3601 JULIETTE LANE**  
**SANTA CLARA, CA**  
**Site 2 of 6 in cluster E**

**CA SLIC**    **S106235039**  
 N/A

**Relative:**  
**Higher**

SLIC REG 2:  
 Region: 2  
 Facility ID: 43S0210  
 Facility Status: Remedial action (cleanup) Underway  
 Date Closed: Not reported  
 Local Case #: Not reported  
 How Discovered: UNK  
 Leak Cause: Not reported  
 Leak Source: Not reported  
 Date Confirmed: Not reported  
 Date Prelim Site Assmnt Workplan Submitted: Not reported  
 Date Preliminary Site Assessment Began: Not reported  
 Date Pollution Characterization Began: Not reported  
 Date Remediation Plan Submitted: Not reported  
 Date Remedial Action Underway: Not reported  
 Date Post Remedial Action Monitoring Began: Not reported

**Actual:**  
**31 ft.**

**E37**  
**SSE**  
 1/4-1/2  
 0.373 mi.  
 1967 ft.

**INTEL CORP, JULIETTE LANE**  
**3601 JULIETTE**  
**SANTA CLARA, CA 95051**  
**Site 3 of 6 in cluster E**

**CA Cortese**    **S100235517**  
**CA HIST CORTESE**    **N/A**  
 CA LUST  
 CA SLIC  
 CA CHMIRS  
 CA DEED  
 CA ENF  
 CA ENVIROSTOR

**Relative:**  
**Higher**

CORTESE:  
 Region: CORTESE  
 Envirostor Id: Not reported  
 Site/Facility Type: Not reported  
 Cleanup Status: Not reported  
 Status Date: Not reported  
 Site Code: Not reported  
 Latitude: Not reported  
 Longitude: Not reported  
 Owner: Not reported  
 Enf Type: Not reported  
 Swat R: Not reported  
 Flag: CORTESE  
 Order No: Not reported  
 Waste Discharge System No: Not reported  
 Effective Date: Not reported  
 Region 2: 2  
 WID Id: 2 438223N02  
 Solid Waste Id No: Not reported  
 Waste Management Uit Name: Not reported

Region: CORTESE  
 Envirostor Id: Not reported  
 Site/Facility Type: Not reported  
 Cleanup Status: Not reported  
 Status Date: Not reported  
 Site Code: Not reported  
 Latitude: Not reported

**Actual:**  
**31 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL CORP, JULIETTE LANE (Continued)**

**S100235517**

Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported  
Flag: CORTESE  
Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: 2  
WID Id: 2 438223N02  
Solid Waste Id No: Not reported  
Waste Management Uit Name: Not reported

**HIST CORTESE:**

Region: CORTESE  
Facility County Code: 43  
Reg By: WBC&D  
Reg Id: 2 438223N02

Region: CORTESE  
Facility County Code: 43  
Reg By: LTNKA  
Reg Id: 43-1956

**LUST:**

Region: STATE  
Global Id: T0608501826  
Latitude: 37.3834  
Longitude: -121.9632  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 07/25/1997  
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
Case Worker: UNK  
Local Agency: SANTA CLARA COUNTY LOP  
RB Case Number: 43-1956  
LOC Case Number: Not reported  
File Location: Not reported  
Potential Media Affect: Under Investigation  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

**Contact:**

Global Id: T0608501826  
Contact Type: Local Agency Caseworker  
Contact Name: UST CASE WORKER  
Organization Name: SANTA CLARA COUNTY LOP  
Address: 1555 Berger Drive, Suite 300  
City: SAN JOSE  
Email: Not reported  
Phone Number: 4089183400

Global Id: T0608501826  
Contact Type: Regional Board Caseworker  
Contact Name: RB 2

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL CORP, JULIETTE LANE (Continued)**

**S100235517**

Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY STREET, SUITE 1400  
City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

Status History:

Global Id: T0608501826  
Status: Completed - Case Closed  
Status Date: 07/25/1997

Global Id: T0608501826  
Status: Open - Remediation  
Status Date: 08/15/1985

Global Id: T0608501826  
Status: Open - Remediation  
Status Date: 11/15/1985

Global Id: T0608501826  
Status: Open - Case Begin Date  
Status Date: 02/15/1985

Global Id: T0608501826  
Status: Open - Site Assessment  
Status Date: 02/15/1985

Global Id: T0608501826  
Status: Open - Site Assessment  
Status Date: 07/15/1985

Global Id: T0608501826  
Status: Open - Site Assessment  
Status Date: 07/31/1985

Regulatory Activities:

Global Id: T0608501826  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Discovery

Global Id: T0608501826  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Stopped

Global Id: T0608501826  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Reported

LUST REG 2:

Region: 2  
Facility Id: 43-1956  
Facility Status: Case Closed

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL CORP, JULIETTE LANE (Continued)**

**S100235517**

Case Number: 06S1W27D01  
How Discovered: Tank Closure  
Leak Cause: Structure Failure  
Leak Source: Tank  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assessment Workplan Submitted: 2/15/1985  
Preliminary Site Assessment Began: 7/15/1985  
Pollution Characterization Began: 7/31/1985  
Pollution Remediation Plan Submitted: 8/15/1985  
Date Remediation Action Underway: 11/15/1985  
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:

Region: SANTA CLARA  
SCVWD ID: 06S1W27D01F  
Date Closed: 02/28/1997  
EDR Link ID: 06S1W27D01F

SLIC:

Region: STATE  
**Facility Status: Completed - Case Closed**  
Status Date: 09/21/2005  
Global Id: SL20257875  
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
Lead Agency Case Number: Not reported  
Latitude: 37.388854  
Longitude: -121.96555  
Case Type: Cleanup Program Site  
Case Worker: DIB  
Local Agency: Not reported  
RB Case Number: 43S0210  
File Location: Not reported  
Potential Media Affected: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: \* Petroleum - Diesel fuels  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

CHMIRS:

OES Incident Number: 9991144  
OES notification: Not reported  
OES Date: Not reported  
OES Time: Not reported  
Incident Date: 04-JAN-88  
**Date Completed: 04-JAN-88**  
Property Use: 700  
Agency Id Number: 43090  
Agency Incident Number: 880062  
Time Notified: 1218  
Time Completed: 1331  
Surrounding Area: 700  
Estimated Temperature: Not reported  
Property Management: C  
More Than Two Substances Involved?: N  
Resp Agency Personnel # Of Decontaminated: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**INTEL CORP, JULIETTE LANE (Continued)**

**S100235517**

Responding Agency Personnel # Of Injuries: 0  
Responding Agency Personnel # Of Fatalities: 0  
Others Number Of Decontaminated: 0  
Others Number Of Injuries: 1  
Others Number Of Fatalities: 0  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported  
Vehicle Id Number: Not reported  
CA/DOT/PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: DAVID R. PARKER/15C-1  
Report Date: 30-MAY-88  
Comments: N  
Facility Telephone: 408 984-3084  
Waterway Involved: Not reported  
Waterway: Not reported  
Spill Site: Not reported  
Cleanup By: Not reported  
Containment: Not reported  
What Happened: Not reported  
Type: Not reported  
Measure: Not reported  
Other: Not reported  
Date/Time: Not reported  
Year: 88-92  
Agency: Not reported  
Incident Date: Not reported  
Admin Agency: Not reported  
Amount: Not reported  
Contained: Not reported  
Site Type: Not reported  
E Date: 14-FEB-89  
Substance: Not reported  
Quantity Released: Not reported  
BBLS: Not reported  
Cups: Not reported  
CUFT: Not reported  
Gallons: Not reported  
Grams: Not reported  
Pounds: Not reported  
Liters: Not reported  
Ounces: Not reported  
Pints: Not reported  
Quarts: Not reported  
Sheen: Not reported  
Tons: Not reported  
Unknown: Not reported  
Evacuations: Not reported  
Number of Injuries: Not reported  
Number of Fatalities: Not reported  
Description: Not reported  
  
OES Incident Number: 8800561  
OES notification: Not reported  
OES Date: Not reported  
OES Time: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL CORP, JULIETTE LANE (Continued)**

**S100235517**

Incident Date: 20-FEB-88  
**Date Completed: 20-FEB-88**  
Property Use: 700  
Agency Id Number: 43090  
Agency Incident Number: 880871  
Time Notified: 1430  
Time Completed: 1454  
Surrounding Area: 700  
Estimated Temperature: Not reported  
Property Management: P  
More Than Two Substances Involved?: N  
Resp Agncy Personel # Of Decontaminated: Not reported  
Responding Agency Personel # Of Injuries: Not reported  
Responding Agency Personel # Of Fatalities: Not reported  
Others Number Of Decontaminated: Not reported  
Others Number Of Injuries: Not reported  
Others Number Of Fatalities: Not reported  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported  
Vehicle Id Number: Not reported  
CA/DOT/PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: DAVID R, PARKER / 15C-1  
Report Date: 30-MAY-88  
Comments: N  
Facility Telephone: 408 984-3084  
Waterway Involved: Not reported  
Waterway: Not reported  
Spill Site: Not reported  
Cleanup By: Not reported  
Containment: Not reported  
What Happened: Not reported  
Type: Not reported  
Measure: Not reported  
Other: Not reported  
Date/Time: Not reported  
Year: 88-92  
Agency: Not reported  
Incident Date: Not reported  
Admin Agency: Not reported  
Amount: Not reported  
Contained: Not reported  
Site Type: Not reported  
E Date: Not reported  
Substance: Not reported  
Quantity Released: Not reported  
BBLS: Not reported  
Cups: Not reported  
CUFT: Not reported  
Gallons: Not reported  
Grams: Not reported  
Pounds: Not reported  
Liters: Not reported  
Ounces: Not reported  
Pints: Not reported  
Quarts: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL CORP, JULIETTE LANE (Continued)**

**S100235517**

Sheen: Not reported  
Tons: Not reported  
Unknown: Not reported  
Evacuations: Not reported  
Number of Injuries: Not reported  
Number of Fatalities: Not reported  
Description: Not reported  
  
OES Incident Number: 8904732  
OES notification: Not reported  
OES Date: Not reported  
OES Time: Not reported  
Incident Date: 20-JAN-89  
**Date Completed: 20-JAN-89**  
Property Use: 700  
Agency Id Number: 43090  
Agency Incident Number: 99999  
Time Notified: 53  
Time Completed: 426  
Surrounding Area: 700  
Estimated Temperature: Not reported  
Property Management: P  
More Than Two Substances Involved?: N  
Resp Agncy Personel # Of Decontaminated: 0  
Responding Agency Personel # Of Injuries: 0  
Responding Agency Personel # Of Fatalities: 0  
Others Number Of Decontaminated: 0  
Others Number Of Injuries: 0  
Others Number Of Fatalities: 0  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported  
Vehicle Id Number: Not reported  
CA/DOT/PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: DAVID R PARKER / 15C-1  
Report Date: 06-FEB-89  
Comments: Not reported  
Facility Telephone: 408 984-3084  
Waterway Involved: Not reported  
Waterway: Not reported  
Spill Site: Not reported  
Cleanup By: Not reported  
Containment: Not reported  
What Happened: Not reported  
Type: Not reported  
Measure: Not reported  
Other: Not reported  
Date/Time: Not reported  
Year: 88-92  
Agency: Not reported  
Incident Date: Not reported  
Admin Agency: Not reported  
Amount: Not reported  
Contained: Not reported  
Site Type: Not reported  
E Date: 14-MAY-90

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL CORP, JULIETTE LANE (Continued)**

**S100235517**

Substance: Not reported  
Quantity Released: Not reported  
BBLS: Not reported  
Cups: Not reported  
CUFT: Not reported  
Gallons: Not reported  
Grams: Not reported  
Pounds: Not reported  
Liters: Not reported  
Ounces: Not reported  
Pints: Not reported  
Quarts: Not reported  
Sheen: Not reported  
Tons: Not reported  
Unknown: Not reported  
Evacuations: Not reported  
Number of Injuries: Not reported  
Number of Fatalities: Not reported  
Description: Not reported

**DEED:**

Area: Not reported  
Sub Area: Not reported  
Site Type: SLIC  
Status: COMPLETED - CASE CLOSED  
Agency: SWRCB  
Covenant Uploaded:  
Deed Date(s): 02/11/2003  
EDR Link ID: SL20257875

**ENF:**

Region: 2  
Facility Id: 232531  
Agency Name: Intel Corporation  
Place Type: Facility  
Place Subtype: Not reported  
Facility Type: Industrial  
Agency Type: Privately-Owned Business  
# Of Agencies: 1  
Place Latitude: Not reported  
Place Longitude: Not reported  
SIC Code 1: Not reported  
SIC Desc 1: Not reported  
SIC Code 2: Not reported  
SIC Desc 2: Not reported  
SIC Code 3: Not reported  
SIC Desc 3: Not reported  
NAICS Code 1: Not reported  
NAICS Desc 1: Not reported  
NAICS Code 2: Not reported  
NAICS Desc 2: Not reported  
NAICS Code 3: Not reported  
NAICS Desc 3: Not reported  
# Of Places: 1  
Source Of Facility: Reg Meas  
Design Flow: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL CORP, JULIETTE LANE (Continued)**

**S100235517**

Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 438223N02
Reg Measure Id:	162360
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	222732
Region:	2
Order / Resolution Number:	89-183
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	12/13/1989
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	Enforcement - 2 438223N02
Description:	PROG 161, SITE CLNUP REQMTS.
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**INTEL CORP, JULIETTE LANE (Continued)**

**S100235517**

Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	2
Facility Id:	232531
Agency Name:	Intel Corporation
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 438223N02
Reg Measure Id:	162360
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL CORP, JULIETTE LANE (Continued)**

**S100235517**

Termination Date: Not reported  
WDR Review - Amend: Not reported  
WDR Review - Revise/Renew: Not reported  
WDR Review - Rescind: Not reported  
WDR Review - No Action Required: Not reported  
WDR Review - Pending: Not reported  
WDR Review - Planned: Not reported  
Status Enrollee: N  
Individual/General: I  
Fee Code: Not reported  
Direction/Voice: Passive  
Enforcement Id(EID): 221714  
Region: 2  
Order / Resolution Number: R2-1999-0044  
Enforcement Action Type: Clean-up and Abatement Order  
Effective Date: 06/16/1999  
Adoption/Issuance Date: Not reported  
Achieve Date: Not reported  
Termination Date: Not reported  
ACL Issuance Date: Not reported  
EPL Issuance Date: Not reported  
Status: Active  
Title: Enforcement - 2 438223N02  
Description: REVISION TO ORDER 89-183  
Program: UNREGS  
Latest Milestone Completion Date: Not reported  
# Of Programs1: 1  
Total Assessment Amount: 0  
Initial Assessed Amount: 0  
Liability \$ Amount: 0  
Project \$ Amount: 0  
Liability \$ Paid: 0  
Project \$ Completed: 0  
Total \$ Paid/Completed Amount: 0

**ENVIROSTOR:**

Facility ID: 43360109  
Status: Refer: RWQCB  
Status Date: 03/25/1995  
Site Code: Not reported  
Site Type: Historical  
Site Type Detailed: \* Historical  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Referred - Not Assigned  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.39416  
Longitude: -121.9641

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL CORP, JULIETTE LANE (Continued)**

**S100235517**

APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: CAD000626697  
Alias Type: EPA Identification Number  
Alias Name: 110018976991  
Alias Type: EPA (FRS #)  
Alias Name: 43360109  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Discovery  
Completed Date: 09/09/1990  
Comments: FACILITY IDENTIFIED IDENTIFIED VIA FIT PA REPORT

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**E38**  
**SSE**  
**1/4-1/2**  
**0.373 mi.**  
**1967 ft.**

**INTEL CORP-RNB**  
**2200 MISSION COLLEGE BLVD.**  
**SANTA CLARA, CA 95054**

**CERC-NFRAP** **1015732603**  
**RCRA-LQG** **CAD000626697**  
**FINDS**

**Site 4 of 6 in cluster E**

**Relative:**  
**Higher**

CERC-NFRAP:  
Site ID: 0900927  
Federal Facility: Not a Federal Facility  
NPL Status: Not on the NPL  
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

**Actual:**  
**31 ft.**

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID: 13287315.00000  
Person ID: 13003854.00000

Contact Sequence ID: 13292910.00000  
Person ID: 13003858.00000

Contact Sequence ID: 13298768.00000  
Person ID: 13004003.00000

CERCLIS-NFRAP Site Alias Name(s):

Alias Name: ITEL FAB 1  
Alias Address: Not reported  
CA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL CORP-RNB (Continued)**

**1015732603**

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY  
Date Started: / /  
Date Completed: 01/01/87  
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT  
Date Started: 02/01/87  
Date Completed: 05/01/87  
Priority Level: Low priority for further assessment

Action: ARCHIVE SITE  
Date Started: / /  
Date Completed: 09/24/90  
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 09/24/90  
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

RCRA-LQG:

Date form received by agency: 03/16/2012  
Facility name: INTEL CORPORATION  
Facility address: 2200 MISSION COLLEGE BLVD.  
SANTA CLARA, CA 95054  
EPA ID: CAD000626697  
Mailing address: MISSION COLLEGE BLVD.  
RNB2-103  
SANTA CLARA, CA 95054  
Contact: DAWN T ADDONIZIO  
Contact address: MISSION COLLEGE BLVD. RNB2-103  
SANTA CLARA, CA 95054  
Contact country: Not reported  
Contact telephone: (408) 765-3302  
Contact email: DAWN.T.ADDONIZIO@INTEL.COM  
EPA Region: 09  
Land type: Private  
Classification: Large Quantity Generator  
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: INTEL CORPORATION  
Owner/operator address: MISSION COLLEGE BLVD. RNB2-103  
SANTA CLARA, CA 95054

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL CORP-RNB (Continued)**

**1015732603**

Owner/operator country: US  
Owner/operator telephone: (408) 765-3302  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 05/01/1989  
Owner/Op end date: Not reported

Owner/operator name: INTEL CORPORATION  
Owner/operator address: MISSION COLLEGE BLVD. RNB2-103  
SANTA CLARA, CA 95054

Owner/operator country: Not reported  
Owner/operator telephone: (408) 765-3302  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 05/01/1989  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Universal Waste Summary:

Waste type: E  
Accumulated waste on-site: No  
Generated waste on-site: Yes

Waste type: Batteries  
Accumulated waste on-site: Yes  
Generated waste on-site: No

Waste type: Lamps  
Accumulated waste on-site: Yes  
Generated waste on-site: No

Waste type: Thermostats  
Accumulated waste on-site: Yes  
Generated waste on-site: No

Historical Generators:

Date form received by agency: 07/22/2010  
Site name: INTEL CORPORATION D2 MISSION CAMPUS  
Classification: Large Quantity Generator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL CORP-RNB (Continued)**

**1015732603**

Date form received by agency: 02/15/2008  
Site name: INTEL CORPORATION - D2 / MISSION CAMPUS  
Classification: Large Quantity Generator

Date form received by agency: 02/03/2006  
Site name: INTEL CORPORATION - D2 / MISSION CAMPUS  
Classification: Large Quantity Generator

Date form received by agency: 02/26/2004  
Site name: INTEL CORPORATION - D2 / MISSION CAMPUS  
Classification: Large Quantity Generator

Date form received by agency: 02/28/2002  
Site name: INTEL CORPORATION - D2 / MISSION CAMPUS  
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000  
Site name: INTEL CORPORATION - MISSION CAMPUS D2  
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999  
Site name: INTEL CORPORATION - MISSION CAMPUS D2  
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996  
Site name: INTEL CORPORATION FABRICATION SITE 1A  
Classification: Large Quantity Generator

Date form received by agency: 02/29/1996  
Site name: INTEL CORPORATION-MISSION CAMPUS  
Classification: Large Quantity Generator

Date form received by agency: 03/30/1994  
Site name: INTEL CORP-MISSION CAMPUS  
Classification: Large Quantity Generator

Date form received by agency: 03/27/1992  
Site name: INTEL CORPORATION - MISSION CAMPUS  
Classification: Large Quantity Generator

Date form received by agency: 07/15/1980  
Site name: INTEL CORPORATION FABRICATION SITE 1A  
Classification: Large Quantity Generator

**Hazardous Waste Summary:**

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002  
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL CORP-RNB (Continued)**

**1015732603**

CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003  
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D004  
Waste name: ARSENIC

Waste code: D007  
Waste name: CHROMIUM

Waste code: D008  
Waste name: LEAD

Waste code: D009  
Waste name: MERCURY

Waste code: D011  
Waste name: SILVER

Waste code: D018  
Waste name: BENZENE

Waste code: D035  
Waste name: METHYL ETHYL KETONE

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: U031  
Waste name: 1-BUTANOL (I)

Waste code: U188  
Waste name: PHENOL

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:

Waste code: D001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL CORP-RNB (Continued)**

**1015732603**

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Amount (Lbs): 9685

Waste code: D002  
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Amount (Lbs): 19669.9

Waste code: D003  
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Amount (Lbs): 4853

Waste code: D004  
Waste name: ARSENIC  
Amount (Lbs): 6320

Waste code: D007  
Waste name: CHROMIUM  
Amount (Lbs): 4837

Waste code: D008  
Waste name: LEAD  
Amount (Lbs): 67885.3

Waste code: D009  
Waste name: MERCURY  
Amount (Lbs): 29

Waste code: D011  
Waste name: SILVER  
Amount (Lbs): 4837

Waste code: D018  
Waste name: BENZENE  
Amount (Lbs): 4922

Waste code: D035  
Waste name: METHYL ETHYL KETONE  
Amount (Lbs): 5072

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL CORP-RNB (Continued)**

**1015732603**

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Amount (Lbs): 5244

Waste code: U031  
Waste name: 1-BUTANOL (I)  
Amount (Lbs): 4837

Waste code: U188  
Waste name: PHENOL  
Amount (Lbs): 4837

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 08/24/2005  
Date achieved compliance: 09/24/2005  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 09/12/2003  
Date achieved compliance: 10/10/2003  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 09/12/2003  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A  
Area of violation: Generators - General  
Date violation determined: 08/09/1995  
Date achieved compliance: 08/09/2000  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL CORP-RNB (Continued)**

**1015732603**

Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A  
Area of violation: Generators - General  
Date violation determined: 04/11/1995  
Date achieved compliance: 08/09/1995  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 09/14/2010  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 11/05/2009  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 05/30/2007  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 08/24/2005  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 09/24/2005  
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 09/12/2003  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 10/10/2003  
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 08/09/1995  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 08/09/2000  
Evaluation lead agency: State Contractor/Grantee

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL CORP-RNB (Continued)**

**1015732603**

Evaluation date: 04/11/1995  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 08/09/1995  
Evaluation lead agency: State Contractor/Grantee

**FINDS:**

Registry ID: 110055739143

Environmental Interest/Information System

**E39**  
**SSE**  
**1/4-1/2**  
**0.373 mi.**  
**1969 ft.**

**INTEL D2 ENERGY CENTER**  
**3600 JULIETTE LN**  
**SANTA CLARA, CA 95050**  
**Site 5 of 6 in cluster E**

**CA LUST** **S104572824**  
**N/A**

**Relative:**  
**Higher**

**LUST:**

**Actual:**  
**31 ft.**

Region: STATE  
Global Id: T0608574789  
Latitude: 37.385972  
Longitude: -121.966084  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 09/24/2001  
Lead Agency: SANTA CLARA COUNTY LOP  
Case Worker: UST  
Local Agency: SANTA CLARA COUNTY LOP  
RB Case Number: Not reported  
LOC Case Number: Not reported  
File Location: Stored electronically as an E-file  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Diesel  
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

**Contact:**

Global Id: T0608574789  
Contact Type: Local Agency Caseworker  
Contact Name: UST CASE WORKER  
Organization Name: SANTA CLARA COUNTY LOP  
Address: 1555 Berger Drive, Suite 300  
City: SAN JOSE  
Email: Not reported  
Phone Number: 4089183400

Global Id: T0608574789  
Contact Type: Regional Board Caseworker  
Contact Name: ZSC  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY STREET, SUITE 1400  
City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

Status History:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTEL D2 ENERGY CENTER (Continued)**

**S104572824**

Global Id: T0608574789  
Status: Open - Case Begin Date  
Status Date: 08/17/2001

Global Id: T0608574789  
Status: Completed - Case Closed  
Status Date: 09/24/2001

Regulatory Activities:

Global Id: T0608574789  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Reported

LUST SANTA CLARA:

Region: SANTA CLARA  
SCVWD ID: 06S1W27C02F  
Date Closed: 09/24/2001  
EDR Link ID: 06S1W27C02F

**E40**  
**SSE**  
**1/4-1/2**  
**0.373 mi.**  
**1969 ft.**

**INTEL D2 ENERGY CENTER**  
**3600 JULIETTE LN**  
**SANTA CLARA, CA 95050**  
**Site 6 of 6 in cluster E**

**CA LUST** **S105512937**  
**CA HIST LUST** **N/A**

**Relative:**  
**Higher**

LUST REG 2:

Region: 2  
Facility Id: Not reported  
Facility Status: Case Closed  
Case Number: 06S1W27C02f  
How Discovered: Not reported  
Leak Cause: Not reported  
Leak Source: Not reported  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assesment Wokplan Submitted: Not reported  
Preliminary Site Assesment Began: Not reported  
Pollution Characterization Began: Not reported  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

**Actual:**  
**31 ft.**

HIST LUST SANTA CLARA:

Region: SANTA CLARA  
Region Code: 2  
SCVWD ID: 06S1W27C02  
Oversite Agency: SCVWD  
Date Listed: 2001-08-29 00:00:00  
Closed Date: 2001-09-24 00:00:00

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**F41**  
**SSE**  
**1/4-1/2**  
**0.384 mi.**  
**2027 ft.**

**SILICONIX INCORPORATED**  
**2201 LAURELWOOD ROAD**  
**SANTA CLARA, CA 95054**

Site 1 of 3 in cluster F

**FINDS**  
**CA NPDES**  
**CA Cortese**  
**CA SLIC**  
**NY MANIFEST**  
**CA ENF**  
**CA EMI**  
**CA WDS**

**1000247350**  
**N/A**

**Relative:**  
**Higher**

**Actual:**  
**31 ft.**

FINDS:

Registry ID: 110000484459

Environmental Interest/Information System

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

US EPA RACT/BACT/LAER Clearinghouse (RBLC) database contains case-specific information on the "Best Available" air pollution technologies that have been required to reduce the emission of air pollutants from stationary sources (e.g., power plants, steel mills, chemical plants, etc.). RACT, or Reasonably Available Control Technology, is required on existing sources in areas that are not meeting national ambient air quality standards. BACT, or Best Available Control Technology, is required on major new or modified sources in clean areas. LAER, or Lowest Achievable Emission Rate, is required on major new or modified sources in non-attainment areas.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SILICONIX INCORPORATED (Continued)**

**1000247350**

NPDES:

Npdes Number: CAG912003  
Facility Status: Active  
Agency Id: 40968  
Region: 2  
Regulatory Measure Id: 372733  
Order No: R2-2009-0059  
Regulatory Measure Type: Enrollee  
Place Id: 202013  
WDID: 2 438291002  
Program Type: NPDNONMUNIPRCS  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: 12/07/1995  
Expiration Date Of Regulatory Measure: 09/30/2014  
Termination Date Of Regulatory Measure: Not reported  
Discharge Name: Vishay Siliconix, Inc.  
Discharge Address: 2201 Laurelwood Rd  
Discharge City: Santa Clara  
Discharge State: CA  
Discharge Zip: 95054

CORTESE:

Region: CORTESE  
Envirostor Id: Not reported  
Site/Facility Type: Not reported  
Cleanup Status: Not reported  
Status Date: Not reported  
Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported  
Flag: CORTESE  
Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: 2  
WID Id: 2 438291N01  
Solid Waste Id No: Not reported  
Waste Management Uit Name: Not reported

Region: CORTESE  
Envirostor Id: Not reported  
Site/Facility Type: Not reported  
Cleanup Status: Not reported  
Status Date: Not reported  
Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported  
Flag: CORTESE  
Order No: Not reported  
Waste Discharge System No: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SILICONIX INCORPORATED (Continued)**

**1000247350**

Effective Date: Not reported  
Region 2: 2  
WID Id: 2 438291N01  
Solid Waste Id No: Not reported  
Waste Management Uit Name: Not reported

SLIC REG 2:

Region: 2  
Facility ID: 43S0236  
Facility Status: Remedial action (cleanup) Underway  
Date Closed: Not reported  
Local Case #: Not reported  
How Discovered: UNK  
Leak Cause: Not reported  
Leak Source: Not reported  
Date Confirmed: Not reported  
Date Prelim Site Assmnt Workplan Submitted: Not reported  
Date Preliminary Site Assessment Began: Not reported  
Date Pollution Characterization Began: Not reported  
Date Remediation Plan Submitted: Not reported  
Date Remedial Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

NY MANIFEST:

EPA ID: CAD009131392  
Country: USA

Mailing Info:

Name: SILICONIX  
Contact: SILICONIX  
Address: 2201 LAURELWOOD  
City/State/Zip: SANTA CLARA, CA 95045  
Country: USA  
Phone: 408-988-8000

Document ID: NYB4429251  
Manifest Status: Completed after the designated time period for a TSDf to get a copy to the DEC  
Trans1 State ID: 628301513  
Trans2 State ID: 10222PNY  
Generator Ship Date: 920806  
Trans1 Recv Date: 920806  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 920901  
Part A Recv Date: Not reported  
Part B Recv Date: 920915  
Generator EPA ID: CAD009131392  
Trans1 EPA ID: NYD980769947  
Trans2 EPA ID: Not reported  
TSDf ID: NYD000632372  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Quantity: 00010  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 153

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SILICONIX INCORPORATED (Continued)**

**1000247350**

Year: 92

ENF:

Region:	2
Facility Id:	202013
Agency Name:	Not reported
Place Type:	Facility
Place Subtype:	Groundwater Cleanup Site
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	37.395833000000
Place Longitude:	121.966667
SIC Code 1:	3674
SIC Desc 1:	Semiconductors and Related Devices
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	Not reported
Program Category1:	Not reported
Program Category2:	NPDESWW
# Of Programs:	Not reported
WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Not reported
Status Date:	Not reported
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SILICONIX INCORPORATED (Continued)**

**1000247350**

WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	227431
Region:	2
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	09/27/1999
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	09/27/1999
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 438291002
Description:	Not reported
Program:	NPDESWW
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	2
Facility Id:	202013
Agency Name:	Vishay Siliconix, Inc.
Place Type:	Facility
Place Subtype:	Groundwater Cleanup Site
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	37.395833000000
Place Longitude:	121.966667
SIC Code 1:	3674
SIC Desc 1:	Semiconductors and Related Devices
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SILICONIX INCORPORATED (Continued)**

**1000247350**

Design Flow:	0.0144
Threat To Water Quality:	2
Complexity:	B
Pretreatment:	N - POTW does not have EPA approved pretreatment prog.
Facility Waste Type:	Contaminated ground water
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDPNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	2 438291002
Reg Measure Id:	372733
Reg Measure Type:	Enrollee
Region:	2
Order #:	R2-2009-0059
Npdes# CA#:	CAG912003
Major-Minor:	Minor
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	6970
Status:	Active
Status Date:	05/09/2011
Effective Date:	12/07/1995
Expiration/Review Date:	09/30/2014
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	62 - Treatment system to meet priority pollutant limit Category 1
Direction/Voice:	Active
Enforcement Id(EID):	373433
Region:	2
Order / Resolution Number:	Not reported
Enforcement Action Type:	Admin Civil Liability
Effective Date:	03/11/2009
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	10/29/2010
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	2010 March Expediated MMP Offer Letter
Description:	2010 March Expediated MMP Offer Letter for 2201 Laurelwood regarding vinyl chlorine and cis-1,2DCE
Program:	NPDESWW
Latest Milestone Completion Date:	2010-11-01
# Of Programs1:	1
Total Assessment Amount:	6000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SILICONIX INCORPORATED (Continued)**

**1000247350**

Initial Assessed Amount: 0  
Liability \$ Amount: 6000  
Project \$ Amount: 0  
Liability \$ Paid: 6000  
Project \$ Completed: 0  
Total \$ Paid/Completed Amount: 6000

EMI:

Year: 1987  
County Code: 43  
Air Basin: SF  
Facility ID: 646  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 11  
Reactive Organic Gases Tons/Yr: 8  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1990  
County Code: 43  
Air Basin: SF  
Facility ID: 646  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 9  
Reactive Organic Gases Tons/Yr: 5  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1995  
County Code: 43  
Air Basin: SF  
Facility ID: 646  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 10  
Reactive Organic Gases Tons/Yr: 6  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SILICONIX INCORPORATED (Continued)**

**1000247350**

Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1996  
County Code: 43  
Air Basin: SF  
Facility ID: 646  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 10  
Reactive Organic Gases Tons/Yr: 6  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1997  
County Code: 43  
Air Basin: SF  
Facility ID: 646  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 15  
Reactive Organic Gases Tons/Yr: 9  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1998  
County Code: 43  
Air Basin: SF  
Facility ID: 646  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 10  
Reactive Organic Gases Tons/Yr: 6  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1999  
County Code: 43  
Air Basin: SF  
Facility ID: 646

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SILICONIX INCORPORATED (Continued)**

**1000247350**

Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 10  
Reactive Organic Gases Tons/Yr: 7  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2000  
County Code: 43  
Air Basin: SF  
Facility ID: 646  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 10  
Reactive Organic Gases Tons/Yr: 7  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2001  
County Code: 43  
Air Basin: SF  
Facility ID: 646  
Air District Name: BA  
SIC Code: 4931  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 3  
Reactive Organic Gases Tons/Yr: 2  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 1  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 1

Year: 2002  
County Code: 43  
Air Basin: SF  
Facility ID: 646  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 3

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SILICONIX INCORPORATED (Continued)**

**1000247350**

Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers & Smlr Tons/Yr:	1
Year:	2003
County Code:	43
Air Basin:	SF
Facility ID:	646
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers & Smlr Tons/Yr:	1
Year:	2004
County Code:	43
Air Basin:	SF
Facility ID:	646
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.408
Reactive Organic Gases Tons/Yr:	3.865173
Carbon Monoxide Emissions Tons/Yr:	0.012
NOX - Oxides of Nitrogen Tons/Yr:	0.056
SOX - Oxides of Sulphur Tons/Yr:	0.001
Particulate Matter Tons/Yr:	1.01
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0.511934
Year:	2005
County Code:	43
Air Basin:	SF
Facility ID:	646
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.187
Reactive Organic Gases Tons/Yr:	3.9092746
Carbon Monoxide Emissions Tons/Yr:	.044
NOX - Oxides of Nitrogen Tons/Yr:	.199
SOX - Oxides of Sulphur Tons/Yr:	.004
Particulate Matter Tons/Yr:	1.106
Part. Matter 10 Micrometers & Smlr Tons/Yr:	.565124

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SILICONIX INCORPORATED (Continued)**

**1000247350**

Year: 2006  
County Code: 43  
Air Basin: SF  
Facility ID: 646  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 6.366  
Reactive Organic Gases Tons/Yr: 4.0372867  
Carbon Monoxide Emissions Tons/Yr: .073  
NOX - Oxides of Nitrogen Tons/Yr: .333  
SOX - Oxides of Sulphur Tons/Yr: .005  
Particulate Matter Tons/Yr: 1.055  
Part. Matter 10 Micrometers & Smlr Tons/Yr: .544079

Year: 2007  
County Code: 43  
Air Basin: SF  
Facility ID: 646  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 4.144  
Reactive Organic Gases Tons/Yr: 2.533544  
Carbon Monoxide Emissions Tons/Yr: .069  
NOX - Oxides of Nitrogen Tons/Yr: .339  
SOX - Oxides of Sulphur Tons/Yr: .001  
Particulate Matter Tons/Yr: 1.043  
Part. Matter 10 Micrometers & Smlr Tons/Yr: .534299

Year: 2008  
County Code: 43  
Air Basin: SF  
Facility ID: 646  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 62.838  
Reactive Organic Gases Tons/Yr: 51.4665295  
Carbon Monoxide Emissions Tons/Yr: .078  
NOX - Oxides of Nitrogen Tons/Yr: .402  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 1.062  
Part. Matter 10 Micrometers & Smlr Tons/Yr: .545778

Year: 2009  
County Code: 43  
Air Basin: SF  
Facility ID: 646  
Air District Name: BA  
SIC Code: 3674

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SILICONIX INCORPORATED (Continued)**

**1000247350**

Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2.133  
Reactive Organic Gases Tons/Yr: 1.1467375  
Carbon Monoxide Emissions Tons/Yr: 5.0000000000000003E-2  
NOX - Oxides of Nitrogen Tons/Yr: 0.247  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0.86519672131147496  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0.44177499999999997

Year: 2010  
County Code: 43  
Air Basin: SF  
Facility ID: 646  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 3.173  
Reactive Organic Gases Tons/Yr: 1.6599317  
Carbon Monoxide Emissions Tons/Yr: 8.4000000000000005E-2  
NOX - Oxides of Nitrogen Tons/Yr: 0.373  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 1.1501475409835999  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0.58619500000000002

Year: 2011  
County Code: 43  
Air Basin: SF  
Facility ID: 646  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 3.735  
Reactive Organic Gases Tons/Yr: 1.880581  
Carbon Monoxide Emissions Tons/Yr: 0.079  
NOX - Oxides of Nitrogen Tons/Yr: 0.35  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2012  
County Code: 43  
Air Basin: SF  
Facility ID: 646  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2.844  
Reactive Organic Gases Tons/Yr: 1.4292975  
Carbon Monoxide Emissions Tons/Yr: 0.064

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SILICONIX INCORPORATED (Continued)**

**1000247350**

NOX - Oxides of Nitrogen Tons/Yr: 0.297  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 1.4339392956  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0.728

CA WDS:

Facility ID: San Francisco Bay 438291002  
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.  
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.  
NPDES Number: CAG912003 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board  
Subregion: 2  
Facility Telephone: Not reported  
Facility Contact: GEORGE BREEIN  
Agency Name: SILICONIX INC./VISHAY  
Agency Address: 2201 LAURELWOOD RD  
Agency City,St,Zip: SANTA CLARA 95054  
Agency Contact: GEORGE BREEIN  
Agency Telephone: Not reported  
Agency Type: Private  
SIC Code: 3674  
SIC Code 2: Not reported  
Primary Waste Type: Hazardous/Influent or Solid Wastes that contain toxic, corrosive, ignitable or reactive substances and must be managed according to applicable DOHS standards.  
Primary Waste: CNWTRS  
Waste Type2: Not reported  
Waste2: Contaminated Ground Water  
Primary Waste Type: Hazardous/Influent or Solid Wastes that contain toxic, corrosive, ignitable or reactive substances and must be managed according to applicable DOHS standards.  
Secondary Waste: Not reported  
Secondary Waste Type: Not reported  
Design Flow: 0  
Baseline Flow: 0  
Reclamation: No reclamation requirements associated with this facility.  
POTW: The POTW Does not have an approved pretreatment program. Some POTWs may have local pretreatment programs that have not been approved by the regional board and/or EPA.  
Treat To Water: Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.  
Complexity: Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.  
Facility ID: San Francisco Bay 431006538

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SILICONIX INCORPORATED (Continued)**

**1000247350**

Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.

Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.

NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board

Subregion: 2

Facility Telephone: 4085678928

Facility Contact: GEORGE BREEIN

Agency Name: SILICONIX

Agency Address: 2201 Laurelwood Rd

Agency City,St,Zip: Santa Clara 950541593

Agency Contact: GEORGE BREEIN

Agency Telephone: 4089705501

Agency Type: Private

SIC Code: 0

SIC Code 2: Not reported

Primary Waste Type: Not reported

Primary Waste: Not reported

Waste Type2: Not reported

Waste2: Not reported

Primary Waste Type: Not reported

Secondary Waste: Not reported

Secondary Waste Type: Not reported

Design Flow: 0

Baseline Flow: 0

Reclamation: Not reported

POTW: Not reported

Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

F42  
 SSE  
 1/4-1/2  
 0.384 mi.  
 2027 ft.

**SILICONIX INC.**  
**2201 LAURELWOOD**  
**SANTA CLARA, CA 95054**  
 Site 2 of 3 in cluster F

**CA NPDES S100275287**  
**CA HIST CORTESE N/A**  
**CA SLIC**  
**CA CHMIRS**  
**CA ENF**  
**CA ENVIROSTOR**

Relative:  
 Higher

NPDES:  
 Npdes Number: CAS000001  
 Facility Status: Active  
 Agency Id: 0  
 Region: 2  
 Regulatory Measure Id: 183838

Actual:  
 31 ft.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SILICONIX INC. (Continued)**

**S100275287**

Order No: 97-03-DWQ  
Regulatory Measure Type: Enrollee  
Place Id: Not reported  
WDID: 2 43I006538  
Program Type: Industrial  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: 04/27/1992  
Expiration Date Of Regulatory Measure: Not reported  
Termination Date Of Regulatory Measure: Not reported  
Discharge Name: John Noftz  
Discharge Address: 2201 Laurelwood Rd  
Discharge City: Santa Clara  
Discharge State: California  
Discharge Zip: 95054

**HIST CORTESE:**

Region: CORTESE  
Facility County Code: 43  
Reg By: WBC&D  
Reg Id: 2 438291N01

**SLIC:**

Region: STATE  
**Facility Status: Open - Remediation**  
Status Date: 07/30/2002  
Global Id: SL20230848  
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
Lead Agency Case Number: Not reported  
Latitude: 37.381579  
Longitude: -121.959681  
Case Type: Cleanup Program Site  
Case Worker: DIB  
Local Agency: Not reported  
RB Case Number: 43S0236  
File Location: Regional Board  
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil, Soil Vapor  
Potential Contaminants of Concern: Other Chlorinated Hydrocarbons, Trichloroethylene (TCE)  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

**CHMIRS:**

OES Incident Number: 8910163  
OES notification: Not reported  
OES Date: Not reported  
OES Time: Not reported  
Incident Date: 27-FEB-89  
**Date Completed: 27-FEB-89**  
Property Use: 700  
Agency Id Number: 43090  
Agency Incident Number: 891033  
Time Notified: 1219  
Time Completed: 1241  
Surrounding Area: 700  
Estimated Temperature: Not reported  
Property Management: P

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SILICONIX INC. (Continued)**

**S100275287**

More Than Two Substances Involved?: N  
Resp Agency Personnel # Of Decontaminated: 0  
Responding Agency Personnel # Of Injuries: 0  
Responding Agency Personnel # Of Fatalities: 0  
Others Number Of Decontaminated: 0  
Others Number Of Injuries: 0  
Others Number Of Fatalities: 0  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported  
Vehicle Id Number: Not reported  
CA/DOT/PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: DAVID R PARKER 15C-1  
Report Date: 07-MAR-89  
Comments: Not reported  
Facility Telephone: 408 984-3084  
Waterway Involved: Not reported  
Waterway: Not reported  
Spill Site: Not reported  
Cleanup By: Not reported  
Containment: Not reported  
What Happened: Not reported  
Type: Not reported  
Measure: Not reported  
Other: Not reported  
Date/Time: Not reported  
Year: 88-92  
Agency: Not reported  
Incident Date: Not reported  
Admin Agency: Not reported  
Amount: Not reported  
Contained: Not reported  
Site Type: Not reported  
E Date: 04-MAY-90  
Substance: Not reported  
Quantity Released: Not reported  
BBLs: Not reported  
Cups: Not reported  
CUFT: Not reported  
Gallons: Not reported  
Grams: Not reported  
Pounds: Not reported  
Liters: Not reported  
Ounces: Not reported  
Pints: Not reported  
Quarts: Not reported  
Sheen: Not reported  
Tons: Not reported  
Unknown: Not reported  
Evacuations: Not reported  
Number of Injuries: Not reported  
Number of Fatalities: Not reported  
Description: Not reported

ENF:

Region: 2

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SILICONIX INC. (Continued)**

**S100275287**

Facility Id:	257059
Agency Name:	Vishay Siliconix, Inc.
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	37.384343000000
Place Longitude:	-121.962878
SIC Code 1:	3674
SIC Desc 1:	Semiconductors and Related Devices
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 438291N01
Reg Measure Id:	162319
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SILICONIX INC. (Continued)**

**S100275287**

WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	219838
Region:	2
Order / Resolution Number:	89-027
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	02/15/1989
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	Enforcement - 2 438291N01
Description:	ENF ORDER
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	2
Facility Id:	257059
Agency Name:	Vishay Siliconix, Inc.
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	37.384343000000
Place Longitude:	-121.962878
SIC Code 1:	3674
SIC Desc 1:	Semiconductors and Related Devices
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SILICONIX INC. (Continued)**

**S100275287**

Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 438291N01
Reg Measure Id:	162319
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	219826
Region:	2
Order / Resolution Number:	91-026
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	02/20/1991
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	Enforcement - 2 438291N01
Description:	SCR-AMEND EXISTING SCR TO REVISE 2 TASK DEADLINES
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SILICONIX INC. (Continued)**

**S100275287**

Total \$ Paid/Completed Amount: 0

**ENVIROSTOR:**

Facility ID: 43380018  
Status: Refer: RWQCB  
Status Date: 12/09/1989  
Site Code: Not reported  
Site Type: Historical  
Site Type Detailed: \* Historical  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Patrick Lee  
Supervisor: Referred - Not Assigned  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.38408  
Longitude: -121.9656  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: CAD009131392  
Alias Type: EPA Identification Number  
Alias Name: 110000484459  
Alias Type: EPA (FRS #)  
Alias Name: 43380018  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Discovery  
Completed Date: 12/09/1989  
Comments: Facility identified via EPA Federal Investigation Team (FIT) Preliminary Assessment (PA). EPA completed PA and recommend medium-priority Screening Site Inspection (SSI). Location Information: Site is located near the intersection of Montague Expressway and the Bayshore Freeway (Hwy 101) in Township 6 South, Range 2 West, Section 27.

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SILICONIX INC. (Continued)**

**S100275287**

Facility ID: 71002263  
Status: Inactive - Needs Evaluation  
Status Date: Not reported  
Site Code: Not reported  
Site Type: Tiered Permit  
Site Type Detailed: Tiered Permit  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Not reported  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.38408  
Longitude: -121.9654  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: CAD009131392  
Alias Type: EPA Identification Number  
Alias Name: 110000484459  
Alias Type: EPA (FRS #)  
Alias Name: 71002263  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: Not reported  
Completed Sub Area Name: Not reported  
Completed Document Type: Not reported  
Completed Date: Not reported  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**F43**      **AT&T MOBILITY**  
**SSE**      **2201 LAURELWOOD RD**  
**1/4-1/2**    **SANTA CLARA, CA 95054**  
**0.384 mi.**  
**2027 ft.**    **Site 3 of 3 in cluster F**

**CERCLIS**    **1015730621**  
**RCRA-LQG**   **95054SLCNX2201L**  
**TRIS**  
**FINDS**

**Relative:**  
**Higher**

CERCLIS:  
Site ID: 0903476  
EPA ID: CAD009131392  
Facility County: SANTA CLARA  
Short Name: SILICONIX INC  
Congressional District: 13  
IFMS ID: Not reported  
SMSA Number: 7400  
USGC Hydro Unit: 18050003  
Federal Facility: Not a Federal Facility  
DMNSN Number: 0.00000  
Site Orphan Flag: N  
RCRA ID: Not reported  
USGS Quadrangle: Not reported  
Site Init By Prog: Not reported  
NFRAP Flag: Not reported  
Parent ID: Not reported  
RST Code: Not reported  
EPA Region: 09  
Classification: Not reported  
Site Settings Code: Not reported  
NPL Status: Not on the NPL  
DMNSN Unit Code: Not reported  
RBRAC Code: Not reported  
RResp Fed Agency Code: Not reported  
Non NPL Status: SI Start Needed  
Non NPL Status Date: 12/09/89  
Site Fips Code: 06085  
CC Concurrence Date: / /  
CC Concurrence FY: Not reported  
Alias EPA ID: Not reported  
Site FUDS Flag: Not reported

**Actual:**  
**31 ft.**

CERCLIS Site Contact Name(s):

Contact ID: 13003854.00000  
Contact Name: Leslie Ramirez  
Contact Tel: (415) 972-3978  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: Not reported

Contact ID: 13003858.00000  
Contact Name: Sharon Murray  
Contact Tel: (415) 972-4250  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: Not reported

Contact ID: 13004003.00000  
Contact Name: Carl Brickner  
Contact Tel: Not reported  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: Not reported

Alias Comments: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AT&T MOBILITY (Continued)**

**1015730621**

Site Description: Not reported

CERCLIS Assessment History:

Action Code: 001  
Action: DISCOVERY  
Date Started: / /  
Date Completed: 07/01/88  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: State, Fund Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

Action Code: 001  
Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 12/09/89  
Priority Level: Low priority for further assessment  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

RCRA-LQG:

Date form received by agency: 03/27/2013  
Facility name: VISHAY SILICONIX, INC.  
Facility address: 2201 LAURELWOOD ROAD  
SANTA CLARA, CA 95054  
EPA ID: CAD009131392  
Mailing address: LAURELWOOD ROAD  
SANTA CLARA, CA 95054  
Contact: RONALD VITUG  
Contact address: LAURELWOOD ROAD  
SANTA CLARA, CA 95054  
Contact country: US  
Contact telephone: (408) 988-8000  
Contact email: RONALD.VITUG@VISHAY.COM  
EPA Region: 09  
Land type: Private  
Classification: Large Quantity Generator  
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AT&T MOBILITY (Continued)**

**1015730621**

Owner/Operator Summary:

Owner/operator name: VISHAY INTERTECHNOLOGY INC  
Owner/operator address: LINCOLN HIGHWAY  
MALVERN, PA 19355  
Owner/operator country: US  
Owner/operator telephone: (610) 644-1300  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 03/01/1999  
Owner/Op end date: Not reported

Owner/operator name: SERGE JAUNAY  
Owner/operator address: LAURELWOOD ROAD  
SANTA CLARA, CA 95054  
Owner/operator country: US  
Owner/operator telephone: (408) 988-8000  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 04/09/2009  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 06/01/2010  
Site name: VISHAY SILICONIX, INC  
Classification: Large Quantity Generator

Date form received by agency: 02/28/2008  
Site name: VISHAY SILICONIX, INC  
Classification: Large Quantity Generator

Date form received by agency: 02/27/2006  
Site name: VISHAY SILICONIX INC  
Classification: Large Quantity Generator

Date form received by agency: 02/27/2004  
Site name: VISHAY SILICONIX, INC  
Classification: Large Quantity Generator

Date form received by agency: 02/22/2002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AT&T MOBILITY (Continued)**

**1015730621**

Site name: VISHAY SILICONIX INC.  
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000  
Site name: SILICONIX, INC.  
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999  
Site name: SILICONIX, INC.  
Classification: Large Quantity Generator

Date form received by agency: 02/09/1998  
Site name: SILICONIX INC  
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996  
Site name: SILICONIX INC  
Classification: Large Quantity Generator

Date form received by agency: 03/04/1996  
Site name: SILICONIX, INC  
Classification: Large Quantity Generator

Date form received by agency: 03/29/1994  
Site name: SILICONIX INCORPORATED  
Classification: Large Quantity Generator

Date form received by agency: 02/11/1992  
Site name: SILICONIX INC  
Classification: Large Quantity Generator

Date form received by agency: 03/07/1990  
Site name: SILICONIX INC  
Classification: Large Quantity Generator

Date form received by agency: 08/14/1980  
Site name: SILICONIX INC  
Classification: Large Quantity Generator

Date form received by agency: 08/14/1980  
Site name: SILICONIX INC  
Classification: Large Quantity Generator

**Hazardous Waste Summary:**

Waste code: 121  
Waste name: 121

Waste code: 135  
Waste name: 135

Waste code: 141  
Waste name: 141

Waste code: 181  
Waste name: 181

Waste code: 212

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

AT&T MOBILITY (Continued)

1015730621

Waste name: 212

Waste code: 213

Waste name: 213

Waste code: 331

Waste name: 331

Waste code: 343

Waste name: 343

Waste code: 352

Waste name: 352

Waste code: 513

Waste name: 513

Waste code: 551

Waste name: 551

Waste code: 711

Waste name: 711

Waste code: 741

Waste name: 741

Waste code: 791

Waste name: 791

Waste code: 792

Waste name: 792

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003

Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AT&T MOBILITY (Continued)**

**1015730621**

Waste code: D004  
Waste name: ARSENIC

Waste code: D008  
Waste name: LEAD

Waste code: D011  
Waste name: SILVER

Waste code: F001  
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F006  
Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Waste code: F007  
Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS

Waste code: F008  
Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS WHERE CYANIDES ARE USED IN THE PROCESS.

Waste code: P121

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AT&T MOBILITY (Continued)**

**1015730621**

Waste name: ZINC CYANIDE

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 11/20/2009  
Date achieved compliance: 11/20/2009  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/20/2009  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 10/18/2006  
Date achieved compliance: 12/07/2006  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 10/18/2006  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 10/10/2006  
Date achieved compliance: 12/07/2006  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 10/10/2006  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 12/12/2003  
Date achieved compliance: 01/21/2004  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/22/2003  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AT&T MOBILITY (Continued)**

**1015730621**

Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A  
Area of violation: Generators - General  
Date violation determined: 11/10/1994  
Date achieved compliance: 11/10/1999  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A  
Area of violation: Generators - General  
Date violation determined: 05/25/1994  
Date achieved compliance: 06/27/1994  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

**Evaluation Action Summary:**

Evaluation date: 11/20/2009  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 11/20/2009  
Evaluation lead agency: State

Evaluation date: 06/19/2008  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 07/05/2007  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 10/18/2006  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 12/07/2006  
Evaluation lead agency: State

Evaluation date: 10/10/2006  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AT&T MOBILITY (Continued)**

**1015730621**

Area of violation: Generators - General  
Date achieved compliance: 12/07/2006  
Evaluation lead agency: State

Evaluation date: 11/28/2005  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 12/12/2003  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 01/21/2004  
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 11/10/1994  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 11/10/1999  
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 05/24/1994  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 06/27/1994  
Evaluation lead agency: State Contractor/Grantee

TRIS:

[Click this hyperlink](#) while viewing on your computer to access  
4 additional US\_TRIS: record(s) in the EDR Site Report.

FINDS:

Registry ID: 110055853517

Environmental Interest/Information System  
Registry ID: 110055849952

Environmental Interest/Information System

**G44**  
**SSE**  
**1/4-1/2**  
**0.413 mi.**  
**2181 ft.**

**EXXON #7-3624**  
**2181 LAURELWOOD RD**  
**SANTA CLARA, CA 95054**  
**Site 1 of 2 in cluster G**

**CA LUST S105034162**  
**CA HIST LUST N/A**

**Relative:**  
**Higher**

LUST REG 2:  
Region: 2  
Facility Id: Not reported  
Facility Status: Case Closed  
Case Number: 06S1W27F01f  
How Discovered: Not reported  
Leak Cause: Not reported  
Leak Source: Not reported  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assessment Workplan Submitted: Not reported

**Actual:**  
**31 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON #7-3624 (Continued)**

**S105034162**

Preliminary Site Assessment Began: 2/14/1990  
Pollution Characterization Began: 2/14/1990  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

**HIST LUST SANTA CLARA:**

Region: SANTA CLARA  
Region Code: 2  
SCVWD ID: 06S1W27F01  
Oversite Agency: SCVWD  
Date Listed: 1988-01-01 00:00:00  
Closed Date: 2004-03-04 00:00:00

**G45**  
**SSE**  
**1/4-1/2**  
**0.413 mi.**  
**2181 ft.**

**EXXON #7-3624**  
**2181 LAURELWOOD RD**  
**SANTA CLARA, CA 95054**

**CA HIST CORTESE** **U001601768**  
**CA LUST** **N/A**  
**CA HIST UST**

**Site 2 of 2 in cluster G**

**Relative:**  
**Higher**

**HIST CORTESE:**  
Region: CORTESE  
Facility County Code: 43  
Reg By: LTNKA  
Reg Id: 43-0524

**Actual:**  
**31 ft.**

**LUST:**

Region: STATE  
Global Id: T0608500568  
Latitude: 37.384412  
Longitude: -121.96213  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 03/04/2004  
Lead Agency: SANTA CLARA COUNTY LOP  
Case Worker: UST  
Local Agency: SANTA CLARA COUNTY LOP  
RB Case Number: Not reported  
LOC Case Number: Not reported  
File Location: Stored electronically as an E-file  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

**Contact:**

Global Id: T0608500568  
Contact Type: Local Agency Caseworker  
Contact Name: UST CASE WORKER  
Organization Name: SANTA CLARA COUNTY LOP  
Address: 1555 Berger Drive, Suite 300  
City: SAN JOSE  
Email: Not reported  
Phone Number: 4089183400

Global Id: T0608500568

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON #7-3624 (Continued)**

**U001601768**

Contact Type: Regional Board Caseworker  
Contact Name: ZSC  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY STREET, SUITE 1400  
City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

Status History:

Global Id: T0608500568  
Status: Open - Site Assessment  
Status Date: 02/14/1990

Global Id: T0608500568  
Status: Completed - Case Closed  
Status Date: 03/04/2004

Global Id: T0608500568  
Status: Open - Case Begin Date  
Status Date: 01/30/1987

Regulatory Activities:

Global Id: T0608500568  
Action Type: ENFORCEMENT  
Date: 01/14/1991  
Action: Notice of Responsibility - #40357

Global Id: T0608500568  
Action Type: ENFORCEMENT  
Date: 03/16/1999  
Action: Staff Letter - #31787

Global Id: T0608500568  
Action Type: ENFORCEMENT  
Date: 06/16/1999  
Action: Staff Letter - #31789

Global Id: T0608500568  
Action Type: ENFORCEMENT  
Date: 10/28/1997  
Action: Staff Letter - #31779

Global Id: T0608500568  
Action Type: RESPONSE  
Date: 04/30/1999  
Action: Remedial Progress Report

Global Id: T0608500568  
Action Type: RESPONSE  
Date: 07/31/2000  
Action: Monitoring Report - Quarterly

Global Id: T0608500568  
Action Type: RESPONSE  
Date: 10/31/2000  
Action: Monitoring Report - Quarterly

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON #7-3624 (Continued)**

**U001601768**

Global Id: T0608500568  
Action Type: RESPONSE  
Date: 01/31/2001  
Action: Monitoring Report - Quarterly

Global Id: T0608500568  
Action Type: RESPONSE  
Date: 07/31/1999  
Action: Monitoring Report - Quarterly

Global Id: T0608500568  
Action Type: RESPONSE  
Date: 10/31/1999  
Action: Monitoring Report - Quarterly

Global Id: T0608500568  
Action Type: RESPONSE  
Date: 11/05/1997  
Action: Monitoring Report - Quarterly

Global Id: T0608500568  
Action Type: ENFORCEMENT  
Date: 07/05/2000  
Action: Staff Letter - #31795

Global Id: T0608500568  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Reported

**LUST SANTA CLARA:**

Region: SANTA CLARA  
SCVWD ID: 06S1W27F01F  
Date Closed: 03/04/2004  
EDR Link ID: 06S1W27F01F

**HIST UST:**

Region: STATE  
Facility ID: 00000023983  
Facility Type: Gas Station  
Other Type: Not reported  
Total Tanks: 0004  
Contact Name: CHET JEWELL  
Telephone: 4089886658  
Owner Name: EXXON COMPANY U.S.A.  
Owner Address: 16945 NORTH CHASE BLVD.  
Owner City,St,Zip: HOUSTON, TX 77210

Tank Num: 001  
Container Num: 1  
Year Installed: 1982  
Tank Capacity: 00008000  
Tank Used for: PRODUCT  
Type of Fuel: PREMIUM  
Tank Construction: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON #7-3624 (Continued)**

**U001601768**

Leak Detection: Stock Inventor

Tank Num: 002  
Container Num: 2  
Year Installed: 1982  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

Tank Num: 003  
Container Num: 3  
Year Installed: 1982  
Tank Capacity: 00008000  
Tank Used for: PRODUCT  
Type of Fuel: REGULAR  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

Tank Num: 004  
Container Num: 4  
Year Installed: 1982  
Tank Capacity: 00001000  
Tank Used for: PRODUCT  
Type of Fuel: WASTE OIL  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

**H46**  
**ESE**  
**1/4-1/2**  
**0.423 mi.**  
**2234 ft.**

**PAUL MUNROE HYDRAULICS**  
**3701 THOMAS RD**  
**SANTA CLARA, CA 95054**  
**Site 1 of 3 in cluster H**

**RCRA-SQG 1000274672**  
**FINDS CAD981165939**  
**CA HIST CORTESE**  
**CA LUST**  
**CA HIST UST**  
**CA ENF**  
**CA HAZNET**  
**CA ENVIROSTOR**

**Relative:**  
**Higher**

**Actual:**  
**28 ft.**

RCRA-SQG:  
Date form received by agency: 09/01/1996  
Facility name: PAUL MUNROE HYDRAULICS  
Facility address: 3701 THOMAS RD  
SANTA CLARA, CA 95054  
EPA ID: CAD981165939  
Mailing address: THOMAS RD  
SANTA CLARA, CA 95054  
Contact: Not reported  
Contact address: Not reported  
Not reported  
Contact country: Not reported  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAUL MUNROE HYDRAULICS (Continued)**

**1000274672**

hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: T&M JOINT VENTURE  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002680126

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HIST CORTESE:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAUL MUNROE HYDRAULICS (Continued)**

**1000274672**

Region: CORTESE  
Facility County Code: 43  
Reg By: LTNKA  
Reg Id: 43-1826

**LUST:**

Region: STATE  
Global Id: T0608501753  
Latitude: 37.3857  
Longitude: -121.959  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 05/19/1993  
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
Case Worker: UNK  
Local Agency: SANTA CLARA COUNTY LOP  
RB Case Number: 43-1826  
LOC Case Number: Not reported  
File Location: Not reported  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

**Contact:**

Global Id: T0608501753  
Contact Type: Local Agency Caseworker  
Contact Name: UST CASE WORKER  
Organization Name: SANTA CLARA COUNTY LOP  
Address: 1555 Berger Drive, Suite 300  
City: SAN JOSE  
Email: Not reported  
Phone Number: 4089183400

Global Id: T0608501753  
Contact Type: Regional Board Caseworker  
Contact Name: RB 2  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY STREET, SUITE 1400  
City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

**Status History:**

Global Id: T0608501753  
Status: Open - Site Assessment  
Status Date: 05/30/1987

Global Id: T0608501753  
Status: Open - Site Assessment  
Status Date: 10/04/1988

Global Id: T0608501753  
Status: Completed - Case Closed  
Status Date: 05/19/1993

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAUL MUNROE HYDRAULICS (Continued)**

**1000274672**

Global Id: T0608501753  
Status: Open - Case Begin Date  
Status Date: 03/13/1987

Global Id: T0608501753  
Status: Open - Site Assessment  
Status Date: 03/13/1987

Regulatory Activities:

Global Id: T0608501753  
Action Type: RESPONSE  
Date: 08/13/1996  
Action: Other Report / Document

Global Id: T0608501753  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Discovery

Global Id: T0608501753  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Stopped

Global Id: T0608501753  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Reported

LUST REG 2:

Region: 2  
Facility Id: 43-1826  
Facility Status: Case Closed  
Case Number: 06S1W27C01  
How Discovered: Tank Closure  
Leak Cause: Structure Failure  
Leak Source: Tank  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assessment Workplan Submitted: 3/13/1987  
Preliminary Site Assessment Began: 5/30/1987  
Pollution Characterization Began: 10/4/1988  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:

Region: SANTA CLARA  
SCVWD ID: 06S1W27C01F  
Date Closed: 05/19/1993  
EDR Link ID: 06S1W27C01F

HIST UST:

Region: STATE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAUL MUNROE HYDRAULICS (Continued)**

**1000274672**

Facility ID: 00000054288  
Facility Type: Not reported  
Other Type: HYDRAULIC DISTRIBUTO  
Total Tanks: 0004  
Contact Name: GHIGLERI, NORM  
Telephone: 2136926912  
Owner Name: PAUL MONROE HYDRAULICS INC.  
Owner Address: 9999 ROSE HILLS ROAD  
Owner City,St,Zip: WHITTIER, CA 90601

Tank Num: 001  
Container Num: ONE  
Year Installed: 1979  
Tank Capacity: 00001000  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: 4 inches  
Leak Detection: Visual

Tank Num: 002  
Container Num: ONE  
Year Installed: 1984  
Tank Capacity: 00000620  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: 4 inches  
Leak Detection: Visual

Tank Num: 003  
Container Num: ONE  
Year Installed: 1975  
Tank Capacity: 00000500  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: 4 inches  
Leak Detection: Visual

Tank Num: 004  
Container Num: 1  
Year Installed: 1983  
Tank Capacity: 00000750  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: 10 gauge  
Leak Detection: None

Tank Num: 005  
Container Num: ONE  
Year Installed: Not reported  
Tank Capacity: 00001000  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: 4 inches  
Leak Detection: Visual

ENF:

Region:

2

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAUL MUNROE HYDRAULICS (Continued)**

**1000274672**

Facility Id:	259789
Agency Name:	SWEETLAND CORP./PAUL MUNROE HY
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	DISCHLND
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 438306N01
Reg Measure Id:	163015
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	06/17/2005
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAUL MUNROE HYDRAULICS (Continued)**

**1000274672**

WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	219488
Region:	2
Order / Resolution Number:	92-069
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	06/17/1992
Adoption/Issuance Date:	Not reported
Achieve Date:	1993-05-19
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 438306N01
Description:	SCR-
Program:	DISCHLND
Latest Milestone Completion Date:	1993-05-19
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	2
Facility Id:	259789
Agency Name:	SWEETLAND CORP./PAUL MUNROE HY
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAUL MUNROE HYDRAULICS (Continued)**

**1000274672**

Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	DISCHLND
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 438306N01
Reg Measure Id:	163015
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	06/17/2005
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	219483
Region:	2
Order / Resolution Number:	90-062
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	05/16/1990
Adoption/Issuance Date:	Not reported
Achieve Date:	1992-06-17
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 438306N01
Description:	SCR-
Program:	DISCHLND
Latest Milestone Completion Date:	1992-06-17
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAUL MUNROE HYDRAULICS (Continued)**

**1000274672**

Total \$ Paid/Completed Amount:	0
Region:	2
Facility Id:	259789
Agency Name:	SWEETLAND CORP./PAUL MUNROE HY
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	DISCHLND
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 438306N01
Reg Measure Id:	163015
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	06/17/2005
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAUL MUNROE HYDRAULICS (Continued)**

**1000274672**

WDR Review - Rescind: Not reported  
WDR Review - No Action Required: Not reported  
WDR Review - Pending: Not reported  
WDR Review - Planned: Not reported  
Status Enrollee: N  
Individual/General: Not reported  
Fee Code: Not reported  
Direction/Voice: Passive  
Enforcement Id(EID): 219389  
Region: 2  
Order / Resolution Number: 93-047  
Enforcement Action Type: Clean-up and Abatement Order  
Effective Date: 05/19/1993  
Adoption/Issuance Date: Not reported  
Achieve Date: Not reported  
Termination Date: Not reported  
ACL Issuance Date: Not reported  
EPL Issuance Date: Not reported  
Status: Historical  
Title: Enforcement - 2 438306N01  
Description: SCR-RSC  
Program: DISCHLND  
Latest Milestone Completion Date: Not reported  
# Of Programs1: 1  
Total Assessment Amount: 0  
Initial Assessed Amount: 0  
Liability \$ Amount: 0  
Project \$ Amount: 0  
Liability \$ Paid: 0  
Project \$ Completed: 0  
Total \$ Paid/Completed Amount: 0

**HAZNET:**

Year: 1996  
Gepaid: CAD981165939  
Contact: PAUL MUNROE HYD  
Telephone: 0000000000  
Mailing Name: Not reported  
Mailing Address: 3701 THOMAS RD  
Mailing City,St,Zip: SANTA CLARA, CA 950542042  
Gen County: Not reported  
TSD EPA ID: NVD982358483  
TSD County: Not reported  
Waste Category: Waste oil and mixed oil  
Disposal Method: Recycler  
Tons: 1.9056  
Facility County: Santa Clara

Year: 1996  
Gepaid: CAD981165939  
Contact: PAUL MUNROE HYD  
Telephone: 0000000000  
Mailing Name: Not reported  
Mailing Address: 3701 THOMAS RD  
Mailing City,St,Zip: SANTA CLARA, CA 950542042  
Gen County: Not reported  
TSD EPA ID: NVD982358483

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAUL MUNROE HYDRAULICS (Continued)**

**1000274672**

TSD County: Not reported  
Waste Category: Unspecified oil-containing waste  
Disposal Method: Recycler  
Tons: .3544  
Facility County: Santa Clara

Year: 1996  
Gepaid: CAD981165939  
Contact: PAUL MUNROE HYD  
Telephone: 0000000000  
Mailing Name: Not reported  
Mailing Address: 3701 THOMAS RD  
Mailing City,St,Zip: SANTA CLARA, CA 950542042  
Gen County: Not reported  
TSD EPA ID: CAD083166728  
TSD County: Not reported  
Waste Category: Unspecified oil-containing waste  
Disposal Method: Recycler  
Tons: .5838  
Facility County: Santa Clara

Year: 1995  
Gepaid: CAD981165939  
Contact: PAUL MUNROE HYD  
Telephone: 0000000000  
Mailing Name: Not reported  
Mailing Address: 3701 THOMAS RD  
Mailing City,St,Zip: SANTA CLARA, CA 950542042  
Gen County: Not reported  
TSD EPA ID: CAD083166728  
TSD County: Not reported  
Waste Category: Unspecified aqueous solution  
Disposal Method: Recycler  
Tons: .4587  
Facility County: Santa Clara

Year: 1995  
Gepaid: CAD981165939  
Contact: PAUL MUNROE HYD  
Telephone: 0000000000  
Mailing Name: Not reported  
Mailing Address: 3701 THOMAS RD  
Mailing City,St,Zip: SANTA CLARA, CA 950542042  
Gen County: Not reported  
TSD EPA ID: CAD083166728  
TSD County: Not reported  
Waste Category: Unspecified oil-containing waste  
Disposal Method: Recycler  
Tons: 2.3477  
Facility County: Santa Clara

[Click this hyperlink](#) while viewing on your computer to access  
8 additional CA\_HAZNET: record(s) in the EDR Site Report.

ENVIROSTOR:

Facility ID: 43760003  
Status: Refer: RWQCB

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAUL MUNROE HYDRAULICS (Continued)**

**1000274672**

Status Date: 12/28/1990  
Site Code: Not reported  
Site Type: Historical  
Site Type Detailed: \* Historical  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Referred - Not Assigned  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.38166  
Longitude: -121.9580  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: \* HALOGENATED SOLVENTS \* HYDROCARBON SOLVENTS \* WASTE OIL & MIXED OIL  
Not reported  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: 43760003  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 12/26/1990  
Comments: SITE SCREENING DONE IN 1986 A CONCRETE 500-GALLON TANK WITH CRACKS IN IT WAS REMOVED FROM THE SITE. THE CRACKS PROMPTED SITE INVESTIGATIONS WITH PRIMARY OVERSIGHT FROM THE SFRWQCB WHICH IS THE LEAD AGENCY. SITE CLEAN-UP ORDER #90-062 ISSUED 5-90. AS PART OF THE CLEAN-UP, 5 GROUNDWATER MONITORING WELLS WERE INSTALLED INITIALLY, AND 2 MORE WERE LATER INSTALLED. QUARTERLY ANALYSIS OF THE WELLS IS OCCURRING. AMONG THE CONTAMINANTS DETECTED AT THE SITE INCLUDE: VOLITILE ORGANIC COMPOUNDS ,TOTAL PETROLEUM HYDROCARBONS AS GASO- LINE, TPH AS DIESEL/WASTE OIL, AND TOTAL OIL AND GREASE. THE HIGHEST REPORTED CONCENTRATION OF VOC'S IN SOILS INCLUDE TRICHLOROETHENE (TCE) AS HIGH AS 410 PPB AND TETRACHLOROETHENE (PCE) AS HIGH AS 36 PPB. VOC'S IN GROUNDWATER WERE ENCOUN TERED AS HIGH AS 2,900 PPB. PEA LOW

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

MAP FINDINGS

Map ID Direction Distance Elevation		Database(s)	EDR ID Number EPA ID Number
--	--	-------------	--------------------------------

<b>H47</b> <b>ESE</b> <b>1/4-1/2</b> <b>0.423 mi.</b> <b>2234 ft.</b>	<b>PAUL MONROE HYDRAULICS</b> <b>3701 THOMAS RD</b> <b>SANTA CLARA, CA 95051</b>  <b>Site 2 of 3 in cluster H</b>	<b>CERC-NFRAP</b>	<b>1003879395</b> <b>CAD982401036</b>
---	---	-------------------	--

<b>Relative:</b> <b>Higher</b>	CERC-NFRAP: Site ID: 0903482 Federal Facility: Not a Federal Facility
<b>Actual:</b> <b>28 ft.</b>	NPL Status: Not on the NPL Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID:	13290479.00000
Person ID:	13003854.00000
Contact Sequence ID:	13296074.00000
Person ID:	13003858.00000
Contact Sequence ID:	13301932.00000
Person ID:	13004003.00000

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY
Date Started:	/ /
Date Completed:	07/01/88
Priority Level:	Not reported
Action:	ARCHIVE SITE
Date Started:	/ /
Date Completed:	02/14/89
Priority Level:	Not reported
Action:	PRELIMINARY ASSESSMENT
Date Started:	/ /
Date Completed:	02/14/89
Priority Level:	NFRAP-Site does not qualify for the NPL based on existing information

<b>H48</b> <b>ESE</b> <b>1/4-1/2</b> <b>0.423 mi.</b> <b>2234 ft.</b>	<b>PAUL-MUNROE HYDRAULICS</b> <b>3701 THOMAS RD</b> <b>SANTA CLARA, CA</b>  <b>Site 3 of 3 in cluster H</b>	<b>CA HIST LUST</b>	<b>S103880734</b> <b>N/A</b>
---	---	---------------------	---------------------------------

<b>Relative:</b> <b>Higher</b>	HIST LUST SANTA CLARA: Region: SANTA CLARA Region Code: 2
<b>Actual:</b> <b>28 ft.</b>	SCVWD ID: 06S1W27C01 Oversite Agency: SFRWQCB Date Listed: 1994-01-01 00:00:00 Closed Date: 1993-05-19 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

49  
SE  
1/4-1/2  
0.475 mi.  
2507 ft.

**SAFEWAY STEEL**  
**3601 THOMAS RD**  
**SANTA CLARA, CA 95054**

**CA HIST CORTESE**  
**CA LUST**  
**CA HIST LUST**

**S100235579**  
**N/A**

**Relative:**  
**Higher**

HIST CORTESE:  
Region: CORTESE  
Facility County Code: 43  
Reg By: LTNKA  
Reg Id: 43-1163

**Actual:**  
**29 ft.**

LUST:

Region: STATE  
Global Id: T0608501153  
Latitude: 37.3854181330244  
Longitude: -121.958842277527  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 03/02/2005  
Lead Agency: SANTA CLARA COUNTY LOP  
Case Worker: UST  
Local Agency: SANTA CLARA COUNTY LOP  
RB Case Number: Not reported  
LOC Case Number: Not reported  
File Location: Stored electronically as an E-file  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

Contact:

Global Id: T0608501153  
Contact Type: Local Agency Caseworker  
Contact Name: UST CASE WORKER  
Organization Name: SANTA CLARA COUNTY LOP  
Address: 1555 Berger Drive, Suite 300  
City: SAN JOSE  
Email: Not reported  
Phone Number: 4089183400

Global Id: T0608501153  
Contact Type: Regional Board Caseworker  
Contact Name: ZSC  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY STREET, SUITE 1400  
City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

Status History:

Global Id: T0608501153  
Status: Open - Case Begin Date  
Status Date: 02/12/1990

Global Id: T0608501153  
Status: Open - Site Assessment  
Status Date: 03/26/1990

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAFeway STEEL (Continued)**

**S100235579**

Global Id: T0608501153  
Status: Open - Site Assessment  
Status Date: 05/24/1990

Global Id: T0608501153  
Status: Completed - Case Closed  
Status Date: 03/02/2005

Regulatory Activities:

Global Id: T0608501153  
Action Type: ENFORCEMENT  
Date: 11/29/2001  
Action: Staff Letter - #31913

Global Id: T0608501153  
Action Type: ENFORCEMENT  
Date: 10/12/2001  
Action: Staff Letter - #31908

Global Id: T0608501153  
Action Type: ENFORCEMENT  
Date: 02/06/1997  
Action: Staff Letter - #31892

Global Id: T0608501153  
Action Type: RESPONSE  
Date: 09/15/2002  
Action: Other Report / Document

Global Id: T0608501153  
Action Type: RESPONSE  
Date: 01/15/1997  
Action: Soil and Water Investigation Workplan

Global Id: T0608501153  
Action Type: RESPONSE  
Date: 10/30/1999  
Action: Monitoring Report - Quarterly

Global Id: T0608501153  
Action Type: RESPONSE  
Date: 02/28/2002  
Action: Soil and Water Investigation Report

Global Id: T0608501153  
Action Type: RESPONSE  
Date: 11/27/2001  
Action: Soil and Water Investigation Workplan

Global Id: T0608501153  
Action Type: RESPONSE  
Date: 11/12/2001  
Action: Soil and Water Investigation Workplan

Global Id: T0608501153  
Action Type: RESPONSE  
Date: 12/20/1999

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAFEWAY STEEL (Continued)**

**S100235579**

Action: Monitoring Report - Quarterly

Global Id: T0608501153  
Action Type: RESPONSE  
Date: 04/30/1997  
Action: CAP/RAP - Other Report

Global Id: T0608501153  
Action Type: REMEDIATION  
Date: 01/01/1950  
Action: Excavation

Global Id: T0608501153  
Action Type: ENFORCEMENT  
Date: 02/26/1990  
Action: Notice of Responsibility - #40352

Global Id: T0608501153  
Action Type: ENFORCEMENT  
Date: 07/15/2002  
Action: Staff Letter - #38198

Global Id: T0608501153  
Action Type: ENFORCEMENT  
Date: 06/15/1999  
Action: Staff Letter - #32105

Global Id: T0608501153  
Action Type: ENFORCEMENT  
Date: 11/12/1996  
Action: Staff Letter - #32111

Global Id: T0608501153  
Action Type: ENFORCEMENT  
Date: 11/14/2001  
Action: Staff Letter - #31911

Global Id: T0608501153  
Action Type: ENFORCEMENT  
Date: 12/15/1999  
Action: Staff Letter - #31901

Global Id: T0608501153  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Reported

**LUST REG 2:**

Region: 2  
Facility Id: Not reported  
Facility Status: Pollution Characterization  
Case Number: 06S1W27B04f  
How Discovered: Not reported  
Leak Cause: Not reported  
Leak Source: Not reported  
Date Leak Confirmed: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAFEWAY STEEL (Continued)**

**S100235579**

Oversight Program: LUST  
Prelim. Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: 3/26/1990  
Pollution Characterization Began: 5/24/1990  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:

Region: SANTA CLARA  
SCVWD ID: 06S1W27B04F  
Date Closed: 03/02/2005  
EDR Link ID: 06S1W27B04F

HIST LUST SANTA CLARA:

Region: SANTA CLARA  
Region Code: 2  
SCVWD ID: 06S1W27B04  
Oversite Agency: SCVWD  
Date Listed: 1991-01-01 00:00:00  
Closed Date: 2005-03-02 00:00:00

50  
ESE  
1/4-1/2  
0.496 mi.  
2620 ft.

**CULLIGAN INDUSTRIAL WATER  
1785 RUSSELL  
SANTA CLARA, CA 95052**

**CA HIST CORTESE  
CA LUST  
CA HIST LUST  
CA DRYCLEANERS**

**S104162767  
N/A**

**Relative:  
Lower**

HIST CORTESE:  
Region: CORTESE  
Facility County Code: 43  
Reg By: LTNKA  
Reg Id: 43-0426

**Actual:  
26 ft.**

LUST:

Region: STATE  
Global Id: T0608500476  
Latitude: 37.3870889756766  
Longitude: -121.958477497101  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 06/17/1997  
Lead Agency: SANTA CLARA COUNTY LOP  
Case Worker: UST  
Local Agency: SANTA CLARA COUNTY LOP  
RB Case Number: Not reported  
LOC Case Number: Not reported  
File Location: Stored electronically as an E-file  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id: T0608500476  
Contact Type: Local Agency Caseworker

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CULLIGAN INDUSTRIAL WATER (Continued)**

**S104162767**

Contact Name: UST CASE WORKER  
Organization Name: SANTA CLARA COUNTY LOP  
Address: 1555 Berger Drive, Suite 300  
City: SAN JOSE  
Email: Not reported  
Phone Number: 4089183400

Global Id: T0608500476  
Contact Type: Regional Board Caseworker  
Contact Name: ZSC  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY STREET, SUITE 1400  
City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

Status History:

Global Id: T0608500476  
Status: Completed - Case Closed  
Status Date: 06/17/1997

Global Id: T0608500476  
Status: Open - Site Assessment  
Status Date: 06/04/1987

Global Id: T0608500476  
Status: Open - Site Assessment  
Status Date: 07/21/1988

Global Id: T0608500476  
Status: Open - Case Begin Date  
Status Date: 06/04/1987

Regulatory Activities:

Global Id: T0608500476  
Action Type: RESPONSE  
Date: 07/14/1995  
Action: Interim Remedial Action Plan

Global Id: T0608500476  
Action Type: ENFORCEMENT  
Date: 07/12/1989  
Action: Notice of Responsibility - #40350

Global Id: T0608500476  
Action Type: ENFORCEMENT  
Date: 05/30/1995  
Action: Staff Letter - #32101

Global Id: T0608500476  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Reported

Global Id: T0608500476  
Action Type: REMEDIATION

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CULLIGAN INDUSTRIAL WATER (Continued)**

**S104162767**

Date: 01/01/1950  
Action: Excavation  
  
Global Id: T0608500476  
Action Type: REMEDIATION  
Date: 01/01/1950  
Action: Excavation

**LUST REG 2:**

Region: 2  
Facility Id: Not reported  
Facility Status: Case Closed  
Case Number: 06S1W27B02f  
How Discovered: Not reported  
Leak Cause: Not reported  
Leak Source: Not reported  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: 6/4/1987  
Pollution Characterization Began: 7/21/1988  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

**LUST SANTA CLARA:**

Region: SANTA CLARA  
SCVWD ID: 06S1W27B02F  
Date Closed: 06/17/1997  
EDR Link ID: 06S1W27B02F

**HIST LUST SANTA CLARA:**

Region: SANTA CLARA  
Region Code: 2  
SCVWD ID: 06S1W27B02  
Oversite Agency: SCVWD  
Date Listed: 1988-01-01 00:00:00  
Closed Date: 1997-06-17 00:00:00

**DRYCLEANERS:**

EPA Id: CAL000297595  
NAICS Code: 81232  
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)  
SIC Code: 7211  
SIC Description: Power Laundries, Family and Commercial  
Create Date: 11/27/2006  
Facility Active: No  
Inactive Date: 06/30/2007  
Facility Addr2: Not reported  
Owner Name: CULLIGAN INTERNATIONAL  
Owner Address: 1 CULLIGAN PKWY  
Owner Address 2: Not reported  
Owner Telephone: 8004282828  
Contact Name: CARL SEATS

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CULLIGAN INDUSTRIAL WATER (Continued)**

**S104162767**

Contact Address: 110 DODD CT  
 Contact Address 2: Not reported  
 Contact Telephone: 7076386123  
 Mailing Name: Not reported  
 Mailing Address 1: 1785 RUSSELL AVE  
 Mailing Address 2: Not reported  
 Mailing City: SANTA CLARA  
 Mailing State: CA  
 Mailing Zip: 95054  
 Owner Fax: Not reported  
 Region Code: 2

**51  
 ESE  
 1/2-1  
 0.509 mi.  
 2690 ft.**

**J & B ENTERPRISES  
 1650 RUSSELL AVE.  
 SANTA CLARA, CA 95054**

**CA NPDES  
 CA HWP  
 CA Financial Assurance  
 CA WDS  
 CA HWT**

**S100937468  
 N/A**

**Relative:  
 Higher**

**NPDES:**  
 Npdes Number: CAS000001  
 Facility Status: Active  
 Agency Id: 0  
 Region: 2  
 Regulatory Measure Id: 184252  
 Order No: 97-03-DWQ  
 Regulatory Measure Type: Enrollee  
 Place Id: Not reported  
 WDID: 2 431016223  
 Program Type: Industrial  
 Adoption Date Of Regulatory Measure: Not reported  
 Effective Date Of Regulatory Measure: 11/15/2000  
 Expiration Date Of Regulatory Measure: Not reported  
 Termination Date Of Regulatory Measure: Not reported  
 Discharge Name: J & B Ent  
 Discharge Address: 1650 Russell Ave  
 Discharge City: Santa Clara  
 Discharge State: California  
 Discharge Zip: 95054

**Actual:  
 27 ft.**

**HWP:**  
 EPA Id: CAD982052797  
 Cleanup Status: OPERATING PERMIT  
 Latitude: 37.38693  
 Longitude: -121.9577  
 Facility Type: Permitted - Operating  
 Facility Size: Standardized Series B  
 Team: ALFRED WONG  
 Supervisor: WAQAR AHMAD  
 Site Code: 600886  
 Assembly District: 25  
 Senate District: 10  
 Public Information Officer: Not reported

**Activities:**  
 EPA Id: CAD982052797  
 Facility Type: Permitted - Operating  
 Unit Names: Unit #1 - Hazardous Waste Container Storage Area, Unit #10 - Crucible Furnace, Unit #11 - Filter Press, Unit #12 - Filter Cake Storage, Unit

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**J & B ENTERPRISES (Continued)**

**S100937468**

Event Description: #13 - Ion Exchange and Resin Regeneration, Unit #14 - Spent Resin Storage, Unit #15 - Acid Neutralization Container, Unit #2 - Concentrator Tanks, Unit #3 - Precipitation Tanks, Unit #4 - Electrowinning Tanks, Unit #5 - Waste Treatment System, Unit #6 - Evaporator, Unit #7 - Cyanide Storage Area, Unit #8 - Solder Dross Storage Area, Unit #9 - Acid/Water Wash Unit  
Actual Date: New Operating Permit - PUBLIC COMMENT (END)  
10/16/2001

EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Unit Names: Filter Press, Unit #1 - Hazardous Waste Container Storage Area, Unit #10 - Crucible Furnace, Unit #11 - Filter Press, Unit #12 - Filter Cake Storage, Unit #13 - Ion Exchange and Resin Regeneration, Unit #14 - Spent Resin Storage, Unit #15 - Acid Neutralization Container, Unit #2 - Concentrator Tanks, Unit #3 - Precipitation Tanks, Unit #4 - Electrowinning Tanks, Unit #5 - Waste Treatment System, Unit #6 - Evaporator, Unit #7 - Cyanide Storage Area, Unit #8 - Solder Dross Storage Area, Unit #9 - Acid/Water Wash Unit

Event Description: Renewal - With Changes - APPLICATION PART B RECEIVED  
Actual Date: 07/14/2011

EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Unit Names: Filter Press, Unit #1 - Hazardous Waste Container Storage Area, Unit #10 - Crucible Furnace, Unit #11 - Filter Press, Unit #12 - Filter Cake Storage, Unit #13 - Ion Exchange and Resin Regeneration, Unit #14 - Spent Resin Storage, Unit #15 - Acid Neutralization Container, Unit #2 - Concentrator Tanks, Unit #3 - Precipitation Tanks, Unit #4 - Electrowinning Tanks, Unit #5 - Waste Treatment System, Unit #6 - Evaporator, Unit #7 - Cyanide Storage Area, Unit #8 - Solder Dross Storage Area, Unit #9 - Acid/Water Wash Unit

Event Description: Renewal - With Changes - ADMINISTRATIVE REVIEW COMPLETE  
Actual Date: 11/14/2011

EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Unit Names: Filter Press, Unit #1 - Hazardous Waste Container Storage Area, Unit #10 - Crucible Furnace, Unit #11 - Filter Press, Unit #12 - Filter Cake Storage, Unit #13 - Ion Exchange and Resin Regeneration, Unit #14 - Spent Resin Storage, Unit #15 - Acid Neutralization Container, Unit #2 - Concentrator Tanks, Unit #3 - Precipitation Tanks, Unit #4 - Electrowinning Tanks, Unit #5 - Waste Treatment System, Unit #6 - Evaporator, Unit #7 - Cyanide Storage Area, Unit #8 - Solder Dross Storage Area, Unit #9 - Acid/Water Wash Unit

Event Description: Renewal - With Changes - 2ND NOTICE OF DEFICIENCY ISSUED  
Actual Date: 12/04/2013

EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Unit Names: Unit #1 - Hazardous Waste Container Storage Area, Unit #10 - Crucible Furnace, Unit #11 - Filter Press, Unit #12 - Filter Cake Storage, Unit #13 - Ion Exchange and Resin Regeneration, Unit #14 - Spent Resin Storage, Unit #15 - Acid Neutralization Container, Unit #2 - Concentrator Tanks, Unit #3 - Precipitation Tanks, Unit #4 - Electrowinning Tanks, Unit #5 - Waste Treatment System, Unit #6 - Evaporator, Unit #7 - Cyanide Storage Area, Unit #8 - Solder Dross

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**J & B ENTERPRISES (Continued)**

**S100937468**

Event Description: Storage Area, Unit #9 - Acid/Water Wash Unit  
New Operating Permit - APPLICATION PART A RECEIVED  
Actual Date: 03/22/2001

EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Unit Names: Filter Press, Unit #1 - Hazardous Waste Container Storage Area, Unit #10 - Crucible Furnace, Unit #11 - Filter Press, Unit #12 - Filter Cake Storage, Unit #13 - Ion Exchange and Resin Regeneration, Unit #14 - Spent Resin Storage, Unit #15 - Acid Neutralization Container, Unit #2 - Concentrator Tanks, Unit #3 - Precipitation Tanks, Unit #4 - Electrowinning Tanks, Unit #5 - Waste Treatment System, Unit #6 - Evaporator, Unit #7 - Cyanide Storage Area, Unit #8 - Solder Dross Storage Area, Unit #9 - Acid/Water Wash Unit

Event Description: Renewal - With Changes - CALL-IN LETTER ISSUED  
Actual Date: 07/12/2011

EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Unit Names: Unit #1 - Hazardous Waste Container Storage Area, Unit #10 - Crucible Furnace, Unit #11 - Filter Press, Unit #12 - Filter Cake Storage, Unit #13 - Ion Exchange and Resin Regeneration, Unit #14 - Spent Resin Storage, Unit #15 - Acid Neutralization Container, Unit #2 - Concentrator Tanks, Unit #3 - Precipitation Tanks, Unit #4 - Electrowinning Tanks, Unit #5 - Waste Treatment System, Unit #6 - Evaporator, Unit #7 - Cyanide Storage Area, Unit #8 - Solder Dross Storage Area, Unit #9 - Acid/Water Wash Unit

Event Description: New Operating Permit - FINAL PERMIT (EFFECTIVE)  
Actual Date: 01/07/2002

EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Unit Names: Filter Press, Unit #1 - Hazardous Waste Container Storage Area, Unit #10 - Crucible Furnace, Unit #11 - Filter Press, Unit #12 - Filter Cake Storage, Unit #13 - Ion Exchange and Resin Regeneration, Unit #14 - Spent Resin Storage, Unit #15 - Acid Neutralization Container, Unit #2 - Concentrator Tanks, Unit #3 - Precipitation Tanks, Unit #4 - Electrowinning Tanks, Unit #5 - Waste Treatment System, Unit #6 - Evaporator, Unit #7 - Cyanide Storage Area, Unit #8 - Solder Dross Storage Area, Unit #9 - Acid/Water Wash Unit

Event Description: Renewal - With Changes - RESPONSE TO 1ST NOD RECEIVED  
Actual Date: 02/19/2013

EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Unit Names: Unit #1 - Hazardous Waste Container Storage Area, Unit #10 - Crucible Furnace, Unit #2 - Concentrator Tanks, Unit #3 - Precipitation Tanks, Unit #4 - Electrowinning Tanks, Unit #5 - Waste Treatment System, Unit #6 - Evaporator, Unit #7 - Cyanide Storage Area, Unit #8 - Solder Dross Storage Area, Unit #9 - Acid/Water Wash Unit

Event Description: Mod Class 2 - 2 or More Units - PUBLIC COMMENT (BEGIN)  
Actual Date: 12/01/2008

EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Unit Names: Unit #1 - Hazardous Waste Container Storage Area, Unit #10 - Crucible Furnace, Unit #11 - Filter Press, Unit #12 - Filter Cake Storage, Unit

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**J & B ENTERPRISES (Continued)**

**S100937468**

Event Description: #13 - Ion Exchange and Resin Regeneration, Unit #14 - Spent Resin Storage, Unit #15 - Acid Neutralization Container, Unit #2 - Concentrator Tanks, Unit #3 - Precipitation Tanks, Unit #4 - Electrowinning Tanks, Unit #5 - Waste Treatment System, Unit #6 - Evaporator, Unit #7 - Cyanide Storage Area, Unit #8 - Solder Dross Storage Area, Unit #9 - Acid/Water Wash Unit  
Actual Date: New Operating Permit - FINAL PERMIT (EXPIRES) 01/06/2012

EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Unit Names: Unit #1 - Hazardous Waste Container Storage Area, Unit #10 - Crucible Furnace, Unit #11 - Filter Press, Unit #12 - Filter Cake Storage, Unit #13 - Ion Exchange and Resin Regeneration, Unit #14 - Spent Resin Storage, Unit #15 - Acid Neutralization Container, Unit #2 - Concentrator Tanks, Unit #3 - Precipitation Tanks, Unit #4 - Electrowinning Tanks, Unit #5 - Waste Treatment System, Unit #6 - Evaporator, Unit #7 - Cyanide Storage Area, Unit #8 - Solder Dross Storage Area, Unit #9 - Acid/Water Wash Unit

Event Description: New Operating Permit - CALL-IN LETTER ISSUED  
Actual Date: 03/22/2001

EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Unit Names: Unit #1 - Hazardous Waste Container Storage Area, Unit #10 - Crucible Furnace, Unit #11 - Filter Press, Unit #12 - Filter Cake Storage, Unit #13 - Ion Exchange and Resin Regeneration, Unit #14 - Spent Resin Storage, Unit #15 - Acid Neutralization Container, Unit #2 - Concentrator Tanks, Unit #3 - Precipitation Tanks, Unit #4 - Electrowinning Tanks, Unit #5 - Waste Treatment System, Unit #6 - Evaporator, Unit #7 - Cyanide Storage Area, Unit #8 - Solder Dross Storage Area, Unit #9 - Acid/Water Wash Unit

Event Description: New Operating Permit - PUBLIC COMMENT (BEGIN)  
Actual Date: 09/01/2001

EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Unit Names: Unit #1 - Hazardous Waste Container Storage Area, Unit #10 - Crucible Furnace, Unit #11 - Filter Press, Unit #12 - Filter Cake Storage, Unit #13 - Ion Exchange and Resin Regeneration, Unit #14 - Spent Resin Storage, Unit #15 - Acid Neutralization Container, Unit #2 - Concentrator Tanks, Unit #3 - Precipitation Tanks, Unit #4 - Electrowinning Tanks, Unit #5 - Waste Treatment System, Unit #6 - Evaporator, Unit #7 - Cyanide Storage Area, Unit #8 - Solder Dross Storage Area, Unit #9 - Acid/Water Wash Unit

Event Description: New Operating Permit - FINAL PERMIT  
Actual Date: 12/04/2001

EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Unit Names: Unit #1 - Hazardous Waste Container Storage Area, Unit #10 - Crucible Furnace, Unit #11 - Filter Press, Unit #12 - Filter Cake Storage, Unit #13 - Ion Exchange and Resin Regeneration, Unit #14 - Spent Resin Storage, Unit #15 - Acid Neutralization Container, Unit #2 - Concentrator Tanks, Unit #3 - Precipitation Tanks, Unit #4 - Electrowinning Tanks, Unit #5 - Waste Treatment System, Unit #6 - Evaporator, Unit #7 - Cyanide Storage Area, Unit #8 - Solder Dross

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**J & B ENTERPRISES (Continued)**

**S100937468**

Event Description: Storage Area, Unit #9 - Acid/Water Wash Unit  
New Operating Permit - DRAFT PERMIT  
Actual Date: 09/01/2001

EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Unit Names: Filter Press, Unit #1 - Hazardous Waste Container Storage Area, Unit #10 - Crucible Furnace, Unit #11 - Filter Press, Unit #12 - Filter Cake Storage, Unit #13 - Ion Exchange and Resin Regeneration, Unit #14 - Spent Resin Storage, Unit #15 - Acid Neutralization Container, Unit #2 - Concentrator Tanks, Unit #3 - Precipitation Tanks, Unit #4 - Electrowinning Tanks, Unit #5 - Waste Treatment System, Unit #6 - Evaporator, Unit #7 - Cyanide Storage Area, Unit #8 - Solder Dross Storage Area, Unit #9 - Acid/Water Wash Unit

Event Description: Renewal - With Changes - 1ST NOTICE OF DEFICIENCY ISSUED  
Actual Date: 12/24/2012

EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Unit Names: Unit #1 - Hazardous Waste Container Storage Area, Unit #10 - Crucible Furnace, Unit #2 - Concentrator Tanks, Unit #3 - Precipitation Tanks, Unit #4 - Electrowinning Tanks, Unit #5 - Waste Treatment System, Unit #6 - Evaporator, Unit #7 - Cyanide Storage Area, Unit #8 - Solder Dross Storage Area, Unit #9 - Acid/Water Wash Unit

Event Description: Mod Class 2 - 2 or More Units - FINAL PERMIT MODIFICATION  
Actual Date: 04/08/2009

EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Unit Names: Unit #1 - Hazardous Waste Container Storage Area, Unit #10 - Crucible Furnace, Unit #11 - Filter Press, Unit #12 - Filter Cake Storage, Unit #13 - Ion Exchange and Resin Regeneration, Unit #14 - Spent Resin Storage, Unit #15 - Acid Neutralization Container, Unit #2 - Concentrator Tanks, Unit #3 - Precipitation Tanks, Unit #4 - Electrowinning Tanks, Unit #5 - Waste Treatment System, Unit #6 - Evaporator, Unit #7 - Cyanide Storage Area, Unit #8 - Solder Dross Storage Area, Unit #9 - Acid/Water Wash Unit

Event Description: New Operating Permit - FINAL PART A & PART B RECEIVED  
Actual Date: 09/01/2001

EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Unit Names: Unit #1 - Hazardous Waste Container Storage Area, Unit #10 - Crucible Furnace, Unit #2 - Concentrator Tanks, Unit #3 - Precipitation Tanks, Unit #4 - Electrowinning Tanks, Unit #5 - Waste Treatment System, Unit #6 - Evaporator, Unit #7 - Cyanide Storage Area, Unit #8 - Solder Dross Storage Area, Unit #9 - Acid/Water Wash Unit

Event Description: Mod Class 2 - 2 or More Units - PUBLIC COMMENT (END)  
Actual Date: 01/16/2009

EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Unit Names: Unit #1 - Hazardous Waste Container Storage Area, Unit #10 - Crucible Furnace, Unit #2 - Concentrator Tanks, Unit #3 - Precipitation Tanks, Unit #4 - Electrowinning Tanks, Unit #5 - Waste Treatment System, Unit #6 - Evaporator, Unit #7 - Cyanide Storage Area, Unit #8 - Solder Dross Storage Area, Unit #9 - Acid/Water Wash Unit

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**J & B ENTERPRISES (Continued)**

**S100937468**

Event Description: Mod Class 2 - 2 or More Units - FINAL PERMIT MODIFICATION (EFFECTIVE)  
Actual Date: 05/11/2009

EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Unit Names: Unit #1 - Hazardous Waste Container Storage Area, Unit #10 - Crucible Furnace, Unit #11 - Filter Press, Unit #12 - Filter Cake Storage, Unit #13 - Ion Exchange and Resin Regeneration, Unit #14 - Spent Resin Storage, Unit #15 - Acid Neutralization Container, Unit #2 - Concentrator Tanks, Unit #3 - Precipitation Tanks, Unit #4 - Electrowinning Tanks, Unit #5 - Waste Treatment System, Unit #6 - Evaporator, Unit #7 - Cyanide Storage Area, Unit #8 - Solder Dross Storage Area, Unit #9 - Acid/Water Wash Unit

Event Description: New Operating Permit - PUBLIC COMMENT (PUBLIC HEARING)  
Actual Date: 10/29/2001

Closure:  
EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Unit Names: Filter Press  
Event Description: Closure Administrative - ISSUE CLOSURE VERIFICATION  
Actual Date: 03/10/2014

Alias:  
EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Alias Type: Project Code (Site Code)  
Alias: 600886

EPA Id: CAD982052797  
Facility Type: Permitted - Operating  
Alias Type: FRS  
Alias: 110002790025

CA Financial Assurance 1:  
EPA ID Number: CAD982052797  
Sudden Amount1: 2,000,000.00  
Non Sudden Amount1: Not reported  
Closure Mechanism: CD  
Closure Amount: \$99,883.31 \$6,328.69  
Post Closure Mechanism: Not reported  
Post Closure Amount: Not reported  
Corrective Action Mechanism: Not reported  
Corrective Action Amount: Not reported  
Sudden Mechanism Type: Ins.  
Sudden Mechanism Amount: 1,000,000.00  
Non Sudden Mechanism Type: Not reported  
Non Sudden Mechanism Amount: Not reported  
O&M Mechanism Type: Not reported  
O&M Amount: Not reported

CA WDS:  
Facility ID: San Francisco Bay 431016223  
Facility Type: Industrial - Facility that treats and/or disposes of liquid or

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**J & B ENTERPRISES (Continued)**

**S100937468**

semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.

Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.

NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board

Subregion: 2

Facility Telephone: 4089887900

Facility Contact: MR KEN EPSMAN

Agency Name: J & B ENT

Agency Address: 1650 Russell Ave

Agency City,St,Zip: Santa Clara 950542031

Agency Contact: KEN EPSMAN

Agency Telephone: 4089887900

Agency Type: Private

SIC Code: 0

SIC Code 2: Not reported

Primary Waste Type: Not reported

Primary Waste: Not reported

Waste Type2: Not reported

Waste2: Not reported

Primary Waste Type: Not reported

Secondary Waste: Not reported

Secondary Waste Type: Not reported

Design Flow: 0

Baseline Flow: 0

Reclamation: Not reported

POTW: Not reported

Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

HWT:

Reg Num: 2122

Expiration Date: 04/30/2015

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

52  
East  
1/2-1  
0.570 mi.  
3011 ft.

**SIX SIGMA**  
**1500 WYATT DR STE 4 AND 5**  
**SANTA CLARA, CA 95054**

**RCRA NonGen / NLR** 1000820068  
**CA HAZNET** CAD983660911  
**CA ENVIROSTOR**

**Relative:**  
**Lower**

RCRA NonGen / NLR:

Date form received by agency: 04/30/1997  
Facility name: SIX SIGMA  
Facility address: 1500 WYATT DR STE 4 AND 5  
SANTA CLARA, CA 95054  
EPA ID: CAD983660911  
Mailing address: CONCOURSE DR  
SAN JOSE, CA 95131  
Contact: RUSSELL WINSLOW  
Contact address: 1940 CONCOURSE DR  
SAN JOSE, CA 95131  
Contact country: US  
Contact telephone: (408) 526-1350  
Contact email: Not reported  
EPA Region: 09  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Actual:**  
**24 ft.**

Owner/Operator Summary:

Owner/operator name: WINSLOW AUTOMATION INC  
Owner/operator address: 1500 WYATT DR STE 5  
SANTA CLARA, CA 95054  
Owner/operator country: Not reported  
Owner/operator telephone: (408) 496-6636  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

HAZNET:

Year: 1997  
Gepaid: CAD983660911  
Contact: WINSLOW AUTOMATION INC  
Telephone: 4055261350

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SIX SIGMA (Continued)**

**1000820068**

Mailing Name: Not reported  
Mailing Address: 1940 CONCOURSE DR  
Mailing City,St,Zip: SAN JOSE, CA 951310000  
Gen County: Not reported  
TSD EPA ID: CAD059494310  
TSD County: Not reported  
Waste Category: Liquids with pH <= 2 with metals  
Disposal Method: Disposal, Other  
Tons: .0625  
Facility County: Santa Clara

Year: 1997  
Gepaid: CAD983660911  
Contact: WINSLOW AUTOMATION INC  
Telephone: 4055261350  
Mailing Name: Not reported  
Mailing Address: 1940 CONCOURSE DR  
Mailing City,St,Zip: SAN JOSE, CA 951310000  
Gen County: Not reported  
TSD EPA ID: CAD059494310  
TSD County: Not reported  
Waste Category: Unspecified organic liquid mixture  
Disposal Method: Disposal, Other  
Tons: .2293  
Facility County: Santa Clara

Year: 1997  
Gepaid: CAD983660911  
Contact: WINSLOW AUTOMATION INC  
Telephone: 4055261350  
Mailing Name: Not reported  
Mailing Address: 1940 CONCOURSE DR  
Mailing City,St,Zip: SAN JOSE, CA 951310000  
Gen County: Not reported  
TSD EPA ID: CAD059494310  
TSD County: Not reported  
Waste Category: Liquids with lead >= 500 Mg./L  
Disposal Method: Disposal, Other  
Tons: .0625  
Facility County: Santa Clara

Year: 1997  
Gepaid: CAD983660911  
Contact: WINSLOW AUTOMATION INC  
Telephone: 4055261350  
Mailing Name: Not reported  
Mailing Address: 1940 CONCOURSE DR  
Mailing City,St,Zip: SAN JOSE, CA 951310000  
Gen County: Not reported  
TSD EPA ID: CAD059494310  
TSD County: Not reported  
Waste Category: Unspecified solvent mixture  
Disposal Method: Disposal, Other  
Tons: .0208  
Facility County: Santa Clara

Year: 1997

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SIX SIGMA (Continued)**

**1000820068**

Gepaid: CAD983660911  
Contact: WINSLOW AUTOMATION INC  
Telephone: 4055261350  
Mailing Name: Not reported  
Mailing Address: 1940 CONCOURSE DR  
Mailing City,St,Zip: SAN JOSE, CA 951310000  
Gen County: Not reported  
TSD EPA ID: AZD980735500  
TSD County: Not reported  
Waste Category: Metal sludge (Alkaline solution (pH >= 12.5) with metals)  
Disposal Method: Recycler  
Tons: .1665  
Facility County: Santa Clara

[Click this hyperlink](#) while viewing on your computer to access 34 additional CA\_HAZNET: record(s) in the EDR Site Report.

**ENVIROSTOR:**

Facility ID: 71003181  
Status: Inactive - Needs Evaluation  
Status Date: Not reported  
Site Code: Not reported  
Site Type: Tiered Permit  
Site Type Detailed: Tiered Permit  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Not reported  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.39032  
Longitude: -121.9561  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: CAD983660911  
Alias Type: EPA Identification Number  
Alias Name: 71003181  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: Not reported  
Completed Sub Area Name: Not reported  
Completed Document Type: Not reported  
Completed Date: Not reported  
Comments: Not reported

Future Area Name: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SIX SIGMA (Continued)**

**1000820068**

Future Sub Area Name: Not reported  
 Future Document Type: Not reported  
 Future Due Date: Not reported  
 Schedule Area Name: Not reported  
 Schedule Sub Area Name: Not reported  
 Schedule Document Type: Not reported  
 Schedule Due Date: Not reported  
 Schedule Revised Date: Not reported

**53  
 NE  
 1/2-1  
 0.579 mi.  
 3056 ft.**

**AGNEWS STATE HOSPITAL - DGS  
 AGNEW ROAD & LAFAYETTE STREET  
 SANTA CLARA, CA 95054**

**CA VCP  
 CA ENVIROSTOR**

**S104156177  
 N/A**

**Relative:  
 Lower**

VCP:

**Actual:  
 23 ft.**

Facility ID: 43990006  
 Site Type: Voluntary Cleanup  
 Site Type Detail: Voluntary Cleanup  
 Site Mgmt. Req.: NONE SPECIFIED  
 Acres: 25  
 National Priorities List: NO  
 Cleanup Oversight Agencies: SMBRP  
 Lead Agency: SMBRP  
 Lead Agency Description: DTSC - Site Cleanup Program  
 Project Manager: Not reported  
 Supervisor: Karen Toth  
 Division Branch: Cleanup Berkeley  
 Site Code: 201262  
 Assembly: 25  
 Senate: 10  
 Special Programs Code: Voluntary Cleanup Program  
 Status: Certified  
 Status Date: 06/29/2001  
 Restricted Use: NO  
 Funding: Responsible Party  
 Lat/Long: 37.39795 / -121.9459  
 APN: 097-08-51, 097-08-55  
 Past Use: HOSPITAL  
 Potential COC: 30001, 30013  
 Confirmed COC: 30001,30013  
 Potential Description: SOIL  
 Alias Name: Agnews West Developmental Center  
 Alias Type: Alternate Name  
 Alias Name: Estancia Apartments  
 Alias Type: Alternate Name  
 Alias Name: Martinson Child Car Facility  
 Alias Type: Alternate Name  
 Alias Name: 097-08-51  
 Alias Type: APN  
 Alias Name: 097-08-55  
 Alias Type: APN  
 Alias Name: 110033613980  
 Alias Type: EPA (FRS #)  
 Alias Name: 201262  
 Alias Type: Project Code (Site Code)  
 Alias Name: 43990006  
 Alias Type: Envirostor ID Number

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AGNEWS STATE HOSPITAL - DGS (Continued)**

**S104156177**

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Completion Report  
Completed Date: 06/06/2001  
Comments: Completed Remedial Action for Parcel 3. 351 cubic yards of soil contaminated with lead was excavated from the site. These soils were considered to be hazardous waste and were transported and disposed at Chemical Waste Management Inc in Kettleman City, California.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Completion Report  
Completed Date: 02/28/2001  
Comments: Completed Remedial Action for Parcel 2. 1,095 cubic yards of soil contaminated with low levels of arsenic were excavated from the site. These soils were transported to the CalTrans Highway 87 project, where they were placed in a roadway embankment

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Completion Report  
Completed Date: 06/29/2001  
Comments: Completed Remedial Action for Parcel 4. Between January 29 and May 4, 2001, approximately 351 cubic yards of contaminated soil were excavated and disposed at a permitted landfill. Approximately 11,417 cubic yards of soils contaminated with non-hazardous levels of arsenic and lead were excavated from Parcel 2,3 and 4 and transported to Caltrans Highway 87 construction project for reuse.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Design/Implementation Workplan  
Completed Date: 01/23/2001  
Comments: Approved Remedial Design Implementation Plan.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Plan  
Completed Date: 11/20/2000  
Comments: The RAP found that Parcel 1 required no soil removal. The remedial goals for lead and arsenic were established to allow unrestricted use of the property. Any soil above the remedial goals would be excavated and properly managed off-site.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation / Feasibility Study  
Completed Date: 08/16/2000  
Comments: Completed RIFS. The soil was impacted by lead and arsenic associated with the historical agricultural practices and from lead-based paint.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation Report  
Completed Date: 02/05/2002  
Comments: Based on sampling conducted, this area meets the remedial goals

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AGNEWS STATE HOSPITAL - DGS (Continued)**

**S104156177**

described in the August 2000 Remedial Action Plan. No Further Action is required.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation Report  
Completed Date: 01/17/2002  
Comments: Contaminants found in the buried debris were below remedial goals except in one are at the south and eastern edge of the property.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Completion Report  
Completed Date: 06/16/2003  
Comments: Lead contaminated soil was removed. Property meets remedial goals in the August 2000 Remedial Action Plan. No Further Action Required

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 04/26/1999  
Comments: This document prepared for Santa Clara Water District

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 03/20/2002  
Comments: Furel oxygenates and gasolin -ranged petroleum hydrocarbons were not detected above their respective laboratory reporting limits in the A and B-zone water samples from the monitoring wells, with the exception of MTBE detected at 0.51 vppb in monitoring well MW-2-1.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 06/26/2002  
Comments: Concentrations of MTBE below drinking water standards

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)  
Completed Date: 11/20/2000  
Comments: DTSC prepared and signed a negative declaration for this project.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: 06/29/2001  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Voluntary Cleanup Agreement  
Completed Date: 08/25/1999  
Comments: Signed VCA.

Future Area Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AGNEWS STATE HOSPITAL - DGS (Continued)**

**S104156177**

Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**ENVIROSTOR:**

Facility ID: 43990006  
Status: Certified  
Status Date: 06/29/2001  
Site Code: 201262  
Site Type: Voluntary Cleanup  
Site Type Detailed: Voluntary Cleanup  
Acres: 25  
NPL: NO  
Regulatory Agencies: SMBRP  
Lead Agency: SMBRP  
Program Manager: Not reported  
Supervisor: Karen Toth  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Voluntary Cleanup Program  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Responsible Party  
Latitude: 37.39795  
Longitude: -121.9459  
APN: 097-08-51, 097-08-55  
Past Use: HOSPITAL  
Potential COC: Arsenic Lead  
Confirmed COC: Arsenic Lead  
Potential Description: SOIL  
Alias Name: Agnews West Developmental Center  
Alias Type: Alternate Name  
Alias Name: Estancia Apartments  
Alias Type: Alternate Name  
Alias Name: Martinson Child Car Facility  
Alias Type: Alternate Name  
Alias Name: 097-08-51  
Alias Type: APN  
Alias Name: 097-08-55  
Alias Type: APN  
Alias Name: 110033613980  
Alias Type: EPA (FRS #)  
Alias Name: 201262  
Alias Type: Project Code (Site Code)  
Alias Name: 43990006  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Completion Report

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AGNEWS STATE HOSPITAL - DGS (Continued)**

**S104156177**

Completed Date: 06/06/2001  
Comments: Completed Remedial Action for Parcel 3. 351 cubic yards of soil contaminated with lead was excavated from the site. These soils were considered to be hazardous waste and were transported and disposed at Chemical Waste Management Inc in Kettleman City, California.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Completion Report  
Completed Date: 02/28/2001  
Comments: Completed Remedial Action for Parcel 2. 1,095 cubic yards of soil contaminated with low levels of arsenic were excavated from the site. These soils were transported to the CalTrans Highway 87 project, where they were placed in a roadway embankment

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Completion Report  
Completed Date: 06/29/2001  
Comments: Completed Remedial Action for Parcel 4. Between January 29 and May 4, 2001, approximately 351 cubic yards of contaminated soil were excavated and disposed at a permitted landfill. Approximately 11,417 cubic yards of soils contaminated with non-hazardous levels of arsenic and lead were excavated from Parcel 2,3 and 4 and transported to Caltrans Highway 87 construction project for reuse.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Design/Implementation Workplan  
Completed Date: 01/23/2001  
Comments: Approved Remedial Design Implementation Plan.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Plan  
Completed Date: 11/20/2000  
Comments: The RAP found that Parcel 1 required no soil removal. The remedial goals for lead and arsenic were established to allow unrestricted use of the property. Any soil above the remedial goals would be excavated and properly managed off-site.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation / Feasibility Study  
Completed Date: 08/16/2000  
Comments: Completed RIFS. The soil was impacted by lead and arsenic associated with the historical agricultural practices and from lead-based paint.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation Report  
Completed Date: 02/05/2002  
Comments: Based on sampling conducted, this area meets the remedial goals described in the August 2000 Remedial Action Plan. No Further Action is required.

Completed Area Name: PROJECT WIDE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AGNEWS STATE HOSPITAL - DGS (Continued)**

**S104156177**

Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation Report  
Completed Date: 01/17/2002  
Comments: Contaminants found in the buried debris were below remedial goals except in one are at the south and eastern edge of the property.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Completion Report  
Completed Date: 06/16/2003  
Comments: Lead contaminated soil was removed. Property meets remedial goals in the August 2000 Remedial Action Plan. No Further Action Required

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 04/26/1999  
Comments: This document prepared for Santa Clara Water District

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 03/20/2002  
Comments: Furel oxygenates and gasolin -ranged petroleum hydrocarbons were not detected above their respective laboratory reporting limits in the A and B-zone water samples from the monitoring wells, with the exception of MTBE detected at 0.51 vppb in monitoring well MW-2-1.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 06/26/2002  
Comments: Concentrations of MTBE below drinking water standards

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)  
Completed Date: 11/20/2000  
Comments: DTSC prepared and signed a negative declaration for this project.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: 06/29/2001  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Voluntary Cleanup Agreement  
Completed Date: 08/25/1999  
Comments: Signed VCA.

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AGNEWS STATE HOSPITAL - DGS (Continued)**

**S104156177**

Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**I54  
SE  
1/2-1  
0.615 mi.  
3249 ft.**

**FORMER PYCON INC. FACILITY  
3501 LEONARD COURT  
SANTA CLARA, CA 95054**

**CA VCP S100942960  
CA ENVIROSTOR N/A**

**Site 1 of 2 in cluster I**

**Relative:  
Higher**

VCP:

**Actual:  
29 ft.**

Facility ID: 60001430  
Site Type: Voluntary Cleanup  
Site Type Detail: Voluntary Cleanup  
Site Mgmt. Req.: NONE SPECIFIED  
Acres: 0.8  
National Priorities List: NO  
Cleanup Oversight Agencies: SMBRP, CITY OF SANTA CLARA  
Lead Agency: CITY OF SANTA CLARA  
Lead Agency Description: SANTA CLARA, CITY OF  
Project Manager: Mark Piros  
Supervisor: Barbara Cook  
Division Branch: Cleanup Berkeley  
Site Code: Not reported  
Assembly: 25  
Senate: 10  
Special Programs Code: Not reported  
Status: Refer: Local Agency  
Status Date: 09/15/2010  
Restricted Use: NO  
Funding: Responsible Party  
Lat/Long: 37.38302 / -121.9559  
APN: NONE SPECIFIED  
Past Use: MANUFACTURING - ELECTRONIC  
Potential COC: 30156, 30407  
Confirmed COC: 30156,30407  
Potential Description: CSS, SOIL  
Alias Name: Santa Clara Technology Park  
Alias Type: Alternate Name  
Alias Name: CAD981382401  
Alias Type: EPA Identification Number  
Alias Name: 110000484440  
Alias Type: EPA (FRS #)  
Alias Name: 60001430  
Alias Type: Envirostor ID Number  
Alias Name: 71002768  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: No Further Action Letter  
Completed Date: 03/15/2011  
Comments: DTSC reviewed a risk assessment submitted on behalf of PS Business Parks and agreed with its conclusions and determined that no further action is needed to address the residual copper and nickel in soil.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER PYCON INC. FACILITY (Continued)**

**S100942960**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Application  
Completed Date: 08/23/2010  
Comments: PS Business Parks was required to clean the building on the site to satisfy the Santa Clara Fire Department and to obtain permission to release the facility. PS Business Parks requested DTSC oversight of a risk assessment to evaluate elevated concentrations of nickel and copper found in various areas beneath the concrete building floor.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Endangerment Assessment Report  
Completed Date: 08/23/2007  
Comments: The Phase I Environmental Site Assessment was submitted to DTSC along with the Request for Agency Oversight of a Brownfield Site.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Completion Report  
Completed Date: 04/06/2010  
Comments: The report summarizes the closure activities at the site and documents the sampling and disposal activities performed in accordance with the Santa Clara Fire Department Hazardous Materials Closure permit.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Completion Report  
Completed Date: 11/19/2010  
Comments: The Addendum documents additional soil sampling in May and June 2010 to evaluate the horizontal extent of nickel and or copper impacted and the removal of concrete and soil in the Plating Room and DES Room. The Addendum includes (as Attachment 4) a risk assesment of the remaining soils with metal concentrations exceeding screening levels.

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**ENVIROSTOR:**

Facility ID: 60001430  
Status: Refer: Local Agency  
Status Date: 09/15/2010  
Site Code: Not reported  
Site Type: Voluntary Cleanup  
Site Type Detailed: Voluntary Cleanup  
Acres: 0.8  
NPL: NO  
Regulatory Agencies: SMBRP, CITY OF SANTA CLARA  
Lead Agency: CITY OF SANTA CLARA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER PYCON INC. FACILITY (Continued)**

**S100942960**

Program Manager: Mark Piros  
Supervisor: Barbara Cook  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Responsible Party  
Latitude: 37.38302  
Longitude: -121.9559  
APN: NONE SPECIFIED  
Past Use: MANUFACTURING - ELECTRONIC  
Potential COC: Copper and compounds Nickel  
Confirmed COC: Copper and compounds Nickel  
Potential Description: CSS, SOIL  
Alias Name: Santa Clara Technology Park  
Alias Type: Alternate Name  
Alias Name: CAD981382401  
Alias Type: EPA Identification Number  
Alias Name: 110000484440  
Alias Type: EPA (FRS #)  
Alias Name: 60001430  
Alias Type: Envirostor ID Number  
Alias Name: 71002768  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: No Further Action Letter  
Completed Date: 03/15/2011  
Comments: DTSC reviewed a risk assessment submitted on behalf of PS Business Parks and agreed with its conclusions and determined that no further action is needed to address the residual copper and nickel in soil.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Application  
Completed Date: 08/23/2010  
Comments: PS Business Parks was required to clean the building on the site to satisfy the Santa Clara Fire Department and to obtain permission to release the facility. PS Business Parks requested DTSC oversight of a risk assessment to evaluate elevated concentrations of nickel and copper found in various areas beneath the concrete building floor.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Endangerment Assessment Report  
Completed Date: 08/23/2007  
Comments: The Phase I Environmental Site Assessment was submitted to DTSC along with the Request for Agency Oversight of a Brownfield Site.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Completion Report  
Completed Date: 04/06/2010  
Comments: The report summarizes the closure activities at the site and

Map ID  
 Direction  
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MAP FINDINGS

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 EPA ID Number

**FORMER PYCON INC. FACILITY (Continued)**

**S100942960**

documents the sampling and disposal activities performed in accordance with the Santa Clara Fire Department Hazardous Materials Closure permit.

Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Removal Action Completion Report  
 Completed Date: 11/19/2010  
 Comments: The Addendum documents additional soil sampling in May and June 2010 to evaluate the horizontal extent of nickel and or copper impacted and the removal of concrete and soil in the Plating Room and DES Room. The Addendum includes (as Attachment 4) a risk assesment of the remaining soils with metal concentrations exceeding screening levels.

Future Area Name: Not reported  
 Future Sub Area Name: Not reported  
 Future Document Type: Not reported  
 Future Due Date: Not reported  
 Schedule Area Name: Not reported  
 Schedule Sub Area Name: Not reported  
 Schedule Document Type: Not reported  
 Schedule Due Date: Not reported  
 Schedule Revised Date: Not reported

**J55**  
**South**  
**1/2-1**  
**0.615 mi.**  
**3249 ft.**

**TELEDYNE WIRELESS INC**  
**3251 OLCOTT ST**  
**SANTA CLARA, CA 94054**

**Site 1 of 2 in cluster J**

**CERC-NFRAP** 1000245627  
**CORRACTS** CAT000625392  
**RCRA-SQG**  
**FINDS**  
**RI MANIFEST**  
**CA EMI**  
**CA HWP**

**Relative:**  
**Higher**

**Actual:**  
**34 ft.**

CERC-NFRAP:  
 Site ID: 0900226  
 Federal Facility: Not a Federal Facility  
 NPL Status: Not on the NPL  
 Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:  
 Contact Sequence ID: 13287839.00000  
 Person ID: 13003854.00000

Contact Sequence ID: 13293434.00000  
 Person ID: 13003858.00000

Contact Sequence ID: 13299292.00000  
 Person ID: 13004003.00000

Program Priority:  
 Description: RCRA Deferral Audit  
  
 Description: RCRA Deferral - New Decision  
  
 Description: RCRA Deferral - Further Superfund Assessment

CERCLIS-NFRAP Assessment History:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

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EPA ID Number

**TELEDYNE WIRELESS INC (Continued)**

**1000245627**

Action: DISCOVERY  
Date Started: / /  
Date Completed: 04/01/91  
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 09/09/91  
Priority Level: Deferred to RCRA (Subtitle C)

Action: ARCHIVE SITE  
Date Started: / /  
Date Completed: 01/23/96  
Priority Level: Not reported

**CORRACTS:**

EPA ID: CAT000625392  
EPA Region: 09  
Area Name: ENTIRE FACILITY  
Actual Date: 19910906  
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority  
NAICS Code(s): 334418 334419  
Printed Circuit Assembly (Electronic Assembly) Manufacturing  
Other Electronic Component Manufacturing  
Original schedule date: Not reported  
Schedule end date: Not reported

**RCRA-SQG:**

Date form received by agency: 01/08/2004  
Facility name: TELEDYNE WIRELESS INC  
Facility address: 3251 OLCOTT ST  
SANTA CLARA, CA 94054  
EPA ID: CAT000625392  
Mailing address: 1274 TERRA BELLA AVE  
MOUNTAIN VIEW, CA 94043  
Contact: GEORGE D MATEJEK  
Contact address: 1274 TERRA BELLA AVE  
MOUNTAIN VIEW, CA 94043  
Contact country: US  
Contact telephone: 408-562-2825  
Contact email: Not reported  
EPA Region: 09  
Land type: Private  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Owner/Operator Summary:**

Owner/operator name: TELEDYNE WIRELESS INC  
Owner/operator address: Not reported

Map ID  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE WIRELESS INC (Continued)**

**1000245627**

Owner/operator country: Not reported  
Owner/operator telephone: US  
Legal status: Not reported  
Owner/Operator Type: Private  
Owner/Op start date: Operator  
Owner/Op end date: 01/01/2004  
Not reported

Owner/operator name: TELEDYNE WIRELESS INC  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 01/01/2004  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 03/04/1999  
Site name: LITTON SOLID STATE DIVISION  
Classification: Large Quantity Generator

Date form received by agency: 10/09/1998  
Site name: FILTRONIC SOLID STATE  
Classification: Small Quantity Generator

Date form received by agency: 09/01/1996  
Site name: FILTRONIC SOLID STATE  
Classification: Large Quantity Generator

Date form received by agency: 03/22/1996  
Site name: LITTON SOLID STATE DIVISION  
Classification: Large Quantity Generator

Date form received by agency: 03/29/1994  
Site name: LITTON SOLID STATE  
Classification: Large Quantity Generator

Map ID  
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MAP FINDINGS

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Database(s)

EDR ID Number  
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**TELEDYNE WIRELESS INC (Continued)**

**1000245627**

Date form received by agency: 02/29/1992  
Site name: LITTON SOLID STATE  
Classification: Large Quantity Generator

**Hazardous Waste Summary:**

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

**Corrective Action Summary:**

Event date: 01/01/1990  
Event: CA029ST

Event date: 09/06/1991  
Event: CA049PA

Event date: 09/06/1991  
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 09/06/1991  
Event: CA029EP

Event date: 09/06/1991  
Event: CA074LO

**Facility Has Received Notices of Violations:**

Regulation violated: Not reported  
Area of violation: TSD - Closure/Post-Closure  
Date violation determined: 08/10/1995  
Date achieved compliance: 09/18/1995  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/10/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
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**TELEDYNE WIRELESS INC (Continued)**

**1000245627**

Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Contingency Plan and Emergency Procedures  
Date violation determined: 08/10/1995  
Date achieved compliance: 09/11/1995  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/10/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Manifest/Records/Reporting  
Date violation determined: 08/10/1995  
Date achieved compliance: 09/21/1995  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/10/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General Facility Standards  
Date violation determined: 08/10/1995  
Date achieved compliance: 09/11/1995  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/10/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 04/05/1994  
Date achieved compliance: 04/21/1994  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE WIRELESS INC (Continued)**

**1000245627**

Regulation violated: Not reported  
Area of violation: TSD - Container Use and Management  
Date violation determined: 11/09/1992  
Date achieved compliance: 07/15/1993  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 02/11/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 112700  
Final penalty amount: 61500  
Paid penalty amount: 61500

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 11/09/1992  
Date achieved compliance: 07/15/1993  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/13/1992  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Contingency Plan and Emergency Procedures  
Date violation determined: 11/09/1992  
Date achieved compliance: 07/15/1993  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 02/11/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 112700  
Final penalty amount: 61500  
Paid penalty amount: 61500

Regulation violated: Not reported  
Area of violation: TSD - Contingency Plan and Emergency Procedures  
Date violation determined: 11/09/1992  
Date achieved compliance: 07/15/1993  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/13/1992  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE WIRELESS INC (Continued)**

**1000245627**

Area of violation: TSD - Closure/Post-Closure  
Date violation determined: 11/09/1992  
Date achieved compliance: 07/15/1993  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/13/1992  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 11/09/1992  
Date achieved compliance: 07/15/1993  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 02/11/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 112700  
Final penalty amount: 61500  
Paid penalty amount: 61500

Regulation violated: Not reported  
Area of violation: Generators - Manifest  
Date violation determined: 11/09/1992  
Date achieved compliance: 07/15/1993  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/13/1992  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General Facility Standards  
Date violation determined: 11/09/1992  
Date achieved compliance: 07/15/1993  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 02/11/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 112700  
Final penalty amount: 61500  
Paid penalty amount: 61500

Regulation violated: Not reported  
Area of violation: TSD - General Facility Standards

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE WIRELESS INC (Continued)**

**1000245627**

Date violation determined: 11/09/1992  
Date achieved compliance: 07/15/1993  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/13/1992  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Container Use and Management  
Date violation determined: 11/09/1992  
Date achieved compliance: 07/15/1993  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/13/1992  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - Manifest  
Date violation determined: 11/09/1992  
Date achieved compliance: 07/15/1993  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 02/11/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 112700  
Final penalty amount: 61500  
Paid penalty amount: 61500

Regulation violated: Not reported  
Area of violation: TSD - Closure/Post-Closure  
Date violation determined: 11/09/1992  
Date achieved compliance: 07/15/1993  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 02/11/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 112700  
Final penalty amount: 61500  
Paid penalty amount: 61500

Regulation violated: Not reported  
Area of violation: TSD - Financial Requirements  
Date violation determined: 11/09/1992

Map ID  
Direction  
Distance  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE WIRELESS INC (Continued)**

**1000245627**

Date achieved compliance: 07/15/1993  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 02/11/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 112700  
Final penalty amount: 61500  
Paid penalty amount: 61500

Regulation violated: Not reported  
Area of violation: Generators - Manifest  
Date violation determined: 10/22/1991  
Date achieved compliance: 12/09/1992  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/13/1992  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Container Use and Management  
Date violation determined: 10/22/1991  
Date achieved compliance: 12/09/1992  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/13/1992  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 10/22/1991  
Date achieved compliance: 12/09/1992  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/13/1992  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 10/22/1991  
Date achieved compliance: 12/09/1992

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE WIRELESS INC (Continued)**

**1000245627**

Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 02/11/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 112700  
Final penalty amount: 61500  
Paid penalty amount: 61500

Regulation violated: Not reported  
Area of violation: TSD - Contingency Plan and Emergency Procedures  
Date violation determined: 10/22/1991  
Date achieved compliance: 12/09/1992  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/13/1992  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Closure/Post-Closure  
Date violation determined: 10/22/1991  
Date achieved compliance: 12/09/1992  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/13/1992  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Closure/Post-Closure  
Date violation determined: 10/22/1991  
Date achieved compliance: 12/09/1992  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 02/11/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 112700  
Final penalty amount: 61500  
Paid penalty amount: 61500

Regulation violated: Not reported  
Area of violation: TSD - Contingency Plan and Emergency Procedures  
Date violation determined: 10/22/1991  
Date achieved compliance: 12/09/1992  
Violation lead agency: State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE WIRELESS INC (Continued)**

**1000245627**

Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 02/11/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 112700  
Final penalty amount: 61500  
Paid penalty amount: 61500

Regulation violated: Not reported  
Area of violation: TSD - Container Use and Management  
Date violation determined: 10/22/1991  
Date achieved compliance: 12/09/1992  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 02/11/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 112700  
Final penalty amount: 61500  
Paid penalty amount: 61500

Regulation violated: Not reported  
Area of violation: TSD - General Facility Standards  
Date violation determined: 10/22/1991  
Date achieved compliance: 12/09/1992  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 02/11/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 112700  
Final penalty amount: 61500  
Paid penalty amount: 61500

Regulation violated: Not reported  
Area of violation: Generators - Manifest  
Date violation determined: 10/22/1991  
Date achieved compliance: 12/09/1992  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 02/11/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 112700  
Final penalty amount: 61500  
Paid penalty amount: 61500

Regulation violated: Not reported  
Area of violation: TSD - General Facility Standards  
Date violation determined: 10/22/1991  
Date achieved compliance: 12/09/1992  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE WIRELESS INC (Continued)**

**1000245627**

Enforcement action date: 11/13/1992  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 07/25/1989  
Date achieved compliance: 10/16/1989  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 09/06/1989  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

**Evaluation Action Summary:**

Evaluation date: 07/25/1995  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Closure/Post-Closure  
Date achieved compliance: 09/18/1995  
Evaluation lead agency: State

Evaluation date: 07/25/1995  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Contingency Plan and Emergency Procedures  
Date achieved compliance: 09/11/1995  
Evaluation lead agency: State

Evaluation date: 07/25/1995  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General Facility Standards  
Date achieved compliance: 09/11/1995  
Evaluation lead agency: State

Evaluation date: 07/25/1995  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Manifest/Records/Reporting  
Date achieved compliance: 09/21/1995  
Evaluation lead agency: State

Evaluation date: 04/05/1994  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 04/21/1994  
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 09/29/1992  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Closure/Post-Closure  
Date achieved compliance: 07/15/1993

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE WIRELESS INC (Continued)**

**1000245627**

Evaluation lead agency: State

Evaluation date: 09/29/1992  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Financial Requirements  
Date achieved compliance: 07/15/1993  
Evaluation lead agency: State

Evaluation date: 09/29/1992  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General Facility Standards  
Date achieved compliance: 07/15/1993  
Evaluation lead agency: State

Evaluation date: 09/29/1992  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Manifest  
Date achieved compliance: 07/15/1993  
Evaluation lead agency: State

Evaluation date: 09/29/1992  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Contingency Plan and Emergency Procedures  
Date achieved compliance: 07/15/1993  
Evaluation lead agency: State

Evaluation date: 09/29/1992  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Container Use and Management  
Date achieved compliance: 07/15/1993  
Evaluation lead agency: State

Evaluation date: 09/29/1992  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 07/15/1993  
Evaluation lead agency: State

Evaluation date: 08/02/1991  
Evaluation: FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 05/30/1991  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Contingency Plan and Emergency Procedures  
Date achieved compliance: 12/09/1992  
Evaluation lead agency: State

Evaluation date: 05/30/1991  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Container Use and Management  
Date achieved compliance: 12/09/1992  
Evaluation lead agency: State

Evaluation date: 05/30/1991

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE WIRELESS INC (Continued)**

**1000245627**

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 12/09/1992  
Evaluation lead agency: State

Evaluation date: 05/30/1991  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Closure/Post-Closure  
Date achieved compliance: 12/09/1992  
Evaluation lead agency: State

Evaluation date: 05/30/1991  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Manifest  
Date achieved compliance: 12/09/1992  
Evaluation lead agency: State

Evaluation date: 05/30/1991  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General Facility Standards  
Date achieved compliance: 12/09/1992  
Evaluation lead agency: State

Evaluation date: 07/25/1989  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General  
Date achieved compliance: 10/16/1989  
Evaluation lead agency: State

**FINDS:**

Registry ID: 110000786070

**Environmental Interest/Information System**

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY**

**RI MANIFEST:**

GEN Cert Date: 2/25/2002  
Transporter Receipt Date: Not reported  
Number Of Containers: 0  
Container Type: Not reported  
Waste Code1: Not reported  
Waste Code2: Not reported  
Waste Code3: Not reported  
Comment: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE WIRELESS INC (Continued)**

**1000245627**

Fee Exempt Code: Not reported  
TSD Name: ADVANCED CHEMICAL CO INC  
TSD ID: RID059735761  
TSD Date: Not reported  
Transporter 2 Name: Not reported  
Transporter 2 ID: Not reported  
Manifest Docket Number: RIH0017126  
Waste Description: CYANIDE  
Quantity: 25  
WT/Vol Units: G  
Item Number: 1  
Transporter Name: HAZMAT ENV GROUP INC  
Transporter EPA ID: NYD980769947  
GEN Cert Date: 2/25/2002  
Transporter Recpt Date: Not reported  
Transporter 2 Recpt Date: Not reported  
TSD Recpt Date: Not reported  
EPA ID: CAT000625392  
Transporter 2 ID: Not reported

**EMI:**

Year: 1990  
County Code: 43  
Air Basin: SF  
Facility ID: 6324  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1995  
County Code: 43  
Air Basin: SF  
Facility ID: 6324  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1996

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE WIRELESS INC (Continued)**

**1000245627**

County Code: 43  
Air Basin: SF  
Facility ID: 6324  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1997  
County Code: 43  
Air Basin: SF  
Facility ID: 6324  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 4  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1998  
County Code: 43  
Air Basin: SF  
Facility ID: 6324  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1999  
County Code: 43  
Air Basin: SF  
Facility ID: 6324  
Air District Name: BA  
SIC Code: 3679  
Air District Name: BAY AREA AQMD

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE WIRELESS INC (Continued)**

**1000245627**

Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2000  
County Code: 43  
Air Basin: SF  
Facility ID: 6324  
Air District Name: BA  
SIC Code: 3679  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2001  
County Code: 43  
Air Basin: SF  
Facility ID: 6324  
Air District Name: BA  
SIC Code: 3679  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2002  
County Code: 43  
Air Basin: SF  
Facility ID: 6324  
Air District Name: BA  
SIC Code: 3679  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE WIRELESS INC (Continued)**

**1000245627**

SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0  
  
Year: 2003  
County Code: 43  
Air Basin: SF  
Facility ID: 15867  
Air District Name: BA  
SIC Code: 3679  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2004  
County Code: 43  
Air Basin: SF  
Facility ID: 15867  
Air District Name: BA  
SIC Code: 3679  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1.519  
Reactive Organic Gases Tons/Yr: 0.6076  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

**HWP:**

EPA Id: CAT000625392  
Cleanup Status: CLOSED  
Latitude: 37.37955  
Longitude: -121.9673  
Facility Type: Historical - Non-Operating  
Facility Size: Not reported  
Team: Not reported  
Supervisor: Not reported  
Site Code: Not reported  
Assembly District: 25  
Senate District: 10  
Public Information Officer: Not reported

**Closure:**

EPA Id: CAT000625392  
Facility Type: Historical - Non-Operating  
Unit Names: Unit 1  
Event Description: Closure Final - ISSUE CLOSURE VERIFICATION

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TELEDYNE WIRELESS INC (Continued)**

**1000245627**

Actual Date: 08/22/1997

Alias:

EPA Id: CAT000625392  
Facility Type: Historical - Non-Operating  
Alias Type: FRS  
Alias: 110018987952

**J56**  
**South**  
**1/2-1**  
**0.615 mi.**  
**3249 ft.**

**FILTRONIC SOLID STATE (FSS), SOLID STATE DIVISION**  
**3251 OLCOTT STREET**  
**SANTA CLARA, CA 95054**

**CA HIST UST** **U001601929**  
**CA ENVIROSTOR** **N/A**

**Site 2 of 2 in cluster J**

**Relative:**  
**Higher**

HIST UST:

Region: STATE  
Facility ID: 00000020396  
Facility Type: Other  
Other Type: SEMICONDUCTOR MFG.  
Total Tanks: 0002  
Contact Name: CARL GUNDERSEN  
Telephone: 4089881331  
Owner Name: VARIAN ASSOCIATES, INC.  
Owner Address: 611 HANSEN WAY  
Owner City,St,Zip: PALO ALTO, CA 94303

**Actual:**  
**34 ft.**

Tank Num: 001  
Container Num: 1  
Year Installed: 1979  
Tank Capacity: 00000500  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: 1/2 inches  
Leak Detection: None

Tank Num: 002  
Container Num: 2  
Year Installed: 1982  
Tank Capacity: 00000150  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: 1/8 inches  
Leak Detection: None

ENVIROSTOR:

Facility ID: 71003508  
Status: Inactive - Needs Evaluation  
Status Date: Not reported  
Site Code: Not reported  
Site Type: Tiered Permit  
Site Type Detailed: Tiered Permit  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FILTRONIC SOLID STATE (FSS), SOLID STATE DIVISION (Continued)**

**U001601929**

Supervisor: Not reported  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.38039  
Longitude: -121.9659  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: CAT000625392  
Alias Type: EPA Identification Number  
Alias Name: 110018987952  
Alias Type: EPA (FRS #)  
Alias Name: 71003508  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: Not reported  
Completed Sub Area Name: Not reported  
Completed Document Type: Not reported  
Completed Date: Not reported  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

Facility ID: 80001810  
Status: Inactive - Needs Evaluation  
Status Date: 06/29/2009  
Site Code: Not reported  
Site Type: Corrective Action  
Site Type Detailed: Corrective Action  
Acres: 0  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Mark Piros  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: Not reported  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FILTRONIC SOLID STATE (FSS), SOLID STATE DIVISION (Continued)**

**U001601929**

Latitude: 37.38040  
Longitude: -121.9658  
APN: 224-47-018  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: 224-47-018  
Alias Type: APN  
Alias Name: CAT000625392  
Alias Type: EPA Identification Number  
Alias Name: 110018987952  
Alias Type: EPA (FRS #)  
Alias Name: 80001810  
Alias Type: Envirostor ID Number

Completed Info:  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Assessment Report  
Completed Date: 09/06/1991  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

57  
SW  
1/2-1  
0.617 mi.  
3256 ft.

**EQUITY OFFICE PROPERTIES INC**  
**2620 AUGUSTINE DR**  
**SANTA CLARA, CA 95054**

CA VCP S112986144  
CA HAZNET N/A  
CA ENVIROSTOR

**Relative:**  
**Higher**

VCP:  
Facility ID: 60001968  
Site Type: Voluntary Cleanup  
Site Type Detail: Voluntary Cleanup  
Site Mgmt. Req.: NONE SPECIFIED  
Acres: 5  
National Priorities List: NO  
Cleanup Oversight Agencies: SMBRP  
Lead Agency: SMBRP  
Lead Agency Description: DTSC - Site Cleanup Program  
Project Manager: Jayantha Randeni  
Supervisor: Mark Piros  
Division Branch: Cleanup Berkeley  
Site Code: 201996  
Assembly: 25  
Senate: 10  
Special Programs Code: Not reported  
Status: Active  
Status Date: 02/04/2014

**Actual:**  
**33 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EQUITY OFFICE PROPERTIES INC (Continued)**

**S112986144**

Restricted Use: NO  
Funding: Responsible Party  
Lat/Long: 37.38175 / -121.9746  
APN: 21645011, 21645014, 21645019, 21645027, 21645028  
Past Use: AGRICULTURAL - ORCHARD, OFFICE BUILDING  
Potential COC: 30001, 30006, 30007, 30013, 30024, 3002502, 30207  
Confirmed COC: 30001,30006,30007,30013,30024,30207,3002502  
Potential Description: OTH, SOIL  
Alias Name: 21645011  
Alias Type: APN  
Alias Name: 21645014  
Alias Type: APN  
Alias Name: 21645019  
Alias Type: APN  
Alias Name: 21645027  
Alias Type: APN  
Alias Name: 21645028  
Alias Type: APN  
Alias Name: 201996  
Alias Type: Project Code (Site Code)  
Alias Name: 60001968  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Application  
Completed Date: 03/12/2014  
Comments: The proponent submitted an application in August 2013 that included both the properties comprising the Santa Clara Retail Square site and the Santa Clara Technology Campus 1 site (SCTC 1) as one site. Later proponent decided to split the project into two sites. Therefore, the Memorandum of Agreement decision for SCTC 1 also applied to this site.  
Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Endangerment Assessment Report  
Completed Date: 05/19/2014  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Public Notice  
Completed Date: 06/04/2014  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Public Notice  
Completed Date: 06/03/2014  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Community Profile  
Completed Date: 05/28/2014  
Comments: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EQUITY OFFICE PROPERTIES INC (Continued)**

**S112986144**

Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: AB 389 Response Plan  
Future Due Date: 2014  
Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: CEQA - Responsible Agency Review  
Future Due Date: 2014  
Schedule Area Name: PROJECT WIDE  
Schedule Sub Area Name: Not reported  
Schedule Document Type: California Land Reuse and Revitalization Agreement  
Schedule Due Date: 06/30/2014  
Schedule Revised Date: Not reported

**HAZNET:**

Year: 2011  
Gepaid: CAC002666566  
Contact: JIM SOUTTER  
Telephone: 6503723553  
Mailing Name: Not reported  
Mailing Address: 2655 CAMPUS DR STE 100  
Mailing City,St,Zip: SAN MATEO, CA 944032520  
Gen County: Not reported  
TSD EPA ID: CAD982042475  
TSD County: Not reported  
Waste Category: Asbestos containing waste  
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)  
Tons: 1.2  
Facility County: Santa Clara

Year: 2011  
Gepaid: CAC002666566  
Contact: JIM SOUTTER  
Telephone: 6503723553  
Mailing Name: Not reported  
Mailing Address: 2655 CAMPUS DR STE 100  
Mailing City,St,Zip: SAN MATEO, CA 944032520  
Gen County: Not reported  
TSD EPA ID: CAD028409019  
TSD County: Not reported  
Waste Category: Unspecified oil-containing waste  
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.0175  
Facility County: Santa Clara

**ENVIROSTOR:**

Facility ID: 60001968  
Status: Active  
Status Date: 02/04/2014  
Site Code: 201996  
Site Type: Voluntary Cleanup  
Site Type Detailed: Voluntary Cleanup  
Acres: 5  
NPL: NO

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EQUITY OFFICE PROPERTIES INC (Continued)**

**S112986144**

Regulatory Agencies: SMBRP  
Lead Agency: SMBRP  
Program Manager: Jayantha Randeni  
Supervisor: Mark Piros  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Responsible Party  
Latitude: 37.38175  
Longitude: -121.9746  
APN: 21645011, 21645014, 21645019, 21645027, 21645028  
Past Use: AGRICULTURAL - ORCHARD, OFFICE BUILDING  
Potential COC: Arsenic DDD DDE Lead TPH-diesel TPH-MOTOR OIL Dieldrin  
Confirmed COC: Arsenic DDD DDE Lead TPH-diesel Dieldrin TPH-MOTOR OIL  
Potential Description: OTH, SOIL  
Alias Name: 21645011  
Alias Type: APN  
Alias Name: 21645014  
Alias Type: APN  
Alias Name: 21645019  
Alias Type: APN  
Alias Name: 21645027  
Alias Type: APN  
Alias Name: 21645028  
Alias Type: APN  
Alias Name: 201996  
Alias Type: Project Code (Site Code)  
Alias Name: 60001968  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Application  
Completed Date: 03/12/2014  
Comments: The proponent submitted an application in August 2013 that included both the properties comprising the Santa Clara Retail Square site and the Santa Clara Technology Campus 1 site (SCTC 1) as one site. Later proponent decided to split the project into two sites. Therefore, the Memorandum of Agreement decision for SCTC 1 also applied to this site.  
Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Endangerment Assessment Report  
Completed Date: 05/19/2014  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Public Notice  
Completed Date: 06/04/2014  
Comments: Not reported

Completed Area Name: PROJECT WIDE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EQUITY OFFICE PROPERTIES INC (Continued)**

**S112986144**

Completed Sub Area Name: Not reported  
Completed Document Type: Public Notice  
Completed Date: 06/03/2014  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Community Profile  
Completed Date: 05/28/2014  
Comments: Not reported

Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: AB 389 Response Plan  
Future Due Date: 2014  
Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: CEQA - Responsible Agency Review  
Future Due Date: 2014  
Schedule Area Name: PROJECT WIDE  
Schedule Sub Area Name: Not reported  
Schedule Document Type: California Land Reuse and Revitalization Agreement  
Schedule Due Date: 06/30/2014  
Schedule Revised Date: Not reported

**I58**  
**SE**  
**1/2-1**  
**0.636 mi.**  
**3357 ft.**

**ALPHA METALS, INC.. LEONARD CT.**  
**3401 LEONARD CT**  
**SANTA CLARA, CA 95054**

**CA ENVIROSTOR** **S103654046**  
**N/A**

**Site 2 of 2 in cluster I**

**Relative:**  
**Higher**

ENVIROSTOR:  
Facility ID: 71003169  
Status: Inactive - Needs Evaluation  
Status Date: Not reported  
Site Code: Not reported  
Site Type: Tiered Permit  
Site Type Detailed: Tiered Permit  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Not reported  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.38324  
Longitude: -121.9571  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED

**Actual:**  
**29 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALPHA METALS, INC.. LEONARD CT. (Continued)**

**S103654046**

Alias Name: CAD983649187  
Alias Type: EPA Identification Number  
Alias Name: 71003169  
Alias Type: Envirostor ID Number

Completed Info:  
Completed Area Name: Not reported  
Completed Sub Area Name: Not reported  
Completed Document Type: Not reported  
Completed Date: Not reported  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**59**  
**SW**  
**1/2-1**  
**0.689 mi.**  
**3636 ft.**

**SANTA CLARA TECHNOLOGY CAMPUS 1**  
**2685 AUGUSTINE DRIVE**  
**SANTA CLARA, CA 95054**

**CA VCP S113883345**  
**CA ENVIROSTOR N/A**

**Relative:**  
**Higher**

VCP:

**Actual:**  
**35 ft.**

Facility ID: 60001922  
Site Type: Voluntary Cleanup  
Site Type Detail: Voluntary Cleanup  
Site Mgmt. Req.: NONE SPECIFIED  
Acres: 16.6  
National Priorities List: NO  
Cleanup Oversight Agencies: SMBRP  
Lead Agency: SMBRP  
Lead Agency Description: DTSC - Site Cleanup Program  
Project Manager: Jayantha Randeni  
Supervisor: Mark Piros  
Division Branch: Cleanup Berkeley  
Site Code: 201983  
Assembly: 25  
Senate: 10  
Special Programs Code: CLRRRA Liability Immunity (AB 389)  
Status: Active  
Status Date: 09/03/2013  
Restricted Use: NO  
Funding: Responsible Party  
Lat/Long: 37.38311 / -121.9749  
APN: 21645009, 21645031, 21645032  
Past Use: AGRICULTURAL - ORCHARD, LABORATORIES- UNSPECIFIED, MANUFACTURING - ELECTRONIC, RESEARCH - OTHER  
Potential COC: 30001, 30007, 30013, 30207  
Confirmed COC: 30001,30007,30013,30207  
Potential Description: SOIL  
Alias Name: 21645009  
Alias Type: APN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SANTA CLARA TECHNOLOGY CAMPUS 1 (Continued)**

**S113883345**

Alias Name: 21645031  
Alias Type: APN  
Alias Name: 21645032  
Alias Type: APN  
Alias Name: 201983  
Alias Type: Project Code (Site Code)  
Alias Name: 60001922  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Correspondence  
Completed Date: 08/30/2013  
Comments: DTSC will be the lead agency for the site

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Correspondence  
Completed Date: 10/04/2013  
Comments: The original Request for Agency Oversight included 8 parcels and proponent decided to split the project into two separate sites. This Site now consists of 3 parcels and Augustine Bowers LLC is the proponent.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Correspondence  
Completed Date: 11/20/2013  
Comments: Notification of DTSC's intent to enter into CLRRRA agreement to City of Santa Clara and Santa Clara County.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: California Land Reuse and Revitalization Agreement  
Completed Date: 01/16/2014  
Comments: CLRRRA Agreement between DTSC and Augustine Bowers LLC was executed.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: CEQA - Responsible Agency Review  
Completed Date: 01/16/2014  
Comments: DTSC filed a Notice of Determination with the State Clearinghouse on 1/17/2014 in compliance with the California Environmental Quality Act.  
Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Application  
Completed Date: 08/12/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Endangerment Assessment Report  
Completed Date: 10/26/2013  
Comments: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SANTA CLARA TECHNOLOGY CAMPUS 1 (Continued)**

**S113883345**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Community Profile  
Completed Date: 10/09/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: AB 389 Response Plan  
Completed Date: 01/16/2014  
Comments: The selected response action identified in the Response Plan is to excavate and consolidate contaminated soil on-Site, beneath a ocapo (e.g., parking structures, buildings, parking lots, or 2 feet of clean soil in landscaped areas).

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fact Sheets  
Completed Date: 11/19/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Public Notice  
Completed Date: 11/19/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Report  
Completed Date: 11/01/2013  
Comments: Arsenic, lead, and pesticides (DDE and dieldrin) were found in shallow soil at concentrations above regulatory screening levels and further action is required at the site.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Work Notice  
Completed Date: 01/27/2014  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Design/Implementation Workplan  
Completed Date: 05/02/2014  
Comments: The Transportation Plan describes the general procedures and protocols to minimize potential health, safety, and environmental risks resulting from the transportation of impacted soil to off-Site disposal facilities during remediation activities at the Site.

Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Removal Action Completion Report  
Future Due Date: 2014  
Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Operations and Maintenance Plan

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SANTA CLARA TECHNOLOGY CAMPUS 1 (Continued)**

**S113883345**

Future Due Date: 2014  
Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Land Use Restriction  
Future Due Date: 2015  
Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Certification  
Future Due Date: 2015  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**ENVIROSTOR:**

Facility ID: 60001922  
Status: Active  
Status Date: 09/03/2013  
Site Code: 201983  
Site Type: Voluntary Cleanup  
Site Type Detailed: Voluntary Cleanup  
Acres: 16.6  
NPL: NO  
Regulatory Agencies: SMBRP  
Lead Agency: SMBRP  
Program Manager: Jayantha Randeni  
Supervisor: Mark Piros  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: CLRRRA Liability Immunity (AB 389)  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Responsible Party  
Latitude: 37.38311  
Longitude: -121.9749  
APN: 21645009, 21645031, 21645032  
Past Use: AGRICULTURAL - ORCHARD, LABORATORIES- UNSPECIFIED, MANUFACTURING - ELECTRONIC, RESEARCH - OTHER  
Potential COC: Arsenic DDE Lead Dieldrin  
Confirmed COC: Arsenic DDE Lead Dieldrin  
Potential Description: SOIL  
Alias Name: 21645009  
Alias Type: APN  
Alias Name: 21645031  
Alias Type: APN  
Alias Name: 21645032  
Alias Type: APN  
Alias Name: 201983  
Alias Type: Project Code (Site Code)  
Alias Name: 60001922  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SANTA CLARA TECHNOLOGY CAMPUS 1 (Continued)**

**S113883345**

Completed Document Type: Correspondence  
Completed Date: 08/30/2013  
Comments: DTSC will be the lead agency for the site

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Correspondence  
Completed Date: 10/04/2013  
Comments: The original Request for Agency Oversight included 8 parcels and proponent decided to split the project into two separate sites. This Site now consists of 3 parcels and Augustine Bowers LLC is the proponent.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Correspondence  
Completed Date: 11/20/2013  
Comments: Notification of DTSC's intent to enter into CLRRRA agreement to City of Santa Clara and Santa Clara County.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: California Land Reuse and Revitalization Agreement  
Completed Date: 01/16/2014  
Comments: CLRRRA Agreement between DTSC and Augustine Bowers LLC was executed.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: CEQA - Responsible Agency Review  
Completed Date: 01/16/2014  
Comments: DTSC filed a Notice of Determination with the State Clearinghouse on 1/17/2014 in compliance with the California Environmental Quality Act. Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Application  
Completed Date: 08/12/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Endangerment Assessment Report  
Completed Date: 10/26/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Community Profile  
Completed Date: 10/09/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: AB 389 Response Plan  
Completed Date: 01/16/2014  
Comments: The selected response action identified in the Response Plan is to

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SANTA CLARA TECHNOLOGY CAMPUS 1 (Continued)**

**S113883345**

excavate and consolidate contaminated soil on-Site, beneath a ocapo (e.g., parking structures, buildings, parking lots, or 2 feet of clean soil in landscaped areas).

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fact Sheets  
Completed Date: 11/19/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Public Notice  
Completed Date: 11/19/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Report  
Completed Date: 11/01/2013  
Comments: Arsenic, lead, and pesticides (DDE and dieldrin) were found in shallow soil at concentrations above regulatory screening levels and further action is required at the site.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Work Notice  
Completed Date: 01/27/2014  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Design/Implementation Workplan  
Completed Date: 05/02/2014  
Comments: The Transportation Plan describes the general procedures and protocols to minimize potential health, safety, and environmental risks resulting from the transportation of impacted soil to off-Site disposal facilities during remediation activities at the Site.

Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Removal Action Completion Report  
Future Due Date: 2014

Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Operations and Maintenance Plan  
Future Due Date: 2014

Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Land Use Restriction  
Future Due Date: 2015

Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Certification  
Future Due Date: 2015

Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SANTA CLARA TECHNOLOGY CAMPUS 1 (Continued)**

**S113883345**

Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**60**  
**ESE**  
**1/2-1**  
**0.689 mi.**  
**3638 ft.**

**L & P MACHINE, INC.**  
**1340 NORMAN AVENUE**  
**SANTA CLARA, CA 95054**

**CA ENVIROSTOR** **S103628731**  
**N/A**

**Relative:**  
**Higher**

**ENVIROSTOR:**

**Actual:**  
**27 ft.**

Facility ID: 71003690  
Status: Inactive - Needs Evaluation  
Status Date: Not reported  
Site Code: Not reported  
Site Type: Tiered Permit  
Site Type Detailed: Tiered Permit  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Not reported  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.38494  
Longitude: -121.9548  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: CAL000010373  
Alias Type: EPA Identification Number  
Alias Name: 71003690  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: Not reported  
Completed Sub Area Name: Not reported  
Completed Document Type: Not reported  
Completed Date: Not reported  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**61**  
**South**  
**1/2-1**  
**0.692 mi.**  
**3653 ft.**

**KAWATEC**  
**3030/3040 OLCOTT ST**  
**SANTA CLARA, CA 95051**

**CA HIST CORTESE**  
**CA ENVIROSTOR**

**S100351762**  
**N/A**

**Relative:**  
**Higher**

HIST CORTESE:  
 Region: CORTESE  
 Facility County Code: 43  
 Reg By: CALSI  
 Reg Id: 43280135

**Actual:**  
**38 ft.**

**ENVIROSTOR:**

Facility ID: 43280135  
 Status: Refer: RWQCB  
 Status Date: 09/24/1994  
 Site Code: Not reported  
 Site Type: Evaluation  
 Site Type Detailed: Evaluation  
 Acres: 0.9  
 NPL: NO  
 Regulatory Agencies: RWQCB 2 - San Francisco Bay, SANTA CLARA VALLEY WATER DISTRICT  
 Lead Agency: RWQCB 2 - San Francisco Bay  
 Program Manager: Not reported  
 Supervisor: Mark Piros  
 Division Branch: Cleanup Berkeley  
 Assembly: 25  
 Senate: 10  
 Special Program: Not reported  
 Restricted Use: NO  
 Site Mgmt Req: NONE SPECIFIED  
 Funding: Not reported  
 Latitude: 37.37737  
 Longitude: -121.9675  
 APN: 224-46-008, 22446008  
 Past Use: MANUFACTURING - ELECTRONIC  
 Potential COC: Tetrachloroethylene (PCE TPH-MOTOR OIL Trichloroethylene (TCE Vinyl chloride Acetone 1,1-Dichloroethylene  
 Confirmed COC: Tetrachloroethylene (PCE Acetone TPH-MOTOR OIL Trichloroethylene (TCE 1,1-Dichloroethylene Vinyl chloride  
 Potential Description: OTH, SOIL, SV  
 Alias Name: KAWATEC  
 Alias Type: Alternate Name  
 Alias Name: 224-46-008  
 Alias Type: APN  
 Alias Name: 22446008  
 Alias Type: APN  
 Alias Name: 43280135  
 Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Correspondence  
 Completed Date: 09/24/1994  
 Comments: Regional Water Quality Control Board case closure and other letters.

Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KAWATEC (Continued)**

**S100351762**

Completed Document Type: Site Screening  
Completed Date: 10/27/1992  
Comments: The present level of contamination at the site poses a significant threat to public and environmental health. Therefore, PEA of high priority is recommended. The site consists of two manufacturing facilities operated by Kawasaki Wafer Technology (KAWATEC). Both onsite soil and groundwater were contaminated. Soil was contaminated by heavy soils and perchloroethylene (PCE) beneath the drum storage area at the site. The solvents found were primarily perchloroethylene (PCE) (440 ppb) and trichloroethylene TCE-(430 ppb), and some of their breakdown products. One of the solvents, PCE (100 ppb), has migrated to the upper most aquifer in both identified source areas. The current levels of contaminants at both soil and groundwater exceeded the state action levels and pose a significant threat to public and environmental health. Based on available information, there is an observed release at the site. Therefore, PEA investigation and risk assessment are required to determine the current status of the site and evaluate the existing risk.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 06/08/2000  
Comments: Site cleaned up under RWQCB oversight.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Report  
Completed Date: 07/08/1991  
Comments: PCE was detected in soil and groundwater.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Report  
Completed Date: 08/14/1991  
Comments: Soil excavation and soil vapor extraction recommended for the site.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Report  
Completed Date: 10/03/1991  
Comments: 1,158 cubic yards of contaminated soil was removed from the site and transferred to a Class 1 landfill.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Report  
Completed Date: 09/01/1992  
Comments: A soil vapor extraction system was operated for 6 months and shut down for 2 months. Groundwater sampling showed that PCE was below detection limit.

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**KAWATEC (Continued)**

**S100351762**

Schedule Sub Area Name: Not reported  
 Schedule Document Type: Not reported  
 Schedule Due Date: Not reported  
 Schedule Revised Date: Not reported

**62**  
**SSE**  
**1/2-1**  
**0.711 mi.**  
**3752 ft.**

**3100 JAY STREET, VARIAN**  
**3100 JAY**  
**SANTA CLARA, CA 95052**

**CA Cortese**  
**CA HIST CORTESE**  
**CA SLIC**  
**CA ENF**  
**CA ENVIROSTOR**  
**CA HWP**

**S101542372**  
**N/A**

**Relative:**  
**Higher**

**CORTESE:**

**Actual:**  
**33 ft.**

Region: CORTESE  
 Envirostor Id: Not reported  
 Site/Facility Type: Not reported  
 Cleanup Status: Not reported  
 Status Date: Not reported  
 Site Code: Not reported  
 Latitude: Not reported  
 Longitude: Not reported  
 Owner: Not reported  
 Enf Type: Not reported  
 Swat R: Not reported  
 Flag: CORTESE  
 Order No: Not reported  
 Waste Discharge System No: Not reported  
 Effective Date: Not reported  
 Region 2: 2  
 WID Id: 2 438190N02  
 Solid Waste Id No: Not reported  
 Waste Management Uit Name: Not reported

**HIST CORTESE:**

Region: CORTESE  
 Facility County Code: 43  
 Reg By: WBC&D  
 Reg Id: 2 438190N02

**SLIC:**

Region: STATE  
**Facility Status: Completed - Case Closed**  
 Status Date: 01/01/2005  
 Global Id: SL18202582  
 Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
 Lead Agency Case Number: Not reported  
 Latitude: 37.377471  
 Longitude: -121.960856  
 Case Type: Cleanup Program Site  
 Case Worker: Not reported  
 Local Agency: Not reported  
 RB Case Number: 43S0173  
 File Location: Not reported  
 Potential Media Affected: Not reported  
 Potential Contaminants of Concern: 1,1,1-Trichloroethane (TCA), Other Chlorinated Hydrocarbons, \*\*  
 CIS-1,2-DICHLOROETHYLENE  
 Site History: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3100 JAY STREET, VARIAN (Continued)**

**S101542372**

[Click here to access the California GeoTracker records for this facility:](#)

ENF:  
Region: 2  
Facility Id: 202364  
Agency Name: Varian Inc  
Place Type: Facility  
Place Subtype: Groundwater Cleanup Site  
Facility Type: Industrial  
Agency Type: Privately-Owned Business  
# Of Agencies: 1  
Place Latitude: 37.38167  
Place Longitude: -121.9652800000  
SIC Code 1: 3674  
SIC Desc 1: Semiconductors and Related Devices  
SIC Code 2: Not reported  
SIC Desc 2: Not reported  
SIC Code 3: Not reported  
SIC Desc 3: Not reported  
NAICS Code 1: Not reported  
NAICS Desc 1: Not reported  
NAICS Code 2: Not reported  
NAICS Desc 2: Not reported  
NAICS Code 3: Not reported  
NAICS Desc 3: Not reported  
# Of Places: 1  
Source Of Facility: Reg Meas  
Design Flow: Not reported  
Threat To Water Quality: Not reported  
Complexity: Not reported  
Pretreatment: Not reported  
Facility Waste Type: Not reported  
Facility Waste Type 2: Not reported  
Facility Waste Type 3: Not reported  
Facility Waste Type 4: Not reported  
Program: UNREGS  
Program Category1: UNREGS  
Program Category2: UNREGS  
# Of Programs: 1  
WDID: 2 438190N02  
Reg Measure Id: 162443  
Reg Measure Type: Unregulated  
Region: 2  
Order #: Not reported  
Npdes# CA#: Not reported  
Major-Minor: Not reported  
Npdes Type: Not reported  
Reclamation: Not reported  
Dredge Fill Fee: Not reported  
301H: Not reported  
Application Fee Amt Received: Not reported  
Status: Never Active  
Status Date: 02/21/2013  
Effective Date: Not reported  
Expiration/Review Date: Not reported  
Termination Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3100 JAY STREET, VARIAN (Continued)**

**S101542372**

WDR Review - Amend: Not reported  
WDR Review - Revise/Renew: Not reported  
WDR Review - Rescind: Not reported  
WDR Review - No Action Required: Not reported  
WDR Review - Pending: Not reported  
WDR Review - Planned: Not reported  
Status Enrollee: N  
Individual/General: I  
Fee Code: Not reported  
Direction/Voice: Passive  
Enforcement Id(EID): 223061  
Region: 2  
Order / Resolution Number: 95-016  
Enforcement Action Type: Clean-up and Abatement Order  
Effective Date: 01/18/1995  
Adoption/Issuance Date: Not reported  
Achieve Date: Not reported  
Termination Date: Not reported  
ACL Issuance Date: Not reported  
EPL Issuance Date: Not reported  
Status: Active  
Title: Enforcement - 2 438190N02  
Description: SCR-  
Program: UNREGS  
Latest Milestone Completion Date: Not reported  
# Of Programs1: 1  
Total Assessment Amount: 0  
Initial Assessed Amount: 0  
Liability \$ Amount: 0  
Project \$ Amount: 0  
Liability \$ Paid: 0  
Project \$ Completed: 0  
Total \$ Paid/Completed Amount: 0

**ENVIROSTOR:**

Facility ID: 80001797  
Status: Refer: RWQCB  
Status Date: 11/27/2013  
Site Code: Not reported  
Site Type: Corrective Action  
Site Type Detailed: Corrective Action  
Acres: 11.29  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Mark Piros  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: Not reported  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.37822  
Longitude: -121.9618  
APN: NONE SPECIFIED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3100 JAY STREET, VARIAN (Continued)**

**S101542372**

Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: CAT000617605  
Alias Type: EPA Identification Number  
Alias Name: 43480001  
Alias Type: Envirostor ID Number  
Alias Name: 80001797  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Assessment Report  
Completed Date: 02/13/1991  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

Facility ID: 43480001  
Status: Refer: RWQCB  
Status Date: 03/31/1995  
Site Code: Not reported  
Site Type: Historical  
Site Type Detailed: \* Historical  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Referred - Not Assigned  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.37777  
Longitude: -121.9616  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: CAT000617605  
Alias Type: EPA Identification Number  
Alias Name: 43480001  
Alias Type: Envirostor ID Number

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3100 JAY STREET, VARIAN (Continued)**

**S101542372**

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 07/01/1991  
Comments: EPA completed Preliminary Assessment and recommend NFA; DTSC needs to determine site status. Site Screening. In 1980, Granger Associates, a tele- communications equipment manufacturer, became the first tenant of this fully fenced facility comprised of 3 buildings, with a total area of 78,870 sq. ft. Between 1980 and 1985, Varian relocated. Granger continued its operation until 1990 when Digital Switch Communication Corp. (DSC) bought them out. While information about Granger's process and waste management is not available, Varian used hydrochloric & nitric acid, caustic soda, & trichloroethane (TCE), and Granger used freon-113, butyl hethyl alcohol in their respective processes. Both have historically stored their waste at site for periodic transportation and disposal by specialty contractors. However, several accidental spillages have been recorded. Such spillages and probable leakage from a subsurface containment sump account for the detection of TCA, TCE, & PCE, along with various metals in soils groundwater at site. The site is underlain by two aquifers of which the lower is used for drinking water.

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

HWP:

EPA Id: CAT000617605  
Cleanup Status: UNKNOWN  
Latitude: 37.37822  
Longitude: -121.9618  
Facility Type: Historical - Non-Operating  
Facility Size: Not reported  
Team: Not reported  
Supervisor: Not reported  
Site Code: Not reported  
Assembly District: 25  
Senate District: 10  
Public Information Officer: Not reported

Alias:

EPA Id: CAT000617605  
Facility Type: Historical - Non-Operating  
Alias Type: Envirostor ID Number  
Alias: 43480001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**K63**  
**ESE**  
**1/2-1**  
**0.734 mi.**  
**3878 ft.**

**FABRICATED CIRCUITS INC**  
**1196 NORMAN AVE**  
**SANTA CLARA, CA 95050**

**Site 1 of 2 in cluster K**

**RCRA-TSDF** **1000360797**  
**CERC-NFRAP** **CAD082898180**  
**CORRACTS**  
**RCRA-SQG**  
**FINDS**

**Relative:**  
**Higher**

RCRA-TSDF:

Date form received by agency: 09/01/1996  
Facility name: FABRICATED CIRCUITS INC  
Facility address: 1196 NORMAN AVE  
SANTA CLARA, CA 95050  
EPA ID: CAD082898180  
Mailing address: 1196 NORMAN AVENUE  
SANTA CLARA, CA 95050  
Contact: Not reported  
Contact address: Not reported  
Contact country: Not reported  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 09  
Land type: Facility is not located on Indian land. Additional information is not known.  
Classification: TSDF  
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste

**Actual:**  
**27 ft.**

Owner/Operator Summary:

Owner/operator name: FABRICATED CIRCUITS INC.  
Owner/operator address: 1196 NORMAN AVENUE  
SANTA CLARA, CA 95050  
Owner/operator country: Not reported  
Owner/operator telephone: (408) 988-7775  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported  
  
Owner/operator name: FABRICATED CIRCUITS INC.  
Owner/operator address: 1196 NORMAN AVENUE  
CITY NOT REPORTED, CA 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (408) 988-7775  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FABRICATED CIRCUITS INC (Continued)**

**1000360797**

User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 11/10/1980  
Site name: FABRICATED CIRCUITS INC  
Classification: Large Quantity Generator

Corrective Action Summary:

Event date: 08/30/1991  
Event: CA049PA

Event date: 08/30/1991  
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 08/30/1991  
Event: CA029EP

Event date: 12/26/1991  
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 06/30/1999  
Event: RFA Determination Of Need For An RFI, RFI is Not Necessary;

Event date: 06/30/1999  
Event: RFA Completed, Assessment was an RFA.

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 04/22/1991  
Date achieved compliance: 02/05/1992  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 07/19/1991  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 06/27/1989  
Date achieved compliance: 09/28/1991  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/11/1989  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FABRICATED CIRCUITS INC (Continued)**

**1000360797**

Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - Manifest/Records/Reporting  
Date violation determined: 06/27/1989  
Date achieved compliance: 09/25/1991  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/11/1989  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: LDR - General  
Date violation determined: 06/27/1989  
Date achieved compliance: 09/25/1991  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/11/1989  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 06/18/1987  
Date achieved compliance: 09/28/1991  
Violation lead agency: State  
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER  
Enforcement action date: 08/31/1988  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 6650  
Final penalty amount: 6650  
Paid penalty amount: 6650

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 06/18/1987  
Date achieved compliance: 09/28/1991  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/07/1987  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FABRICATED CIRCUITS INC (Continued)**

**1000360797**

Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 06/18/1987  
Date achieved compliance: 09/28/1991  
Violation lead agency: State  
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
Enforcement action date: 08/01/1991  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 06/18/1987  
Date achieved compliance: 09/28/1991  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 04/22/1988  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:  
Evaluation date: 02/05/1992  
Evaluation: FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 02/27/1991  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 02/05/1992  
Evaluation lead agency: State

Evaluation date: 06/27/1989  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General  
Date achieved compliance: 09/28/1991  
Evaluation lead agency: State

Evaluation date: 06/27/1989  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Manifest/Records/Reporting  
Date achieved compliance: 09/25/1991  
Evaluation lead agency: State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FABRICATED CIRCUITS INC (Continued)**

**1000360797**

Evaluation date: 06/27/1989  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: LDR - General  
Date achieved compliance: 09/25/1991  
Evaluation lead agency: State

Evaluation date: 06/18/1987  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General  
Date achieved compliance: 09/28/1991  
Evaluation lead agency: State

CERC-NFRAP:

Site ID: 0903274  
Federal Facility: Not a Federal Facility  
NPL Status: Not on the NPL  
Non NPL Status: Deferred to RCRA

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID: 13285953.00000  
Person ID: 13003854.00000

Contact Sequence ID: 13291548.00000  
Person ID: 13003858.00000

Contact Sequence ID: 13297406.00000  
Person ID: 13004003.00000

Program Priority:

Description: RCRA Deferral Audit  
Description: RCRA Deferral - Lead Confirmed  
Description: RCRA Deferral - Further Superfund Assessment

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY  
Date Started: / /  
Date Completed: 03/01/91  
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 09/12/91  
Priority Level: Deferred to RCRA (Subtitle C)

Action: ARCHIVE SITE  
Date Started: / /  
Date Completed: 01/23/96  
Priority Level: Not reported

CORRACTS:

EPA ID: CAD082898180  
EPA Region: 09

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FABRICATED CIRCUITS INC (Continued)**

**1000360797**

Area Name: ENTIRE FACILITY  
Actual Date: 19911226  
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority  
NAICS Code(s): 334419  
Other Electronic Component Manufacturing  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: CAD082898180  
EPA Region: 09  
Area Name: ENTIRE FACILITY  
Actual Date: 19910830  
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority  
NAICS Code(s): 334419  
Other Electronic Component Manufacturing  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: CAD082898180  
EPA Region: 09  
Area Name: ENTIRE FACILITY  
Actual Date: 19910830  
Action: CA049PA  
NAICS Code(s): 334419  
Other Electronic Component Manufacturing  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: CAD082898180  
EPA Region: 09  
Area Name: ENTIRE FACILITY  
Actual Date: 19910830  
Action: CA029EP  
NAICS Code(s): 334419  
Other Electronic Component Manufacturing  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: CAD082898180  
EPA Region: 09  
Area Name: ENTIRE FACILITY  
Actual Date: 19990630  
Action: CA070NO - RFA Determination Of Need For An RFI, RFI is Not Necessary  
NAICS Code(s): 334419  
Other Electronic Component Manufacturing  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: CAD082898180  
EPA Region: 09  
Area Name: ENTIRE FACILITY  
Actual Date: 19990630  
Action: CA050RF - RFA Completed, Assessment was an RFA  
NAICS Code(s): 334419  
Other Electronic Component Manufacturing

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FABRICATED CIRCUITS INC (Continued)**

**1000360797**

Original schedule date: Not reported  
Schedule end date: Not reported

**FINDS:**

Registry ID: 110000609841

**Environmental Interest/Information System**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**K64  
ESE  
1/2-1  
0.738 mi.  
3897 ft.**

**FABRICATED CIRCUITS INC.  
1196 NORMAN AVENUE  
SANTA CLARA, CA 95050**

**CA ENVIROSTOR S109467268  
CA HWP N/A**

**Site 2 of 2 in cluster K**

**Relative:  
Higher**

**ENVIROSTOR:**

**Actual:  
27 ft.**

Facility ID: 80001693  
Status: Refer: RWQCB  
Status Date: 01/01/2008  
Site Code: Not reported  
Site Type: Corrective Action  
Site Type Detailed: Corrective Action  
Acres: 0  
NPL: NO  
Regulatory Agencies: RWQCB  
Lead Agency: WQC  
Program Manager: Not reported  
Supervisor: \* Unknown  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: Not reported  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.38632  
Longitude: -121.9534  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: CAD082898180  
Alias Type: EPA Identification Number  
Alias Name: 80001693  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Assessment Report

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FABRICATED CIRCUITS INC. (Continued)**

**S109467268**

Completed Date: 08/30/1991  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: RCRA Facility Assessment Report  
Completed Date: 06/30/1999  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: RCRA Facility Assessment Report  
Completed Date: 06/30/1999  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**HWP:**

EPA Id: CAD082898180  
Cleanup Status: PROTECTIVE FILER  
Latitude: 37.38632  
Longitude: -121.9534  
Facility Type: Historical - Non-Operating  
Facility Size: Not reported  
Team: Not reported  
Supervisor: Not reported  
Site Code: Not reported  
Assembly District: 25  
Senate District: 10  
Public Information Officer: Not reported

**Activities:**

EPA Id: CAD082898180  
Facility Type: Historical - Non-Operating  
Unit Names: CONTAIN1, TANKSTR1, TANKTRT1  
Event Description: Protective Filer Status - PROTECTIVE FILER (APPROVED)  
Actual Date: 04/09/1982

EPA Id: CAD082898180  
Facility Type: Historical - Non-Operating  
Unit Names: CONTAIN1, TANKSTR1, TANKTRT1  
Event Description: Protective Filer Status - PROTECTIVE FILER (RECEIVED)  
Actual Date: 04/01/1982

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

L65  
SSW  
1/2-1  
0.741 mi.  
3915 ft.

HORIBA/STEC INC  
3265 SCOTT BLVD  
SANTA CLARA, CA 95054

CERC-NFRAP  
CORRACTS  
RCRA-SQG  
FINDS

1000142777  
CAD049233570

Site 1 of 2 in cluster L

Relative:  
Higher

CERC-NFRAP:

Site ID: 0900216  
Federal Facility: Not a Federal Facility  
NPL Status: Not on the NPL  
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Actual:  
38 ft.

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID: 13290239.00000  
Person ID: 13003854.00000

Contact Sequence ID: 13295834.00000  
Person ID: 13003858.00000

Contact Sequence ID: 13301692.00000  
Person ID: 13004003.00000

Program Priority:

Description: RCRA Deferral Audit  
Description: RCRA Deferral - New Decision  
Description: RCRA Deferral - Further Superfund Assessment

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY  
Date Started: / /  
Date Completed: 01/01/91  
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 08/02/91  
Priority Level: Deferred to RCRA (Subtitle C)

Action: ARCHIVE SITE  
Date Started: / /  
Date Completed: 01/23/96  
Priority Level: Not reported

CORRACTS:

EPA ID: CAD049233570  
EPA Region: 09  
Area Name: ENTIRE FACILITY  
Actual Date: 19910725  
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority  
NAICS Code(s): 334419  
Other Electronic Component Manufacturing  
Original schedule date: Not reported  
Schedule end date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HORIBA/STEC INC (Continued)**

**1000142777**

RCRA-SQG:

Date form received by agency: 09/01/1996  
Facility name: ZETA LABORATORIES INC  
Facility address: 3265 SCOTT BLVD  
SANTA CLARA, CA 95051  
EPA ID: CAD049233570  
Mailing address: SCOTT BLVD  
SANTA CLARA, CA 95051  
Contact: Not reported  
Contact address: Not reported  
Contact country: Not reported  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 09  
Land type: Facility is not located on Indian land. Additional information is not known.  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: ZETA LABORATORIES INC  
Owner/operator address: 3265 SCOTT BLVD  
CITY NOT REPORTED, CA 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (408) 727-6001  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: ZETA LABORATORIES INC  
Owner/operator address: 3265 SCOTT BLVD  
SANTA CLARA, CA 95051  
Owner/operator country: Not reported  
Owner/operator telephone: (408) 727-6001  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HORIBA/STEC INC (Continued)**

**1000142777**

Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Corrective Action Summary:

Event date: 01/01/1990  
Event: CA029ST

Event date: 07/25/1991  
Event: CA074LO

Event date: 07/25/1991  
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 07/25/1991  
Event: CA049PA

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 09/14/1987  
Date achieved compliance: 11/24/1987  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/24/1987  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 09/16/1987  
Evaluation: FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 09/14/1987  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 11/24/1987  
Evaluation lead agency: State

FINDS:

Registry ID: 110055666603

Environmental Interest/Information System  
Registry ID: 110002647556

Environmental Interest/Information System  
RCRAInfo is a national information system that supports the Resource

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**HORIBA/STEC INC (Continued)**

**1000142777**

Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**L66**  
**SSW**  
**1/2-1**  
**0.741 mi.**  
**3915 ft.**

**ZETA LABORATORIES INC**  
**3265 SCOTT BLVD**  
**SANTA CLARA, CA 95051**

**CA HIST UST**  
**CA ENVIROSTOR**  
**CA HWP**

**U001601931**  
**N/A**

**Site 2 of 2 in cluster L**

**Relative:**  
**Higher**

**HIST UST:**

Region: STATE  
 Facility ID: 00000030269  
 Facility Type: Other  
 Other Type: Not reported  
 Total Tanks: 0001  
 Contact Name: Not reported  
 Telephone: 4087276001  
 Owner Name: ZETA LABORATORIES, INC  
 Owner Address: 3265 SCOTT BLVD.  
 Owner City,St,Zip: SANTA CLARA, CA 95054

**Actual:**  
**38 ft.**

Tank Num: 001  
 Container Num: 90029  
 Year Installed: 1979  
 Tank Capacity: 00000055  
 Tank Used for: WASTE  
 Type of Fuel: Not reported  
 Tank Construction: .75 inches  
 Leak Detection: None

**ENVIROSTOR:**

Facility ID: 80001402  
 Status: No Further Action  
 Status Date: 05/16/2012  
 Site Code: Not reported  
 Site Type: Corrective Action  
 Site Type Detailed: Corrective Action  
 Acres: 1  
 NPL: NO  
 Regulatory Agencies: SMBRP  
 Lead Agency: SMBRP  
 Program Manager: Mark Piros  
 Supervisor: Mark Piros  
 Division Branch: Cleanup Berkeley  
 Assembly: 25  
 Senate: Not reported  
 Special Program: Not reported  
 Restricted Use: NO  
 Site Mgmt Req: NONE SPECIFIED  
 Funding: Not reported  
 Latitude: 37.38049  
 Longitude: -121.9735  
 APN: NONE SPECIFIED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ZETA LABORATORIES INC (Continued)**

**U001601931**

Past Use: MANUFACTURING - ELECTRONIC  
Potential COC: Freon 113 1,1,1-Trichloroethane (TCA Acetone Copper and compounds  
Cyanide (free Methanol Nitrite Toluene  
Confirmed COC: Freon 113 30026-NO 30032-NO 30156-NO 30160-NO 30364-NO 30410-NO  
30550-NO  
Potential Description: OTH  
Alias Name: CAD049233570  
Alias Type: EPA Identification Number  
Alias Name: 110002647556  
Alias Type: EPA (FRS #)  
Alias Name: 80001402  
Alias Type: Envirostor ID Number

Completed Info:  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Assessment Report  
Completed Date: 07/25/1991  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: RCRA Facility Assessment Report  
Completed Date: 05/16/2012  
Comments: The site had been identified in Envirostor with an inactive-needs  
evaluation status, and DTSC performed a site screening to determine  
whether further action was required. Based on the site screening,  
DTSC concluded that no further action is required at the site.

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

HWP:  
EPA Id: CAD049233570  
Cleanup Status: UNKNOWN  
Latitude: 37.3797  
Longitude: -121.9740  
Facility Type: Historical - Non-Operating  
Facility Size: Not reported  
Team: Not reported  
Supervisor: Not reported  
Site Code: Not reported  
Assembly District: 25  
Senate District: 10  
Public Information Officer: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**67**  
**SSE**  
**1/2-1**  
**0.787 mi.**  
**4153 ft.**

**APPLIED KOMATSU TECHNOLOGY**  
**3101 SCOTT BOULEVARD**  
**SANTA CLARA, CA 95054**

**CA NPDES**  
**CA ENVIROSTOR**  
**CA WDS**

**S103950439**  
**N/A**

**Relative:**  
**Higher**

**NPDES:**

Npdes Number: CAS000001  
 Facility Status: Active  
 Agency Id: 0  
 Region: 2  
 Regulatory Measure Id: 184223  
 Order No: 97-03-DWQ  
 Regulatory Measure Type: Enrollee  
 Place Id: Not reported  
 WDID: 2 431015551  
 Program Type: Industrial  
 Adoption Date Of Regulatory Measure: Not reported  
 Effective Date Of Regulatory Measure: 12/21/1999  
 Expiration Date Of Regulatory Measure: Not reported  
 Termination Date Of Regulatory Measure: Not reported  
 Discharge Name: Applied Materials  
 Discharge Address: 3101 Scott Blvd MS 9105 PO Box 58039  
 Discharge City: Santa Clara  
 Discharge State: California  
 Discharge Zip: 95054

**Actual:**  
**36 ft.**

**ENVIROSTOR:**

Facility ID: 71003585  
 Status: Refer: RWQCB  
 Status Date: 11/27/2013  
 Site Code: Not reported  
 Site Type: Tiered Permit  
 Site Type Detailed: Tiered Permit  
 Acres: 11  
 NPL: NO  
 Regulatory Agencies: RWQCB 2 - San Francisco Bay  
 Lead Agency: RWQCB 2 - San Francisco Bay  
 Program Manager: Randy Reyes  
 Supervisor: Mark Piros  
 Division Branch: Cleanup Berkeley  
 Assembly: 25  
 Senate: 10  
 Special Program: Not reported  
 Restricted Use: NO  
 Site Mgmt Req: NONE SPECIFIED  
 Funding: Not reported  
 Latitude: 37.37870  
 Longitude: -121.9632  
 APN: 22409165  
 Past Use: NONE SPECIFIED  
 Potential COC: NONE SPECIFIED  
 Confirmed COC: NONE SPECIFIED  
 Potential Description: NONE SPECIFIED  
 Alias Name: 22409165  
 Alias Type: APN  
 Alias Name: CA0001009448  
 Alias Type: EPA Identification Number  
 Alias Name: 110002623368

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED KOMATSU TECHNOLOGY (Continued)**

**S103950439**

Alias Type: EPA (FRS #)  
Alias Name: SL18202582  
Alias Type: GeoTracker Global ID  
Alias Name: 71003585  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Phase 1 Addendum  
Completed Date: 11/27/2013  
Comments: DTSC performed a site screening to determine whether any releases have occurred at the site that require corrective actions. Based on information gathered during the site screening, it was found that Varian Associates performed investigation and cleanup with oversight by the Regional Water Quality Control Board (RWQCB), including remediating groundwater contaminated with 1,1,1-trichloroethane. Therefore DTSC recommended no further action is required and that the site status be identified as refer to RWQCB.

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

CA WDS:

Facility ID: San Francisco Bay 431015551  
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.  
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.  
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board  
Subregion: 2  
Facility Telephone: 4086549700  
Facility Contact: JOHN EDWARDS  
Agency Name: APPLIED MATERIALS INC  
Agency Address: 3050 Bowers Ave  
Agency City,St,Zip: Santa Clara 950543298  
Agency Contact: TOM HUYNH  
Agency Telephone: 4087275555  
Agency Type: Private  
SIC Code: 0  
SIC Code 2: Not reported  
Primary Waste Type: Not reported  
Primary Waste: Not reported  
Waste Type2: Not reported  
Waste2: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED KOMATSU TECHNOLOGY (Continued)**

**S103950439**

Primary Waste Type: Not reported  
Secondary Waste: Not reported  
Secondary Waste Type: Not reported  
Design Flow: 0  
Baseline Flow: 0  
Reclamation: Not reported  
POTW: Not reported  
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.  
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

68  
SSW  
1/2-1  
0.789 mi.  
4165 ft.

**MICREL-SYNERGY SEMICONDUCTOR**  
**3250 SCOTT BLVD**  
**SANTA CLARA, CA 95054**

**RCRA-SQG 1000362635**  
**CA ENVIROSTOR CAT000623983**  
**CA WDS**

**Relative:**  
**Higher**

**Actual:**  
**39 ft.**

RCRA-SQG:  
Date form received by agency: 02/16/2004  
Facility name: MICREL-SYNERGY SEMICONDUCTOR  
Facility address: 3250 SCOTT BLVD  
SANTA CLARA, CA 95054  
EPA ID: CAT000623983  
Mailing address: 1849 FORTUNE DR  
SAN JOSE, CA 95131  
Contact: TATSUO MORIMOTO  
Contact address: Not reported  
Not reported  
Contact country: Not reported  
Contact telephone: (408) 435-3436  
Contact email: TATSUO.MORIMOTO@MICREL.COM  
EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Owner/Operator Summary:**

Owner/operator name: MICREL-SYNERGY SEMICONDUCTOR  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 10/01/1996

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MICREL-SYNERGY SEMICONDUCTOR (Continued)**

**1000362635**

Owner/Op end date: Not reported  
  
Owner/operator name: DEERFIELD REALTY CORP  
Owner/operator address: 3258 ALAMEDA DE LAS PULGAS  
MENLO PARK, CA 94025  
  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 03/01/2000  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 02/16/2004  
Site name: MICREL-SYNERGY SEMICONDUCTOR  
Classification: Large Quantity Generator

Date form received by agency: 02/12/2002  
Site name: SYNERGY SEMICONDUCTOR  
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000  
Site name: SYNERGY SEMICONDUCTOR  
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999  
Site name: SYNERGY SEMICONDUCTOR  
Classification: Large Quantity Generator

Date form received by agency: 12/14/1998  
Site name: SYNERGY SEMICONDUCTOR  
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996  
Site name: SYNERGY SEMICONDUCTOR  
Classification: Small Quantity Generator

Date form received by agency: 04/16/1990  
Site name: HARRIS/INTERSIL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MICREL-SYNERGY SEMICONDUCTOR (Continued)**

**1000362635**

Classification: Large Quantity Generator

Violation Status: No violations found

**ENVIROSTOR:**

Facility ID: 71003503  
Status: Inactive - Needs Evaluation  
Status Date: Not reported  
Site Code: Not reported  
Site Type: Tiered Permit  
Site Type Detailed: Tiered Permit  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Not reported  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.37863  
Longitude: -121.9719  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: CAT000623983  
Alias Type: EPA Identification Number  
Alias Name: 71003503  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: Not reported  
Completed Sub Area Name: Not reported  
Completed Document Type: Not reported  
Completed Date: Not reported  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**CA WDS:**

Facility ID: San Francisco Bay 431014928  
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MICREL-SYNERGY SEMICONDUCTOR (Continued)**

**1000362635**

washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.

Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.

NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board

Subregion: 2

Facility Telephone: 4089809191

Facility Contact: THOMAS WENGER

Agency Name: SYNERGY SEMICONDUCTOR

Agency Address: 3250 Scott Blvd

Agency City,St,Zip: Santa Clara 950543011

Agency Contact: THOMAS WENGER

Agency Telephone: 4089809191

Agency Type: Private

SIC Code: 0

SIC Code 2: Not reported

Primary Waste Type: Not reported

Primary Waste: Not reported

Waste Type2: Not reported

Waste2: Not reported

Primary Waste Type: Not reported

Secondary Waste: Not reported

Secondary Waste Type: Not reported

Design Flow: 0

Baseline Flow: 0

Reclamation: Not reported

POTW: Not reported

Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

**69**  
**North**  
**1/2-1**  
**0.813 mi.**  
**4295 ft.**

**GIANERA 2 - HABITAT FOR HUMANITY SILICON VALLEY**  
**2261 - 2285 GIANERA STREET**  
**SANTA CLARA, CA 95054**

**CA VCP S110275520**  
**CA ENVIROSTOR N/A**

**Relative:**  
**Lower**

VCP:  
 Facility ID: 60001273  
 Site Type: Voluntary Cleanup  
 Site Type Detail: Voluntary Cleanup  
 Site Mgmt. Req.: NONE SPECIFIED  
 Acres: 0.33  
 National Priorities List: NO  
 Cleanup Oversight Agencies: SMBRP  
 Lead Agency: SMBRP  
 Lead Agency Description: DTSC - Site Cleanup Program

**Actual:**  
**16 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GIANERA 2 - HABITAT FOR HUMANITY SILICON VALLEY (Continued)**

**S110275520**

Project Manager: Henry Chui  
Supervisor: Mark Piros  
Division Branch: Cleanup Berkeley  
Site Code: 201878  
Assembly: 25  
Senate: 10  
Special Programs Code: Not reported  
Status: Certified  
Status Date: 03/30/2011  
Restricted Use: NO  
Funding: Responsible Party  
Lat/Long: 37.40128 / -121.9641  
APN: NONE SPECIFIED  
Past Use: UNKNOWN  
Potential COC: 30013  
Confirmed COC: 30013  
Potential Description: SOIL  
Alias Name: 201878  
Alias Type: Project Code (Site Code)  
Alias Name: 60001273  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: 03/30/2011  
Comments: The certification report that all remedial activities have been completed as outline in the approved Remedial Action Workplan. The lead contaminated soil in the exposed areas have been removed to unrestricted use and backfilled with cleanup imported materials.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation Workplan  
Completed Date: 05/11/2010  
Comments: DTSC approved the supplemental soil investigation work plan to characterize the vertical extent of the lead contamination.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Community Profile  
Completed Date: 07/30/2010  
Comments: The community profile for Gianera Habitat for Humanity was completed in July 2010 after community survey was sent to the surrounding community.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Report  
Completed Date: 06/29/2010  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Workplan  
Completed Date: 11/03/2010  
Comments: DTSC approved the final RAW. The cleanup will involve excavation of

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GIANERA 2 - HABITAT FOR HUMANITY SILICON VALLEY (Continued)**

**S110275520**

200 to 300 cubic yards for lead-contaminated soil from landscaped areas around four single-family homes and a two-story condominium building that are currently on the site.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fact Sheets  
Completed Date: 09/16/2010  
Comments: The Gianera Removal Action Worlplan was public notice on September 22, 2010 and was sent to the San Jose Press Democrat on September 16, 2010. The public comment period will run from September 22 through October 22, 2010.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Public Notice  
Completed Date: 09/16/2010  
Comments: The Gianera Removal Action Worlplan was public notice on September 22, 2010 and was sent to the San Jose Press Democrat on September 16, 2010. The public comment period will run from September 22 through October 22, 2010.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 12/15/2010  
Comments: The field work for the removal of lead contaminated soil begun on December 15 and ie expected to last 1 week.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Work Notice  
Completed Date: 11/15/2010  
Comments: The Gianera Work Notice has been completed to annouce the start of the RAW implementation to remove lead contaminated soil.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Completion Report  
Completed Date: 03/22/2011  
Comments: Final Completion Report documents the remedial activities that were conducted under the approved Removal Action Workplan. Approxametaly 123 tons of lead contaminated soil was excavated. Confirmation samples showed they met the cleanup goal of 80 mg/kg for unrestricted use.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: CEQA - Notice of Exemption  
Completed Date: 10/26/2010  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Voluntary Cleanup Agreement  
Completed Date: 05/06/2010  
Comments: This is a Voluntary Cleanup Agreement between the Department and

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GIANERA 2 - HABITAT FOR HUMANITY SILICON VALLEY (Continued)**

**S110275520**

Habitat for Humanity, Silicon Valley for the investigation and cleanup of lead contamination for residential use.

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**ENVIROSTOR:**

Facility ID: 60001273  
Status: Certified  
Status Date: 03/30/2011  
Site Code: 201878  
Site Type: Voluntary Cleanup  
Site Type Detailed: Voluntary Cleanup  
Acres: 0.33  
NPL: NO  
Regulatory Agencies: SMBRP  
Lead Agency: SMBRP  
Program Manager: Henry Chui  
Supervisor: Mark Piros  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Responsible Party  
Latitude: 37.40128  
Longitude: -121.9641  
APN: NONE SPECIFIED  
Past Use: UNKNOWN  
Potential COC: Lead  
Confirmed COC: Lead  
Potential Description: SOIL  
Alias Name: 201878  
Alias Type: Project Code (Site Code)  
Alias Name: 60001273  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: 03/30/2011  
Comments: The certification report that all remedial activities have been completed as outline in the approved Remedial Action Workplan. The lead contaminated soil in the exposed areas have been removed to unrestricted use and backfilled with cleanup imported materials.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GIANERA 2 - HABITAT FOR HUMANITY SILICON VALLEY (Continued)**

**S110275520**

Completed Document Type: Remedial Investigation Workplan  
Completed Date: 05/11/2010  
Comments: DTSC approved the supplemental soil investigation work plan to characterize the vertical extent of the lead contamination.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Community Profile  
Completed Date: 07/30/2010  
Comments: The community profile for Gianera Habitat for Humanity was completed in July 2010 after community survey was sent to the surrounding community.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Report  
Completed Date: 06/29/2010  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Workplan  
Completed Date: 11/03/2010  
Comments: DTSC approved the final RAW. The cleanup will involve excavation of 200 to 300 cubic yards for lead-contaminated soil from landscaped areas around four single-family homes and a two-story condominium building that are currently on the site.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fact Sheets  
Completed Date: 09/16/2010  
Comments: The Gianera Removal Action Workplan was public notice on September 22, 2010 and was sent to the San Jose Press Democrat on September 16, 2010. The public comment period will run from September 22 through October 22, 2010.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Public Notice  
Completed Date: 09/16/2010  
Comments: The Gianera Removal Action Workplan was public notice on September 22, 2010 and was sent to the San Jose Press Democrat on September 16, 2010. The public comment period will run from September 22 through October 22, 2010.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 12/15/2010  
Comments: The field work for the removal of lead contaminated soil begun on December 15 and is expected to last 1 week.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Work Notice  
Completed Date: 11/15/2010

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GIANERA 2 - HABITAT FOR HUMANITY SILICON VALLEY (Continued)**

**S110275520**

Comments: The Gianera Work Notice has been completed to announce the start of the RAW implementation to remove lead contaminated soil.

Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Removal Action Completion Report  
 Completed Date: 03/22/2011  
 Comments: Final Completion Report documents the remedial activities that were conducted under the approved Removal Action Workplan. Approxamately 123 tons of lead contaminated soil was excavated. Confirmation samples showed they met the cleanup goal of 80 mg/kg for unrestricted use.

Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: CEQA - Notice of Exemption  
 Completed Date: 10/26/2010  
 Comments: Not reported

Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Voluntary Cleanup Agreement  
 Completed Date: 05/06/2010  
 Comments: This is a Voluntary Cleanup Agreement between the Department and Habitat for Humanity, Silicon Valley for the investigation and cleanup of lead contamination for residential use.

Future Area Name: Not reported  
 Future Sub Area Name: Not reported  
 Future Document Type: Not reported  
 Future Due Date: Not reported  
 Schedule Area Name: Not reported  
 Schedule Sub Area Name: Not reported  
 Schedule Document Type: Not reported  
 Schedule Due Date: Not reported  
 Schedule Revised Date: Not reported

70  
 South  
 1/2-1  
 0.823 mi.  
 4347 ft.

**UNISIL CORP.**  
**3030/3040 OLCOTT STREET**  
**SANTA CLARA, CA 95054**

**CA ENVIROSTOR S110494418**  
**N/A**

**Relative:**  
**Higher**

ENVIROSTOR:  
 Facility ID: 71003545  
 Status: Inactive - Needs Evaluation  
 Status Date: 05/09/2000  
 Site Code: Not reported  
 Site Type: Tiered Permit  
 Site Type Detailed: Tiered Permit  
 Acres: 0  
 NPL: NO  
 Regulatory Agencies: NONE SPECIFIED  
 Lead Agency: NONE SPECIFIED  
 Program Manager: Not reported  
 Supervisor: Mark Piros  
 Division Branch: Cleanup Berkeley  
 Assembly: 25

**Actual:**  
**39 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNISIL CORP. (Continued)**

**S110494418**

Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.37738  
Longitude: -121.9674  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: CAT080032188  
Alias Type: EPA Identification Number  
Alias Name: 71003545  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Phase 1 Non-Submittal  
Completed Date: 12/13/2000  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Compliance Verification  
Completed Date: 05/09/2000  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

71  
NNE  
1/2-1  
0.838 mi.  
4425 ft.

**HOGAN DRIVE PROPERTY  
HOGAN DRIVE AND LAFAYETTE STREET  
SANTA CLARA, CA 95054**

**CA VCP S108054464  
CA ENVIROSTOR N/A**

**Relative:  
Lower**

VCP:

Facility ID: 60000397  
Site Type: Voluntary Cleanup  
Site Type Detail: Voluntary Cleanup  
Site Mgmt. Req.: NONE SPECIFIED  
Acres: 2.8  
National Priorities List: NO  
Cleanup Oversight Agencies: SMBRP  
Lead Agency: SMBRP  
Lead Agency Description: DTSC - Site Cleanup Program  
Project Manager: Denise Tsuji  
Supervisor: Denise Tsuji

**Actual:  
18 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HOGAN DRIVE PROPERTY (Continued)**

**S108054464**

Division Branch: Cleanup Berkeley  
Site Code: 201675  
Assembly: 25  
Senate: 10  
Special Programs Code: Voluntary Cleanup Program  
Status: No Further Action  
Status Date: 02/09/2011  
Restricted Use: NO  
Funding: Responsible Party  
Lat/Long: 37.401 / -121.962  
APN: 097-17-128  
Past Use: DRY CLEANING  
Potential COC: 30022  
Confirmed COC: 30022  
Potential Description: OTH, SOIL  
Alias Name: 097-17-128  
Alias Type: APN  
Alias Name: 110033614907  
Alias Type: EPA (FRS #)  
Alias Name: 201675  
Alias Type: Project Code (Site Code)  
Alias Name: 60000397  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Workplan  
Completed Date: 02/28/2007  
Comments: See SAP and Pilot Study Approval letter,

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Workplan  
Completed Date: 02/28/2007  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 07/15/2007  
Comments: Final soil gas sampling lab data received 7/9/2007.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 06/15/2007  
Comments: Raw data from post injection GW sampling submitted. Second round of soil vapor sampling to occur June 28.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation Workplan  
Completed Date: 10/18/2007  
Comments: Approved with modifications workplan for additional soil, soil vapor, and ground water sampling north and east of former dry cleaner location and along utility corridor.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HOGAN DRIVE PROPERTY (Continued)**

**S108054464**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 10/31/2007  
Comments: Field work to collected soil, soil vapor, and GW data on Snead, north of the site completed.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 02/28/2008  
Comments: No action required

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Risk Assessment Report  
Completed Date: 01/03/2008  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Voluntary Cleanup Agreement  
Completed Date: 12/01/2006  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**ENVIROSTOR:**

Facility ID: 60000397  
Status: No Further Action  
Status Date: 02/09/2011  
Site Code: 201675  
Site Type: Voluntary Cleanup  
Site Type Detailed: Voluntary Cleanup  
Acres: 2.8  
NPL: NO  
Regulatory Agencies: SMBRP  
Lead Agency: SMBRP  
Program Manager: Denise Tsuji  
Supervisor: Denise Tsuji  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Voluntary Cleanup Program  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Responsible Party  
Latitude: 37.401  
Longitude: -121.962

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HOGAN DRIVE PROPERTY (Continued)**

**S108054464**

APN: 097-17-128  
Past Use: DRY CLEANING  
Potential COC: Tetrachloroethylene (PCE)  
Confirmed COC: Tetrachloroethylene (PCE)  
Potential Description: OTH, SOIL  
Alias Name: 097-17-128  
Alias Type: APN  
Alias Name: 110033614907  
Alias Type: EPA (FRS #)  
Alias Name: 201675  
Alias Type: Project Code (Site Code)  
Alias Name: 60000397  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Workplan  
Completed Date: 02/28/2007  
Comments: See SAP and Pilot Study Approval letter,

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Workplan  
Completed Date: 02/28/2007  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 07/15/2007  
Comments: Final soil gas sampling lab data received 7/9/2007.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 06/15/2007  
Comments: Raw data from post injection GW sampling submitted. Second round of soil vapor sampling to occur June 28.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation Workplan  
Completed Date: 10/18/2007  
Comments: Approved with modifications workplan for additional soil, soil vapor, and ground water sampling north and east of former dry cleaner location and along utility corridor.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 10/31/2007  
Comments: Field work to collected soil, soil vapor, and GW data on Snead, north of the site completed.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HOGAN DRIVE PROPERTY (Continued)**

**S108054464**

Completed Date: 02/28/2008  
Comments: No action required

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Risk Assessment Report  
Completed Date: 01/03/2008  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Voluntary Cleanup Agreement  
Completed Date: 12/01/2006  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

72  
SSW  
1/2-1  
0.838 mi.  
4426 ft.

**APPLIED MATERIALS, INC., CORONADO**  
**3111 CORONADO DRIVE #15, MS1501**  
**SANTA CLARA, CA 95054**

**CA ENVIROSTOR S110493643**  
**N/A**

**Relative:**  
**Higher**

ENVIROSTOR:  
Facility ID: 71003346  
Status: Inactive - Needs Evaluation  
Status Date: Not reported  
Site Code: Not reported  
Site Type: Tiered Permit  
Site Type Detailed: Tiered Permit  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Not reported  
Division Branch: Cleanup Berkeley  
Assembly: Not reported  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 0  
Longitude: 0  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED

**Actual:**  
**38 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**APPLIED MATERIALS, INC., CORONADO (Continued)**

**S110493643**

Alias Name: CAL000138211  
Alias Type: EPA Identification Number  
Alias Name: 71003346  
Alias Type: Envirostor ID Number

Completed Info:  
Completed Area Name: Not reported  
Completed Sub Area Name: Not reported  
Completed Document Type: Not reported  
Completed Date: Not reported  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

73  
SSE  
1/2-1  
0.860 mi.  
4539 ft.

**LSI LOGIC CORPORATION  
3115 ALFRED STREET  
SANTA CLARA, CA 95054**

**RCRA-SQG 1000122417  
NY MANIFEST CAD981452568  
CA ENVIROSTOR**

**Relative:  
Higher**

RCRA-SQG:  
Date form received by agency: 02/23/2004  
Facility name: LSI LOGIC CORPORATION  
Facility address: 3115 ALFRED STREET  
SANTA CLARA, CA 95054  
EPA ID: CAD981452568  
Mailing address: LSI LOGIC CORPORATION  
1621 BARBER LANE, MS AD-129  
MILPITAS, CA 95035

**Actual:  
35 ft.**

Contact: LINDA GEE  
Contact address: Not reported  
Not reported  
Contact country: Not reported  
Contact telephone: (408) 433-4210  
Contact email: LGEE@LSIL.COM  
EPA Region: 09  
Land type: Private  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:  
Owner/operator name: LIMAR REALTY GROUP  
Owner/operator address: 1730 S. EL CAMINO REAL  
SAN MATEO, CA 94402  
Owner/operator country: US  
Owner/operator telephone: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LSI LOGIC CORPORATION (Continued)**

**1000122417**

Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 05/01/1996  
Owner/Op end date: Not reported  
  
Owner/operator name: LSI LOGIC CORPORATION  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 01/01/1983  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 02/23/2004  
Site name: LSI LOGIC CORPORATION  
Classification: Large Quantity Generator  
  
Date form received by agency: 02/28/2002  
Site name: LSI LOGIC CORPORATION  
Classification: Large Quantity Generator  
  
Date form received by agency: 10/12/2000  
Site name: LSI LOGIC CORPORATION  
Classification: Large Quantity Generator  
  
Date form received by agency: 03/04/1999  
Site name: LSI LOGIC CORPORATION  
Classification: Large Quantity Generator  
  
Date form received by agency: 09/01/1996  
Site name: LSI LOGIC DELAWARE CORP  
Classification: Large Quantity Generator  
  
Date form received by agency: 02/28/1996  
Site name: LSI LOGIC CORPORATION  
Classification: Large Quantity Generator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LSI LOGIC CORPORATION (Continued)**

**1000122417**

Date form received by agency: 03/28/1994  
Site name: LSI LOGIC CORPORATION  
Classification: Large Quantity Generator

Date form received by agency: 02/27/1992  
Site name: LSI LOGIC CORPORATION  
Classification: Large Quantity Generator

Date form received by agency: 04/12/1990  
Site name: LSI LOGIC CORPORATION  
Classification: Large Quantity Generator

Date form received by agency: 03/18/1986  
Site name: LSI LOGIC DELAWARE CORP  
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 04/03/1995  
Date achieved compliance: 06/02/1995  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 08/04/1993  
Date achieved compliance: 09/02/1993  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 04/03/1995  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 06/02/1995  
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 08/04/1993  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 09/02/1993

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LSI LOGIC CORPORATION (Continued)**

**1000122417**

Evaluation lead agency: State Contractor/Grantee

NY MANIFEST:  
EPA ID: CAD981452568  
Country: USA

Mailing Info:  
Name: LSI LOGIC CORP  
Contact: JOHN COSTA  
Address: 3115 ALFRED ST  
City/State/Zip: SANTA CLARA, CA 95056  
Country: USA  
Phone: 408-433-4092

Document ID: NYB8463357  
Manifest Status: Not reported  
Trans1 State ID: SCD987574647  
Trans2 State ID: NYD982792814  
Generator Ship Date: 04/30/1999  
Trans1 Recv Date: 04/30/1999  
Trans2 Recv Date: 05/03/1999  
TSD Site Recv Date: 05/14/1999  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: CAD981452568  
Trans1 EPA ID: NYD000632372  
Trans2 EPA ID: Not reported  
TSDF ID: Not reported  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Quantity: 00150  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 99

Document ID: NYB8463033  
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC  
Trans1 State ID: 15060PNY  
Trans2 State ID: Not reported  
Generator Ship Date: 970604  
Trans1 Recv Date: 970604  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 970616  
Part A Recv Date: 970618  
Part B Recv Date: 970710  
Generator EPA ID: CAD981452568  
Trans1 EPA ID: NYD980769947  
Trans2 EPA ID: Not reported  
TSDF ID: NYD000632372  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Quantity: 00150  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LSI LOGIC CORPORATION (Continued)**

**1000122417**

Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 100  
Year: 97

**ENVIROSTOR:**

Facility ID: 71002858  
Status: No Further Action  
Status Date: 12/05/2013  
Site Code: Not reported  
Site Type: Tiered Permit  
Site Type Detailed: Tiered Permit  
Acres: 4.2  
NPL: NO  
Regulatory Agencies: SMBRP  
Lead Agency: SMBRP  
Program Manager: Randy Reyes  
Supervisor: Mark Piros  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.37859  
Longitude: -121.9580  
APN: 22442009  
Past Use: ABOVE GROUND STORAGE TANKS, UNDERGROUND STORAGE TANKS  
Potential COC: Fluorine (soluble fluoride)  
Confirmed COC: 30287-NO  
Potential Description: SOIL  
Alias Name: 22442009  
Alias Type: APN  
Alias Name: CAD981452568  
Alias Type: EPA Identification Number  
Alias Name: 110000784045  
Alias Type: EPA (FRS #)  
Alias Name: 71002858  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Phase 1 Addendum  
Completed Date: 12/04/2013  
Comments: DTSC performed a site screening to determine whether any releases of hazardous substances or wastes have occurred at the site that require corrective actions. Closure of the Fairchild Semiconductor Company's manufacturing facility that was previously on the site was done with oversight from the City of Santa Clara Fire Department. Confirmation soil sampling was conducted as part of the facility's closure. Digital Realty Trust, Inc. had a Phase I Environmental Site Assessment performed in connection with a real estate transaction. Sampling did not identify contamination in the site soils associated with former on-site operations. Based on the information gathered during the site screening and the results of the site investigations and evaluations, DTSC concluded that no further action is required at

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**LSI LOGIC CORPORATION (Continued)**

**1000122417**

the site.

Future Area Name: Not reported  
 Future Sub Area Name: Not reported  
 Future Document Type: Not reported  
 Future Due Date: Not reported  
 Schedule Area Name: Not reported  
 Schedule Sub Area Name: Not reported  
 Schedule Document Type: Not reported  
 Schedule Due Date: Not reported  
 Schedule Revised Date: Not reported

**74  
 NE  
 1/2-1  
 0.861 mi.  
 4545 ft.**

**AGNEWS STATE HOSPITAL  
 AVENUE A AND LICK ROAD  
 SANTA CLARA, CA 95054**

**CA HIST Cal-Sites S102008399  
 CA RESPONSE N/A  
 CA ENVIROSTOR**

**Relative:  
 Lower**

Calsite:

**Actual:  
 19 ft.**

Region: BERKELEY  
 Facility ID: 43800001  
 Facility Type: RP  
 Type: RESPONSIBLE PARTY  
 Branch: NC  
 Branch Name: NORTH COAST  
 File Name: Not reported  
 State Senate District: 06011985  
 Status: CERTIFIED AS HAVING BEEN REMEDIED SATISFACTORILY UNDER DTSC OVERSIGHT  
 Status Name: CERTIFIED  
 Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL  
 NPL: Not Listed  
 SIC Code: 80  
 SIC Name: HEALTH SERVICES  
 Access: Not reported  
 Cortese: Not reported  
 Hazardous Ranking Score: Not reported  
 Date Site Hazard Ranked: Not reported  
 Groundwater Contamination: Confirmed  
 Staff Member Responsible for Site: VLASKY  
 Supervisor Responsible for Site: Not reported  
 Region Water Control Board: Not reported  
 Region Water Control Board Name: Not reported  
 Lat/Long Direction: Not reported  
 Lat/Long (dms): 0 0 0 / 0 0 0  
 Lat/Long Method: Not reported  
 Lat/Long Description: Not reported  
 State Assembly District Code: 22  
 State Senate District Code: 13  
 Facility ID: 43800001  
 Activity: CERT  
 Activity Name: CERTIFICATION  
 AWP Code: Not reported  
 Proposed Budget: 0  
 AWP Completion Date: Not reported  
 Revised Due Date: Not reported  
 Comments Date: 06011985  
 Est Person-Yrs to complete: 0  
 Estimated Size: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AGNEWS STATE HOSPITAL (Continued)**

**S102008399**

Request to Delete Activity: Not reported  
Activity Status: CERT  
Definition of Status: CERTIFIED  
Liquids Removed (Gals): 0  
Liquids Treated (Gals): 0  
Action Included Capping: Not reported  
Well Decommissioned: Not reported  
Action Included Fencing: Not reported  
Removal Action Certification: Not reported  
Activity Comments: Not reported  
For Commercial Reuse: 0  
For Industrial Reuse: 0  
For Residential Reuse: 0  
Unknown Type: 0

Alternate Address: AVENUE A AND LICK ROAD  
Alternate City,St,Zip: SANTA CLARA, CA 95054

Background Info: A major portion of the former Agnews Developmental Center (ADC) has been cleaned up under the Department of Toxic Substances Control (DTSC) oversight. For details on these projects, please refer to CalSite #43990005 (Rivermark Properties) and #43990006 (Agnews State Hospital, DGS). The parcels being addressed under CalSite number includes properties on Agnews Road east of Lafayette Street bordered by DGS Parcel 3 (except those parcels in CalSite #43990006 above), and portions of Sun Microsystems Complex. The former ADC was a State hospital or developmental center since the 19th century. It served developmentally disabled individuals on a live-in basis. The surrounding and previous use of land was farming and orchards. In 1996, the California DDS declared ADC-West as surplus which meant closure for the center and providing available lands for redevelopment. This resulted in the redevelopment of the property including the construction of the Sun Microsystem Complex, the Hope Company, an apartment complex, and the Emergency and Housing Consortium. A Phase 1 environmental assessment and investigation were conducted on ADC-West by the consultant West Associates in 1995 and 1996. The assessment covers the whole of ADC-West property. Potential sources were identified by the West Associates which included an automotive compound (located east of Avenue A) and a former solid waste incinerator (north of the automotive compound). This property is located east of DGS Parcel 4. A Case Closure Summary Report by the Santa Clara Valley Water District, dated December 16, 2002, describes the investigation and cleanup conducted at the automotive compound for underground tanks. Contaminants detected in soil included the following: TPH-gasoline (2,000 ppm), benzene (5.7 ppm), toluene (4.0 ppm) and MTBE (0.87 ppm). In groundwater, the following contaminants were detected: TPH-gasoline (10,000 ppb), benzene (1,400 ppb), toluene (570 ppb) and MTBE (8,200 ppb). From 1987 to 1998, four underground storage tanks and three vehicle lifts were removed. Cleanup included the removal of 400 cubic yards of contaminated soil, and 20,000 gallons of contaminated groundwater pumped intermittently. On December 16,2002, the Santa Clara Valley Water District, after three quarters of groundwater monitoring, issued a letter confirming the completion of a site investigation and cleanup. The report cited another potential source of contamination which was the solid waste

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AGNEWS STATE HOSPITAL (Continued)**

**S102008399**

incinerator, located northwest of the automotive compound. The incinerator had been inactive for several years and was used to burn mostly papers. According to the consultant, the ashes can contain PCBs and metals. Analytical results indicate that the ash would require disposal to a Class 1 Facility. The report did not describe the removal of the incinerator nor the disposal of the ash in the incinerator. However, the site visit indicates there are no existing structures at the Site. Sun Microsystem is located on Agnew Road across the properties mentioned above. A 1985 ADC map showed an empty parcel on the corner of Lafayette and Agnew Road, now owned by Sun Microsystem. This lot is currently zoned for research and development. Next to the empty lot is Sun Microsystem parking lots and office buildings. Information indicates this property was occupied by buildings for ADC staff residence and administrative offices. A Draft Environmental Impact Report dated May 1997 and finalized in July 1997 did not raise concern regarding any potential source of hazardous substances from these areas, except for the presence of asbestos and lead paint on the older buildings. Most of these buildings have been demolished and replaced with new structures and asphalt parking area. An apartment complex is now constructed where the former automotive compound and the incinerator were located. South of this complex is Hope Company and the Emergency Housing Consortium. Hope Company, which is located next to DGS 4, is a community service company. The facility was constructed in the early 1990s and has a long term lease with the State of California. Based on the type fo operation of the company, hazardous substances are not suspected to be used at the site.

Comments Date: 01191996  
Comments: Our records do not indicate the actual date this site was  
Comments Date: 01191996  
Comments: certified. Our records show 06/1985. We have used the date  
Comments Date: 01191996  
Comments: 06/01/1985 because this gives us the earliest statute of  
Comments Date: 01191996  
Comments: limitations.  
Comments Date: 01191996  
Comments: Not reported  
Comments Date: 06011985  
Comments: 228 gallons of contaminated liquid and 5 cubic yards of  
Comments Date: 06011985  
Comments: contaminated soil removed. This certification was confirmed by a  
Comments Date: 06011985  
Comments: report prepared by the Auditor General. The Auditor General  
Comments Date: 06011985  
Comments: conducted an audit of the Department's records to confirm a list  
Comments Date: 06011985  
Comments: of sites where the Department was involved in the cleanup and  
Comments Date: 06011985  
Comments: the cleanup had been completed. This Auditor General list  
Comments Date: 06011985  
Comments: became the basis for our historical certification information.  
Comments Date: 06011985  
Comments: Many of the sites on this list were handled by our Surveillance  
Comments Date: 06011985  
Comments: and Enforcement Staff. Much of this work was in response to the

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AGNEWS STATE HOSPITAL (Continued)**

**S102008399**

Comments Date: 06011985  
Comments: complaints from the public or reports from industry and the  
Comments Date: 06011985  
Comments: response action may have only addressed the immediate problem  
Comments Date: 06011985  
Comments: and not the entire facility.  
ID Name: CALSTARS CODE  
ID Value: 201262  
Alternate Name: AGNEWS STATE HOSPITAL  
Special Programs Code: Not reported  
Special Programs Name: Not reported

**RESPONSE:**

Facility ID: 43800001  
Site Type: State Response  
Site Type Detail: State Response or NPL  
Acres: Not reported  
National Priorities List: NO  
Cleanup Oversight Agencies: SMBRP, SANTA CLARA VALLEY WATER DISTRICT  
Lead Agency Description: SANTA CLARA VALLEY WATER DISTRICT  
Project Manager: Not reported  
Supervisor: Karen Toth  
Division Branch: Cleanup Berkeley  
Site Code: 201262  
Site Mgmt. Req.: NONE SPECIFIED  
Assembly: 25  
Senate: 10  
Special Program Status: Not reported  
Status: Certified  
Status Date: 06/01/1985  
Restricted Use: NO  
Funding: Responsible Party  
Latitude: 37.39146  
Longitude: -121.9517  
APN: NONE SPECIFIED  
Past Use: HOSPITAL  
Potential COC : \* HYDROCARBON SOLVENTS \* CONTAMINATED SOIL Asbestos Containing  
Materials (ACM Lead  
Confirmed COC: NONE SPECIFIED  
Potential Description: SOIL  
Alias Name: 110033613971  
Alias Type: EPA (FRS #)  
Alias Name: 201262  
Alias Type: Project Code (Site Code)  
Alias Name: 43800001  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: 06/01/1985  
Comments: Our records do not indicate the actual date this site was certified.  
Our records show 06/1985. We have used the date 06/01/1985 because  
this gives us the earliest statute of limitations.

Future Area Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AGNEWS STATE HOSPITAL (Continued)**

**S102008399**

Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**ENVIROSTOR:**

Facility ID: 43800001  
Status: Certified  
Status Date: 06/01/1985  
Site Code: 201262  
Site Type: State Response  
Site Type Detailed: State Response or NPL  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: SMBRP, SANTA CLARA VALLEY WATER DISTRICT  
Lead Agency: SANTA CLARA VALLEY WATER DISTRICT  
Program Manager: Not reported  
Supervisor: Karen Toth  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Responsible Party  
Latitude: 37.39146  
Longitude: -121.9517  
APN: NONE SPECIFIED  
Past Use: HOSPITAL  
Potential COC: \* HYDROCARBON SOLVENTS \* CONTAMINATED SOIL Asbestos Containing Materials (ACM Lead)  
Confirmed COC: NONE SPECIFIED  
Potential Description: SOIL  
Alias Name: 110033613971  
Alias Type: EPA (FRS #)  
Alias Name: 201262  
Alias Type: Project Code (Site Code)  
Alias Name: 43800001  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: 06/01/1985  
Comments: Our records do not indicate the actual date this site was certified. Our records show 06/1985. We have used the date 06/01/1985 because this gives us the earliest statute of limitations.

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AGNEWS STATE HOSPITAL (Continued)**

**S102008399**

Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**75**  
**SSW**  
**1/2-1**  
**0.867 mi.**  
**4578 ft.**

**AIRCO SPECIAL GASES**  
**3025 STENDER WAY**  
**SANTA CLARA, CA 95051**

**CA HIST CORTESE**  
**CA EMI**  
**CA ENVIROSTOR**

**S100854285**  
**N/A**

**Relative:**  
**Higher**

HIST CORTESE:  
Region: CORTESE  
Facility County Code: 43  
Reg By: LTNKA  
Reg Id: 2376

**Actual:**  
**40 ft.**

EMI:  
Year: 1990  
County Code: 43  
Air Basin: SF  
Facility ID: 2376  
Air District Name: BA  
SIC Code: 5169  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

**ENVIROSTOR:**

Facility ID: 71002579  
Status: Inactive - Needs Evaluation  
Status Date: Not reported  
Site Code: Not reported  
Site Type: Tiered Permit  
Site Type Detailed: Tiered Permit  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Not reported  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.37735

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**AIRCO SPECIAL GASES (Continued)**

**S100854285**

Longitude: -121.9707  
 APN: NONE SPECIFIED  
 Past Use: NONE SPECIFIED  
 Potential COC: NONE SPECIFIED  
 Confirmed COC: NONE SPECIFIED  
 Potential Description: NONE SPECIFIED  
 Alias Name: CAD076311661  
 Alias Type: EPA Identification Number  
 Alias Name: 110000844436  
 Alias Type: EPA (FRS #)  
 Alias Name: 71002579  
 Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: Not reported  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Not reported  
 Completed Date: Not reported  
 Comments: Not reported

Future Area Name: Not reported  
 Future Sub Area Name: Not reported  
 Future Document Type: Not reported  
 Future Due Date: Not reported  
 Schedule Area Name: Not reported  
 Schedule Sub Area Name: Not reported  
 Schedule Document Type: Not reported  
 Schedule Due Date: Not reported  
 Schedule Revised Date: Not reported

76  
 SSW  
 1/2-1  
 0.890 mi.  
 4701 ft.

**HONEYWELL, INC**  
**3001 STENDER WAY**  
**SANTA CLARA, CA 95054**

**CA HIST CORTESE** 1000202575  
**CA SLIC** N/A  
**CA EMI**  
**CA ENVIROSTOR**

**Relative:**  
**Higher**

HIST CORTESE:  
 Region: CORTESE  
 Facility County Code: 43  
 Reg By: WBC&D  
 Reg Id: 2 438135N03

**Actual:**  
**41 ft.**

Region: CORTESE  
 Facility County Code: 43  
 Reg By: LTNKA  
 Reg Id: 2526

SLIC:

Region: STATE  
**Facility Status: Completed - Case Closed**  
 Status Date: 10/17/2001  
 Global Id: SL18211591  
 Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
 Lead Agency Case Number: Not reported  
 Latitude: 37.377015  
 Longitude: -121.969352  
 Case Type: Cleanup Program Site  
 Case Worker: DIB

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HONEYWELL, INC (Continued)**

**1000202575**

Local Agency: Not reported  
RB Case Number: 43S0163  
File Location: Not reported  
Potential Media Affected: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

**EMI:**

Year: 1987  
County Code: 43  
Air Basin: SF  
Facility ID: 2526  
Air District Name: BA  
SIC Code: 3823  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1990  
County Code: 43  
Air Basin: SF  
Facility ID: 2526  
Air District Name: BA  
SIC Code: 3823  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

**ENVIROSTOR:**

Facility ID: 71003053  
Status: Refer: RWQCB  
Status Date: 09/12/2013  
Site Code: Not reported  
Site Type: Tiered Permit  
Site Type Detailed: Tiered Permit  
Acres: 3.39  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Randy Reyes

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HONEYWELL, INC (Continued)**

**1000202575**

Supervisor: Mark Piros  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.37714  
Longitude: -121.9696  
APN: 21629107  
Past Use: MANUFACTURING - ELECTRONIC  
Potential COC: 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride Xylenes  
Confirmed COC: 30026-NO 30593-NO 30027-NO 30028-NO  
Potential Description: OTH  
Alias Name: 21629107  
Alias Type: APN  
Alias Name: CAD982464356  
Alias Type: EPA Identification Number  
Alias Name: 110021335492  
Alias Type: EPA (FRS #)  
Alias Name: SL18211591  
Alias Type: GeoTracker Global ID  
Alias Name: 71003053  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Phase 1  
Completed Date: 12/03/2013  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Phase 1 Addendum  
Completed Date: 04/10/2014  
Comments: DTSC performed a site screening to determine whether any releases of hazardous substances or wastes have occurred at the site that require corrective actions. The Regional Water Quality Control Board (RWQCB) issued cleanup requirements in 1987 and rescinded the cleanup order in 2001. The 2001 order noted that vinyl chloride was present in groundwater at concentrations up to 3 parts per billion (ppb), exceeding the cleanup level of 0.5 ppb; however, shallow groundwater at the site was not extracted for drinking water or any other use. A drive-by inspection of the site by DTSC in October 2013 revealed that the one building on the site was currently occupied and paved around the perimeter. There were no observations indicating that there had been a release of hazardous waste. DTSC concluded that the site status should be "Refer to RWQCB".

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HONEYWELL, INC (Continued)**

**1000202575**

Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

Facility ID: 43360137  
Status: Refer: RWQCB  
Status Date: 03/01/2002  
Site Code: Not reported  
Site Type: Evaluation  
Site Type Detailed: Evaluation  
Acres: 3.39  
NPL: NO  
Regulatory Agencies: RWQCB 2 - San Francisco Bay  
Lead Agency: RWQCB 2 - San Francisco Bay  
Program Manager: Not reported  
Supervisor: Referred - Not Assigned  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.37716  
Longitude: -121.9695  
APN: 21629107  
Past Use: NONE SPECIFIED  
Potential COC: \* HALOGENATED SOLVENTS \* HYDROCARBON SOLVENTS \* OXYGENATED SOLVENTS  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: HONEYWELL INC  
Alias Type: Alternate Name  
Alias Name: SYNERTEK  
Alias Type: Alternate Name  
Alias Name: 21629107  
Alias Type: APN  
Alias Name: 110021335492  
Alias Type: EPA (FRS #)  
Alias Name: 43360137  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 11/21/1997  
Comments: RWQCB providing oversight

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Assessment Report  
Completed Date: 03/01/2002  
Comments: RWQCB is providing oversight

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HONEYWELL, INC (Continued)**

**1000202575**

Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**77**  
**ESE**  
**1/2-1**  
**0.900 mi.**  
**4752 ft.**

**TYCO PRINTED CIRCUIT GRP. - SANTA CLARA**  
**3510 BASSETT STREET**  
**SANTA CLARA, CA 95054**

**CA ENVIROSTOR S104564845**  
**N/A**

**Relative:**  
**Higher**

**ENVIROSTOR:**

**Actual:**  
**30 ft.**

Facility ID: 71003573  
Status: Inactive - Needs Evaluation  
Status Date: 01/07/2004  
Site Code: Not reported  
Site Type: Tiered Permit  
Site Type Detailed: Tiered Permit  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Not reported  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.38288  
Longitude: -121.9510  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: CA0000381269  
Alias Type: EPA Identification Number  
Alias Name: 71003573  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Phase 1  
Completed Date: 01/07/2004  
Comments: Not reported  
  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Phase I Verification  
Completed Date: 01/07/2004  
Comments: Inspection report sent on 1/7/2004  
  
Future Area Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TYCO PRINTED CIRCUIT GRP. - SANTA CLARA (Continued)**

**S104564845**

Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**78**  
**SSW**  
**1/2-1**  
**0.906 mi.**  
**4784 ft.**

**ADVANCE CIRCUIT SERVICES**  
**3150 CORONADO DRIVE #C**  
**SANTA CLARA, CA 95054**

**CA ENVIROSTOR** **S110493575**  
**N/A**

**Relative:**  
**Higher**

**ENVIROSTOR:**

**Actual:**  
**38 ft.**

Facility ID: 71003010  
Status: Inactive - Needs Evaluation  
Status Date: 01/11/2013  
Site Code: Not reported  
Site Type: Tiered Permit  
Site Type Detailed: Tiered Permit  
Acres: 1  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Mark Piros  
Division Branch: Cleanup Berkeley  
Assembly: Not reported  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.37841  
Longitude: -121.9745  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: CAD982345449  
Alias Type: EPA Identification Number  
Alias Name: 71003010  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: Not reported  
Completed Sub Area Name: Not reported  
Completed Document Type: Not reported  
Completed Date: Not reported  
Comments: Not reported  
  
Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ADVANCE CIRCUIT SERVICES (Continued)**

**S110493575**

Schedule Area Name: Not reported  
 Schedule Sub Area Name: Not reported  
 Schedule Document Type: Not reported  
 Schedule Due Date: Not reported  
 Schedule Revised Date: Not reported

**79**  
**SSW**  
**1/2-1**  
**0.912 mi.**  
**4814 ft.**

**3050 CORONADO, SYNERTEK B-1**  
**3050 CORONADO**  
**SANTA CLARA, CA 95054**

**CA HIST Cal-Sites**  
**CA NPDES**  
**CA Cortese**  
**CA HIST CORTESE**  
**CA SLIC**  
**CA DEED**  
**CA ENF**  
**CA ENVIROSTOR**

**S100939837**  
**N/A**

**Relative:**  
**Higher**

**Actual:**  
**40 ft.**

Calsite:  
 Region: BERKELEY  
 Facility ID: 43990002  
 Facility Type: NPRP  
 Type: NPL SITE, RP-FUNDED  
 Branch: NC  
 Branch Name: NORTH COAST  
 File Name: Not reported  
 State Senate District: 10041989  
 Status: DOES NOT REQUIRE DTSC ACTION. REFERRED TO REGIONAL WATER QUALITY CONTROL BOARD (RWQCB) LEAD  
 Status Name: PROPERTY/SITE REFERRED TO RWQCB  
 Lead Agency: ENVIRONMENTAL PROTECTION AGENCY  
 NPL: Listed  
 SIC Code: 99  
 SIC Name: NONCLASSIFIABLE ESTABLISHMENTS  
 Access: Not reported  
 Cortese: Not reported  
 Hazardous Ranking Score: Not reported  
 Date Site Hazard Ranked: Not reported  
 Groundwater Contamination: Confirmed  
 Staff Member Responsible for Site: Not reported  
 Supervisor Responsible for Site: Not reported  
 Region Water Control Board: SF  
 Region Water Control Board Name: SAN FRANCISCO BAY  
 Lat/Long Direction: Not reported  
 Lat/Long (dms): 0 0 0 / 0 0 0  
 Lat/long Method: Not reported  
 Lat/Long Description: Not reported  
 State Assembly District Code: 22  
 State Senate District Code: 13  
 Facility ID: 43990002  
 Activity: SS  
 Activity Name: SITE SCREENING  
 AWP Code: Not reported  
 Proposed Budget: 0  
 AWP Completion Date: Not reported  
 Revised Due Date: Not reported  
 Comments Date: 12241991  
 Est Person-Yrs to complete: 0  
 Estimated Size: Not reported  
 Request to Delete Activity: Not reported  
 Activity Status: REFRW

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3050 CORONADO, SYNERTEK B-1 (Continued)**

**S100939837**

Definition of Status: PROPERTY/SITE REFERRED TO RWQCB  
Liquids Removed (Gals): 0  
Liquids Treated (Gals): 0  
Action Included Capping: Not reported  
Well Decommissioned: Not reported  
Action Included Fencing: Not reported  
Removal Action Certification: Not reported  
Activity Comments: Not reported  
For Commercial Reuse: 0  
For Industrial Reuse: 0  
For Residential Reuse: 0  
Unknown Type: 0  
Alternate Address: STENDER WAY & CORONADO DRIVE  
Alternate City,St,Zip: SANTA CLARA, CA 95054  
Alternate Address: 3050 CORONADO DR  
Alternate City,St,Zip: SANTA CLARA, CA 95054  
Alternate Address: 3050 CORONADO DR  
Alternate City,St,Zip: SANTA CLARA, CA 95054  
Background Info: Synertek #1 was added to the National Priorities List (NPL) in September 1989 and is currently under the oversight of the San Francisco Regional Water Quality Control Board.  
Not reported  
Synertek Inc, a subsidiary of Honeywell Inc, manufactured semiconductor products in the Synertek #1 facility from 1978 to 1988. Between 1974 and 1982, one 100-gallon solvent tank and three neutralization tanks were installed at the Site. These tanks were found to be the source of the soil and groundwater contamination. The tanks and contaminated soil was removed in 1985. Groundwater is being remediated.  
Comments Date: Not reported  
Comments: Not reported  
ID Name: BEP DATABASE PCODE  
ID Value: P23084  
Alternate Name: SYNERTEK, INC. (BUILDING 1)SYNERTEK #1  
Special Programs Code: Not reported  
Special Programs Name: Not reported

**NPDES:**

Npdes Number: CAS000001  
Facility Status: Active  
Agency Id: 0  
Region: 2  
Regulatory Measure Id: 400024  
Order No: 97-03-DWQ  
Regulatory Measure Type: Enrollee  
Place Id: Not reported  
WDID: 2 43I022335  
Program Type: Industrial  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: 09/23/2009  
Expiration Date Of Regulatory Measure: Not reported  
Termination Date Of Regulatory Measure: Not reported  
Discharge Name: Tirunelveli Ravi  
Discharge Address: 3050 Coronado Dr  
Discharge City: Santa Clara  
Discharge State: California  
Discharge Zip: 95054

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

3050 CORONADO, SYNERTEK B-1 (Continued)

S100939837

CORTESE:

Region: CORTESE  
Envirostor Id: Not reported  
Site/Facility Type: Not reported  
Cleanup Status: Not reported  
Status Date: Not reported  
Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported  
Flag: CORTESE  
Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: 2  
WID Id: 2 438135N01  
Solid Waste Id No: Not reported  
Waste Management Uit Name: Not reported

HIST CORTESE:

Region: CORTESE  
Facility County Code: 43  
Reg By: WBC&D  
Reg Id: 2 438135N01

SLIC:

Region: STATE  
**Facility Status:** **Open - Remediation**  
Status Date: 01/01/1999  
Global Id: SL0608595400  
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
Lead Agency Case Number: Not reported  
Latitude: 37.37707  
Longitude: -121.972672  
Case Type: Cleanup Program Site  
Case Worker: LG  
Local Agency: Not reported  
RB Case Number: 43S1060  
File Location: Not reported  
Potential Media Affected: Not reported  
Potential Contaminants of Concern: Not reported  
Site History: No Water Board oversight of cleanup at this site. This case is included in Geotracker because the site is covered by the Water Boards NPDES general permits for discharges from pump and treat systems to surface waters (one each for fuels- and VOC-impacted sites). This can happen for two reasons: (i) the site is overseen by another agency (e.g., USEPA or DTSC) and needs coverage under one of the NPDES general permits or (ii) construction dewatering in an area of groundwater contamination necessitates NPDES general permit coverage. Including this case in Geotracker helps staff to receive and review required NPDES reports.

[Click here to access the California GeoTracker records for this facility:](#)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3050 CORONADO, SYNERTEK B-1 (Continued)**

**S100939837**

Region: STATE  
**Facility Status:** **Open - Remediation**  
Status Date: 09/15/2002  
Global Id: SL721241222  
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
Lead Agency Case Number: Not reported  
Latitude: 37.37707  
Longitude: -121.972672  
Case Type: Cleanup Program Site  
Case Worker: DIB  
Local Agency: Not reported  
RB Case Number: 43S0124  
File Location: Regional Board  
Potential Media Affected: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: \* Volatile Organic Compounds (VOC)  
Site History: VOC concentrations in groundwater have been significantly reduced through groundwater extraction and treatment. Site is currently under monitored natural attenuation status.

[Click here to access the California GeoTracker records for this facility:](#)

**DEED:**

Area: Not reported  
Sub Area: Not reported  
Site Type: SLIC  
Status: OPEN - REMEDIATION  
Agency: SWRCB  
Covenant Uploaded:  
Deed Date(s): 12/30/1991  
EDR Link ID: SL721241222

**ENF:**

Region: 2  
Facility Id: 202344  
Agency Name: HONEYWELL INC. & THE RREEF FND  
Place Type: Facility  
Place Subtype: Not reported  
Facility Type: Industrial  
Agency Type: Privately-Owned Business  
# Of Agencies: 1  
Place Latitude: 37.377035999999  
Place Longitude: -121.9725640000  
SIC Code 1: 3674  
SIC Desc 1: Semiconductors and Related Devices  
SIC Code 2: Not reported  
SIC Desc 2: Not reported  
SIC Code 3: Not reported  
SIC Desc 3: Not reported  
NAICS Code 1: Not reported  
NAICS Desc 1: Not reported  
NAICS Code 2: Not reported  
NAICS Desc 2: Not reported  
NAICS Code 3: Not reported  
NAICS Desc 3: Not reported  
# Of Places: 1  
Source Of Facility: Reg Meas

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3050 CORONADO, SYNERTEK B-1 (Continued)**

**S100939837**

Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 438135N01
Reg Measure Id:	162909
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	220378
Region:	2
Order / Resolution Number:	87-084
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	07/15/1987
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 438135N01
Description:	SCR-HONEYWELL-3050 CORONADO DR-RREEF FUNDS-GRNDWTR CLUP
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

3050 CORONADO, SYNERTEK B-1 (Continued)

S100939837

Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	2
Facility Id:	202344
Agency Name:	HONEYWELL INC. & THE RREEF FND
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	37.377035999999
Place Longitude:	-121.9725640000
SIC Code 1:	3674
SIC Desc 1:	Semiconductors and Related Devices
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 438135N01
Reg Measure Id:	162909
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

3050 CORONADO, SYNERTEK B-1 (Continued)

S100939837

Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	220069
Region:	2
Order / Resolution Number:	89-113
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	06/21/1989
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 438135N01
Description:	ORDER 89-113 RECINDS ORDER 87-084
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	2
Facility Id:	202344
Agency Name:	HONEYWELL INC. & THE RREEF FND
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	37.377035999999
Place Longitude:	-121.9725640000
SIC Code 1:	3674
SIC Desc 1:	Semiconductors and Related Devices
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

3050 CORONADO, SYNERTEK B-1 (Continued)

S100939837

NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 438135N01
Reg Measure Id:	162909
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	219825
Region:	2
Order / Resolution Number:	91-051
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	03/20/1991
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	Enforcement - 2 438135N01
Description:	SCR-FINAL REMEDIAL ACTION PLAN
Program:	UNREGS
Latest Milestone Completion Date:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**3050 CORONADO, SYNERTEK B-1 (Continued)**

**S100939837**

# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	2
Facility Id:	202345
Agency Name:	HONEYWELL INC. & THE RREEF FND
Place Type:	Facility
Place Subtype:	Groundwater Cleanup Site
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	37.377035999999
Place Longitude:	-121.9725640000
SIC Code 1:	3674
SIC Desc 1:	Semiconductors and Related Devices
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	2.87999999
Threat To Water Quality:	2
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Contaminated ground water
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	2 438135002
Reg Measure Id:	183020
Reg Measure Type:	Enrollee
Region:	2
Order #:	R2-2004-0055
Npdes# CA#:	CAG912003
Major-Minor:	Minor
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3050 CORONADO, SYNERTEK B-1 (Continued)**

**S100939837**

Status: Historical  
Status Date: 11/04/2010  
Effective Date: 05/20/1987  
Expiration/Review Date: Not reported  
Termination Date: 12/03/2009  
WDR Review - Amend: Not reported  
WDR Review - Revise/Renew: Not reported  
WDR Review - Rescind: Not reported  
WDR Review - No Action Required: Not reported  
WDR Review - Pending: Not reported  
WDR Review - Planned: Not reported  
Status Enrollee: Y  
Individual/General: I  
Fee Code: 62 - Treatment system to meet priority pollutant limit Category 1  
Direction/Voice: Passive  
Enforcement Id(EID): 238774  
Region: 2  
Order / Resolution Number: UNKNOWN  
Enforcement Action Type: 13267 Letter  
Effective Date: 01/02/2002  
Adoption/Issuance Date: Not reported  
Achieve Date: Not reported  
Termination Date: Not reported  
ACL Issuance Date: Not reported  
EPL Issuance Date: Not reported  
Status: Active  
Title: Enforcement - 2 438135002  
Description: Request for a technical report for the 5 year review that is due for the site.  
Program: NPDNONMUNIPRCS  
Latest Milestone Completion Date: Not reported  
# Of Programs1: 1  
Total Assessment Amount: 0  
Initial Assessed Amount: 0  
Liability \$ Amount: 0  
Project \$ Amount: 0  
Liability \$ Paid: 0  
Project \$ Completed: 0  
Total \$ Paid/Completed Amount: 0

**ENVIROSTOR:**

Facility ID: 60001754  
Status: Refer: RWQCB  
Status Date: 11/21/2013  
Site Code: Not reported  
Site Type: Tiered Permit  
Site Type Detailed: Tiered Permit  
Acres: 1.7  
NPL: YES  
Regulatory Agencies: TPCAB  
Lead Agency: TPCAB  
Program Manager: Randy Reyes  
Supervisor: Mark Piros  
Division Branch: Cleanup Berkeley  
Assembly: 24  
Senate: 10  
Special Program: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3050 CORONADO, SYNERTEK B-1 (Continued)**

**S100939837**

Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not Applicable  
Latitude: 37.37719  
Longitude: -121.9726  
APN: NONE SPECIFIED  
Past Use: MANUFACTURING - ELECTRONIC, UNDERGROUND STORAGE TANKS  
Potential COC: Freon 113 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Xylenes  
Confirmed COC: 30012-NO 1,1,1-Trichloroethane (TCA 30593-NO 30027-NO  
Potential Description: AQUI  
Alias Name: SL721241222  
Alias Type: GeoTracker Global ID  
Alias Name: 60001754  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Phase 1  
Completed Date: 06/23/2010  
Comments: Phase I checklist indicates no further action. This has not been verified by DTSC.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Phase 1 Addendum  
Completed Date: 05/07/2014  
Comments: In 1974, Synertek leased the Site for semiconductor manufacturing. The Site is currently occupied by Crystal Solar. Groundwater contamination was discovered at the Site in 1982. The identified sources of the groundwater contamination were solvent and neutralization tanks. The U.S. Environmental Protection Agency (U.S. EPA) listed the Site on the National Priorities List in 1989; however, the Regional Water Quality Control Board (RWQCB) has been overseeing the cleanup of the Site. Honeywell, who acquired Synertek in 1979, operated a groundwater extraction and treatment from 1987 to 2001, when a trial period of monitoring natural attenuation was begun. U.S. EPA's 2012 Fourth Five-Year Review stated that 1,1-TCA and Freon-113 were below cleanup standards in all wells. The Report concluded that TCE is the main contaminant of concern. The Five-Year Review recommended that alternative remedies be evaluated for the Site. The 2013 CH2M Hill Focused Feasibility Study recommended enhanced in-situ bioremediation followed by monitored natural attenuation. The Site's history indicates that it is actively being managed by U.S. EPA and RWQCB. In the site screening, DTSC made a "Refer to RWQCB" status recommendation.

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

Facility ID: 43990002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3050 CORONADO, SYNERTEK B-1 (Continued)**

**S100939837**

Status: Refer: RWQCB  
Status Date: 10/04/1989  
Site Code: Not reported  
Site Type: Federal Superfund  
Site Type Detailed: State Response or NPL  
Acres: Not reported  
NPL: YES  
Regulatory Agencies: US EPA  
Lead Agency: US EPA  
Program Manager: Not reported  
Supervisor: Referred - Not Assigned  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Responsible Party  
Latitude: 37.37713  
Longitude: -121.9730  
APN: 216-46-019  
Past Use: NONE SPECIFIED  
Potential COC: \* HALOGENATED ORGANIC COMPOUNDS \* HALOGENATED SOLVENTS  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: SYNERTEK #1  
Alias Type: Alternate Name  
Alias Name: 216-46-019  
Alias Type: APN  
Alias Name: 110002903886  
Alias Type: EPA (FRS #)  
Alias Name: P23084  
Alias Type: PCode  
Alias Name: 43990002  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 12/24/1991  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

80  
SSE  
1/2-1  
0.915 mi.  
4832 ft.

**FAIRCHILD/MICROPOWER**  
**3080/3100 ALFRED STREET**  
**SANTA CLARA, CA 95054**

**CA ENVIROSTOR** **S101482369**  
**N/A**

**Relative:**  
**Higher**

ENVIROSTOR:

**Actual:**  
**37 ft.**

Facility ID: 43360125  
Status: Refer: RWQCB  
Status Date: 02/26/1993  
Site Code: Not reported  
Site Type: Historical  
Site Type Detailed: \* Historical  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Referred - Not Assigned  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.37694  
Longitude: -121.9586  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: 43360125  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 02/26/1993  
Comments:

Situated in a geologically confined zone of Santa Clara Valley this 2.5 acre site is underlain by an upper and a lower aquifers. Site soils and groundwater in the upper aquifer have been contaminated with various volatile organic compounds (VOC) principally trichloroethene (2.3ppm) trichloethane (0.14ppm), 1,2-dichloroethene (0.15), xylene (.07 ppm), freon-113 (.06 ppm) and acetone by the operations of the past operator. Fairchild Corp and the current operator micropower systems Inc. However, due to its poor quality, the upper aquifer is not a drinking water source. The lower aquifer with wide use as a source of drinking water has not been inspected due to a thick clay sequence and absence of interconnecting conduits withing two (2) miles of the site. Oversight of an ongoing groundwaer contamination, remediation and and review of a remedial action plan (rap) are underway by San Francisco Regional Water Quality Control Board (RWQCB).

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FAIRCHILD/MICROPOWER (Continued)**

**S101482369**

Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**81**  
**South**  
**1/2-1**  
**0.917 mi.**  
**4841 ft.**

**CHIP EXPRESS CORP.**  
**2323 OWEN STREET**  
**SANTA CLARA, CA 95054**

**CA ENVIROSTOR**

**S103956224**

**N/A**

**Relative:**  
**Higher**

**ENVIROSTOR:**

**Actual:**  
**42 ft.**

Facility ID: 71003368  
Status: Inactive - Needs Evaluation  
Status Date: 11/07/2013  
Site Code: Not reported  
Site Type: Tiered Permit  
Site Type Detailed: Tiered Permit  
Acres: 2.8  
NPL: NO  
Regulatory Agencies: SMBRP  
Lead Agency: SMBRP  
Program Manager: Randy Reyes  
Supervisor: Mark Piros  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.37670  
Longitude: -121.9665  
APN: 22446004  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: 22446004  
Alias Type: APN  
Alias Name: CAL000159952  
Alias Type: EPA Identification Number  
Alias Name: 71003368  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: Not reported  
Completed Sub Area Name: Not reported  
Completed Document Type: Not reported  
Completed Date: Not reported  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHIP EXPRESS CORP. (Continued)**

**S103956224**

Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**M82  
ESE  
1/2-1  
0.930 mi.  
4909 ft.**

**PITTSBURGH-DES MOINES  
3500 BASSETT ST  
SANTA CLARA, CA 95054**

**CA HIST CORTESE  
CA RESPONSE  
CA ENVIROSTOR**

**S104571589  
N/A**

**Site 1 of 2 in cluster M**

**Relative:  
Higher**

HIST CORTESE:  
Region: CORTESE  
Facility County Code: 43  
Reg By: CALSI  
Reg Id: 43340056

**Actual:  
33 ft.**

**RESPONSE:**

Facility ID: 43340056  
Site Type: State Response  
Site Type Detail: State Response or NPL  
Acres: 31  
National Priorities List: NO  
Cleanup Oversight Agencies: RWQCB 2 - San Francisco Bay  
Lead Agency Description: RWQCB 2 - San Francisco Bay  
Project Manager: Claude Jemison  
Supervisor: Mark Piros  
Division Branch: Cleanup Berkeley  
Site Code: Not reported  
Site Mgmt. Req.: NONE SPECIFIED  
Assembly: 25  
Senate: 10  
Special Program Status: Not reported  
Status: Certified  
Status Date: 01/01/1982  
Restricted Use: NO  
Funding: Responsible Party  
Latitude: 37.38176  
Longitude: -121.9532  
APN: 104-15-105, 104-15-109  
Past Use: MANUFACTURING - METAL  
Potential COC : \* HALOGENATED SOLVENTS \* HYDROCARBON SOLVENTS \* Sludge - Paint \*  
UNSPECIFIED OIL CONTAINING WASTE \* WASTE OIL & MIXED OIL Lead  
Confirmed COC: NONE SPECIFIED  
Potential Description: SOIL  
Alias Name: AIR PRODUCTS AND CHEMICALS  
Alias Type: Alternate Name  
Alias Name: PDM  
Alias Type: Alternate Name  
Alias Name: PITTSBURGH-DES MOINES STEEL  
Alias Type: Alternate Name  
Alias Name: 104-15-105  
Alias Type: APN  
Alias Name: 104-15-109  
Alias Type: APN  
Alias Name: 110033611571

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PITTSBURGH-DES MOINES (Continued)**

**S104571589**

Alias Type: EPA (FRS #)  
Alias Name: 43340056  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: 10/31/1983  
Comments: Completed RA. Certified Site. Approximately 779 cubic yards of contaminated soil from different areas on the site was removed. All soil covering the underground gasoline storage tank was removed and all spilled gasoline was removed.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Discovery  
Completed Date: 09/30/1981  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Completion Report  
Completed Date: 10/31/1983  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 01/16/1987  
Comments: Completed Site Screening. In April 1982, soil samples found lead up to 258,000 parts per million (ppm), zinc up to 760 ppm and chromium up to 1100 ppm.

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

ENVIROSTOR:

Facility ID: 43340056  
Status: Certified  
Status Date: 01/01/1982  
Site Code: Not reported  
Site Type: State Response  
Site Type Detailed: State Response or NPL  
Acres: 31  
NPL: NO  
Regulatory Agencies: RWQCB 2 - San Francisco Bay  
Lead Agency: RWQCB 2 - San Francisco Bay  
Program Manager: Claude Jemison  
Supervisor: Mark Piros

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PITTSBURGH-DES MOINES (Continued)**

**S104571589**

Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Responsible Party  
Latitude: 37.38176  
Longitude: -121.9532  
APN: 104-15-105, 104-15-109  
Past Use: MANUFACTURING - METAL  
Potential COC: \* HALOGENATED SOLVENTS \* HYDROCARBON SOLVENTS \* Sludge - Paint \*  
UNSPECIFIED OIL CONTAINING WASTE \* WASTE OIL & MIXED OIL Lead  
Confirmed COC: NONE SPECIFIED  
Potential Description: SOIL  
Alias Name: AIR PRODUCTS AND CHEMICALS  
Alias Type: Alternate Name  
Alias Name: PDM  
Alias Type: Alternate Name  
Alias Name: PITTSBURGH-DES MOINES STEEL  
Alias Type: Alternate Name  
Alias Name: 104-15-105  
Alias Type: APN  
Alias Name: 104-15-109  
Alias Type: APN  
Alias Name: 110033611571  
Alias Type: EPA (FRS #)  
Alias Name: 43340056  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: 10/31/1983  
Comments: Completed RA. Certified Site. Approximately 779 cubic yards of contaminated soil from different areas on the site was removed. All soil covering the underground gasoline storage tank was removed and all spilled gasoline was removed.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Discovery  
Completed Date: 09/30/1981  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Completion Report  
Completed Date: 10/31/1983  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 01/16/1987  
Comments: Completed Site Screening. In April 1982, soil samples found lead up to 258,000 parts per million (ppm), zinc up to 760 ppm and chromium

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**PITTSBURGH-DES MOINES (Continued)**

**S104571589**

up to 1100 ppm.

Future Area Name: Not reported  
 Future Sub Area Name: Not reported  
 Future Document Type: Not reported  
 Future Due Date: Not reported  
 Schedule Area Name: Not reported  
 Schedule Sub Area Name: Not reported  
 Schedule Document Type: Not reported  
 Schedule Due Date: Not reported  
 Schedule Revised Date: Not reported

**M83  
 ESE  
 1/2-1  
 0.930 mi.  
 4909 ft.**

**PITTSBURGH-DES MOINES  
 3500 BASSETT ST  
 SANTA CLARA, CA 95054**

**CA HIST Cal-Sites S101482322  
 N/A**

**Site 2 of 2 in cluster M**

**Relative:  
 Higher**

Calsite:

**Actual:  
 33 ft.**

Region: BERKELEY  
 Facility ID: 43340056  
 Facility Type: RP  
 Type: RESPONSIBLE PARTY  
 Branch: NC  
 Branch Name: NORTH COAST  
 File Name: Not reported  
 State Senate District: 01011982  
 Status: CERTIFIED AS HAVING BEEN REMEDIATED SATISFACTORILY UNDER DTSC OVERSIGHT  
 Status Name: CERTIFIED  
 Lead Agency: N/A  
 NPL: Not reported  
 SIC Code: 34  
 SIC Name: MANU - FABRICATED METAL PRODUCTS  
 Access: Controlled  
 Cortese: Not reported  
 Hazardous Ranking Score: Not reported  
 Date Site Hazard Ranked: Not reported  
 Groundwater Contamination: Not reported  
 Staff Member Responsible for Site: CJEMISON  
 Supervisor Responsible for Site: Not reported  
 Region Water Control Board: SF  
 Region Water Control Board Name: SAN FRANCISCO BAY  
 Lat/Long Direction: Not reported  
 Lat/Long (dms): 0 0 0 / 0 0 0  
 Lat/Long Method: Not reported  
 Lat/Long Description: Not reported  
 State Assembly District Code: 22  
 State Senate District Code: 13  
 Facility ID: 43340056  
 Activity: DISC  
 Activity Name: DISCOVERY  
 AWP Code: Not reported  
 Proposed Budget: 0  
 AWP Completion Date: Not reported  
 Revised Due Date: Not reported  
 Comments Date: 09301981  
 Est Person-Yrs to complete: 0  
 Estimated Size: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PITTSBURGH-DES MOINES (Continued)**

**S101482322**

Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	43340056
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	10311983
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	43340056
Activity:	SS
Activity Name:	SITE SCREENING
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	01161987
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PITTSBURGH-DES MOINES (Continued)**

**S101482322**

Activity Comments: Not reported  
For Commercial Reuse: 0  
For Industrial Reuse: 0  
For Residential Reuse: 0  
Unknown Type: 0  
Facility ID: 43340056  
Activity: RA  
Activity Name: REMOVAL ACTION  
AWP Code: SOIL  
Proposed Budget: 0  
AWP Completion Date: Not reported  
Revised Due Date: Not reported  
Comments Date: 10311983  
Est Person-Yrs to complete: 0  
Estimated Size: Not reported  
Request to Delete Activity: Not reported  
Activity Status: CERT  
Definition of Status: CERTIFIED  
Liquids Removed (Gals): 779  
Liquids Treated (Gals): 0  
Action Included Capping: Not reported  
Well Decommissioned: Not reported  
Action Included Fencing: Not reported  
Removal Action Certification: N  
Activity Comments: Not reported  
For Commercial Reuse: 0  
For Industrial Reuse: 0  
For Residential Reuse: 0  
Unknown Type: 0  
Alternate Address: 3500 BASSETT AVENUE  
Alternate City,St,Zip: SANTA CLARA, CA 95052  
Alternate Address: 3500 BASSETT ST  
Alternate City,St,Zip: SANTA CLARA, CA 95054  
Background Info: Pittsburgh-Des Moines Steel (PDM) was a 31 acre steel fabrication plant from 1946-1976. Operations at the plant included welding, cutting, shot-peening and painting of steel girdes. The site was sold to Air Products and Chemicals, Inc. and in 1976 leased back. From 1976 to 1982 the fabrication plant was used as a steel warehouse. Air Products and Chemicals, Inc. had a spray-painting facility on site from 1976 to 1982. Prior to 1976, on site waste storage areas did not have secondary containment. Soil contamination occurred because of drums of lead-based paint that were spilled and leakage from an underground gasoline tank. Wastes on site included lead-based paints, metals left from steel fabrication, chemicals associated with petroleum and low levels of polychlorinated biphenyls (PCBs). PDM Steel uses the property as a service center (storage and distribution of materials).  
Comments Date: 01161987  
Comments: Completed Site Screening. In April 1982, soil samples found  
Comments Date: 01161987  
Comments: lead up to 258,000 parts per million (ppm), zinc up to 760 ppm  
Comments Date: 01161987  
Comments: and chromium up to 1100 ppm.  
Comments Date: 10311983  
Comments: Completed RA. Certified Site. Approximately 779 cubic yards of  
Comments Date: 10311983

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PITTSBURGH-DES MOINES (Continued)**

**S101482322**

Comments: contaminated soil from different areas on the site was removed.  
Comments Date: 10311983  
Comments: All soil covering the underground gasoline storage tank was  
Comments Date: 10311983  
Comments: removed and all spilled gasoline was removed.  
ID Name: Not reported  
ID Value: Not reported  
Alternate Name: PITTSBURGH-DES MOINES STEELPITTSBURGH-DES MOINESAIR PRODUCTS AND CHEMICALSPDM  
Special Programs Code: Not reported  
Special Programs Name: Not reported

**84**  
**WNW**  
**1/2-1**  
**0.955 mi.**  
**5044 ft.**

**CELTRIX PHARMACEUTICALS INC**  
**3055 PATRICK HENRY DR**  
**SANTA CLARA, CA 95054**

**RCRA NonGen / NLR** **1000685815**  
**FINDS** **CAD983624776**  
**CA HAZNET**  
**CA EMI**  
**CA ENVIROSTOR**

**Relative:**  
**Lower**

RCRA NonGen / NLR:

Date form received by agency: 06/21/1999  
Facility name: CELTRIX PHARMACEUTICALS INC  
Facility address: 3055 PATRICK HENRY DR  
SANTA CLARA, CA 95054  
EPA ID: CAD983624776  
Contact: MICHAEL WILLIS  
Contact address: 297 N BERNARDO AVE  
MOUNTAIN VIEW, CA 94043  
Contact country: US  
Contact telephone: (408) 845-8609  
Contact email: Not reported  
EPA Region: 09  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Actual:**  
**20 ft.**

Owner/Operator Summary:

Owner/operator name: SPIEKER PARTNERS  
Owner/operator address: 2180 SANDHILL RD STE 200  
MENLO PARK, CA 94025  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 854-5600  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CELTRIX PHARMACEUTICALS INC (Continued)**

**1000685815**

Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

**FINDS:**

Registry ID: 110002871900

**Environmental Interest/Information System**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**HAZNET:**

Year: 1998  
Gepaid: CAD983624776  
Contact: CELTRIX PHARMACEUTICALS INC  
Telephone: 4084504728  
Mailing Name: Not reported  
Mailing Address: 3055 PATRICK HENRY DR  
Mailing City,St,Zip: SANTA CLARA, CA 950541815  
Gen County: Not reported  
TSD EPA ID: CAD009452657  
TSD County: Not reported  
Waste Category: Laboratory waste chemicals  
Disposal Method: Disposal, Land Fill  
Tons: 2.5875  
Facility County: Santa Clara

Year: 1998  
Gepaid: CAD983624776  
Contact: CELTRIX PHARMACEUTICALS INC  
Telephone: 4084504728  
Mailing Name: Not reported  
Mailing Address: 3055 PATRICK HENRY DR  
Mailing City,St,Zip: SANTA CLARA, CA 950541815  
Gen County: Not reported  
TSD EPA ID: CAD009452657  
TSD County: Not reported  
Waste Category: Empty containers less than 30 gallons  
Disposal Method: Not reported  
Tons: .0015  
Facility County: Santa Clara

Year: 1998  
Gepaid: CAD983624776  
Contact: CELTRIX PHARMACEUTICALS INC  
Telephone: 4084504728  
Mailing Name: Not reported  
Mailing Address: 3055 PATRICK HENRY DR  
Mailing City,St,Zip: SANTA CLARA, CA 950541815

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CELTRIX PHARMACEUTICALS INC (Continued)**

**1000685815**

Gen County: Not reported  
TSD EPA ID: CAD009452657  
TSD County: Not reported  
Waste Category: Laboratory waste chemicals  
Disposal Method: Not reported  
Tons: .0650  
Facility County: Santa Clara

Year: 1998  
Gepaid: CAD983624776  
Contact: CELTRIX PHARMACEUTICALS INC  
Telephone: 4084504728  
Mailing Name: Not reported  
Mailing Address: 3055 PATRICK HENRY DR  
Mailing City,St,Zip: SANTA CLARA, CA 950541815  
Gen County: Not reported  
TSD EPA ID: CAD009452657  
TSD County: Not reported  
Waste Category: Empty containers less than 30 gallons  
Disposal Method: Disposal, Other  
Tons: .1500  
Facility County: Santa Clara

Year: 1998  
Gepaid: CAD983624776  
Contact: CELTRIX PHARMACEUTICALS INC  
Telephone: 4084504728  
Mailing Name: Not reported  
Mailing Address: 3055 PATRICK HENRY DR  
Mailing City,St,Zip: SANTA CLARA, CA 950541815  
Gen County: Not reported  
TSD EPA ID: CAD009452657  
TSD County: Not reported  
Waste Category: Unspecified organic liquid mixture  
Disposal Method: Recycler  
Tons: .1251  
Facility County: Santa Clara

[Click this hyperlink](#) while viewing on your computer to access 66 additional CA\_HAZNET: record(s) in the EDR Site Report.

EMI:

Year: 2008  
County Code: 43  
Air Basin: SF  
Facility ID: 15089  
Air District Name: BA  
SIC Code: 2834  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: .989  
Reactive Organic Gases Tons/Yr: .3960367  
Carbon Monoxide Emissions Tons/Yr: .003  
NOX - Oxides of Nitrogen Tons/Yr: .014  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: .001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CELTRIX PHARMACEUTICALS INC (Continued)**

**1000685815**

Part. Matter 10 Micrometers & Smlr Tons/Yr: .000976

Year: 2009  
County Code: 43  
Air Basin: SF  
Facility ID: 15089  
Air District Name: BA  
SIC Code: 2834  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.7099999999999996  
Reactive Organic Gases Tons/Yr: 0.2839999999999997  
Carbon Monoxide Emissions Tons/Yr: 0.002  
NOX - Oxides of Nitrogen Tons/Yr: 6.000000000000001E-3  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2010  
County Code: 43  
Air Basin: SF  
Facility ID: 15089  
Air District Name: BA  
SIC Code: 2834  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.7099999999999996  
Reactive Organic Gases Tons/Yr: 0.2839999999999997  
Carbon Monoxide Emissions Tons/Yr: 0.002  
NOX - Oxides of Nitrogen Tons/Yr: 6.000000000000001E-3  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2011  
County Code: 43  
Air Basin: SF  
Facility ID: 15089  
Air District Name: BA  
SIC Code: 2834  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.839  
Reactive Organic Gases Tons/Yr: 0.3360367  
Carbon Monoxide Emissions Tons/Yr: 0.004  
NOX - Oxides of Nitrogen Tons/Yr: 0.012  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2012  
County Code: 43  
Air Basin: SF  
Facility ID: 15089

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CELTRIX PHARMACEUTICALS INC (Continued)**

**1000685815**

Air District Name: BA  
SIC Code: 2834  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.839  
Reactive Organic Gases Tons/Yr: 0.3360367  
Carbon Monoxide Emissions Tons/Yr: 0.003  
NOX - Oxides of Nitrogen Tons/Yr: 0.009  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

**ENVIROSTOR:**

Facility ID: 71003152  
Status: Inactive - Needs Evaluation  
Status Date: Not reported  
Site Code: Not reported  
Site Type: Tiered Permit  
Site Type Detailed: Tiered Permit  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Not reported  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.39649  
Longitude: -121.9828  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: CAD983624776  
Alias Type: EPA Identification Number  
Alias Name: 110002871900  
Alias Type: EPA (FRS #)  
Alias Name: 71003152  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: Not reported  
Completed Sub Area Name: Not reported  
Completed Document Type: Not reported  
Completed Date: Not reported  
Comments: Not reported  
  
Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CELTRIX PHARMACEUTICALS INC (Continued)**

**1000685815**

Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**85**  
**SW**  
**1/2-1**  
**0.982 mi.**  
**5185 ft.**

**HEWLETT PACKARD (AVANTEK)**  
**3175 BOWERS AVE**  
**SANTA CLARA, CA 95054**

**Relative:**  
**Higher**

**Actual:**  
**40 ft.**

**CERCLIS 1000322137**  
**RCRA-SQG CAD009442484**  
**CA Cortese**  
**CA HIST CORTESE**  
**CA LUST**  
**CA SLIC**  
**CA HIST LUST**  
**CA HIST UST**  
**NY MANIFEST**  
**CA CHMIRS**  
**CA ENF**  
**CA ENVIROSTOR**

**CERCLIS:**

Site ID: 0901214  
EPA ID: CAD009442484  
Facility County: SANTA CLARA  
Short Name: HEWLETT PACKARD (AVANTEK)  
Congressional District: 13  
IFMS ID: Not reported  
SMSA Number: 7400  
USGC Hydro Unit: 18050003  
Federal Facility: Not a Federal Facility  
DMNSN Number: 0.00000  
Site Orphan Flag: N  
RCRA ID: Not reported  
USGS Quadrangle: Not reported  
Site Init By Prog: Not reported  
NFRAP Flag: Not reported  
Parent ID: Not reported  
RST Code: Not reported  
EPA Region: 09  
Classification: Not reported  
Site Settings Code: Not reported  
NPL Status: Not on the NPL  
DMNSN Unit Code: Not reported  
RBRAC Code: Not reported  
RResp Fed Agency Code: Not reported  
Non NPL Status: Site Reassessment Ongoing  
Non NPL Status Date: 12/28/01  
Site Fips Code: 06085  
CC Concurrence Date: / /  
CC Concurrence FY: Not reported  
Alias EPA ID: Not reported  
Site FUDS Flag: Not reported

**CERCLIS Site Contact Name(s):**

Contact ID: 13003854.00000  
Contact Name: Leslie Ramirez  
Contact Tel: (415) 972-3978

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HEWLETT PACKARD (AVANTEK) (Continued)**

**1000322137**

Contact Title: Site Assessment Manager (SAM)  
Contact Email: Not reported

Contact ID: 13003858.00000  
Contact Name: Sharon Murray  
Contact Tel: (415) 972-4250  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: Not reported

Contact ID: 13004003.00000  
Contact Name: Carl Brickner  
Contact Tel: Not reported  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: Not reported

Alias Comments: Not reported  
Site Description: Not reported

CERCLIS Assessment History:

Action Code: 001  
Action: DISCOVERY  
Date Started: / /  
Date Completed: 04/01/85  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: State, Fund Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

Action Code: 002  
Action: PRELIMINARY ASSESSMENT  
Date Started: 09/01/86  
Date Completed: 09/01/87  
Priority Level: Low priority for further assessment  
Operable Unit: SITEWIDE  
Primary Responsibility: State, Fund Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

Action Code: 001  
Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 04/01/88  
Priority Level: Low priority for further assessment  
Operable Unit: SITEWIDE  
Primary Responsibility: State, Fund Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

Action Code: 001  
Action: SITE INSPECTION

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HEWLETT PACKARD (AVANTEK) (Continued)**

**1000322137**

Date Started: / /  
Date Completed: 05/28/90  
Priority Level: Low priority for further assessment  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

**RCRA-SQG:**

Date form received by agency: 10/12/2000  
Facility name: HEWLETT PACKARD CO  
Site name: HEWLETT-PACKARD COMPANY  
Facility address: 3175 BOWERS AVENUE  
SANTA CLARA, CA 95054  
EPA ID: CAD009442484  
Contact: MITCH COLE  
Contact address: Not reported  
Not reported  
Contact country: Not reported  
Contact telephone: (408) 970-2105  
Contact email: Not reported  
EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

**Historical Generators:**

Date form received by agency: 10/29/1999  
Site name: HEWLETT PACKARD CO  
Classification: Small Quantity Generator  
  
Date form received by agency: 03/04/1999  
Site name: HEWLETT-PACKARD COMPANY  
Classification: Large Quantity Generator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HEWLETT PACKARD (AVANTEK) (Continued)**

**1000322137**

Date form received by agency: 09/01/1996  
Site name: HEWLETT PACKARD CO  
Classification: Large Quantity Generator

Date form received by agency: 03/29/1996  
Site name: HEWLETT-PACKARD COMPANY  
Classification: Large Quantity Generator

Date form received by agency: 03/30/1994  
Site name: AVANTEK INC  
Classification: Large Quantity Generator

Date form received by agency: 03/31/1992  
Site name: AVANTEK INC  
Classification: Large Quantity Generator

Date form received by agency: 04/12/1990  
Site name: AVANTEK INC  
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980  
Site name: HEWLETT PACKARD CO  
Classification: Large Quantity Generator

Violation Status: No violations found

**CORTESE:**

Region: CORTESE  
Envirostor Id: Not reported  
Site/Facility Type: Not reported  
Cleanup Status: Not reported  
Status Date: Not reported  
Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported  
Flag: CORTESE  
Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: Not reported  
WID Id: Not reported  
Solid Waste Id No: Not reported  
Waste Management Uit Name: Not reported

**HIST CORTESE:**

Region: CORTESE  
Facility County Code: 43  
Reg By: WBC&D  
Reg Id: 2 438176N01

Region: CORTESE  
Facility County Code: 43  
Reg By: LTNKA  
Reg Id: 43-1819

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HEWLETT PACKARD (AVANTEK) (Continued)**

**1000322137**

LUST:

Region: STATE  
Global Id: T0608501746  
Latitude: 37.37811  
Longitude: -121.9767  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 02/03/1997  
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
Case Worker: UNK  
Local Agency: SANTA CLARA COUNTY LOP  
RB Case Number: 43-1819  
LOC Case Number: Not reported  
File Location: Not reported  
Potential Media Affect: Soil  
Potential Contaminants of Concern: Diesel  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

Contact:

Global Id: T0608501746  
Contact Type: Local Agency Caseworker  
Contact Name: UST CASE WORKER  
Organization Name: SANTA CLARA COUNTY LOP  
Address: 1555 Berger Drive, Suite 300  
City: SAN JOSE  
Email: Not reported  
Phone Number: 4089183400

Global Id: T0608501746  
Contact Type: Regional Board Caseworker  
Contact Name: RB 2  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY STREET, SUITE 1400  
City: OAKLAND  
Email: Not reported  
Phone Number: Not reported

Status History:

Global Id: T0608501746  
Status: Open - Case Begin Date  
Status Date: 09/10/1990

Global Id: T0608501746  
Status: Open - Site Assessment  
Status Date: 09/10/1990

Global Id: T0608501746  
Status: Completed - Case Closed  
Status Date: 02/03/1997

Global Id: T0608501746  
Status: Open - Remediation  
Status Date: 09/03/1996

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

HEWLETT PACKARD (AVANTEK) (Continued)

1000322137

Regulatory Activities:

Global Id:	T0608501746
Action Type:	ENFORCEMENT
Date:	01/02/1992
Action:	Staff Letter
Global Id:	T0608501746
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery
Global Id:	T0608501746
Action Type:	ENFORCEMENT
Date:	01/16/1992
Action:	Letter - Notice
Global Id:	T0608501746
Action Type:	RESPONSE
Date:	11/26/1991
Action:	Other Report / Document
Global Id:	T0608501746
Action Type:	RESPONSE
Date:	06/16/1989
Action:	Other Report / Document
Global Id:	T0608501746
Action Type:	RESPONSE
Date:	10/24/1995
Action:	Other Report / Document
Global Id:	T0608501746
Action Type:	RESPONSE
Date:	01/16/1992
Action:	Correspondence
Global Id:	T0608501746
Action Type:	RESPONSE
Date:	01/30/1996
Action:	Other Report / Document
Global Id:	T0608501746
Action Type:	RESPONSE
Date:	07/19/1991
Action:	Correspondence
Global Id:	T0608501746
Action Type:	ENFORCEMENT
Date:	08/23/1995
Action:	Staff Letter
Global Id:	T0608501746
Action Type:	ENFORCEMENT
Date:	11/08/1993
Action:	Staff Letter
Global Id:	T0608501746

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HEWLETT PACKARD (AVANTEK) (Continued)**

**1000322137**

Action Type: ENFORCEMENT  
Date: 03/06/1995  
Action: Staff Letter

Global Id: T0608501746  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Stopped

Global Id: T0608501746  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Reported

**LUST REG 2:**

Region: 2  
Facility Id: 43-1819  
Facility Status: Case Closed  
Case Number: 06S1W28K01  
How Discovered: Tank Closure  
Leak Cause: Structure Failure  
Leak Source: Tank  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: 9/10/1990  
Pollution Remediation Plan Submitted: 9/3/1996  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

**LUST SANTA CLARA:**

Region: SANTA CLARA  
SCVWD ID: 06S1W28K01F  
Date Closed: 02/03/1997  
EDR Link ID: 06S1W28K01F

**SLIC:**

Region: STATE  
**Facility Status: Completed - Case Closed**  
Status Date: 05/26/2011  
Global Id: SL18275696  
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
Lead Agency Case Number: Not reported  
Latitude: 37.38053  
Longitude: -121.976756  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 43S0010  
File Location: Not reported  
Potential Media Affected: Not reported  
Potential Contaminants of Concern: Other Chlorinated Hydrocarbons, \*\* CIS-1,2-DICHLOROETHYLENE, Trichloroethylene (TCE), Vinyl chloride  
Site History: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HEWLETT PACKARD (AVANTEK) (Continued)**

**1000322137**

[Click here to access the California GeoTracker records for this facility:](#)

**SLIC REG 2:**

Region: 2  
Facility ID: 43s0010  
Facility Status: Post remedial action monitoring  
Date Closed: Not reported  
Local Case #: Not reported  
How Discovered: UNK  
Leak Cause: Not reported  
Leak Source: Not reported  
Date Confirmed: Not reported  
Date Prelim Site Assmnt Workplan Submitted: Not reported  
Date Preliminary Site Assessment Began: Not reported  
Date Pollution Characterization Began: Not reported  
Date Remediation Plan Submitted: Not reported  
Date Remedial Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

**HIST LUST SANTA CLARA:**

Region: SANTA CLARA  
Region Code: 2  
SCVWD ID: 06S1W28K01  
Oversite Agency: SFRWQCB  
Date Listed: 1993-06-29 00:00:00  
Closed Date: 1997-02-03 00:00:00

**HIST UST:**

Region: STATE  
Facility ID: 00000021349  
Facility Type: Other  
Other Type: MICROWAVE  
Total Tanks: 0003  
Contact Name: MOHAN MAHAL  
Telephone: 4087270700  
Owner Name: AVANTEK, INC.  
Owner Address: 3175 BOWERS AVENUE  
Owner City,St,Zip: SANTA CLARA, CA 95051

Tank Num: 001  
Container Num: (A) BLDG-1  
Year Installed: 1972  
Tank Capacity: 00001500  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Visual, Groundwater Monitoring Well

Tank Num: 002  
Container Num: (C) BLDG-3  
Year Installed: 1979  
Tank Capacity: 00001000  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HEWLETT PACKARD (AVANTEK) (Continued)**

**1000322137**

Leak Detection: Visual, Groundwater Monitoring Well

Tank Num: 003  
Container Num: BLDG-4  
Year Installed: Not reported  
Tank Capacity: 00000000  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Not reported

NY MANIFEST:

EPA ID: CAD009442484  
Country: USA

Mailing Info:

Name: AVANKEK INCORPORATED  
Contact: AVANKEK INCORPORATED  
Address: 3175 BOWERS AVENUE  
City/State/Zip: SANTA CLARA, CA 95054  
Country: USA  
Phone: 408-970-2771

Document ID: NYA5950611  
Manifest Status: Completed copy  
Trans1 State ID: 913075  
Trans2 State ID: 75318B-NY  
Generator Ship Date: 890515  
Trans1 Recv Date: 890515  
Trans2 Recv Date: 890515  
TSD Site Recv Date: 890523  
Part A Recv Date: 890526  
Part B Recv Date: 890602  
Generator EPA ID: CAD009442484  
Trans1 EPA ID: ARD069748192  
Trans2 EPA ID: NYD980769947  
TSD ID: NYD000632372  
Waste Code: D002 - NON-LISTED CORROSIVE WASTES  
Quantity: 00030  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00030  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00090  
Units: P - Pounds  
Number of Containers: 007  
Container Type: DF - Fiberboard or plastic drums (glass)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HEWLETT PACKARD (AVANTEK) (Continued)**

1000322137

Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 89

CHMIRS:

OES Incident Number: 99-1726  
OES notification: 04/19/1999  
OES Date: Not reported  
OES Time: Not reported  
Incident Date: Not reported  
**Date Completed: Not reported**  
Property Use: Not reported  
Agency Id Number: Not reported  
Agency Incident Number: Not reported  
Time Notified: Not reported  
Time Completed: Not reported  
Surrounding Area: Not reported  
Estimated Temperature: Not reported  
Property Management: Not reported  
More Than Two Substances Involved?: Not reported  
Resp Agncy Personel # Of Decontaminated: Not reported  
Responding Agency Personel # Of Injuries: Not reported  
Responding Agency Personel # Of Fatalities: Not reported  
Others Number Of Decontaminated: Not reported  
Others Number Of Injuries: Not reported  
Others Number Of Fatalities: Not reported  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported  
Vehicle Id Number: Not reported  
CA/DOT/PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: Not reported  
Report Date: Not reported  
Comments: Not reported  
Facility Telephone: Not reported  
Waterway Involved: Yes  
Waterway: sanitary sewer  
Spill Site: Not reported  
Cleanup By: Reporting Party  
Containment: Not reported  
What Happened: Not reported  
Type: Not reported  
Measure: Not reported  
Other: Not reported  
Date/Time: Not reported  
Year: 1999  
Agency: Hewlett Packard  
Incident Date: 4/14/199912:00:00 AM  
Admin Agency: Santa Clara County Health Department  
Amount: Not reported  
Contained: No  
Site Type: Merchant/Business  
E Date: Not reported  
Substance: Sodium Hydroxide  
Quantity Released: Not reported  
BBLs: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

HEWLETT PACKARD (AVANTEK) (Continued)

1000322137

Cups: 0  
CUFT: 0  
Gallons: 50  
Grams: 0  
Pounds: 0  
Liters: 0  
Ounces: 0  
Pints: 0  
Quarts: 0  
Sheen: 0  
Tons: 0  
Unknown: 0  
Evacuations: 0  
Number of Injuries: 0  
Number of Fatalities: 0  
Description: Waste water treatment system failure cause chemical feed tank to release via gravity, material was diluted in 3000 gals of water, and released into sanitary sewer, company nuetralized the tank, situation was cleaned up 1730 hrs

OES Incident Number: 978  
OES notification: Not reported  
OES Date: 2/25/1994  
OES Time: 04:29:19 PM  
Incident Date: Not reported  
**Date Completed: Not reported**  
Property Use: Not reported  
Agency Id Number: Not reported  
Agency Incident Number: Not reported  
Time Notified: Not reported  
Time Completed: Not reported  
Surrounding Area: Not reported  
Estimated Temperature: Not reported  
Property Management: Not reported  
More Than Two Substances Involved?: Not reported  
Resp Agncy Personel # Of Decontaminated: Not reported  
Responding Agency Personel # Of Injuries: Not reported  
Responding Agency Personel # Of Fatalities: Not reported  
Others Number Of Decontaminated: Not reported  
Others Number Of Injuries: Not reported  
Others Number Of Fatalities: Not reported  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported  
Vehicle Id Number: Not reported  
CA/DOT/PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: Not reported  
Report Date: Not reported  
Comments: Not reported  
Facility Telephone: Not reported  
Waterway Involved: YES  
Waterway: Not reported  
Spill Site: Not reported  
Cleanup By: contractor  
Containment: Not reported  
What Happened: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

HEWLETT PACKARD (AVANTEK) (Continued)

1000322137

Type: Not reported  
Measure: Not reported  
Other: Not reported  
Date/Time: Not reported  
Year: 1994  
Agency: avantek  
Incident Date: 02/25/94 0600  
Admin Agency: Not reported  
Amount: unknown  
Contained: YES  
Site Type: IND PLT  
E Date: Not reported  
Substance: water  
Quantity Released: Not reported  
BBLS: Not reported  
Cups: Not reported  
CUFT: Not reported  
Gallons: Not reported  
Grams: Not reported  
Pounds: Not reported  
Liters: Not reported  
Ounces: Not reported  
Pints: Not reported  
Quarts: Not reported  
Sheen: Not reported  
Tons: Not reported  
Unknown: Not reported  
Evacuations: NO  
Number of Injuries: NO  
Number of Fatalities: NO  
Description: roots blocked a pipe which leads from the cooling tower into a sanitary sewer system and this went on for about 5 hrs. test samples sent out to lab.

OES Incident Number: 8908866  
OES notification: Not reported  
OES Date: Not reported  
OES Time: Not reported  
Incident Date: 16-NOV-89  
**Date Completed: 16-NOV-89**  
Property Use: 700  
Agency Id Number: 43090  
Agency Incident Number: 896006  
Time Notified: 709  
Time Completed: 1118  
Surrounding Area: 700  
Estimated Temperature: Not reported  
Property Management: P  
More Than Two Substances Involved?: N  
Resp Agency Personel # Of Decontaminated: 0  
Responding Agency Personel # Of Injuries: 0  
Responding Agency Personel # Of Fatalities: 0  
Others Number Of Decontaminated: 0  
Others Number Of Injuries: 0  
Others Number Of Fatalities: 0  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HEWLETT PACKARD (AVANTEK) (Continued)**

**1000322137**

Vehicle State: Not reported  
Vehicle Id Number: Not reported  
CA/DOT/PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: DAVID R PARKER/15C-1  
Report Date: 26-NOV-89  
Comments: Not reported  
Facility Telephone: 408 984-3084  
Waterway Involved: Not reported  
Waterway: Not reported  
Spill Site: Not reported  
Cleanup By: Not reported  
Containment: Not reported  
What Happened: Not reported  
Type: Not reported  
Measure: Not reported  
Other: Not reported  
Date/Time: Not reported  
Year: 88-92  
Agency: Not reported  
Incident Date: Not reported  
Admin Agency: Not reported  
Amount: Not reported  
Contained: Not reported  
Site Type: Not reported  
E Date: 23-MAY-90  
Substance: Not reported  
Quantity Released: Not reported  
BBLs: Not reported  
Cups: Not reported  
CUFT: Not reported  
Gallons: Not reported  
Grams: Not reported  
Pounds: Not reported  
Liters: Not reported  
Ounces: Not reported  
Pints: Not reported  
Quarts: Not reported  
Sheen: Not reported  
Tons: Not reported  
Unknown: Not reported  
Evacuations: Not reported  
Number of Injuries: Not reported  
Number of Fatalities: Not reported  
Description: Not reported

ENF:

Region: 2  
Facility Id: 206854  
Agency Name: Not reported  
Place Type: Facility  
Place Subtype: Not reported  
Facility Type: Industrial  
Agency Type: Not reported  
# Of Agencies: Not reported  
Place Latitude: Not reported  
Place Longitude: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

HEWLETT PACKARD (AVANTEK) (Continued)

1000322137

SIC Code 1:	3674
SIC Desc 1:	Semiconductors and Related Devices
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	Not reported
Program Category1:	Not reported
Program Category2:	UNREGS
# Of Programs:	Not reported
WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Not reported
Status Date:	Not reported
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	223286
Region:	2
Order / Resolution Number:	94-012
Enforcement Action Type:	Clean-up and Abatement Order

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HEWLETT PACKARD (AVANTEK) (Continued)**

**1000322137**

Effective Date:	01/19/1994
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 438176N01
Description:	SCR-
Program:	ENFCAO
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	2
Facility Id:	206854
Agency Name:	Not reported
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3674
SIC Desc 1:	Semiconductors and Related Devices
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	Not reported
Program Category1:	Not reported
Program Category2:	UNREGS
# Of Programs:	Not reported
WDID:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HEWLETT PACKARD (AVANTEK) (Continued)**

**1000322137**

Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Not reported
Status Date:	Not reported
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	222728
Region:	2
Order / Resolution Number:	90-042
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	03/21/1990
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 438176N01
Description:	SCR-REVISES ORDER # 86-002
Program:	ENFCAO
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	2
Facility Id:	206854
Agency Name:	Not reported
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

HEWLETT PACKARD (AVANTEK) (Continued)

1000322137

# Of Agencies:	Not reported
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3674
SIC Desc 1:	Semiconductors and Related Devices
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	Not reported
Program Category1:	Not reported
Program Category2:	UNREGS
# Of Programs:	Not reported
WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Not reported
Status Date:	Not reported
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	221923

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HEWLETT PACKARD (AVANTEK) (Continued)**

**1000322137**

Region: 2  
Order / Resolution Number: R2-1998-0092  
Enforcement Action Type: Clean-up and Abatement Order  
Effective Date: 09/16/1998  
Adoption/Issuance Date: Not reported  
Achieve Date: Not reported  
Termination Date: Not reported  
ACL Issuance Date: Not reported  
EPL Issuance Date: Not reported  
Status: Active  
Title: Enforcement - 2 438176N01  
Description: CAO-SITE CLEANUP REQUIREMENTS  
Program: ENFCAO  
Latest Milestone Completion Date: Not reported  
# Of Programs1: 1  
Total Assessment Amount: 0  
Initial Assessed Amount: 0  
Liability \$ Amount: 0  
Project \$ Amount: 0  
Liability \$ Paid: 0  
Project \$ Completed: 0  
Total \$ Paid/Completed Amount: 0

**ENVIROSTOR:**

Facility ID: 43360071  
Status: Refer: RWQCB  
Status Date: 01/14/1991  
Site Code: Not reported  
Site Type: Evaluation  
Site Type Detailed: Evaluation  
Acres: 15  
NPL: NO  
Regulatory Agencies: RWQCB 2 - San Francisco Bay  
Lead Agency: RWQCB 2 - San Francisco Bay  
Program Manager: Not reported  
Supervisor: Referred - Not Assigned  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: \* Site Char & Assess Grant (CERCLA 104)  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.37814  
Longitude: -121.9767  
APN: 21646001, 21646002  
Past Use: AGRICULTURAL - ORCHARD, MANUFACTURING - ELECTRONIC  
Potential COC: Arsenic 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride  
Confirmed COC: Arsenic 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride  
Potential Description: OTH  
Alias Name: 21646001  
Alias Type: APN  
Alias Name: 21646002  
Alias Type: APN  
Alias Name: 110033617012

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HEWLETT PACKARD (AVANTEK) (Continued)**

**1000322137**

Alias Type: EPA (FRS #)  
Alias Name: 43360071  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 04/04/1988  
Comments: Site Screening Done: TCE in generator. Two solvent tanks removed in June 1986.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 11/13/2006  
Comments: DTSC reviewed the proposed redevelopment projects and determined that based on existing controls and proposed work would not breach existing cap, there were no additional requirements DTSC would recommend for this project.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 11/20/1997  
Comments: further action required under RWQCB oversight.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Assessment Report  
Completed Date: 03/08/2002  
Comments: Site cleaned up under RWQCB oversight.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 05/14/1990  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

Facility ID: 71002288  
Status: Refer: Other Agency  
Status Date: 01/14/1991  
Site Code: Not reported  
Site Type: Tiered Permit  
Site Type Detailed: Tiered Permit  
Acres: 15  
NPL: NO  
Regulatory Agencies: RWQCB 2 - San Francisco Bay

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HEWLETT PACKARD (AVANTEK) (Continued)**

**1000322137**

Lead Agency: RWQCB 2 - San Francisco Bay  
Program Manager: Not reported  
Supervisor: Referred - Not Assigned  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.37816  
Longitude: -121.9766  
APN: 21646001, 21646002  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: 43360071  
Alias Type: Alternate Name  
Alias Name: 21646001  
Alias Type: APN  
Alias Name: 21646002  
Alias Type: APN  
Alias Name: CAD009442484  
Alias Type: EPA Identification Number  
Alias Name: 110002147677  
Alias Type: EPA (FRS #)  
Alias Name: 71002288  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: Not reported  
Completed Sub Area Name: Not reported  
Completed Document Type: Not reported  
Completed Date: Not reported  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

86  
WSW  
1/2-1  
0.992 mi.  
5239 ft.

**MPI-3333 SCOTT BLVD  
3333 SCOTT  
SANTA CLARA, CA 95054**

**CA NPDES 1000726086  
CA Cortese N/A  
CA HIST CORTESE  
CA SLIC  
CA DEED  
CA ENF  
CA ENVIROSTOR**

Relative:  
Higher

NPDES:

Actual:  
35 ft.

Npdes Number: CAS000002  
Facility Status: Active

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MPI-3333 SCOTT BLVD (Continued)**

**1000726086**

Agency Id: 0  
Region: 2  
Regulatory Measure Id: 425043  
Order No: 2009-0009-DWQ  
Regulatory Measure Type: Enrollee  
Place Id: Not reported  
WDID: 2 43C363391  
Program Type: Construction  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: 04/09/2012  
Expiration Date Of Regulatory Measure: Not reported  
Termination Date Of Regulatory Measure: Not reported  
Discharge Name: Menlo Equities  
Discharge Address: 490 California Avenue 4th floor  
Discharge City: Palo Alto  
Discharge State: California  
Discharge Zip: 94306

**CORTESE:**

Region: CORTESE  
Envirostor Id: Not reported  
Site/Facility Type: Not reported  
Cleanup Status: Not reported  
Status Date: Not reported  
Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported  
Flag: CORTESE  
Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: 2  
WID Id: 2 438151N02  
Solid Waste Id No: Not reported  
Waste Management Uit Name: Not reported

**HIST CORTESE:**

Region: CORTESE  
Facility County Code: 43  
Reg By: WBC&D  
Reg Id: 2 438151N02

**SLIC:**

Region: STATE  
**Facility Status: Completed - Case Closed**  
Status Date: 01/04/2012  
Global Id: T10000003469  
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
Lead Agency Case Number: Not reported  
Latitude: 37.38144  
Longitude: -121.982245  
Case Type: Cleanup Program Site  
Case Worker: Not reported

MAP FINDINGS

**MPI-3333 SCOTT BLVD (Continued)**

**1000726086**

<p>Local Agency:          RB Case Number:          File Location:          Potential Media Affected:          Potential Contaminants of Concern:          Site History:</p>	<p>Not reported          43S1145          Regional Board          Not reported          Not reported          The 30.2 -acre Site is currently vacant land with no structures. Paved parking areas on the southern and southeastern portion comprise approx. 6.75 acres. The remaining 23.45 acres are grass-covered, with well-maintained landscaped grass areas along the south side. Developed for agricultural use including orchards since as far back as 1937 until about 1977-78 when the Site was developed with a large commercial/industrial structure and occupied by Sperry Corp. (Sperry) from 1978-1983. Magnetic Peripherals, Inc. (MPI) took over operations from Sperry in 1983. The Site was used for the assembly of computer disk drives until 1986 and has been vacant of tenants since that time. The Site changed ownership several times due to business acquisitions, until approximately 1994 when Applied Materials, Inc. (Applied) purchased the Site. At that time it was occupied by a large manufacturing/commercial building occupying 410,000 square feet of land and surrounded by parking lots and landscaping. In 1983, VOCs including trichloroethene (TCE) and Freon-113 were detected in groundwater in the vicinity of the former chemical storage; 1,1,1-trichloroethane (TCA), TCE, Freon-113, chloroform and methyl-ethyl ketone (MEK) were also detected in groundwater in the vicinity of the former Mendocino Tank Farm. Integrity testing of the underground piping indicated fluid loss in the pipe draining the former chemical storage building. In 1985 and 1986, the USTs and piping were removed. No sources of contamination were identified during removal of the USTs. Historically, three VOC groundwater plumes were associated with the Site. A narrow TCE plume (up to 40 g/L) extending from the vicinity of the chemical storage area to the northwest corner of the main building. A wider cis-1,2-dichloroethene (DCE) plume (100 to 300 g/L) on the north side of the main building extending up-gradient beneath the former building and downgradient to the northern property boundary. A Freon-113 plume (less than 1,200 g/L) extending from the former chemical storage building to the northern property boundary and beyond. Approximately 34 groundwater monitoring wells were installed between 1983 and 2003; a groundwater extraction and treatment system operated from August 1986 to May 1994, removing approximately 86 million gallons of groundwater and approximately 157 pounds of VOCs. The groundwater extraction system was discontinued with regulatory approval in 1994 because the remediation system was no longer cost effective. In 1993, the RWQCB issued Order No. 93-163 (1993 Order) for the Site. The soil and groundwater samples showed no detectable concentrations of VOCs except methylene chloride in two soil samples at concentrations up to 0.0064 milligrams per kilogram (mg/kg); methylene chloride is a typical laboratory contaminant. In addition, Freon was detected in groundwater at concentrations up to 75 %g/L, which is below State of California action levels. In 1995, Applied demolished the improvements at the Site, and eleven additional wells were sealed and destroyed with concurrence of the RWQCB. As required by Task 5 of the 1993 Order, Applied investigated potential sources of soil and groundwater contamination beneath and adjacent to the former on-site building. Prior investigations have indicated no evidence of residual VOCs above regulatory screening levels in the soils underlying the Site. Thirty-two soil samples were collected</p>
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Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MPI-3333 SCOTT BLVD (Continued)**

**1000726086**

from a total of 38 test pit excavations near the former Mendocino Tank Farm and chemical storage spill containment tank both beneath and adjacent to the former building (Table 1, Figure 2). In addition, a total of 23 grabgroundwater samples were collected to f

[Click here to access the California GeoTracker records for this facility:](#)

Region: STATE  
**Facility Status: Completed - Case Closed**  
Status Date: 01/13/2006  
Global Id: SL18234652  
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
Lead Agency Case Number: Not reported  
Latitude: 37.381309065684  
Longitude: -121.982574462891  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 43S0072  
File Location: Not reported  
Potential Media Affected: Not reported  
Potential Contaminants of Concern: \* \* CIS-1,2-DICHLOROETHYLENE  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

**DEED:**

Area: Not reported  
Sub Area: Not reported  
Site Type: SLIC  
Status: COMPLETED - CASE CLOSED  
Agency: SWRCB  
Covenant Uploaded:   
Deed Date(s): 05/09/1994  
EDR Link ID: SL18234652

**ENF:**

Region: 2  
Facility Id: 241722  
Agency Name: UNISYS CORP  
Place Type: Facility  
Place Subtype: Not reported  
Facility Type: Industrial  
Agency Type: Privately-Owned Business  
# Of Agencies: 1  
Place Latitude: 37.380628999999  
Place Longitude: -121.980913  
SIC Code 1: 3674  
SIC Desc 1: Semiconductors and Related Devices  
SIC Code 2: Not reported  
SIC Desc 2: Not reported  
SIC Code 3: Not reported  
SIC Desc 3: Not reported  
NAICS Code 1: Not reported  
NAICS Desc 1: Not reported  
NAICS Code 2: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MPI-3333 SCOTT BLVD (Continued)**

**1000726086**

NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 438151N02
Reg Measure Id:	162901
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	223160
Region:	2
Order / Resolution Number:	93-163
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	12/15/1993
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	Enforcement - 2 438151N02
Description:	SCR-FINAL.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MPI-3333 SCOTT BLVD (Continued)**

**1000726086**

Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	2
Facility Id:	241722
Agency Name:	UNISYS CORP
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	37.380628999999
Place Longitude:	-121.980913
SIC Code 1:	3674
SIC Desc 1:	Semiconductors and Related Devices
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 438151N02
Reg Measure Id:	162901
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MPI-3333 SCOTT BLVD (Continued)**

**1000726086**

301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	220064
Region:	2
Order / Resolution Number:	89-178
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	11/15/1989
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 438151N02
Description:	SITE CLNUP REQMTS.
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	2
Facility Id:	269061
Agency Name:	UNISYS CORP
Place Type:	Facility
Place Subtype:	Groundwater Cleanup Site
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	37.380628999999
Place Longitude:	-121.980913
SIC Code 1:	3674
SIC Desc 1:	Semiconductors and Related Devices
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MPI-3333 SCOTT BLVD (Continued)**

**1000726086**

NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 43S0072
Reg Measure Id:	169998
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	248673
Region:	2
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	13267 Letter
Effective Date:	09/09/2002
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MPI-3333 SCOTT BLVD (Continued)**

**1000726086**

Status:	Active
Title:	Enforcement - 2 43S0072
Description:	Request to submit status report
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	2
Facility Id:	269061
Agency Name:	UNISYS CORP
Place Type:	Facility
Place Subtype:	Groundwater Cleanup Site
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	37.380628999999
Place Longitude:	-121.980913
SIC Code 1:	3674
SIC Desc 1:	Semiconductors and Related Devices
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 43S0072
Reg Measure Id:	169998
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MPI-3333 SCOTT BLVD (Continued)**

**1000726086**

Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	246848
Region:	2
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	13267 Letter
Effective Date:	11/14/2002
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	Enforcement - 2 43S0072
Description:	Request for workplan to install new monitoring wells
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	2
Facility Id:	269061
Agency Name:	UNISYS CORP
Place Type:	Facility
Place Subtype:	Groundwater Cleanup Site
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	37.380628999999
Place Longitude:	-121.980913
SIC Code 1:	3674
SIC Desc 1:	Semiconductors and Related Devices
SIC Code 2:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MPI-3333 SCOTT BLVD (Continued)**

**1000726086**

SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 43S0072
Reg Measure Id:	169998
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	246563
Region:	2
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	13267 Letter
Effective Date:	12/27/2002
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MPI-3333 SCOTT BLVD (Continued)**

**1000726086**

Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	Enforcement - 2 43S0072
Description:	request for monitoring well installation workplan
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	2
Facility Id:	269061
Agency Name:	UNISYS CORP
Place Type:	Facility
Place Subtype:	Groundwater Cleanup Site
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	37.380628999999
Place Longitude:	-121.980913
SIC Code 1:	3674
SIC Desc 1:	Semiconductors and Related Devices
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 43S0072
Reg Measure Id:	169998
Reg Measure Type:	Unregulated
Region:	2

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MPI-3333 SCOTT BLVD (Continued)**

**1000726086**

Order #: Not reported  
Npdes# CA#: Not reported  
Major-Minor: Not reported  
Npdes Type: Not reported  
Reclamation: Not reported  
Dredge Fill Fee: Not reported  
301H: Not reported  
Application Fee Amt Received: Not reported  
Status: Never Active  
Status Date: 02/21/2013  
Effective Date: Not reported  
Expiration/Review Date: Not reported  
Termination Date: Not reported  
WDR Review - Amend: Not reported  
WDR Review - Revise/Renew: Not reported  
WDR Review - Rescind: Not reported  
WDR Review - No Action Required: Not reported  
WDR Review - Pending: Not reported  
WDR Review - Planned: Not reported  
Status Enrollee: N  
Individual/General: I  
Fee Code: Not reported  
Direction/Voice: Passive  
Enforcement Id(EID): 240177  
Region: 2  
Order / Resolution Number: UNKNOWN  
Enforcement Action Type: 13267 Letter  
Effective Date: 02/21/2002  
Adoption/Issuance Date: Not reported  
Achieve Date: Not reported  
Termination Date: Not reported  
ACL Issuance Date: Not reported  
EPL Issuance Date: Not reported  
Status: Active  
Title: Enforcement - 2 43S0072  
Description: Letter requesting a status report  
Program: UNREGS  
Latest Milestone Completion Date: Not reported  
# Of Programs1: 1  
Total Assessment Amount: 0  
Initial Assessed Amount: 0  
Liability \$ Amount: 0  
Project \$ Amount: 0  
Liability \$ Paid: 0  
Project \$ Completed: 0  
Total \$ Paid/Completed Amount: 0

**ENVIROSTOR:**

Facility ID: 43360113  
Status: Refer: RWQCB  
Status Date: 04/11/1991  
Site Code: Not reported  
Site Type: Historical  
Site Type Detailed: \* Historical  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MPI-3333 SCOTT BLVD (Continued)**

**1000726086**

Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Referred - Not Assigned  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.38146  
Longitude: -121.9822  
APN: 216-31-080  
Past Use: NONE SPECIFIED  
Potential COC: \* HALOGENATED SOLVENTS \* HYDROCARBON SOLVENTS  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: 216-31-080  
Alias Type: APN  
Alias Name: CAD085304020  
Alias Type: EPA Identification Number  
Alias Name: 110018947988  
Alias Type: EPA (FRS #)  
Alias Name: 43360113  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Discovery  
Completed Date: 10/25/1989  
Comments: FACILITY IDENTIFIED IDENTIFIED VIA FIT SSI REPORT

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 12/19/1990  
Comments: SITE SCREENING DONE THIS 30 ACRE SITE IS IN A CITY BLOCK IT HAS A HISTORY OF STORAGE USE AND ON- SITE DISPOSAL OF SOLVENTS; E.G. TCE, 1-2 DCE & FREON-113. GROUND WATER IS CONTAMINATED WITH SOLVENTS. A PUMP AND TREAT SYSTEM IS OPERATING AT THE SITE. GROUND WATER HAS A HIGH TARGET POP- ULATION. EPA HAS RECOMMENDED MEDIUM SSI FOR THE SITES POTENTIAL OF HRS SCORE AND INCLUSION IN NPL.

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**87**  
**SSE**  
**1/2-1**  
**0.997 mi.**  
**5263 ft.**

**EXCELIGS SEMICONDUCTOR INC**  
**2908 SCOTT BOULEVARD**  
**SANTA CLARA, CA 91310**

**CA EMI**  
**CA ENVIROSTOR**  
**CA WDS**

**S103963631**  
**N/A**

**Relative:**  
**Higher**

EMI:  
 Year: 1996  
 County Code: 43  
 Air Basin: SF  
 Facility ID: 10425  
 Air District Name: BA  
 SIC Code: 3674  
 Air District Name: BAY AREA AQMD  
 Community Health Air Pollution Info System: Not reported  
 Consolidated Emission Reporting Rule: Not reported  
 Total Organic Hydrocarbon Gases Tons/Yr: 0  
 Reactive Organic Gases Tons/Yr: 0  
 Carbon Monoxide Emissions Tons/Yr: 0  
 NOX - Oxides of Nitrogen Tons/Yr: 0  
 SOX - Oxides of Sulphur Tons/Yr: 0  
 Particulate Matter Tons/Yr: 0  
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

**Actual:**  
**41 ft.**

Year: 1997  
 County Code: 43  
 Air Basin: SF  
 Facility ID: 10425  
 Air District Name: BA  
 SIC Code: 3674  
 Air District Name: BAY AREA AQMD  
 Community Health Air Pollution Info System: Not reported  
 Consolidated Emission Reporting Rule: Not reported  
 Total Organic Hydrocarbon Gases Tons/Yr: 0  
 Reactive Organic Gases Tons/Yr: 0  
 Carbon Monoxide Emissions Tons/Yr: 0  
 NOX - Oxides of Nitrogen Tons/Yr: 0  
 SOX - Oxides of Sulphur Tons/Yr: 0  
 Particulate Matter Tons/Yr: 0  
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2001  
 County Code: 43  
 Air Basin: SF  
 Facility ID: 10425  
 Air District Name: BA  
 SIC Code: 3674  
 Air District Name: BAY AREA AQMD  
 Community Health Air Pollution Info System: Not reported  
 Consolidated Emission Reporting Rule: Not reported  
 Total Organic Hydrocarbon Gases Tons/Yr: 1  
 Reactive Organic Gases Tons/Yr: 0  
 Carbon Monoxide Emissions Tons/Yr: 0  
 NOX - Oxides of Nitrogen Tons/Yr: 0  
 SOX - Oxides of Sulphur Tons/Yr: 0  
 Particulate Matter Tons/Yr: 0  
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXCELIGS SEMICONDUCTOR INC (Continued)**

**S103963631**

County Code: 43  
Air Basin: SF  
Facility ID: 10425  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2003  
County Code: 43  
Air Basin: SF  
Facility ID: 10425  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2004  
County Code: 43  
Air Basin: SF  
Facility ID: 10425  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.805  
Reactive Organic Gases Tons/Yr: 0.5896763  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2005  
County Code: 43  
Air Basin: SF  
Facility ID: 10425  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXCELIGS SEMICONDUCTOR INC (Continued)**

**S103963631**

Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: .757  
Reactive Organic Gases Tons/Yr: .5531098  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2006  
County Code: 43  
Air Basin: SF  
Facility ID: 10425  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1.24  
Reactive Organic Gases Tons/Yr: .9010856  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2007  
County Code: 43  
Air Basin: SF  
Facility ID: 10425  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: .538  
Reactive Organic Gases Tons/Yr: .3945766  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2008  
County Code: 43  
Air Basin: SF  
Facility ID: 10425  
Air District Name: BA  
SIC Code: 3674  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: .538  
Reactive Organic Gases Tons/Yr: .3945766  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXCELIGS SEMICONDUCTOR INC (Continued)**

**S103963631**

SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

**ENVIROSTOR:**

Facility ID: 71003744  
Status: Inactive - Needs Evaluation  
Status Date: 11/07/2013  
Site Code: Not reported  
Site Type: Tiered Permit  
Site Type Detailed: Tiered Permit  
Acres: 8.23  
NPL: NO  
Regulatory Agencies: SMBRP  
Lead Agency: SMBRP  
Program Manager: Randy Reyes  
Supervisor: Mark Piros  
Division Branch: Cleanup Berkeley  
Assembly: 25  
Senate: 10  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 37.37447  
Longitude: -121.9596  
APN: 22444013  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: 22444013  
Alias Type: APN  
Alias Name: CAL000130942  
Alias Type: EPA Identification Number  
Alias Name: 71003744  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: Not reported  
Completed Sub Area Name: Not reported  
Completed Document Type: Not reported  
Completed Date: Not reported  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**CA WDS:**

Facility ID: San Francisco Bay 431017364

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXCELICS SEMICONDUCTOR INC (Continued)**

**S103963631**

Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.

Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.

NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board

Subregion: 2

Facility Telephone: 4089708664

Facility Contact: KANG YANG

Agency Name: EXCELICS SEMICONDUCTOR INC

Agency Address: 2908 Scott Blvd

Agency City,St,Zip: Santa Clara 950543324

Agency Contact: KANG YANG

Agency Telephone: 4089708664

Agency Type: Private

SIC Code: 0

SIC Code 2: Not reported

Primary Waste Type: Not reported

Primary Waste: Not reported

Waste Type2: Not reported

Waste2: Not reported

Primary Waste Type: Not reported

Secondary Waste: Not reported

Secondary Waste Type: Not reported

Design Flow: 0

Baseline Flow: 0

Reclamation: Not reported

POTW: Not reported

Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

Count: 4 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SANTA CLARA	S114626431	GENERAL ELECTRIC	175 CURTNER AVE		CA RGA LUST
SANTA CLARA	S110655445	AGNEWS DEVELOPMENTAL CENTER 1	MONTAGUE & LAFAYETTE	95054	CA LUST
SANTA CLARA	S114458533	FRONTIER INFINITI	4355 STEPHENS CREEK BOULEVARD	95051	CA LUST
SANTA CLARA	S114626417	GENERAL ELECTRIC CALMA SITE	501 SYCAMORE DR		CA RGA LUST

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

#### **NPL: National Priority List**

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 07/08/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Quarterly

#### **NPL Site Boundaries**

##### **Sources:**

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### **Proposed NPL: Proposed National Priority List Sites**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 07/08/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Quarterly

#### **NPL LIENS: Federal Superfund Liens**

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal Delisted NPL site list***

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 07/08/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 08/28/2014
Number of Days to Update: 94	Next Scheduled EDR Contact: 12/08/2014
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/08/2014	Telephone: 703-603-8704
Date Made Active in Reports: 08/22/2014	Last EDR Contact: 07/08/2014
Number of Days to Update: 45	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Varies

## ***Federal CERCLIS NFRAP site List***

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 08/28/2014
Number of Days to Update: 94	Next Scheduled EDR Contact: 12/08/2014
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/10/2014  
Date Data Arrived at EDR: 07/02/2014  
Date Made Active in Reports: 09/18/2014  
Number of Days to Update: 78

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 07/02/2014  
Next Scheduled EDR Contact: 10/13/2014  
Data Release Frequency: Quarterly

## ***Federal RCRA non-CORRACTS TSD facilities list***

### **RCRA-TSDF: RCRA - Treatment, Storage and Disposal**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/10/2014  
Date Data Arrived at EDR: 07/02/2014  
Date Made Active in Reports: 09/18/2014  
Number of Days to Update: 78

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 07/02/2014  
Next Scheduled EDR Contact: 10/13/2014  
Data Release Frequency: Quarterly

## ***Federal RCRA generators list***

### **RCRA-LQG: RCRA - Large Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/10/2014  
Date Data Arrived at EDR: 07/02/2014  
Date Made Active in Reports: 09/18/2014  
Number of Days to Update: 78

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 07/02/2014  
Next Scheduled EDR Contact: 10/13/2014  
Data Release Frequency: Quarterly

### **RCRA-SQG: RCRA - Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/10/2014  
Date Data Arrived at EDR: 07/02/2014  
Date Made Active in Reports: 09/18/2014  
Number of Days to Update: 78

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 07/02/2014  
Next Scheduled EDR Contact: 10/13/2014  
Data Release Frequency: Quarterly

### **RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/10/2014  
Date Data Arrived at EDR: 07/02/2014  
Date Made Active in Reports: 09/18/2014  
Number of Days to Update: 78

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 07/02/2014  
Next Scheduled EDR Contact: 10/13/2014  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal institutional controls / engineering controls registries***

### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 06/23/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/15/2014	Telephone: 703-603-0695
Date Made Active in Reports: 09/18/2014	Last EDR Contact: 09/08/2014
Number of Days to Update: 65	Next Scheduled EDR Contact: 12/22/2014
	Data Release Frequency: Varies

### US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 06/23/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/15/2014	Telephone: 703-603-0695
Date Made Active in Reports: 09/18/2014	Last EDR Contact: 09/08/2014
Number of Days to Update: 65	Next Scheduled EDR Contact: 12/22/2014
	Data Release Frequency: Varies

### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2014	Source: Department of the Navy
Date Data Arrived at EDR: 05/30/2014	Telephone: 843-820-7326
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 08/14/2014
Number of Days to Update: 18	Next Scheduled EDR Contact: 12/01/2014
	Data Release Frequency: Varies

## ***Federal ERNS list***

### ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/30/2013	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 10/01/2013	Telephone: 202-267-2180
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 07/03/2014
Number of Days to Update: 66	Next Scheduled EDR Contact: 07/14/2014
	Data Release Frequency: Annually

## ***State- and tribal - equivalent NPL***

### RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 06/05/2014	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 06/06/2014	Telephone: 916-323-3400
Date Made Active in Reports: 07/09/2014	Last EDR Contact: 08/06/2014
Number of Days to Update: 33	Next Scheduled EDR Contact: 11/17/2014
	Data Release Frequency: Quarterly

## ***State- and tribal - equivalent CERCLIS***

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 06/05/2014	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 06/06/2014	Telephone: 916-323-3400
Date Made Active in Reports: 07/09/2014	Last EDR Contact: 08/06/2014
Number of Days to Update: 33	Next Scheduled EDR Contact: 11/17/2014
	Data Release Frequency: Quarterly

## **State and tribal landfill and/or solid waste disposal site lists**

### SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/19/2014	Source: Department of Resources Recycling and Recovery
Date Data Arrived at EDR: 05/20/2014	Telephone: 916-341-6320
Date Made Active in Reports: 05/22/2014	Last EDR Contact: 08/18/2014
Number of Days to Update: 2	Next Scheduled EDR Contact: 12/01/2014
	Data Release Frequency: Quarterly

## **State and tribal leaking storage tank lists**

### LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001	Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 04/23/2001	Telephone: 858-637-5595
Date Made Active in Reports: 05/21/2001	Last EDR Contact: 09/26/2011
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/09/2012
	Data Release Frequency: No Update Planned

### LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005	Source: California Regional Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 02/15/2005	Telephone: 909-782-4496
Date Made Active in Reports: 03/28/2005	Last EDR Contact: 08/15/2011
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: Varies

### LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-776-8943
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/01/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005	Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Date Data Arrived at EDR: 06/07/2005	Telephone: 760-241-7365
Date Made Active in Reports: 06/29/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

## LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 530-542-5572
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/12/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

## LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008	Source: California Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 07/22/2008	Telephone: 916-464-4834
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 07/01/2011
Number of Days to Update: 9	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: No Update Planned

## LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6710
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/06/2011
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/19/2011
	Data Release Frequency: No Update Planned

## LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-542-4786
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 07/18/2011
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/31/2011
	Data Release Frequency: No Update Planned

## LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-622-2433
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 09/19/2011
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: Quarterly

## LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/01/2001  
Date Data Arrived at EDR: 02/28/2001  
Date Made Active in Reports: 03/29/2001  
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)  
Telephone: 707-570-3769  
Last EDR Contact: 08/01/2011  
Next Scheduled EDR Contact: 11/14/2011  
Data Release Frequency: No Update Planned

## LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 07/30/2014  
Date Data Arrived at EDR: 07/31/2014  
Date Made Active in Reports: 08/22/2014  
Number of Days to Update: 22

Source: State Water Resources Control Board  
Telephone: see region list  
Last EDR Contact: 09/17/2014  
Next Scheduled EDR Contact: 12/29/2014  
Data Release Frequency: Quarterly

## SLIC: Statewide SLIC Cases

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 07/30/2014  
Date Data Arrived at EDR: 07/31/2014  
Date Made Active in Reports: 08/25/2014  
Number of Days to Update: 25

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 09/17/2014  
Next Scheduled EDR Contact: 12/29/2014  
Data Release Frequency: Varies

## SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003  
Date Data Arrived at EDR: 04/07/2003  
Date Made Active in Reports: 04/25/2003  
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)  
Telephone: 707-576-2220  
Last EDR Contact: 08/01/2011  
Next Scheduled EDR Contact: 11/14/2011  
Data Release Frequency: No Update Planned

## SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004  
Date Data Arrived at EDR: 10/20/2004  
Date Made Active in Reports: 11/19/2004  
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)  
Telephone: 510-286-0457  
Last EDR Contact: 09/19/2011  
Next Scheduled EDR Contact: 01/02/2012  
Data Release Frequency: Quarterly

## SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006  
Date Data Arrived at EDR: 05/18/2006  
Date Made Active in Reports: 06/15/2006  
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)  
Telephone: 805-549-3147  
Last EDR Contact: 07/18/2011  
Next Scheduled EDR Contact: 10/31/2011  
Data Release Frequency: Semi-Annually

## SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/17/2004  
Date Data Arrived at EDR: 11/18/2004  
Date Made Active in Reports: 01/04/2005  
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)  
Telephone: 213-576-6600  
Last EDR Contact: 07/01/2011  
Next Scheduled EDR Contact: 10/17/2011  
Data Release Frequency: Varies

## SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005  
Date Data Arrived at EDR: 04/05/2005  
Date Made Active in Reports: 04/21/2005  
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)  
Telephone: 916-464-3291  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: Semi-Annually

## SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005  
Date Data Arrived at EDR: 05/25/2005  
Date Made Active in Reports: 06/16/2005  
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch  
Telephone: 619-241-6583  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: Semi-Annually

## SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004  
Date Data Arrived at EDR: 09/07/2004  
Date Made Active in Reports: 10/12/2004  
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region  
Telephone: 530-542-5574  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

## SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004  
Date Data Arrived at EDR: 11/29/2004  
Date Made Active in Reports: 01/04/2005  
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region  
Telephone: 760-346-7491  
Last EDR Contact: 08/01/2011  
Next Scheduled EDR Contact: 11/14/2011  
Data Release Frequency: No Update Planned

## SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008  
Date Data Arrived at EDR: 04/03/2008  
Date Made Active in Reports: 04/14/2008  
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)  
Telephone: 951-782-3298  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: Semi-Annually

## SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/10/2007  
Date Data Arrived at EDR: 09/11/2007  
Date Made Active in Reports: 09/28/2007  
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)  
Telephone: 858-467-2980  
Last EDR Contact: 08/08/2011  
Next Scheduled EDR Contact: 11/21/2011  
Data Release Frequency: Annually

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/13/2014  
Date Data Arrived at EDR: 08/15/2014  
Date Made Active in Reports: 08/22/2014  
Number of Days to Update: 7

Source: EPA Region 8  
Telephone: 303-312-6271  
Last EDR Contact: 07/22/2014  
Next Scheduled EDR Contact: 11/10/2014  
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 05/22/2014  
Date Data Arrived at EDR: 08/22/2014  
Date Made Active in Reports: 09/18/2014  
Number of Days to Update: 27

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 04/28/2014  
Next Scheduled EDR Contact: 11/10/2014  
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/14/2014  
Date Data Arrived at EDR: 05/15/2014  
Date Made Active in Reports: 07/15/2014  
Number of Days to Update: 61

Source: EPA Region 6  
Telephone: 214-665-6597  
Last EDR Contact: 07/22/2014  
Next Scheduled EDR Contact: 11/20/2014  
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 07/30/2014  
Date Data Arrived at EDR: 08/12/2014  
Date Made Active in Reports: 08/22/2014  
Number of Days to Update: 10

Source: EPA Region 4  
Telephone: 404-562-8677  
Last EDR Contact: 04/22/2014  
Next Scheduled EDR Contact: 08/11/2014  
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land  
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013  
Date Data Arrived at EDR: 05/01/2013  
Date Made Active in Reports: 11/01/2013  
Number of Days to Update: 184

Source: EPA Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 08/01/2014  
Next Scheduled EDR Contact: 11/10/2014  
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2013  
Date Data Arrived at EDR: 03/01/2013  
Date Made Active in Reports: 04/12/2013  
Number of Days to Update: 42

Source: Environmental Protection Agency  
Telephone: 415-972-3372  
Last EDR Contact: 07/22/2014  
Next Scheduled EDR Contact: 11/10/2014  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 08/04/2014	Source: EPA, Region 5
Date Data Arrived at EDR: 08/05/2014	Telephone: 312-886-7439
Date Made Active in Reports: 08/22/2014	Last EDR Contact: 04/28/2014
Number of Days to Update: 17	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Varies

## INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 05/20/2014	Source: EPA Region 10
Date Data Arrived at EDR: 06/10/2014	Telephone: 206-553-2857
Date Made Active in Reports: 08/22/2014	Last EDR Contact: 04/28/2014
Number of Days to Update: 73	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Quarterly

### **State and tribal registered storage tank lists**

#### UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/30/2014	Source: SWRCB
Date Data Arrived at EDR: 07/31/2014	Telephone: 916-341-5851
Date Made Active in Reports: 08/20/2014	Last EDR Contact: 07/31/2014
Number of Days to Update: 20	Next Scheduled EDR Contact: 09/29/2014
	Data Release Frequency: Semi-Annually

#### AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 08/01/2009	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2009	Telephone: 916-327-5092
Date Made Active in Reports: 10/01/2009	Last EDR Contact: 07/18/2014
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Quarterly

## INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/01/2013	Source: EPA, Region 1
Date Data Arrived at EDR: 05/01/2013	Telephone: 617-918-1313
Date Made Active in Reports: 01/27/2014	Last EDR Contact: 08/01/2014
Number of Days to Update: 271	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Varies

## INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 07/30/2014	Source: EPA Region 4
Date Data Arrived at EDR: 08/12/2014	Telephone: 404-562-9424
Date Made Active in Reports: 08/22/2014	Last EDR Contact: 04/22/2014
Number of Days to Update: 10	Next Scheduled EDR Contact: 08/11/2014
	Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/04/2014	Source: EPA Region 5
Date Data Arrived at EDR: 08/05/2014	Telephone: 312-886-6136
Date Made Active in Reports: 08/22/2014	Last EDR Contact: 04/28/2014
Number of Days to Update: 17	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Varies

## INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 07/25/2014	Source: EPA Region 6
Date Data Arrived at EDR: 07/28/2014	Telephone: 214-665-7591
Date Made Active in Reports: 08/22/2014	Last EDR Contact: 07/22/2014
Number of Days to Update: 25	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Semi-Annually

## INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 08/20/2014	Source: EPA Region 7
Date Data Arrived at EDR: 08/22/2014	Telephone: 913-551-7003
Date Made Active in Reports: 09/18/2014	Last EDR Contact: 04/28/2014
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Varies

## INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/13/2014	Source: EPA Region 8
Date Data Arrived at EDR: 08/15/2014	Telephone: 303-312-6137
Date Made Active in Reports: 08/22/2014	Last EDR Contact: 07/22/2014
Number of Days to Update: 7	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Quarterly

## INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 08/14/2014	Source: EPA Region 9
Date Data Arrived at EDR: 08/15/2014	Telephone: 415-972-3368
Date Made Active in Reports: 08/22/2014	Last EDR Contact: 07/22/2014
Number of Days to Update: 7	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Quarterly

## INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 05/20/2014	Source: EPA Region 10
Date Data Arrived at EDR: 06/10/2014	Telephone: 206-553-2857
Date Made Active in Reports: 08/15/2014	Last EDR Contact: 07/22/2014
Number of Days to Update: 66	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 07/08/2014
Number of Days to Update: 55	Next Scheduled EDR Contact: 10/27/2014
	Data Release Frequency: Varies

## **State and tribal voluntary cleanup sites**

### INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 05/30/2014	Source: EPA, Region 1
Date Data Arrived at EDR: 07/01/2014	Telephone: 617-918-1102
Date Made Active in Reports: 08/15/2014	Last EDR Contact: 07/01/2014
Number of Days to Update: 45	Next Scheduled EDR Contact: 10/13/2014
	Data Release Frequency: Varies

### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

### VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 06/05/2014	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 06/06/2014	Telephone: 916-323-3400
Date Made Active in Reports: 07/09/2014	Last EDR Contact: 08/06/2014
Number of Days to Update: 33	Next Scheduled EDR Contact: 11/17/2014
	Data Release Frequency: Quarterly

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### **Local Brownfield lists**

#### US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/03/2014	Telephone: 202-566-2777
Date Made Active in Reports: 07/28/2014	Last EDR Contact: 07/03/2014
Number of Days to Update: 25	Next Scheduled EDR Contact: 10/06/2014
	Data Release Frequency: Semi-Annually

### **Local Lists of Landfill / Solid Waste Disposal Sites**

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 07/25/2014  
Next Scheduled EDR Contact: 11/10/2014  
Data Release Frequency: No Update Planned

## SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 06/16/2014  
Date Data Arrived at EDR: 06/17/2014  
Date Made Active in Reports: 07/11/2014  
Number of Days to Update: 24

Source: Department of Conservation  
Telephone: 916-323-3836  
Last EDR Contact: 09/17/2014  
Next Scheduled EDR Contact: 12/29/2014  
Data Release Frequency: Quarterly

## HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 02/18/2014  
Date Data Arrived at EDR: 02/20/2014  
Date Made Active in Reports: 03/27/2014  
Number of Days to Update: 35

Source: Integrated Waste Management Board  
Telephone: 916-341-6422  
Last EDR Contact: 08/14/2014  
Next Scheduled EDR Contact: 12/01/2014  
Data Release Frequency: Varies

## INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 08/01/2014  
Next Scheduled EDR Contact: 11/17/2014  
Data Release Frequency: Varies

## WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000  
Date Data Arrived at EDR: 04/10/2000  
Date Made Active in Reports: 05/10/2000  
Number of Days to Update: 30

Source: State Water Resources Control Board  
Telephone: 916-227-4448  
Last EDR Contact: 08/07/2014  
Next Scheduled EDR Contact: 11/24/2014  
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **Local Lists of Hazardous waste / Contaminated Sites**

### **US CDL: Clandestine Drug Labs**

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/28/2014	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 06/20/2014	Telephone: 202-307-1000
Date Made Active in Reports: 07/15/2014	Last EDR Contact: 09/03/2014
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/15/2014
	Data Release Frequency: Quarterly

### **HIST CAL-SITES: Calsites Database**

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 02/23/2009
Number of Days to Update: 21	Next Scheduled EDR Contact: 05/25/2009
	Data Release Frequency: No Update Planned

### **SCH: School Property Evaluation Program**

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 06/05/2014	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 06/06/2014	Telephone: 916-323-3400
Date Made Active in Reports: 07/09/2014	Last EDR Contact: 08/06/2014
Number of Days to Update: 33	Next Scheduled EDR Contact: 11/17/2014
	Data Release Frequency: Quarterly

### **TOXIC PITS: Toxic Pits Cleanup Act Sites**

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 01/26/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/27/2009
	Data Release Frequency: No Update Planned

### **CDL: Clandestine Drug Labs**

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2013	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/28/2014	Telephone: 916-255-6504
Date Made Active in Reports: 03/20/2014	Last EDR Contact: 08/29/2014
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/27/2014
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/28/2014	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 06/20/2014	Telephone: 202-307-1000
Date Made Active in Reports: 07/15/2014	Last EDR Contact: 09/03/2014
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/15/2014
	Data Release Frequency: No Update Planned

## **Local Lists of Registered Storage Tanks**

### CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009	Source: Department of Public Health
Date Data Arrived at EDR: 09/23/2009	Telephone: 707-463-4466
Date Made Active in Reports: 10/01/2009	Last EDR Contact: 08/28/2014
Number of Days to Update: 8	Next Scheduled EDR Contact: 12/15/2014
	Data Release Frequency: Annually

### HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990	Source: State Water Resources Control Board
Date Data Arrived at EDR: 01/25/1991	Telephone: 916-341-5851
Date Made Active in Reports: 02/12/1991	Last EDR Contact: 07/26/2001
Number of Days to Update: 18	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## **Local Land Records**

### LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/18/2014  
Date Data Arrived at EDR: 03/18/2014  
Date Made Active in Reports: 04/24/2014  
Number of Days to Update: 37

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 07/22/2014  
Next Scheduled EDR Contact: 11/10/2014  
Data Release Frequency: Varies

## LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 05/05/2014  
Date Data Arrived at EDR: 05/06/2014  
Date Made Active in Reports: 05/19/2014  
Number of Days to Update: 13

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 09/08/2014  
Next Scheduled EDR Contact: 12/22/2014  
Data Release Frequency: Varies

## DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 06/09/2014  
Date Data Arrived at EDR: 06/11/2014  
Date Made Active in Reports: 07/09/2014  
Number of Days to Update: 28

Source: DTSC and SWRCB  
Telephone: 916-323-3400  
Last EDR Contact: 09/10/2014  
Next Scheduled EDR Contact: 12/22/2014  
Data Release Frequency: Semi-Annually

## **Records of Emergency Release Reports**

### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/30/2014  
Date Data Arrived at EDR: 07/01/2014  
Date Made Active in Reports: 09/18/2014  
Number of Days to Update: 79

Source: U.S. Department of Transportation  
Telephone: 202-366-4555  
Last EDR Contact: 07/01/2014  
Next Scheduled EDR Contact: 10/13/2014  
Data Release Frequency: Annually

### CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 06/26/2014  
Date Data Arrived at EDR: 07/28/2014  
Date Made Active in Reports: 09/15/2014  
Number of Days to Update: 49

Source: Office of Emergency Services  
Telephone: 916-845-8400  
Last EDR Contact: 07/28/2014  
Next Scheduled EDR Contact: 11/10/2014  
Data Release Frequency: Varies

### LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 07/30/2014  
Date Data Arrived at EDR: 07/31/2014  
Date Made Active in Reports: 08/22/2014  
Number of Days to Update: 22

Source: State Water Quality Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 09/17/2014  
Next Scheduled EDR Contact: 12/29/2014  
Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 07/30/2014	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/31/2014	Telephone: 866-480-1028
Date Made Active in Reports: 08/25/2014	Last EDR Contact: 09/17/2014
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/29/2014
	Data Release Frequency: Quarterly

### SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### **Other Ascertainable Records**

#### RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/10/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/02/2014	Telephone: (415) 495-8895
Date Made Active in Reports: 09/18/2014	Last EDR Contact: 07/02/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/13/2014
	Data Release Frequency: Varies

#### DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 08/07/2012	Telephone: 202-366-4595
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 08/06/2014
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/17/2014
	Data Release Frequency: Varies

#### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/18/2014
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/27/2014
	Data Release Frequency: Semi-Annually

#### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/06/2014  
Date Data Arrived at EDR: 09/10/2014  
Date Made Active in Reports: 09/18/2014  
Number of Days to Update: 8

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 09/10/2014  
Next Scheduled EDR Contact: 12/22/2014  
Data Release Frequency: Varies

## CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 01/24/2014  
Date Made Active in Reports: 02/24/2014  
Number of Days to Update: 31

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 06/30/2014  
Next Scheduled EDR Contact: 10/13/2014  
Data Release Frequency: Varies

## ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013  
Date Data Arrived at EDR: 12/12/2013  
Date Made Active in Reports: 02/24/2014  
Number of Days to Update: 74

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 09/09/2014  
Next Scheduled EDR Contact: 12/22/2014  
Data Release Frequency: Annually

## UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010  
Date Data Arrived at EDR: 10/07/2011  
Date Made Active in Reports: 03/01/2012  
Number of Days to Update: 146

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 08/20/2014  
Next Scheduled EDR Contact: 12/08/2014  
Data Release Frequency: Varies

## US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 01/30/2014  
Date Data Arrived at EDR: 03/05/2014  
Date Made Active in Reports: 07/15/2014  
Number of Days to Update: 132

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 09/04/2014  
Next Scheduled EDR Contact: 12/15/2014  
Data Release Frequency: Semi-Annually

## TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 07/31/2013  
Date Made Active in Reports: 09/13/2013  
Number of Days to Update: 44

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 08/29/2014  
Next Scheduled EDR Contact: 12/08/2014  
Data Release Frequency: Annually

## TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2006  
Date Data Arrived at EDR: 09/29/2010  
Date Made Active in Reports: 12/02/2010  
Number of Days to Update: 64

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 06/25/2014  
Next Scheduled EDR Contact: 10/06/2014  
Data Release Frequency: Every 4 Years

**FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**  
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 08/19/2014  
Next Scheduled EDR Contact: 12/08/2014  
Data Release Frequency: Quarterly

**FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**  
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 08/19/2014  
Next Scheduled EDR Contact: 12/08/2014  
Data Release Frequency: Quarterly

**HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing**

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2007  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

**HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing**

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

**SSTS: Section 7 Tracking Systems**

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 12/10/2010  
Date Made Active in Reports: 02/25/2011  
Number of Days to Update: 77

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 07/22/2014  
Next Scheduled EDR Contact: 11/10/2014  
Data Release Frequency: Annually

## ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 05/06/2014  
Date Data Arrived at EDR: 05/16/2014  
Date Made Active in Reports: 06/17/2014  
Number of Days to Update: 32

Source: Environmental Protection Agency  
Telephone: 202-564-5088  
Last EDR Contact: 10/09/2014  
Next Scheduled EDR Contact: 10/27/2014  
Data Release Frequency: Quarterly

## PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2013  
Date Data Arrived at EDR: 07/17/2013  
Date Made Active in Reports: 11/01/2013  
Number of Days to Update: 107

Source: EPA  
Telephone: 202-566-0500  
Last EDR Contact: 07/18/2014  
Next Scheduled EDR Contact: 10/27/2014  
Data Release Frequency: Annually

## MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/22/2013  
Date Data Arrived at EDR: 08/02/2013  
Date Made Active in Reports: 11/01/2013  
Number of Days to Update: 91

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 09/08/2014  
Next Scheduled EDR Contact: 12/22/2014  
Data Release Frequency: Quarterly

## RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2014  
Date Data Arrived at EDR: 07/10/2014  
Date Made Active in Reports: 07/28/2014  
Number of Days to Update: 18

Source: Environmental Protection Agency  
Telephone: 202-343-9775  
Last EDR Contact: 07/10/2014  
Next Scheduled EDR Contact: 10/20/2014  
Data Release Frequency: Quarterly

## FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/18/2013  
Date Data Arrived at EDR: 02/27/2014  
Date Made Active in Reports: 03/12/2014  
Number of Days to Update: 13

Source: EPA  
Telephone: (415) 947-8000  
Last EDR Contact: 09/10/2014  
Next Scheduled EDR Contact: 12/22/2014  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

## RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/23/2014	Telephone: 202-564-8600
Date Made Active in Reports: 07/28/2014	Last EDR Contact: 07/22/2014
Number of Days to Update: 66	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Varies

## BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011	Source: EPA/NTIS
Date Data Arrived at EDR: 02/26/2013	Telephone: 800-424-9346
Date Made Active in Reports: 04/19/2013	Last EDR Contact: 08/29/2014
Number of Days to Update: 52	Next Scheduled EDR Contact: 12/08/2014
	Data Release Frequency: Biennially

## CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 01/15/2014	Source: Department of Conservation
Date Data Arrived at EDR: 03/18/2014	Telephone: 916-445-2408
Date Made Active in Reports: 04/24/2014	Last EDR Contact: 09/17/2014
Number of Days to Update: 37	Next Scheduled EDR Contact: 12/29/2014
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 05/19/2014	Source: State Water Resources Control Board
Date Data Arrived at EDR: 05/20/2014	Telephone: 916-445-9379
Date Made Active in Reports: 05/28/2014	Last EDR Contact: 08/18/2014
Number of Days to Update: 8	Next Scheduled EDR Contact: 12/01/2014
	Data Release Frequency: Quarterly

## CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 06/30/2014	Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 07/01/2014	Telephone: 916-323-3400
Date Made Active in Reports: 07/28/2014	Last EDR Contact: 07/01/2014
Number of Days to Update: 27	Next Scheduled EDR Contact: 10/13/2014
	Data Release Frequency: Quarterly

## HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CAL SITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/22/2009	Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 01/22/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 10/21/1993	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993	Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993	Last EDR Contact: 06/17/2014
Number of Days to Update: 18	Next Scheduled EDR Contact: 10/06/2014
	Data Release Frequency: No Update Planned

## DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 06/28/2014	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 07/03/2014	Telephone: 916-327-4498
Date Made Active in Reports: 08/21/2014	Last EDR Contact: 09/08/2014
Number of Days to Update: 49	Next Scheduled EDR Contact: 12/22/2014
	Data Release Frequency: Annually

## WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/21/2009	Telephone: 213-576-6726
Date Made Active in Reports: 08/03/2009	Last EDR Contact: 06/25/2014
Number of Days to Update: 13	Next Scheduled EDR Contact: 10/13/2014
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 05/30/2014	Source: State Water Resources Control Board
Date Data Arrived at EDR: 05/30/2014	Telephone: 916-445-9379
Date Made Active in Reports: 07/07/2014	Last EDR Contact: 08/08/2014
Number of Days to Update: 38	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Varies

## HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2012	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 07/16/2013	Telephone: 916-255-1136
Date Made Active in Reports: 08/26/2013	Last EDR Contact: 07/18/2014
Number of Days to Update: 41	Next Scheduled EDR Contact: 10/27/2014
	Data Release Frequency: Annually

## EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2012	Source: California Air Resources Board
Date Data Arrived at EDR: 03/25/2014	Telephone: 916-322-2990
Date Made Active in Reports: 04/28/2014	Last EDR Contact: 06/26/2014
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/06/2014
	Data Release Frequency: Varies

## INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/18/2014
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/27/2014
	Data Release Frequency: Semi-Annually

## SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2011	Telephone: 615-532-8599
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 07/25/2014
Number of Days to Update: 54	Next Scheduled EDR Contact: 11/03/2014
	Data Release Frequency: Varies

## WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/20/2007	Telephone: 916-341-5227
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 08/19/2014
Number of Days to Update: 9	Next Scheduled EDR Contact: 12/08/2014
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013	Source: EPA
Date Data Arrived at EDR: 07/03/2013	Telephone: 202-564-6023
Date Made Active in Reports: 09/13/2013	Last EDR Contact: 07/01/2014
Number of Days to Update: 72	Next Scheduled EDR Contact: 10/13/2014
	Data Release Frequency: Quarterly

## LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 08/15/2014
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/24/2014
	Data Release Frequency: Quarterly

## 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/18/2012	Telephone: 703-308-4044
Date Made Active in Reports: 05/25/2012	Last EDR Contact: 08/15/2014
Number of Days to Update: 7	Next Scheduled EDR Contact: 11/24/2014
	Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 06/04/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/12/2014	Telephone: 703-603-8787
Date Made Active in Reports: 07/28/2014	Last EDR Contact: 07/01/2014
Number of Days to Update: 46	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Varies

## PROC: Certified Processors Database

A listing of certified processors.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/16/2014  
Date Data Arrived at EDR: 06/17/2014  
Date Made Active in Reports: 07/10/2014  
Number of Days to Update: 23

Source: Department of Conservation  
Telephone: 916-323-3836  
Last EDR Contact: 09/17/2014  
Next Scheduled EDR Contact: 12/29/2014  
Data Release Frequency: Quarterly

## Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 05/05/2014  
Date Data Arrived at EDR: 05/14/2014  
Date Made Active in Reports: 05/22/2014  
Number of Days to Update: 8

Source: Department of Toxic Substances Control  
Telephone: 916-255-3628  
Last EDR Contact: 07/25/2014  
Next Scheduled EDR Contact: 11/10/2014  
Data Release Frequency: Varies

## PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011  
Date Data Arrived at EDR: 10/19/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 83

Source: Environmental Protection Agency  
Telephone: 202-566-0517  
Last EDR Contact: 08/01/2014  
Next Scheduled EDR Contact: 11/10/2014  
Data Release Frequency: Varies

## Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/19/2014  
Date Data Arrived at EDR: 05/20/2014  
Date Made Active in Reports: 05/22/2014  
Number of Days to Update: 2

Source: California Integrated Waste Management Board  
Telephone: 916-341-6066  
Last EDR Contact: 08/14/2014  
Next Scheduled EDR Contact: 12/01/2014  
Data Release Frequency: Varies

## FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 02/06/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 339

Source: U.S. Geological Survey  
Telephone: 888-275-8747  
Last EDR Contact: 07/18/2014  
Next Scheduled EDR Contact: 10/27/2014  
Data Release Frequency: N/A

## US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/19/2014  
Date Data Arrived at EDR: 06/20/2014  
Date Made Active in Reports: 07/28/2014  
Number of Days to Update: 38

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 08/14/2014  
Next Scheduled EDR Contact: 12/01/2014  
Data Release Frequency: Quarterly

## COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/14/2014  
Date Data Arrived at EDR: 06/11/2014  
Date Made Active in Reports: 07/28/2014  
Number of Days to Update: 47

Source: Environmental Protection Agency  
Telephone: N/A  
Last EDR Contact: 09/10/2014  
Next Scheduled EDR Contact: 12/22/2014  
Data Release Frequency: Varies

## MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 05/23/2014  
Date Data Arrived at EDR: 06/13/2014  
Date Made Active in Reports: 07/09/2014  
Number of Days to Update: 26

Source: Department of Public Health  
Telephone: 916-558-1784  
Last EDR Contact: 09/10/2014  
Next Scheduled EDR Contact: 12/22/2014  
Data Release Frequency: Varies

## COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 08/07/2009  
Date Made Active in Reports: 10/22/2009  
Number of Days to Update: 76

Source: Department of Energy  
Telephone: 202-586-8719  
Last EDR Contact: 07/18/2014  
Next Scheduled EDR Contact: 10/27/2014  
Data Release Frequency: Varies

## HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/14/2014  
Date Data Arrived at EDR: 07/15/2014  
Date Made Active in Reports: 07/28/2014  
Number of Days to Update: 13

Source: Department of Toxic Substances Control  
Telephone: 916-440-7145  
Last EDR Contact: 07/15/2014  
Next Scheduled EDR Contact: 10/27/2014  
Data Release Frequency: Quarterly

## HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/27/2014  
Date Data Arrived at EDR: 05/28/2014  
Date Made Active in Reports: 07/07/2014  
Number of Days to Update: 40

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 08/26/2014  
Next Scheduled EDR Contact: 12/08/2014  
Data Release Frequency: Quarterly

## US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/23/2013  
Date Data Arrived at EDR: 11/06/2013  
Date Made Active in Reports: 12/06/2013  
Number of Days to Update: 30

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 06/25/2014  
Next Scheduled EDR Contact: 10/13/2014  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/23/2013

Date Data Arrived at EDR: 11/06/2013

Date Made Active in Reports: 12/06/2013

Number of Days to Update: 30

Source: EPA

Telephone: 202-564-2496

Last EDR Contact: 06/25/2014

Next Scheduled EDR Contact: 10/13/2014

Data Release Frequency: Annually

## EDR HIGH RISK HISTORICAL RECORDS

### *EDR Exclusive Records*

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A

Date Data Arrived at EDR: N/A

Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc.

Telephone: N/A

Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

#### EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A

Date Data Arrived at EDR: N/A

Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc.

Telephone: N/A

Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: Varies

#### EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A

Date Data Arrived at EDR: N/A

Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc.

Telephone: N/A

Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## EDR RECOVERED GOVERNMENT ARCHIVES

### *Exclusive Recovered Govt. Archives*

#### RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/30/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 182	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

#### RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A	Source: Department of Resources Recycling and Recovery
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/13/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 196	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

## COUNTY RECORDS

### ALAMEDA COUNTY:

#### Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 07/25/2014	Source: Alameda County Environmental Health Services
Date Data Arrived at EDR: 07/28/2014	Telephone: 510-567-6700
Date Made Active in Reports: 09/15/2014	Last EDR Contact: 06/30/2014
Number of Days to Update: 49	Next Scheduled EDR Contact: 10/13/2014
	Data Release Frequency: Semi-Annually

#### Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 07/25/2014	Source: Alameda County Environmental Health Services
Date Data Arrived at EDR: 07/28/2014	Telephone: 510-567-6700
Date Made Active in Reports: 08/20/2014	Last EDR Contact: 06/30/2014
Number of Days to Update: 23	Next Scheduled EDR Contact: 10/13/2014
	Data Release Frequency: Semi-Annually

### AMADOR COUNTY:

#### CUPA Facility List

Cupa Facility List

Date of Government Version: 07/23/2014	Source: Amador County Environmental Health
Date Data Arrived at EDR: 06/26/2014	Telephone: 209-223-6439
Date Made Active in Reports: 07/25/2014	Last EDR Contact: 09/08/2014
Number of Days to Update: 29	Next Scheduled EDR Contact: 12/22/2014
	Data Release Frequency: Varies

### BUTTE COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA Facility Listing

Cupa facility list.

Date of Government Version: 08/01/2013  
Date Data Arrived at EDR: 08/02/2013  
Date Made Active in Reports: 08/22/2013  
Number of Days to Update: 20

Source: Public Health Department  
Telephone: 530-538-7149  
Last EDR Contact: 07/08/2014  
Next Scheduled EDR Contact: 10/27/2014  
Data Release Frequency: No Update Planned

## CALVERAS COUNTY:

### CUPA Facility Listing

Cupa Facility Listing

Date of Government Version: 07/02/2014  
Date Data Arrived at EDR: 07/03/2014  
Date Made Active in Reports: 07/30/2014  
Number of Days to Update: 27

Source: Calveras County Environmental Health  
Telephone: 209-754-6399  
Last EDR Contact: 06/26/2014  
Next Scheduled EDR Contact: 10/13/2014  
Data Release Frequency: Quarterly

## COLUSA COUNTY:

### CUPA Facility List

Cupa facility list.

Date of Government Version: 06/11/2014  
Date Data Arrived at EDR: 06/13/2014  
Date Made Active in Reports: 07/07/2014  
Number of Days to Update: 24

Source: Health & Human Services  
Telephone: 530-458-0396  
Last EDR Contact: 08/08/2014  
Next Scheduled EDR Contact: 11/24/2014  
Data Release Frequency: Varies

## CONTRA COSTA COUNTY:

### Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/24/2014  
Date Data Arrived at EDR: 02/25/2014  
Date Made Active in Reports: 03/18/2014  
Number of Days to Update: 21

Source: Contra Costa Health Services Department  
Telephone: 925-646-2286  
Last EDR Contact: 08/05/2014  
Next Scheduled EDR Contact: 11/17/2014  
Data Release Frequency: Semi-Annually

## DEL NORTE COUNTY:

### CUPA Facility List

Cupa Facility list

Date of Government Version: 05/05/2014  
Date Data Arrived at EDR: 05/06/2014  
Date Made Active in Reports: 05/13/2014  
Number of Days to Update: 7

Source: Del Norte County Environmental Health Division  
Telephone: 707-465-0426  
Last EDR Contact: 07/30/2014  
Next Scheduled EDR Contact: 11/17/2014  
Data Release Frequency: Varies

## EL DORADO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA Facility List

CUPA facility list.

Date of Government Version: 05/29/2014  
Date Data Arrived at EDR: 05/30/2014  
Date Made Active in Reports: 07/07/2014  
Number of Days to Update: 38

Source: El Dorado County Environmental Management Department  
Telephone: 530-621-6623  
Last EDR Contact: 08/05/2014  
Next Scheduled EDR Contact: 11/17/2014  
Data Release Frequency: Varies

## FRESNO COUNTY:

### CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/30/2014  
Date Data Arrived at EDR: 07/15/2014  
Date Made Active in Reports: 08/19/2014  
Number of Days to Update: 35

Source: Dept. of Community Health  
Telephone: 559-445-3271  
Last EDR Contact: 07/11/2014  
Next Scheduled EDR Contact: 10/27/2014  
Data Release Frequency: Semi-Annually

## HUMBOLDT COUNTY:

### CUPA Facility List

CUPA facility list.

Date of Government Version: 06/09/2014  
Date Data Arrived at EDR: 06/11/2014  
Date Made Active in Reports: 07/07/2014  
Number of Days to Update: 26

Source: Humboldt County Environmental Health  
Telephone: N/A  
Last EDR Contact: 08/20/2014  
Next Scheduled EDR Contact: 12/08/2014  
Data Release Frequency: Varies

## IMPERIAL COUNTY:

### CUPA Facility List

Cupa facility list.

Date of Government Version: 07/28/2014  
Date Data Arrived at EDR: 07/30/2014  
Date Made Active in Reports: 09/15/2014  
Number of Days to Update: 47

Source: San Diego Border Field Office  
Telephone: 760-339-2777  
Last EDR Contact: 07/25/2014  
Next Scheduled EDR Contact: 11/10/2014  
Data Release Frequency: Varies

## INYO COUNTY:

### CUPA Facility List

Cupa facility list.

Date of Government Version: 09/10/2013  
Date Data Arrived at EDR: 09/11/2013  
Date Made Active in Reports: 10/14/2013  
Number of Days to Update: 33

Source: Inyo County Environmental Health Services  
Telephone: 760-878-0238  
Last EDR Contact: 08/20/2014  
Next Scheduled EDR Contact: 12/08/2014  
Data Release Frequency: Varies

## KERN COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 08/31/2010  
Date Data Arrived at EDR: 09/01/2010  
Date Made Active in Reports: 09/30/2010  
Number of Days to Update: 29

Source: Kern County Environment Health Services Department  
Telephone: 661-862-8700  
Last EDR Contact: 08/08/2014  
Next Scheduled EDR Contact: 11/24/2014  
Data Release Frequency: Quarterly

## KINGS COUNTY:

### CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/28/2014  
Date Data Arrived at EDR: 05/30/2014  
Date Made Active in Reports: 06/20/2014  
Number of Days to Update: 21

Source: Kings County Department of Public Health  
Telephone: 559-584-1411  
Last EDR Contact: 08/20/2014  
Next Scheduled EDR Contact: 12/08/2014  
Data Release Frequency: Varies

## LAKE COUNTY:

### CUPA Facility List

Cupa facility list

Date of Government Version: 07/23/2014  
Date Data Arrived at EDR: 07/25/2014  
Date Made Active in Reports: 08/22/2014  
Number of Days to Update: 28

Source: Lake County Environmental Health  
Telephone: 707-263-1164  
Last EDR Contact: 07/18/2014  
Next Scheduled EDR Contact: 11/03/2014  
Data Release Frequency: Varies

## LOS ANGELES COUNTY:

### San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009  
Date Data Arrived at EDR: 03/31/2009  
Date Made Active in Reports: 10/23/2009  
Number of Days to Update: 206

Source: EPA Region 9  
Telephone: 415-972-3178  
Last EDR Contact: 06/19/2014  
Next Scheduled EDR Contact: 10/06/2014  
Data Release Frequency: No Update Planned

### HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 03/31/2014  
Date Data Arrived at EDR: 06/06/2014  
Date Made Active in Reports: 07/17/2014  
Number of Days to Update: 41

Source: Department of Public Works  
Telephone: 626-458-3517  
Last EDR Contact: 07/21/2014  
Next Scheduled EDR Contact: 10/27/2014  
Data Release Frequency: Semi-Annually

### List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/21/2014  
Date Data Arrived at EDR: 07/21/2014  
Date Made Active in Reports: 08/19/2014  
Number of Days to Update: 29

Source: La County Department of Public Works  
Telephone: 818-458-5185  
Last EDR Contact: 07/21/2014  
Next Scheduled EDR Contact: 11/03/2014  
Data Release Frequency: Varies

## City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009  
Date Data Arrived at EDR: 03/10/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 29

Source: Engineering & Construction Division  
Telephone: 213-473-7869  
Last EDR Contact: 08/14/2014  
Next Scheduled EDR Contact: 11/03/2014  
Data Release Frequency: Varies

## Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/07/2014  
Date Data Arrived at EDR: 02/25/2014  
Date Made Active in Reports: 03/25/2014  
Number of Days to Update: 28

Source: Community Health Services  
Telephone: 323-890-7806  
Last EDR Contact: 07/16/2014  
Next Scheduled EDR Contact: 11/03/2014  
Data Release Frequency: Annually

## City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 07/23/2014  
Date Data Arrived at EDR: 07/28/2014  
Date Made Active in Reports: 08/20/2014  
Number of Days to Update: 23

Source: City of El Segundo Fire Department  
Telephone: 310-524-2236  
Last EDR Contact: 07/18/2014  
Next Scheduled EDR Contact: 11/03/2014  
Data Release Frequency: Semi-Annually

## City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 07/28/2014  
Date Data Arrived at EDR: 07/28/2014  
Date Made Active in Reports: 08/20/2014  
Number of Days to Update: 23

Source: City of Long Beach Fire Department  
Telephone: 562-570-2563  
Last EDR Contact: 07/25/2014  
Next Scheduled EDR Contact: 11/10/2014  
Data Release Frequency: Annually

## City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/13/2014  
Date Data Arrived at EDR: 03/27/2014  
Date Made Active in Reports: 04/28/2014  
Number of Days to Update: 32

Source: City of Torrance Fire Department  
Telephone: 310-618-2973  
Last EDR Contact: 07/25/2014  
Next Scheduled EDR Contact: 10/27/2014  
Data Release Frequency: Semi-Annually

## MADERA COUNTY:

### CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/09/2014  
Date Data Arrived at EDR: 06/11/2014  
Date Made Active in Reports: 06/27/2014  
Number of Days to Update: 16

Source: Madera County Environmental Health  
Telephone: 559-675-7823  
Last EDR Contact: 08/26/2014  
Next Scheduled EDR Contact: 12/08/2014  
Data Release Frequency: Varies

## MARIN COUNTY:

### Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 07/02/2014  
Date Data Arrived at EDR: 07/07/2014  
Date Made Active in Reports: 08/18/2014  
Number of Days to Update: 42

Source: Public Works Department Waste Management  
Telephone: 415-499-6647  
Last EDR Contact: 07/02/2014  
Next Scheduled EDR Contact: 10/20/2014  
Data Release Frequency: Semi-Annually

## MERCED COUNTY:

### CUPA Facility List

CUPA facility list.

Date of Government Version: 05/27/2014  
Date Data Arrived at EDR: 05/29/2014  
Date Made Active in Reports: 06/24/2014  
Number of Days to Update: 26

Source: Merced County Environmental Health  
Telephone: 209-381-1094  
Last EDR Contact: 08/20/2014  
Next Scheduled EDR Contact: 12/08/2014  
Data Release Frequency: Varies

## MONO COUNTY:

### CUPA Facility List

CUPA Facility List

Date of Government Version: 06/09/2014  
Date Data Arrived at EDR: 06/13/2014  
Date Made Active in Reports: 06/27/2014  
Number of Days to Update: 14

Source: Mono County Health Department  
Telephone: 760-932-5580  
Last EDR Contact: 09/02/2014  
Next Scheduled EDR Contact: 12/15/2014  
Data Release Frequency: Varies

## MONTEREY COUNTY:

### CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/09/2014  
Date Data Arrived at EDR: 06/11/2014  
Date Made Active in Reports: 07/09/2014  
Number of Days to Update: 28

Source: Monterey County Health Department  
Telephone: 831-796-1297  
Last EDR Contact: 08/26/2014  
Next Scheduled EDR Contact: 12/08/2014  
Data Release Frequency: Varies

## NAPA COUNTY:

### Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/05/2011  
Date Data Arrived at EDR: 12/06/2011  
Date Made Active in Reports: 02/07/2012  
Number of Days to Update: 63

Source: Napa County Department of Environmental Management  
Telephone: 707-253-4269  
Last EDR Contact: 08/28/2014  
Next Scheduled EDR Contact: 12/15/2014  
Data Release Frequency: No Update Planned

## Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008  
Date Data Arrived at EDR: 01/16/2008  
Date Made Active in Reports: 02/08/2008  
Number of Days to Update: 23

Source: Napa County Department of Environmental Management  
Telephone: 707-253-4269  
Last EDR Contact: 08/28/2014  
Next Scheduled EDR Contact: 12/15/2014  
Data Release Frequency: No Update Planned

## NEVADA COUNTY:

### CUPA Facility List

CUPA facility list.

Date of Government Version: 11/06/2013  
Date Data Arrived at EDR: 11/07/2013  
Date Made Active in Reports: 12/04/2013  
Number of Days to Update: 27

Source: Community Development Agency  
Telephone: 530-265-1467  
Last EDR Contact: 09/16/2014  
Next Scheduled EDR Contact: 12/29/2014  
Data Release Frequency: Varies

## ORANGE COUNTY:

### List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 05/01/2014  
Date Data Arrived at EDR: 05/15/2014  
Date Made Active in Reports: 05/22/2014  
Number of Days to Update: 7

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 08/07/2014  
Next Scheduled EDR Contact: 11/24/2014  
Data Release Frequency: Annually

### List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/01/2014  
Date Data Arrived at EDR: 05/15/2014  
Date Made Active in Reports: 05/28/2014  
Number of Days to Update: 13

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 08/07/2014  
Next Scheduled EDR Contact: 11/24/2014  
Data Release Frequency: Quarterly

### List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 08/01/2014  
Date Data Arrived at EDR: 08/12/2014  
Date Made Active in Reports: 08/20/2014  
Number of Days to Update: 8

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 08/07/2014  
Next Scheduled EDR Contact: 11/24/2014  
Data Release Frequency: Quarterly

## PLACER COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 06/09/2014  
Date Data Arrived at EDR: 06/10/2014  
Date Made Active in Reports: 07/09/2014  
Number of Days to Update: 29

Source: Placer County Health and Human Services  
Telephone: 530-745-2363  
Last EDR Contact: 09/08/2014  
Next Scheduled EDR Contact: 12/22/2014  
Data Release Frequency: Semi-Annually

## RIVERSIDE COUNTY:

### Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 07/08/2014  
Date Data Arrived at EDR: 07/11/2014  
Date Made Active in Reports: 07/28/2014  
Number of Days to Update: 17

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 06/23/2014  
Next Scheduled EDR Contact: 10/06/2014  
Data Release Frequency: Quarterly

### Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 07/08/2014  
Date Data Arrived at EDR: 07/11/2014  
Date Made Active in Reports: 08/18/2014  
Number of Days to Update: 38

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 06/23/2014  
Next Scheduled EDR Contact: 10/06/2014  
Data Release Frequency: Quarterly

## SACRAMENTO COUNTY:

### Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/06/2014  
Date Data Arrived at EDR: 04/08/2014  
Date Made Active in Reports: 04/29/2014  
Number of Days to Update: 21

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 07/11/2014  
Next Scheduled EDR Contact: 10/20/2014  
Data Release Frequency: Quarterly

### Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/05/2014  
Date Data Arrived at EDR: 07/17/2014  
Date Made Active in Reports: 07/28/2014  
Number of Days to Update: 11

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 07/08/2014  
Next Scheduled EDR Contact: 10/20/2014  
Data Release Frequency: Quarterly

## SAN BERNARDINO COUNTY:

### Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/30/2014  
Date Data Arrived at EDR: 05/30/2014  
Date Made Active in Reports: 07/07/2014  
Number of Days to Update: 38

Source: San Bernardino County Fire Department Hazardous Materials Division  
Telephone: 909-387-3041  
Last EDR Contact: 08/07/2014  
Next Scheduled EDR Contact: 11/24/2014  
Data Release Frequency: Quarterly

## SAN DIEGO COUNTY:

### Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013  
Date Data Arrived at EDR: 09/24/2013  
Date Made Active in Reports: 10/17/2013  
Number of Days to Update: 23

Source: Hazardous Materials Management Division  
Telephone: 619-338-2268  
Last EDR Contact: 09/08/2014  
Next Scheduled EDR Contact: 12/22/2014  
Data Release Frequency: Quarterly

### Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2013  
Date Data Arrived at EDR: 11/19/2013  
Date Made Active in Reports: 12/31/2013  
Number of Days to Update: 42

Source: Department of Health Services  
Telephone: 619-338-2209  
Last EDR Contact: 07/22/2014  
Next Scheduled EDR Contact: 11/10/2014  
Data Release Frequency: Varies

### Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010  
Date Data Arrived at EDR: 06/15/2010  
Date Made Active in Reports: 07/09/2010  
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health  
Telephone: 619-338-2371  
Last EDR Contact: 09/08/2014  
Next Scheduled EDR Contact: 12/22/2014  
Data Release Frequency: No Update Planned

## SAN FRANCISCO COUNTY:

### Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008  
Date Data Arrived at EDR: 09/19/2008  
Date Made Active in Reports: 09/29/2008  
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County  
Telephone: 415-252-3920  
Last EDR Contact: 08/07/2014  
Next Scheduled EDR Contact: 11/24/2014  
Data Release Frequency: Quarterly

### Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010  
Date Data Arrived at EDR: 03/10/2011  
Date Made Active in Reports: 03/15/2011  
Number of Days to Update: 5

Source: Department of Public Health  
Telephone: 415-252-3920  
Last EDR Contact: 08/07/2014  
Next Scheduled EDR Contact: 11/27/2014  
Data Release Frequency: Quarterly

## SAN JOAQUIN COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/20/2014  
Date Data Arrived at EDR: 06/23/2014  
Date Made Active in Reports: 07/11/2014  
Number of Days to Update: 18

Source: Environmental Health Department  
Telephone: N/A  
Last EDR Contact: 06/19/2014  
Next Scheduled EDR Contact: 10/06/2014  
Data Release Frequency: Semi-Annually

## SAN LUIS OBISPO COUNTY:

### CUPA Facility List

Cupa Facility List.

Date of Government Version: 06/11/2014  
Date Data Arrived at EDR: 06/13/2014  
Date Made Active in Reports: 07/09/2014  
Number of Days to Update: 26

Source: San Luis Obispo County Public Health Department  
Telephone: 805-781-5596  
Last EDR Contact: 08/20/2014  
Next Scheduled EDR Contact: 12/08/2014  
Data Release Frequency: Varies

## SAN MATEO COUNTY:

### Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 04/03/2014  
Date Data Arrived at EDR: 04/04/2014  
Date Made Active in Reports: 05/01/2014  
Number of Days to Update: 27

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 09/15/2014  
Next Scheduled EDR Contact: 12/29/2014  
Data Release Frequency: Annually

### Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 06/16/2014  
Date Data Arrived at EDR: 06/19/2014  
Date Made Active in Reports: 07/10/2014  
Number of Days to Update: 21

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 09/15/2014  
Next Scheduled EDR Contact: 12/29/2014  
Data Release Frequency: Semi-Annually

## SANTA BARBARA COUNTY:

### CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011  
Date Data Arrived at EDR: 09/09/2011  
Date Made Active in Reports: 10/07/2011  
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department  
Telephone: 805-686-8167  
Last EDR Contact: 09/08/2014  
Next Scheduled EDR Contact: 12/08/2014  
Data Release Frequency: Varies

## SANTA CLARA COUNTY:

### Cupa Facility List

Cupa facility list

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/02/2014  
Date Data Arrived at EDR: 06/03/2014  
Date Made Active in Reports: 06/23/2014  
Number of Days to Update: 20

Source: Department of Environmental Health  
Telephone: 408-918-1973  
Last EDR Contact: 08/22/2014  
Next Scheduled EDR Contact: 09/15/2014  
Data Release Frequency: Varies

## HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005  
Date Data Arrived at EDR: 03/30/2005  
Date Made Active in Reports: 04/21/2005  
Number of Days to Update: 22

Source: Santa Clara Valley Water District  
Telephone: 408-265-2600  
Last EDR Contact: 03/23/2009  
Next Scheduled EDR Contact: 06/22/2009  
Data Release Frequency: No Update Planned

## LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014  
Date Data Arrived at EDR: 03/05/2014  
Date Made Active in Reports: 03/18/2014  
Number of Days to Update: 13

Source: Department of Environmental Health  
Telephone: 408-918-3417  
Last EDR Contact: 09/02/2014  
Next Scheduled EDR Contact: 12/15/2014  
Data Release Frequency: Annually

## Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 05/12/2014  
Date Data Arrived at EDR: 05/19/2014  
Date Made Active in Reports: 05/28/2014  
Number of Days to Update: 9

Source: City of San Jose Fire Department  
Telephone: 408-535-7694  
Last EDR Contact: 08/08/2014  
Next Scheduled EDR Contact: 11/24/2014  
Data Release Frequency: Annually

## SANTA CRUZ COUNTY:

### CUPA Facility List

CUPA facility listing.

Date of Government Version: 05/27/2014  
Date Data Arrived at EDR: 05/28/2014  
Date Made Active in Reports: 06/20/2014  
Number of Days to Update: 23

Source: Santa Cruz County Environmental Health  
Telephone: 831-464-2761  
Last EDR Contact: 09/08/2014  
Next Scheduled EDR Contact: 12/08/2014  
Data Release Frequency: Varies

## SHASTA COUNTY:

### CUPA Facility List

Cupa Facility List.

Date of Government Version: 06/10/2014  
Date Data Arrived at EDR: 06/12/2014  
Date Made Active in Reports: 06/20/2014  
Number of Days to Update: 8

Source: Shasta County Department of Resource Management  
Telephone: 530-225-5789  
Last EDR Contact: 08/26/2014  
Next Scheduled EDR Contact: 12/08/2014  
Data Release Frequency: Varies

## SOLANO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/19/2014  
Date Data Arrived at EDR: 06/26/2014  
Date Made Active in Reports: 07/25/2014  
Number of Days to Update: 29

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 09/15/2014  
Next Scheduled EDR Contact: 12/29/2014  
Data Release Frequency: Quarterly

## Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 06/19/2014  
Date Data Arrived at EDR: 06/26/2014  
Date Made Active in Reports: 07/25/2014  
Number of Days to Update: 29

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 09/15/2014  
Next Scheduled EDR Contact: 12/29/2014  
Data Release Frequency: Quarterly

## SONOMA COUNTY:

### Cupa Facility List

Cupa Facility list

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 01/02/2014  
Date Made Active in Reports: 02/11/2014  
Number of Days to Update: 40

Source: County of Sonoma Fire & Emergency Services Department  
Telephone: 707-565-1174  
Last EDR Contact: 06/26/2014  
Next Scheduled EDR Contact: 10/13/2014  
Data Release Frequency: Varies

## Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 07/01/2014  
Date Data Arrived at EDR: 07/03/2014  
Date Made Active in Reports: 07/28/2014  
Number of Days to Update: 25

Source: Department of Health Services  
Telephone: 707-565-6565  
Last EDR Contact: 06/26/2014  
Next Scheduled EDR Contact: 10/13/2014  
Data Release Frequency: Quarterly

## SUTTER COUNTY:

### Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 06/09/2014  
Date Data Arrived at EDR: 06/11/2014  
Date Made Active in Reports: 07/17/2014  
Number of Days to Update: 36

Source: Sutter County Department of Agriculture  
Telephone: 530-822-7500  
Last EDR Contact: 09/08/2014  
Next Scheduled EDR Contact: 12/22/2014  
Data Release Frequency: Semi-Annually

## TUOLUMNE COUNTY:

### CUPA Facility List

Cupa facility list

Date of Government Version: 05/16/2014  
Date Data Arrived at EDR: 05/16/2014  
Date Made Active in Reports: 06/13/2014  
Number of Days to Update: 28

Source: Division of Environmental Health  
Telephone: 209-533-5633  
Last EDR Contact: 08/08/2014  
Next Scheduled EDR Contact: 11/10/2014  
Data Release Frequency: Varies

## VENTURA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 04/28/2014	Source: Ventura County Environmental Health Division
Date Data Arrived at EDR: 05/20/2014	Telephone: 805-654-2813
Date Made Active in Reports: 05/27/2014	Last EDR Contact: 08/14/2014
Number of Days to Update: 7	Next Scheduled EDR Contact: 12/01/2014
	Data Release Frequency: Quarterly

## Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011	Source: Environmental Health Division
Date Data Arrived at EDR: 12/01/2011	Telephone: 805-654-2813
Date Made Active in Reports: 01/19/2012	Last EDR Contact: 07/01/2014
Number of Days to Update: 49	Next Scheduled EDR Contact: 10/13/2014
	Data Release Frequency: Annually

## Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008	Source: Environmental Health Division
Date Data Arrived at EDR: 06/24/2008	Telephone: 805-654-2813
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 08/13/2014
Number of Days to Update: 37	Next Scheduled EDR Contact: 12/01/2014
	Data Release Frequency: Quarterly

## Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 06/26/2014	Source: Ventura County Resource Management Agency
Date Data Arrived at EDR: 07/31/2014	Telephone: 805-654-2813
Date Made Active in Reports: 09/15/2014	Last EDR Contact: 07/28/2014
Number of Days to Update: 46	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Quarterly

## Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/27/2014	Source: Environmental Health Division
Date Data Arrived at EDR: 06/17/2014	Telephone: 805-654-2813
Date Made Active in Reports: 07/11/2014	Last EDR Contact: 09/17/2014
Number of Days to Update: 24	Next Scheduled EDR Contact: 12/29/2014
	Data Release Frequency: Quarterly

## YOLO COUNTY:

### Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 06/30/2014	Source: Yolo County Department of Health
Date Data Arrived at EDR: 07/07/2014	Telephone: 530-666-8646
Date Made Active in Reports: 08/18/2014	Last EDR Contact: 06/19/2014
Number of Days to Update: 42	Next Scheduled EDR Contact: 10/06/2014
	Data Release Frequency: Annually

## YUBA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 05/19/2014  
Date Data Arrived at EDR: 05/22/2014  
Date Made Active in Reports: 06/19/2014  
Number of Days to Update: 28

Source: Yuba County Environmental Health Department  
Telephone: 530-749-7523  
Last EDR Contact: 07/31/2014  
Next Scheduled EDR Contact: 11/17/2014  
Data Release Frequency: Varies

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013  
Date Data Arrived at EDR: 08/19/2013  
Date Made Active in Reports: 10/03/2013  
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 08/19/2014  
Next Scheduled EDR Contact: 12/01/2014  
Data Release Frequency: No Update Planned

### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 07/19/2012  
Date Made Active in Reports: 08/28/2012  
Number of Days to Update: 40

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 07/17/2014  
Next Scheduled EDR Contact: 10/27/2014  
Data Release Frequency: Annually

### NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/01/2014  
Date Data Arrived at EDR: 05/07/2014  
Date Made Active in Reports: 06/10/2014  
Number of Days to Update: 34

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 08/07/2014  
Next Scheduled EDR Contact: 11/17/2014  
Data Release Frequency: Annually

### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 07/21/2014  
Date Made Active in Reports: 08/25/2014  
Number of Days to Update: 35

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 07/18/2014  
Next Scheduled EDR Contact: 11/03/2014  
Data Release Frequency: Annually

### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 07/15/2014  
Date Made Active in Reports: 08/13/2014  
Number of Days to Update: 29

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 08/26/2014  
Next Scheduled EDR Contact: 12/08/2014  
Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013

Date Data Arrived at EDR: 06/20/2014

Date Made Active in Reports: 08/07/2014

Number of Days to Update: 48

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 09/15/2014

Next Scheduled EDR Contact: 12/29/2014

Data Release Frequency: Annually

**Oil/Gas Pipelines:** This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

### AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

### Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

### Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

### Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

### Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

### Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## STREET AND ADDRESS INFORMATION

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

GENERAL DYNAMICS  
2305 MISSION COLLEGE BOULEVARD  
SANTA CLARA, CA 95054

### TARGET PROPERTY COORDINATES

Latitude (North): 37.3893 - 37° 23' 21.48"  
Longitude (West): 121.9665 - 121° 57' 59.40"  
Universal Transverse Mercator: Zone 10  
UTM X (Meters): 591489.4  
UTM Y (Meters): 4138357.0  
Elevation: 27 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map: 37121-D8 MILPITAS, CA  
Most Recent Revision: 1980  
  
South Map: 37121-C8 SAN JOSE WEST, CA  
Most Recent Revision: 1980

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

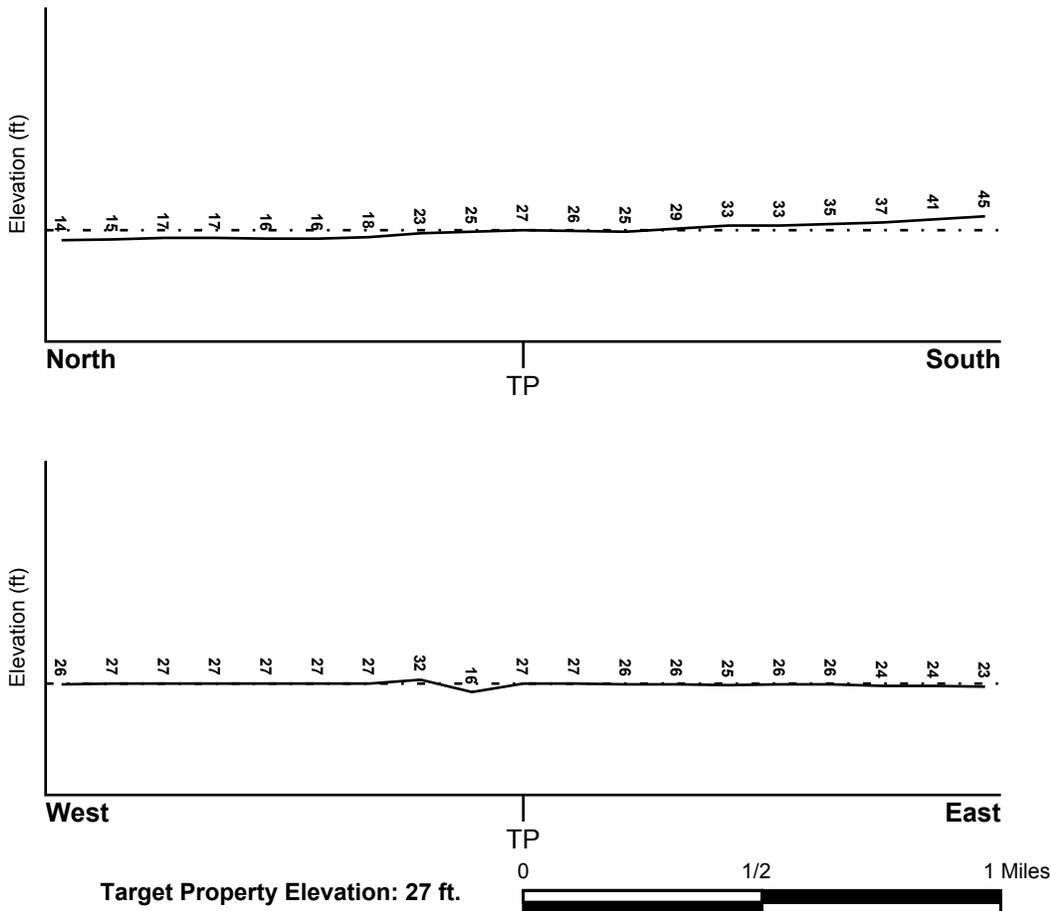
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNE

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## **FEMA FLOOD ZONE**

<u>Target Property County</u> SANTA CLARA, CA	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
--	--

Flood Plain Panel at Target Property: 06085C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u> MILPITAS	NWI Electronic <u>Data Coverage</u> YES - refer to the Overview Map and Detail Map
--	--

## **HYDROGEOLOGIC INFORMATION**

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### ***Site-Specific Hydrogeological Data\*:***

Search Radius:	1.25 miles
Location Relative to TP:	1/4 - 1/2 Mile SSE
Site Name:	Siliconix Inc
Site EPA ID Number:	CAD009131392
Groundwater Flow Direction:	NOT SPECIFIED, BUT A MONITORING WELL ON THE SOUTHERN SIDE OF THE SITE IS THE UP-GRADIENT WELL AND A MONITORING WELL ON THE NORTHERN SIDE OF THE SITE IS THE DOWN-GRADIENT WELL.
Measured Depth to Water:	15 feet.
Hydraulic Connection:	The surficial and lower aquifers are hydraulically connected.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information based on site-specific subsurface investigations is documented in the CERCLIS investigation report(s)

## **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

## GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

### **ROCK STRATIGRAPHIC UNIT**

Era: Cenozoic  
System: Quaternary  
Series: Quaternary  
Code: Q (*decoded above as Era, System & Series*)

### **GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

## **DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY**

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: BOTELLA  
Soil Surface Texture: clay loam  
Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.  
Soil Drainage Class: Not reported  
Hydric Status: Soil does not meet the requirements for a hydric soil.  
Corrosion Potential - Uncoated Steel: MODERATE  
Depth to Bedrock Min: > 60 inches  
Depth to Bedrock Max: > 60 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 0.60 Min: 0.20	Max: 7.30 Min: 5.60
2	9 inches	41 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 0.60 Min: 0.20	Max: 7.80 Min: 5.60
3	41 inches	76 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 0.60 Min: 0.20	Max: 7.80 Min: 5.60

### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: No Other Soil Types

Surficial Soil Types: No Other Soil Types

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: No Other Soil Types

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

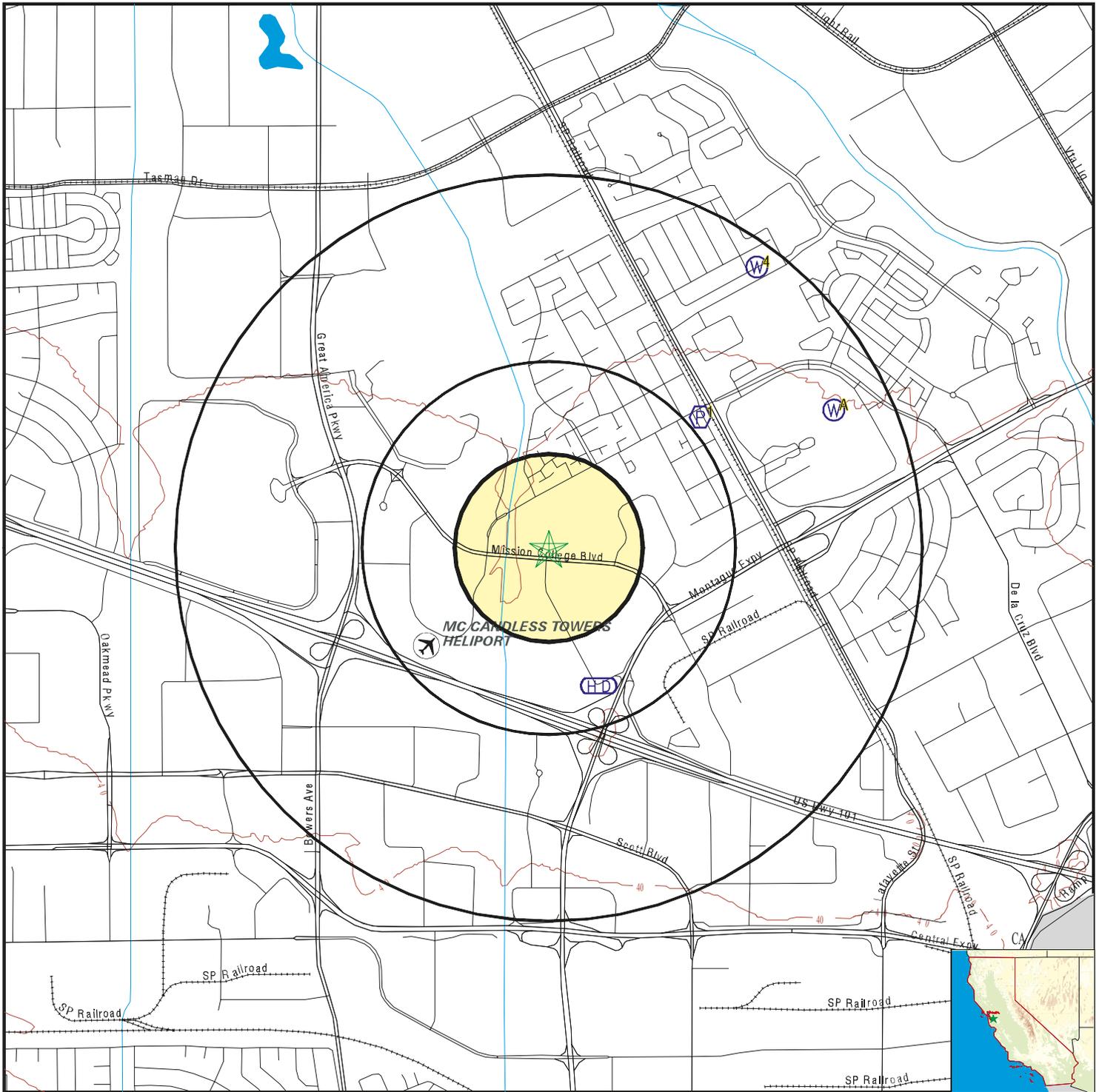
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	CA4300709	1/2 - 1 Mile NE

Note: PWS System location is not always the same as well location.

## STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A2	6844	1/2 - 1 Mile ENE
A3	6845	1/2 - 1 Mile ENE
4	6843	1/2 - 1 Mile NE

# PHYSICAL SETTING SOURCE MAP - 4070509.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: General Dynamics  
 ADDRESS: 2305 Mission College Boulevard  
 Santa Clara CA 95054  
 LAT/LONG: 37.3893 / 121.9665

CLIENT: WSP Environmental & Energy  
 CONTACT: Betsy Mitton  
 INQUIRY #: 4070509.2s  
 DATE: September 19, 2014 11:12 am

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**1**  
**NE**  
**1/2 - 1 Mile**  
**Lower**      **FRDS PWS**      **CA4300709**

PWS ID: CA4300709  
 Date Initiated: 8405      Date Deactivated: Not Reported  
 PWS Name: AGNEW STATE HOSPITAL - EAST  
 AGNEW STATE HOSPITAL - EAST  
 AGNEW, CA 95054

Addressee / Facility: System Owner/Responsible Party  
 AGNEW STATE HOSPITAL - EAST  
 ???  
 AGNEW, CA 95054

Facility Latitude: 37 23 40      Facility Longitude: 121 57 29  
 City Served: Not Reported  
 Treatment Class: Untreated      Population: 00001100

Violations information not reported.

**ENFORCEMENT INFORMATION:**

System Name: AGNEW STATE HOSPITAL - EAS  
 Violation Type: Initial Tap Sampling for Pb and Cu  
 Contaminant: LEAD & COPPER RULE  
 Compliance Period: 1993-07-01 - 2000-04-04  
 Violation ID: 95V0001  
 Enforcement Date: 2000-04-04      Enf. Action: State Compliance Achieved

System Name: AGNEW STATE HOSPITAL - EAS  
 Violation Type: Initial Tap Sampling for Pb and Cu  
 Contaminant: LEAD & COPPER RULE  
 Compliance Period: 1993-07-01 - 2000-04-04  
 Violation ID: 95V0001  
 Enforcement Date: 2000-04-04      Enf. Action: State Compliance Achieved

System Name: AGNEW STATE HOSPITAL - EAS  
 Violation Type: Initial Tap Sampling for Pb and Cu  
 Contaminant: LEAD & COPPER RULE  
 Compliance Period: 1993-07-01 - 2015-12-31  
 Violation ID: 95V0001  
 Enforcement Date: Not Reported      Enf. Action: Not Reported

**A2**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**      **CA WELLS**      **6844**

**Water System Information:**

Prime Station Code:	06S/01W-22J02 M	User ID:	HEN
FRDS Number:	4310801001	County:	Santa Clara
District Number:	05	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Inactive Untreated
Source Lat/Long:	372340.0 1215705.0	Precision:	100 Feet (one Second)
Source Name:	WELL 02 - INACTIVE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System Number: 4310801  
 System Name: Agnews Dev. Center - West Campus  
 Organization That Operates System:  
 1500 ZANKER ROAD  
 SAN JOSE, CA 95134  
 Pop Served: 1140  
 Area Served: Not Reported  
 Connections: 83

**A3**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS 6845**

**Water System Information:**

Prime Station Code: 06S/01W-22J03 M	User ID: HEN
FRDS Number: 4310801002	County: Santa Clara
District Number: 05	Station Type: WELL/AMBNT/MUN/INTAKE
Water Type: Well/Groundwater	Well Status: Inactive Untreated
Source Lat/Long: 372342.0 1215706.0	Precision: 100 Feet (one Second)
Source Name: WELL 03 - INACTIVE	
System Number: 4310801	
System Name: Agnews Dev. Center - West Campus	
Organization That Operates System: 1500 ZANKER ROAD SAN JOSE, CA 95134	
Pop Served: 1140	Connections: 83
Area Served: Not Reported	

**4**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS 6843**

**Water System Information:**

Prime Station Code: 06S/01W-22B01 M	User ID: HEN
FRDS Number: 4310012020	County: Santa Clara
District Number: 05	Station Type: WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type: Well/Groundwater	Well Status: Inactive Raw
Source Lat/Long: 372401.0 1215719.0	Precision: 1 Mile (One Minute)
Source Name: WELL 19 - INACTIVE	
System Number: 4310012	
System Name: City of Santa Clara	
Organization That Operates System: 1500 WARBURTON AVE SANTA CLARA, CA 95050	
Pop Served: 94925	Connections: 23702
Area Served: SANTA CLARA CITY	

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: CA Radon

### Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
95054	9	0

Federal EPA Radon Zone for SANTA CLARA County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.  
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.  
 : Zone 3 indoor average level < 2 pCi/L.

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Federal Area Radon Information for Zip Code: 95054

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.700 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

#### California Drinking Water Quality Database

Source: Department of Public Health

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

## OTHER STATE DATABASE INFORMATION

#### California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

Oil and Gas well locations in the state.

### RADON

#### State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### OTHER

Airport Landing Facilities: Private and public use landing facilities  
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater  
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

### STREET AND ADDRESS INFORMATION

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## Appendix E – Historical Information



## **WSP**

11190 Sunrise Valley Drive  
Suite 300  
Reston, VA 20191  
Tel: +1 703 709 6500  
Fax: +1 703 709 8505  
[www.wspgroup.com/usa](http://www.wspgroup.com/usa)



## **Appendix F**

### **500-Year and 1000-Year Floodplain Analysis**

## MEMORANDUM

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TO: Keith Dines  
Aligned Data Centers

DATE: September 30, 2016

FROM: Caitlin Gilmore, PE

JOB#: ALGN.01.16

SUBJECT: San Tomas Aquino 500-year and 1000-year Floodplain Analysis

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### Summary

The project is located in FEMA flood Zone X (Shaded) representing areas protected by inundation from the 100-year flood by a levee and Zone AH(23), which is an area of ponding with an established 100-year base flood elevation of 23 feet NAVD88 per Flood Insurance Rate Map (FIRM) panel 06085C0064H. The flood zones are a result of spills from San Tomas Aquino Creek. We understand it is the owner's intent to place the proposed structures above the 500-year and 1000-year water surface elevations.

Schaaf & Wheeler developed an HEC-RAS model of San Tomas Aquino Creek coupled with a FLO2D overland flow model for the Santa Clara Valley Water District (SCVWD) under separate contract. The project's limit of study was south (upstream) of Highway 101. The modeling and mapping was submitted to and approved by FEMA as meeting their standards for analysis and mapping in 2014. It has not yet been adopted as the effective FEMA FIRM, and there are no immediate plans to do so, but is the best available floodplain data for the creek upstream of Highway 101. Adjacent to the project site, the effective model for San Tomas Aquino is a steady state HEC-RAS model. The effective Flood Insurance Study (FIS), effective FIRM and new SCVWD HEC-RAS and FLO2D models reflect only the 100-year event. There is no published data regarding the 500- or 1000-year events. This analysis extrapolates the 100-year to the 500- and 1000-year storm events. The steady-state HEC-RAS model adjacent to the project site downstream of Highway 101 and the SCVWD unsteady HEC-RAS/FLO2D model were converted into one combined unsteady HEC-RAS5.0 model with two dimensional overland flow routing to estimate the 500- and 1000-year base flood elevations (BFEs) at the project site. Note that this study does not include a levee failure analysis for San Tomas Aquino Creek levees. All creek bank levees are assumed to hold, even if freeboard is not sufficient per FEMA LAMP (Levee Analysis and Mapping Approach) standards.

**If the concrete median barrier on Highway 101 remains a barrier to flow, spill from San Tomas Aquino Creek would not reach the project site in a 1000-year flood event. If, however, it is very conservatively assumed that concrete barrier were to fail completely or be assumed not to exist, the highest water surface elevation (WSE) on the Site resulting from the analysis described herein would be 24.3 feet NAVD88. This represents approximately 1.3 feet of flooding on-site, with up to 4.5 feet of ponding in the rear (north) parking area based on existing ground elevations.**

## **Floodplain Analysis Methodology**

The following outlines the methodology for determining the 500-year and 1000-year return period hydrology and resulting floodplain mapping for the Aligned Data Center Project located at 2305 Mission College Boulevard.

### **Hydrology**

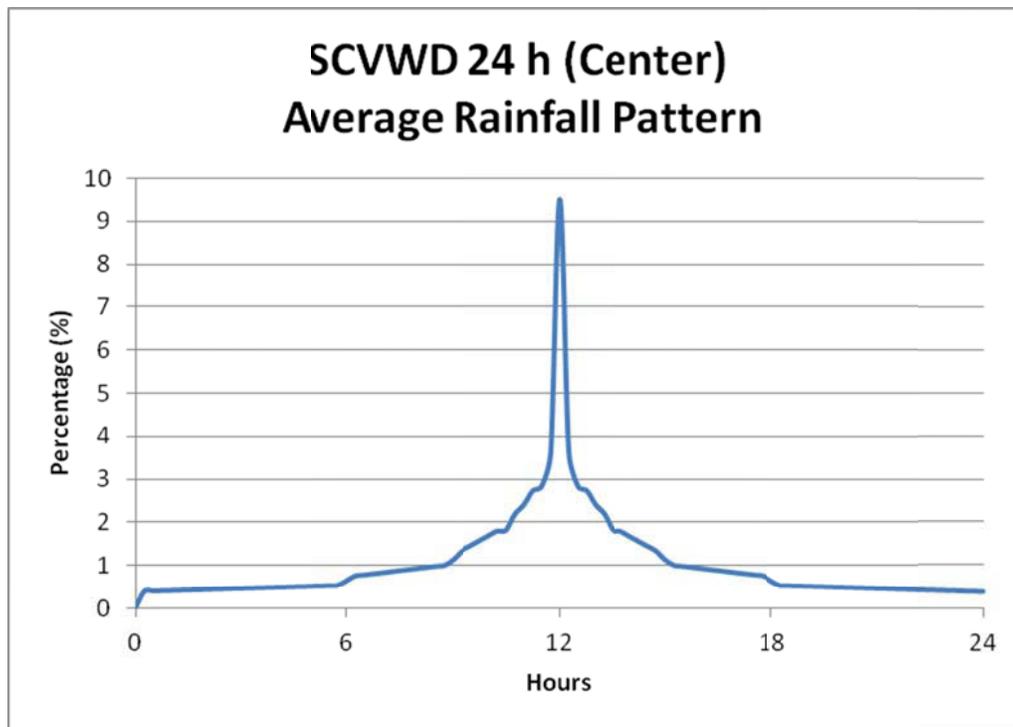
Hydrology involves the calculation and estimation of creek flow (or discharge or stormwater runoff) rates based on precipitation that occurs during a storm event with a certain recurrence interval (or return period). Flow hydrographs depend on the amount of precipitation that falls over a particular duration, the intensity of that precipitation, how that intensity is distributed over time (a rainfall pattern) and how saturated the watershed's soils are at the beginning of the storm.

Hydrologic models developed by the SCVWD and previously submitted to FEMA in the HEC-HMS Hydraulic Modeling Software platform for the 100-year design storm have been modified to evaluate the 500-year and 1000-year design storms by rebalancing rainfall patterns to reflect local rainfall intensity-duration-frequency statistics and calibrate what is known as "Antecedent Moisture Condition" to the same flood frequency analysis previously used to produce the 100-year runoff estimates.

### ***Rainfall Pattern Balancing***

One rainfall pattern is used in the HEC-HMS model for the 100-year hydrologic analysis. The pattern consists of a 24-hour rainfall distribution at 15 minute intervals and was developed for the entire Santa Clara Valley Water District (SCVWD) watershed. The rainfall pattern has the peak rainfall intensity at the center of the distribution (i.e. at 12 hours) as shown in Figure 1. The pattern was developed by SCVWD using average values of yearly peaks for all 40 SCVWD precipitation gage recorded data within the SCVWD watershed.

The 24-hour rainfall distribution is balanced to preserve local rainfall intensity-duration-frequency statistics based on the 2013 SCVWD regression equations for 500-year and 1000-year return periods. The resulting balanced rainfall patterns have been incorporated into the respective HEC-HMS models for analysis on the 500-year and 1000-year return periods based on the local Mean Annual Precipitation (MAP). Thus while the rainfall statistics for the 500-year and 1000-year return periods have not been evaluated by FEMA, the 500-year and 1000-year design storms used in this analysis are consistent with FEMA-approved methods and local rainfall statistics.



**Figure 1: SCVWD 24-Hour Duration Rainfall Distribution**

**Adjusted Rainfall Depths**

The precipitation depth values were also adjusted for each new return period. The 100-year precipitation depths were used to back calculate the mean annual precipitation (MAP). The MAP was then used to calculate the 500-year and 1000-year precipitation depth values using the 2013 SCVWD regression statistics. The adjusted values were updated in the respective HEC-HMS models.

**AMC Calibration**

Similar to the Saratoga-San Tomas Aquino Creek Hydrology Report<sup>1</sup>, the Flood Frequency Analysis (FFA) 0.2% (500-year) and 0.1% (1000-year) flow rates at gage stations SF 24 and SF 25 are used as guidance for adjusting the Antecedent Moisture Condition (AMC) values for the HEC-HMS model simulation. The AMC (I, II, III) is a function of ground moisture conditions, varying under each event. Therefore, AMC must be adjusted for each model simulation. The HEC-HMS output is compared to the FFA results when using the previously calibrated AMC 1.25. It is determined for the 500-year and 1000-year return periods that the AMC of 1.25 is also appropriate for the 500-year and 1000-year return periods (see Table 1) as modeled discharge estimates are within 14 percent of the flood frequency analysis. This is well within an acceptable accuracy for hydrologic modeling.

**Table 1: FFA and HMS predicted 0.2% and 0.1% Flow Rate Comparison**

Station	0.2%			0.1%		
	FFA	HMS	HMS/FFA	FFA	HMS	HMS/FFA
SF 24	4700	5391	1.14	5000	5632	1.12
SF 25	6300	6446	1.02	7000	6796	0.97

<sup>1</sup> Santa Clara Valley Water District, Schaaf & Wheeler, *Saratoga-San Tomas Aquino Creeks Hydrology Report*, May 2, 2013.

## Hydraulics

The unsteady RAS model developed for the San Tomas Aquino Flood Study is imported into HEC-RAS version 5.0.1 to model the 2-D overland flow. The model extends from Virginia Avenue at the upstream end to Highway 101 at the downstream end. An additional HEC-2 model covering the channel downstream of Highway 101 is georeferenced and added to the San Tomas Aquino Creek model. The vertical datum for the HEC-RAS analysis is feet NAVD 88.

Two-dimensional flow areas are added to the HEC-RAS model to facilitate overland flow mapping. Lateral structures at spill locations are also added along the bank stations which facilitate the transfer of excess channel flow between the 1-D channel reach and 2-D flow area. Weir coefficients for lateral structures are selected based upon guidance from the Army Corps of Engineers reference manual and are shown in Table 2.

**Table 2: Weir Coefficients used for Lateral Structures**

Modeled Lateral Structure Type	Description	Range of Weir Coefficients	Coefficient Used
Levee 3 feet higher or more above natural ground.	Broad crested weir shape. Flow over levee acts like weir flow.	1.5 – 2.2	n/a
Levee 1 to 3 feet elevated above ground.	Broad crested weir shape. Flow over levee acts like weir flow but submerged easily.	1.0 – 2.0	1.0
Natural high ground barrier 1 to 3 feet high.	Does not really act like a weir, but must flow over high ground to get into 2D or storage area.	0.5 – 1.0	n/a
Non-elevated overbank terrain.	Overland flow escaping the main channel.	0.1 – 0.5	0.2

Three plans are created to model the various return periods along San Tomas Aquino Creek. The developed plans and the corresponding geometry and flow files are shown in Table 3.

**Table 3: HEC-RAS Project Files**

PLAN	GEOMETRY FILE	UNSTEADY FLOW FILE
San Tomas 100 Year (.p02)	San Tomas Creek (.g01)	San Tomas 100 Year (.u02)
San Tomas 500 Year (.p03)	San Tomas Creek (.g01)	San Tomas 500 Year (.u03)
San Tomas 1000 Year (.p04)	San Tomas Creek (.g01)	San Tomas 1000 Year (.u04)

### **Boundary Condition**

The downstream boundary condition at the established limit of study is the water surface elevation. One boundary condition is used for all three plans in Table 3. Water surface elevations at this location are based on the effective FIS model for San Tomas Aquino Creek between U.S. Highway 101 and San Francisco Bay. The HEC-2 model, obtained from the Santa Clara Valley Water District, is imported to HEC-RAS and modified only as needed to examine water surface profiles that result from changes in base flood discharges due to the revised hydrologic and upstream hydraulic analyses referenced herein. The

base hydrology has changed and discharges within the lower reaches of San Tomas Aquino Creek have changed due to upstream capacity restrictions and spill from the channel.

The effective FIS hydraulic model for San Tomas Aquino Creek uses the mean higher-high water tide elevation at San Francisco Bay as its downstream boundary condition. A coincident one-percent tide analysis has been performed to establish the downstream boundary at San Francisco Bay, thereby updating the study to be consistent with other recently completed flood hazard studies for watercourses tributary to San Francisco Bay.

A 19-year mean tide cycle has been established for San Francisco Bay and other geographical locations on the West Coast. This cycle represents average tide heights over a specific period known as the tidal epoch, which spans the 19 years it takes for every possible combination of relative positions for the sun, moon and earth to occur. A mixed tide cycle predominates on the West Coast of the United States. This cycle consists of two high tides (one higher than the other) and two low tides (one lower than the other) each lunar day.

Based on calculations for these relative celestial positions, it is possible to predict tides for any day of the year at any time of the day. Astronomic tides, created by the gravitational forces of the moon and sun acting on earth's oceans, are provided in tide prediction calendars. The mean tide cycle is simply the long-term average of astronomic tides. Observed tides, on the other hand, are actual tidal elevations recorded by National Oceanic and Atmospheric Administration (NOAA) gaging stations located throughout coastal areas.

Traditionally, as is the case for the effective FIS model for San Tomas Aquino Creek, Mean Higher High Water (MHHW) has been used as the backwater condition where riverine (freshwater) runoff meets an estuarine (saltwater) body.

However, evidence shows that mean tide elevations are not necessarily an appropriate boundary condition during storm events and tide elevations in San Francisco Bay are elevated (relative to predicted tides) during periods of heavy rainfall. Furthermore, the relationship between coincident tides and maximum annual runoff can be quantified and used in the model, providing for a more statistically correct solution than an arbitrarily selected tide condition.

The El Niño storm of February 2-3, 1998 provided an ideal event for examining potential correlations between runoff events and tide action. While stream runoff as measured by local gages often approached historic recorded levels, observed tides in San Francisco Bay were substantially higher than predicted.

Figure 2 shows predicted and recorded tides in early February 1998 at Redwood City, which has the closest NOAA tide gage to San Tomas Aquino Creek. Recorded tides during the week of this runoff event were consistently higher (on the order of up to 4 feet) than the astronomic (predicted) tide heights due to storm surge. As a control, observed tide heights are compared to predicted tides six months later at the same station, using the same sets of data. Figure 3 shows tide elevations during early August 1998, when there is very close agreement between the predicted and the actual tides and no rainfall. Both figures present tides on the local Mean Lower Low Water (MLLW) datum.

Historic tide records have been examined to see whether the phenomenon demonstrated in February 1998 at Redwood City occurred elsewhere in the Bay Area and during other heavy runoff events in the past. Results of this investigation presented in Table 4 indicate that during the 1998 runoff event, similar rises in tide elevations (over astronomic) were experienced at other recording tide stations in the Bay.

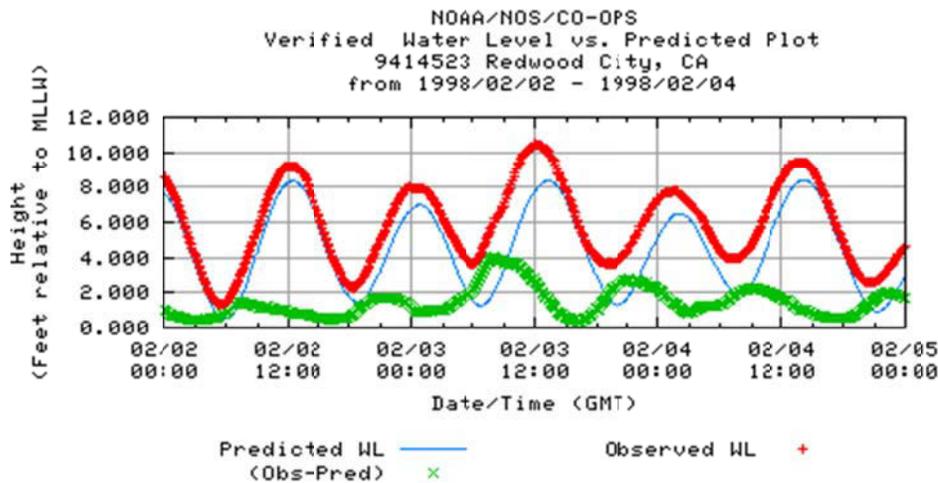


Figure 2 – San Francisco Bay Tide during Feb 2-3, 1998 Storm Event

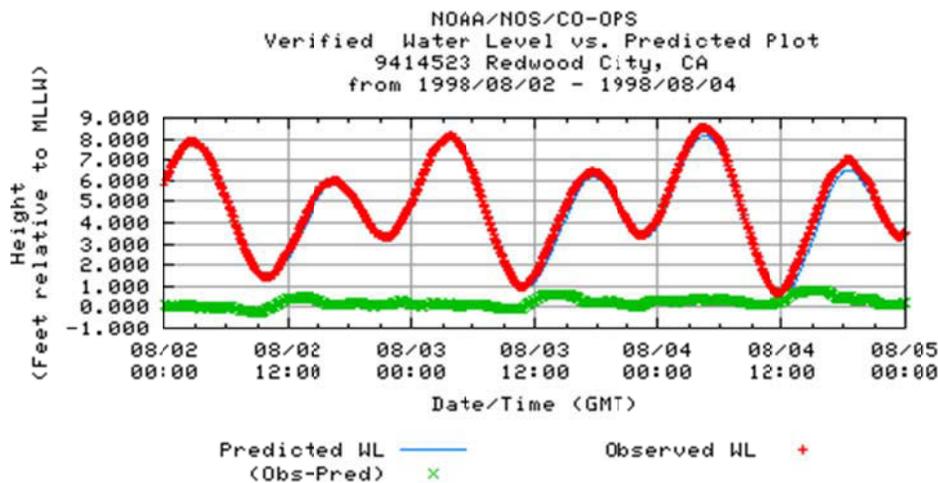


Figure 3 – San Francisco Bay Tide during early August 1998

Table 4 Tides During February 1998 Storm Surge

Location	Maximum Difference Between Predicted and Recorded Tides in Feet	
	Higher High	Lower Low
Golden Gate	2.0	2.9
Alameda	2.0	2.7
Redwood City	2.0	2.7
Monterey Harbor	1.7	1.8

The observed phenomenon presented in Table 4 is not strongly dependent upon tide gage location, particularly within San Francisco Bay, and is exhibited during many historic storm events. Data indicate that higher tides as observed during the February 1998 event are not an isolated incident; rather, higher than predicted tides can be expected during storm events that generate significant runoff. Increases in the data set between observed tides over predicted tides range from 0.3 foot to 2.0 feet for the higher high tide, and from 0.9 foot to 3.0 feet for the lower low tide.

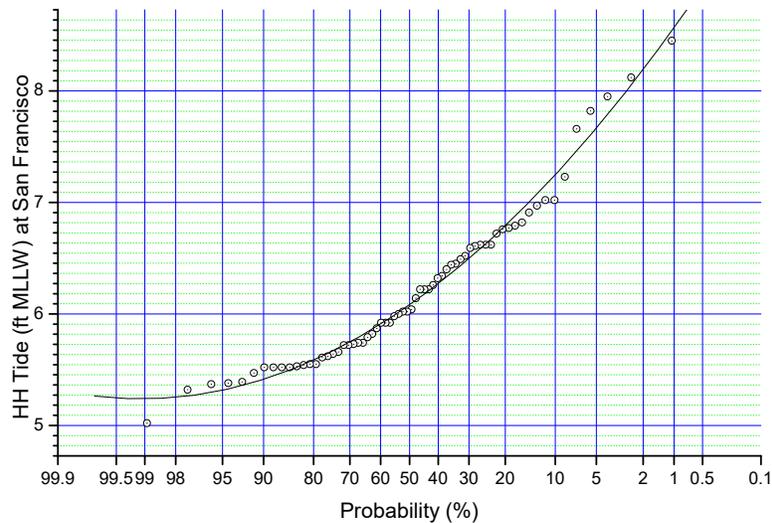
From observed historical data, it appears that storm-related forces induce higher tides during rainfall events, and by extension, runoff events. This phenomenon may be due to a number of meteorological or hydrologic factors. NOAA refers to the term "inverse barometer effect", and defines it as higher tides that are caused by lower barometric pressures associated with winter storm systems. References to "storm surges", the meteorological effects of low barometric pressures and/or strong southerly winds, are also found in the literature.

The exact nature and cause of this phenomenon, however, are not as important as potential impacts to backwater conditions for San Tomas Aquino Creek. To model an appropriate San Francisco Bay tide for the one percent storm event, the higher-high tide elevation is adjusted based on the one-percent conditional probability of coincident occurrence with the annual maximum discharge of San Francisquito Creek at Stanford, which represents the closest USGS streamflow gaging location with sufficient length of record for analysis. This procedure is as described by Dixon (1986), whose hypothesis was that high tide events tend to occur the same day as flood flow events using conditional probability:

$$P(x,y) = P(x|y) P(y)$$

where  $P(x,y)$  is the probability of occurrence of  $x$  and  $y$ ;  $P(x|y)$  is the probability of occurrence of  $x$  given  $y$ ;  $P(y)$  is the probability of occurrence of  $y$ ;  $x$  is tide elevation; and  $y$  is maximum annual peak discharge. Since we are interested only in annual maximum discharges,  $P(y)$  is one and the probability of joint occurrence,  $P(x,y)$ , is equal to the probability of  $x$  given  $y$ .

The Higher High tide is taken from a fitted probability curve using the median plotting position for every recorded tide extreme at San Francisco (Presidio/Golden Gate) that occurred within 24 hours of the recorded maximum annual discharge. Figure 4 shows the probability distribution on the MLLW datum.



**Figure 4 – Coincident Tide at San Francisco**

The coincident one-percent high tide elevation at San Francisco is 8.63 feet MLLW. A tide elevation at the Golden Gate can be corrected for location within San Francisco Bay. The correction near the mouth of San Tomas Aquino Creek is to add 2.6 feet to high tides. On the MLLW datum, the coincident one-percent tide for Stevens Creek is 11.23 feet. By subtracting 4.1 feet, the tide is converted to 7.13 NGVD29 (USACE, 1984).

Using the Vertcon software, 2.68 feet are added at this location to produce a coincident one-percent high tide at the mouth of San Tomas Aquino Creek of 9.8 feet NAVD88, which is rounded to 10 feet NAVD88 for the downstream boundary condition.

Extrapolating the curve in Figure 4, and using the same conversion discussed above, the coincident 0.2% and 0.1% tides are approximately 10.5 and 10.8 feet NAVD88 respectively.

The timing of coincident tide elevations with peak rainfall/runoff is also a random process. Since there are not sufficient data to statistically analyze the impact of tide timing, it is assumed that peak riverine discharge occurs during the coincident high tide. During the February 1998 event, this essentially turned out to be the case.

## Results

The 500- and 1000-year return period floodplains do not reach the project site along Mission College Boulevard as shown in Figures 6 and 7. This is primarily due to channel capacity restrictions upstream of Highway 101 along with the assumption that the center barrier along Highway 101 does not fail during flooded conditions. This is a reasonable assumption as there is no method of failure for the concrete median.



**Figure 5: Highway 101 Concrete Median**

However, if the concrete median on the centerline of Highway 101 were to fail (unlikely), a maximum WSE results on-site as shown in Table 5 results. Note, that this is a very conservative assumption as there is no method of failure per FEMA Levee Analysis and Mapping Approach (LAMP) standards. The WSE and depth are presented graphically in Figures 7-10.

**Table 5: Maximum Water Surface Elevation (WSE) with Failed Highway 101 Median Barrier**

Return Period	WSE On-Site (feet NAVD)	Max Depth On-Site (feet)	WSE In San Tomas Aquino Creek at Site Location (feet NAVD)
500-year	24.2	4.5	27.6
1000-year	24.3	4.6	27.7

Note that this study assumes that the levee adjacent to the Site holds during all flood events. The maximum water surface elevation contained in the channel is presented in Table 5.

The capacity of the bridge at Highway 101 limits the creek flows such that there are no downstream spills, even during the 500- and 1000-year events. Additionally, downstream inflows into the creek are controlled by pump stations with limited capacity.

The project site is well above the tidal flooding from the Bay. The maximum 0.1% tide is approximately elevation 10.8 feet NAVD88. Additionally, these results are not sensitive to the downstream boundary condition, as the site is above tidal influence and capacity is restricted by Highway 101.



Figure 6: 500-year Depth (with Highway 101 Median)



Figure 7: 1000-year Depth (with Highway 101 Median)

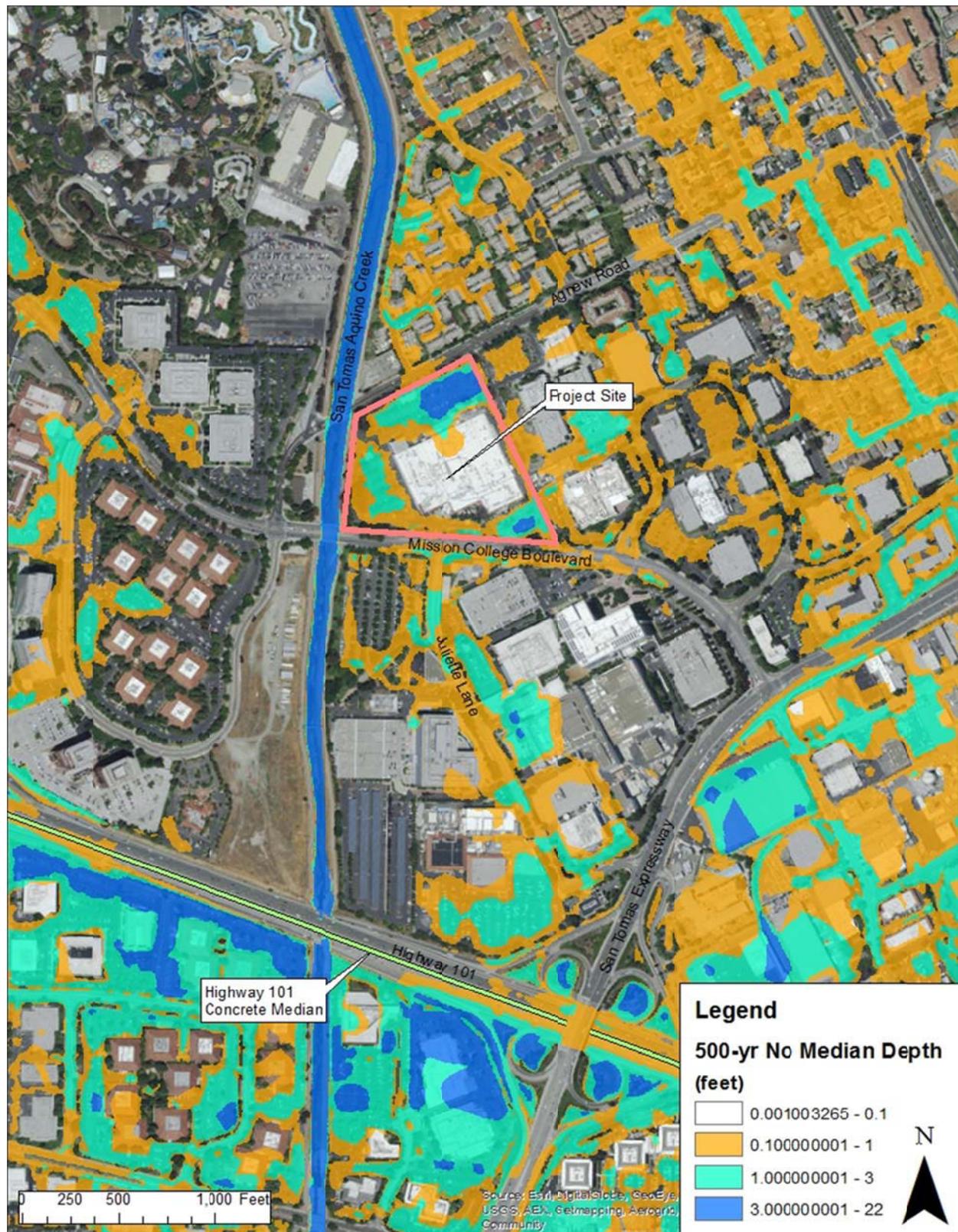


Figure 8: 500-year Depth (No Highway 101 Median)





Figure 10: 1000-year Depth (No Highway 101 Median)



**Appendix G**  
**Noise Assessment**



Standby backup emergency electrical generators will be installed. A total of 120 diesel-fueled engine generators will be located within a screened generator yard west of the data center building, adjacent to San Tomas Aquino Creek (highlighted in red in Figure 2 below). The generators will be packaged as 24 powerblocks containing five generators each. Interim emergency power will be provided by battery systems (37 PCS and 3 PES modules) in the switchgear yard to the north of the building (highlighted in blue in Figure 2).



Figure 2: Site Plan showing proposed building and equipment

Cooling capacity for the data center will be provided by approximately 144 chillers on the roof of the proposed building. The proposed layout of the rooftop mechanical equipment is shown in Figure 3 below.

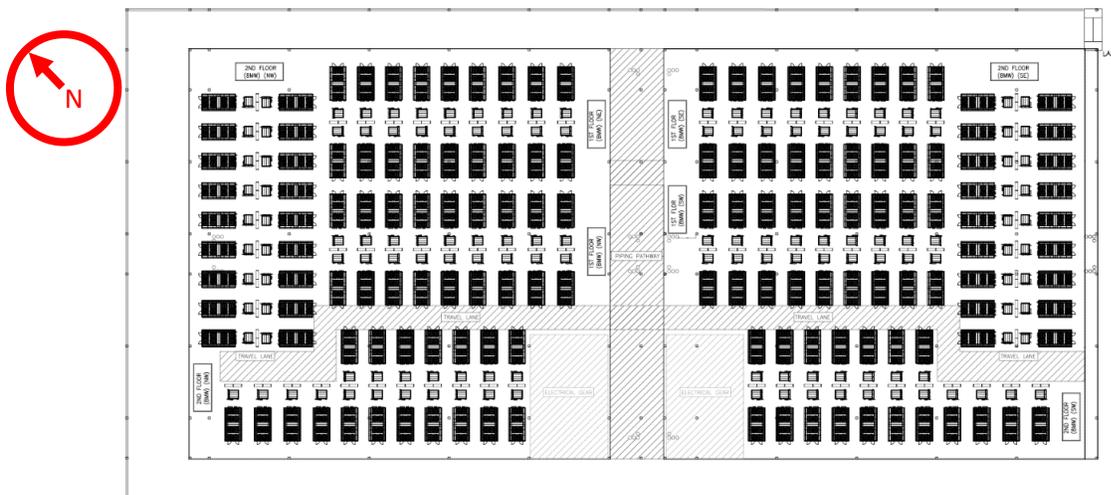


Figure 3: Proposed layout of rooftop equipment

## 2. Noise Criteria

This section documents the environmental noise criteria and code requirements applicable to the project site.

### 2.1. Santa Clara Municipal Code

SCCC 9.10.040 of the Santa Clara Municipal Code establishes exterior noise limits for different zoning categories. This code section and Schedule A are reproduced below:

*It shall be unlawful for any person to operate or cause to allow to be operated, any fixed source of disturbing, excessive or offensive sound or noise on property owned, leased, occupied or otherwise controlled by such person, such that the sound or noise originating from that source causes the sound or noise level on any other property to exceed the maximum noise or sound levels which are set forth in Schedule A, as follows:*

<b>Schedule A Exterior Sound or Noise Limits</b>		
<b>Receiving Zone</b>	<b>Time Period</b>	<b>Noise Level (dBA)</b>
<b>Category 1</b>  Single-family and duplex residential (R1, R2)	Commencing at 7:00 A.M. and ending at 10:00 P.M. that evening	55
	Commencing at 10:00 P.M. and ending at 7:00 A.M. the following morning	50
<b>Category 2</b>  Multiple-family residential, public space (R3, B)	Commencing at 7:00 A.M. and ending at 10:00 P.M. that evening	55
	Commencing at 10:00 P.M. and ending at 7:00 A.M. the following morning	50
<b>Category 3</b>  Commercial, Office (C, O)	Commencing at 7:00 A.M. and ending at 10:00 P.M. that evening	65
	Commencing at 10:00 P.M. and ending at 7:00 A.M. the following morning	60
<b>Category 4</b>  Light Industrial (ML, MP)  Heavy Industrial (MH)	Anytime	70
	Anytime	75

**Table 1: Santa Clara Municipal Code Noise Limits, Schedule A**

The code then goes on to state:

*Except as otherwise provided in this chapter, the noise or sound standards for the various zone districts as presented in this Schedule A shall apply to all such properties within a specified zone, as designated on the most recent update of the official zoning map of the City. For planned development, agricultural or mixed zoning site, the most restrictive noise standard for the comparable zone district, as determined by the Director of Planning and Inspection, shall apply. (Ord. 1588 § 1, 6-14-88. Formerly § 18-26.4).*

## 2.2. Santa Clara Zoning Map

Figure 4 provides a zoning map of the project site and surrounding area.



**Figure 4:** Santa Clara Zoning Map indicating Project Site Zoning

The project site is zoned as light industrial. There are light industrial receivers to the East, and residential and public space receivers to the North and West. Receivers to the South are zoned as ‘Planned Development’. The current occupants of the planned development area are office buildings; therefore, the most-stringent comparable zone district for this property line would be Category 3 (i.e. Commercial/Office).

## 2.3. Summary of Noise Criteria

Noise levels due to project equipment should not exceed the following levels at each property line:

Property Line	Daytime Noise Limit [dBA]	Nighttime Noise Limit [dBA]
1. Residential to North	55	50
2. Public Space to West	55	50
3. Light Industrial to East	70	70
4. Planned Development to South	65	60

**Table 2:** Noise Limits at Each Property Line

### 3. Environmental Sound Level Measurements

#### 3.1. Site visit details

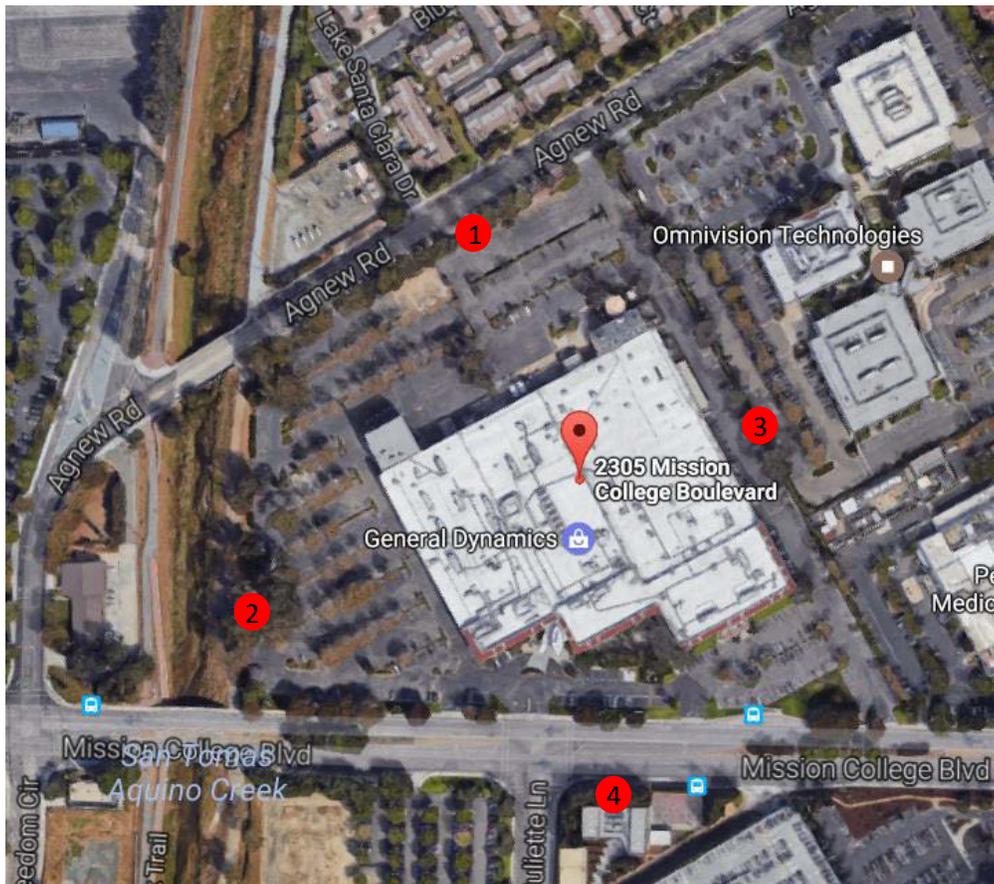
MWA personnel visited the project site to measure existing ambient noise levels. Table 3 provides details of the site visit.

Time - Date	4/13/17 3:00PM – 4/14/17 3:00PM
Personnel	William Rosentel (MWA)
Equipment	Four (4) CESVA SC160 Type 2 Sound Level Meters Norsonic Type 1251 Sound Calibrator
Time interval	1-minute intervals for 24 continuous hours
Metric	A-weighted Equivalent Noise Level (dBA)

**Table 3:** Site Visit Details

#### 3.2. Measurement Procedure

Sound level meters were installed near the property lines of each adjacent receiver. Figure 5 shows the measurement locations (red dots) over a satellite image of the current site. The sound level meters recorded A-weighted  $L_{eq}$ ,  $L_1$ ,  $L_5$ ,  $L_{10}$ ,  $L_{50}$ ,  $L_{90}$ ,  $L_{95}$ , and  $L_{99}$  levels every one (1) minute for a period of 24-hours. The meters were calibrated and equipped with windscreens.

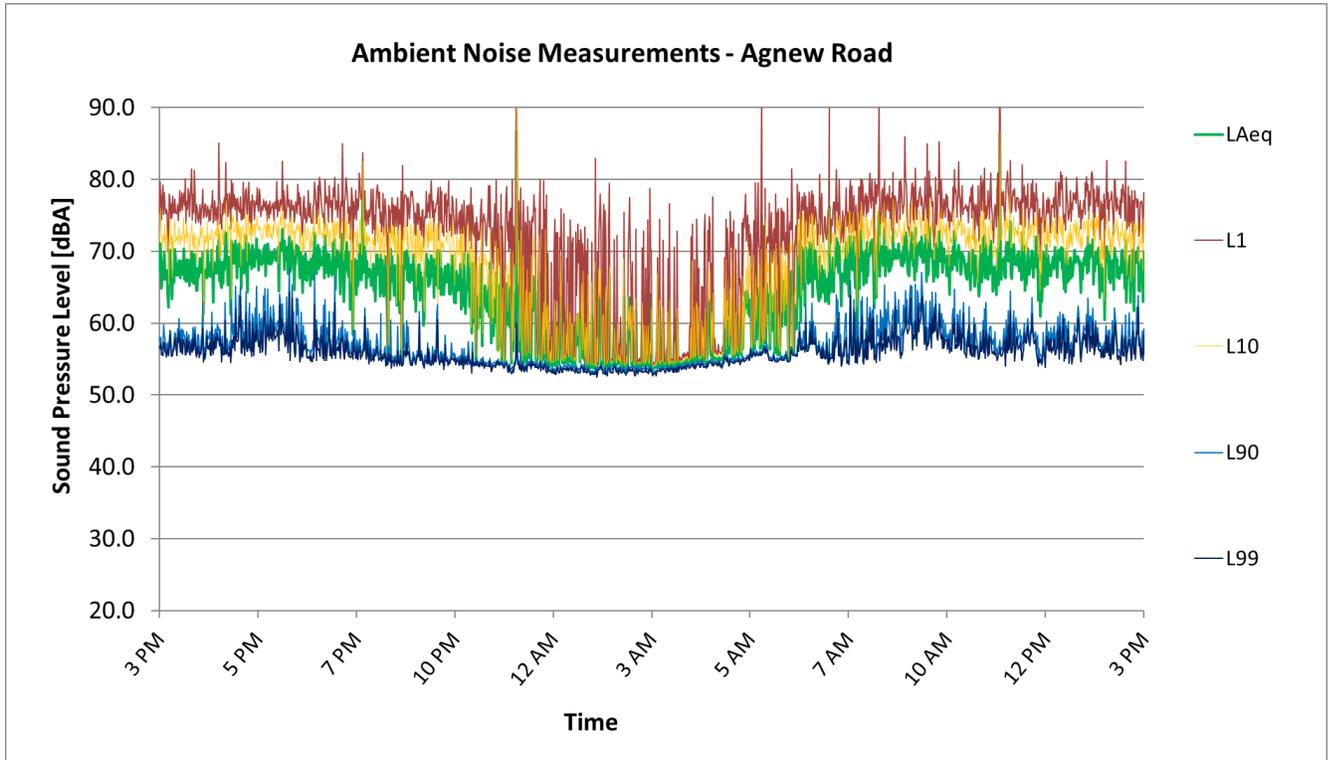


**Figure 5:** Sound Level Meter Measurement Locations

Ambient sounds consisted of traffic noise from the nearby Mission College Blvd, construction occurring in the planned development area to the south of the project site, and airplane noise from the San Jose Airport. Given the primary noise sources on site, the chosen locations represent the noise environment at the property line of each adjacent receiver.

### 3.3. Measurement Results

MWA visited the project site to conduct ambient environmental sound level measurements. Measurements were gathered for 24 hours in one-minute intervals. Figure 6 provides the ambient noise measurements from Location 1 near Agnew Road. All measurements indicated are given in A-weighted decibels (dBA). Measurement data for each location are included in the Appendix.



**Figure 6:** Environmental Sound Level Measurements (Location 1): 04/13/17 – 04/14/17

The LAeq is the equivalent sound pressure level for the 1-minute measurement period. L1/10/L90/L99 are statistical distributions – for example, L10 indicates the noise level that was exceeded for 10% of that measurement period (i.e. 10% of 1 minute), whereas L90 indicates the noise level that was exceeded for 90% of that measurement period. L99 & L90 are considered representative of the steady background sound levels, whereas L1 & L10 may suggest more infrequent and transient activities in the environment (door slams, car alarms, dog barking, etc.).

The median L90 at measurement location 1 was 56.3 dBA and may be considered representative of the ambient noise level at that location. Table 4 provides the ambient noise level (median L90) and day-night average noise level (Ldn) of each measurement location.

Measurement Location	Ambient Level (Median L90) [dBA]	Day-Night Average Noise Level (Ldn) [dBA]
1. Agnew Road	56.3	71.6
2. Public Space	55.2	64.9
3. Offices	51.9	64.8
4. Mission College Blvd	56.2	70.8

**Table 4:** Noise Measurements for each Location during Measurement Duration

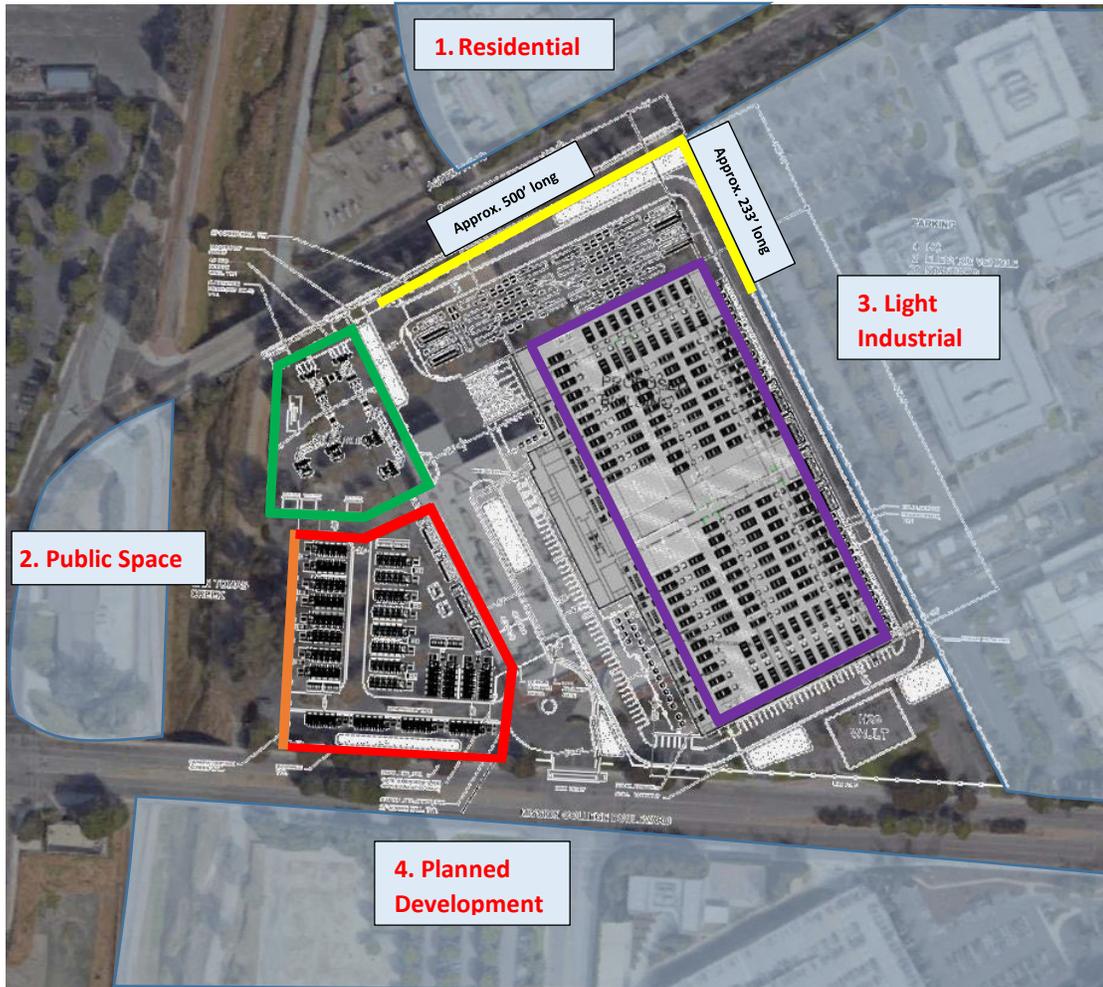
#### 4. Calculation and Prediction of Noise Impacts to Property Lines and Nearest Receivers

The client provided manufacturer estimated sound levels for the outdoor mechanical equipment. The sound levels were either sound pressure levels or sound power levels (depending on the equipment), which were used to calculate the resulting sound pressure level at the nearest receivers of the adjacent property lines. Table 5 provides the sound power levels for each equipment accounted in the study.

Equipment	Location	Sound Power of Each Unit LwA [dBA]	Qty
<b>Powerblock (includes 5 generators)</b>	Generator Yard	111	24
<b>PCS Module</b>	Switchgear Yard	77 (steady-state) / 90 (run-state)	37
<b>PES Module</b>	Switchgear Yard	93	3
<b>Cactus Chiller</b>	Roof	94	144
<b>VRV Unit</b>	Roof	78	4
<b>Exhaust Fan</b>	Roof	41	4
<b>Transformer</b>	Substation	78	3

**Table 5:** Sound Power Levels of Proposed Outdoor Mechanical Equipment

Figure 7 shows a satellite view of the future location of the outdoor mechanical equipment, neighboring receivers, and acoustic barriers (color coded).



**Figure 7:** Project site plan showing outdoor mechanical equipment, nearest neighbours, and acoustic barriers color coded

The transformer substation will be fully enclosed by a 13' tall barrier (shown in green). The generator yard will be fully enclosed by 21' tall barriers (shown in red) and a 26' tall barrier along the western property line (shown in orange). There will be a 16' tall screening wall on the north side of the property along Agnew road (shown in yellow) that extends from the substation to the northeast corner of the property, which is approximately 500' long. The yellow barrier (16' tall) will also screen the eastern property line, extending approximately 233' from the northeast corner of the property. The rooftop equipment will be screened by a parapet wall that extends 11' above the mechanical pad elevation enclosing the rooftop area (shown in purple).

These barriers shall be monolithic (**without any holes or gaps**) and constructed of a material with at least 2 lbs/sqft surface density (such as 16 GA steel sheet, ½" thick plywood, or any masonry units).

Table 6 provides the calculated sound pressure levels at the nearest receiver of each property line during normal operation. Normal operation includes all outdoor equipment except the generators, with the PCS modules in the steady-state. These calculations include distance attenuation due to dispersion and barrier attenuation effects. The height of each receiver was assumed to be 5 feet.

Receiver Description	Sound Pressure Level (Steady-state) [dBA]
1. Residential to North	50
2. Public Space to West	47
3. Light Industrial to East	56
4. Planned Development to South	49

**Table 6:** Calculated Sound Pressure Levels at Receiver Locations

The calculated sound pressure levels at each receiver location (worst case scenario at each property line) due to all studied mechanical equipment during normal operation do not exceed the Santa Clara Municipal Code requirements for each property limit (which is 70 dBA for light industrial, 60 dBA for non-residential, and 50 dBA for residential and public space properties).

## 5. Testing Schedule

Emergency equipment (Generators and PCS modules in the run-state) are not required to meet noise codes during emergency operation (per section 9.10.070 (a) of the Santa Clara Municipal Code). Therefore, the emergency equipment will be required to meet the noise code only during routine testing. The testing shall be conducted between the hours of 7AM and 10PM to avoid the nighttime noise limits, which are more stringent.

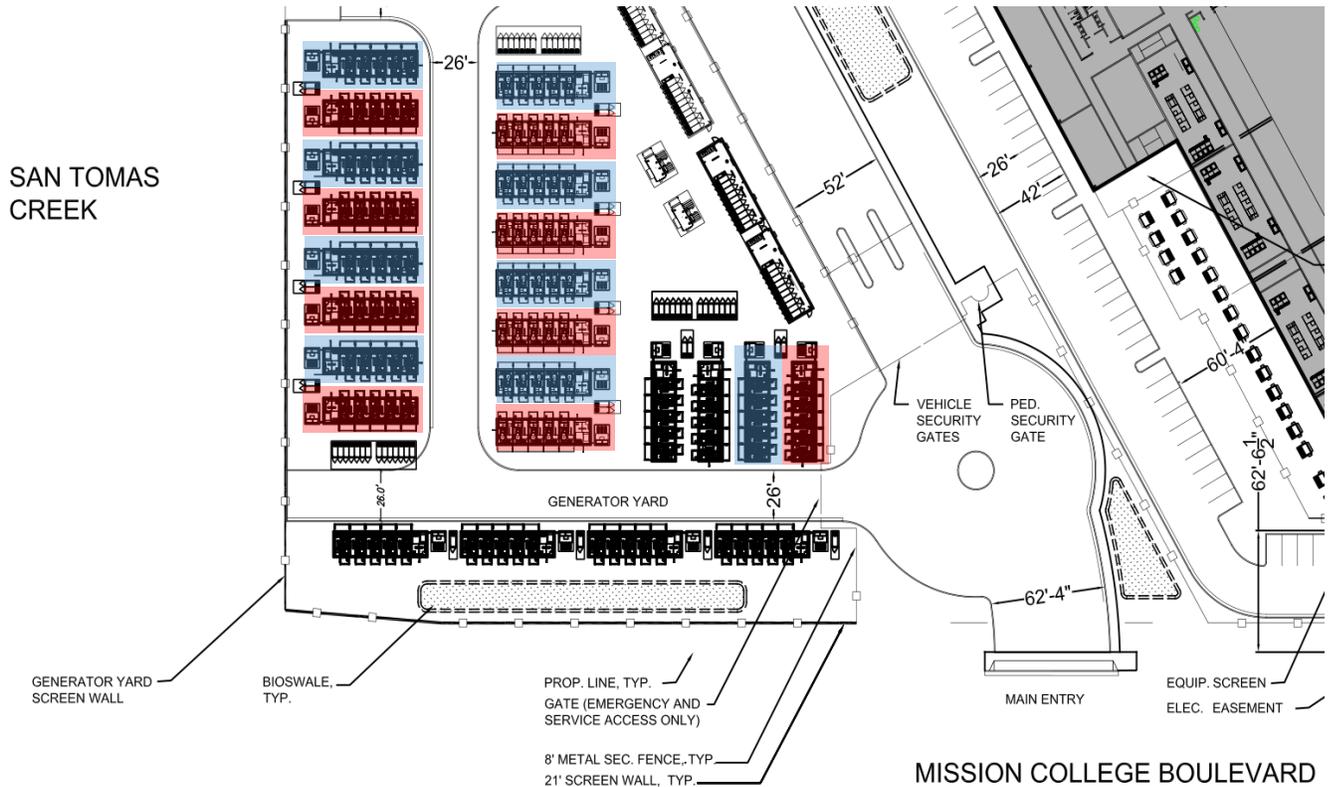
Table 7 provides the calculated sound pressure levels at each receiver location during the testing of emergency equipment (in addition to other accounted mechanical equipment, such as air handlers, transformers, and PES modules).

Emergency Equipment	Number of Units Tested Simultaneously	Sound Pressure Level (Run-state) [dBA]			
		Receiver 1 Agnew Road	Receiver 2 Public Space	Receiver 3 Offices	Receiver 4 Planned Development
Powerblocks (5 generators each)	9	54	54	59	54
PCS Modules (Run-state)	11				

**Table 7:** Calculated Sound Pressure Levels at Receiver Locations during Generator Testing

With the proposed equipment and barriers, the daytime noise limits will be met if no more than nine (9) powerblocks (45 generators) and eleven (11) PCS modules are tested simultaneously.

Additionally, because of the placement of the powerblocks, there is a limitation regarding which units may be tested simultaneously. To meet code limits at all property lines, no more than four (4) powerblocks along the west end of the generator yard may be tested simultaneously. We recommend a staggered testing schedule, where every other generator in a row is tested first and then the stagger is reversed. Figure 8 illustrates generators that should be tested in groups (for example, blue group and then red group).



**Figure 8: Recommended Generator Testing Schedule**

Table 8 provides the calculated day-night average noise level (Ldn) at each receiver location due to the proposed mechanical equipment. The Ldn was calculated assuming emergency testing occurs for no more than four (4) hours in a twenty-four (24) hour period.

Receiver Description	Measured (Existing) Day-Night Average Noise Level (Ldn) [dBA]	Calculated Day-Night Average Noise Level (Ldn) [dBA]
1. Residential to North	71.6	71.7
2. Public Space to West	64.9	65.3
3. Light Industrial to East	64.8	66.5
4. Planned Development to South	70.8	70.9

**Table 8: Calculated Day-Night Average Noise Level (Ldn) at Each Receiver due to Testing**

The proposed equipment and testing schedule will not increase the day-night average noise levels (Ldn) at the property lines by more than approximately 1.7 dBA Ldn (which will occur on the eastern property line).

## 6. Summary & Conclusion

The outdoor mechanical equipment at the proposed locations results in sound levels of no more than 56 dBA at the nearest industrial property line and 50 dBA at the nearest residential property line, which is in compliance with the noise requirements of the City of Santa Clara Municipal Code and General Plan. The greatest increase in the day-night average noise level (Ldn) will be approximately 1.7 dBA Ldn at the eastern property line.

Testing of the emergency equipment (no more than nine (9) powerblocks (following the testing schedule from Figure 8) and eleven (11) PCS modules at a time) will result in sound levels no more than 54 dBA at the nearest public space property line and no more than 64 dBA at the nearest industrial property line.

Therefore, if tested during day time (7 AM to 10 PM), this equipment will be compliant with the noise requirements of the City of Santa Clara Municipal Code and General Plan.

\* \* \*

This concludes our environmental noise analysis for the Mission College Blvd Data Center project in Santa Clara. If you have any questions or comments regarding this report, please contact Mei Wu Acoustics.

## Appendix: Ambient Noise Measurements

This appendix contains plots of the environmental noise measurements for each measurement location. Ambient noise levels (median L90) at each location are provided in Table 4 on page 6 of this report.

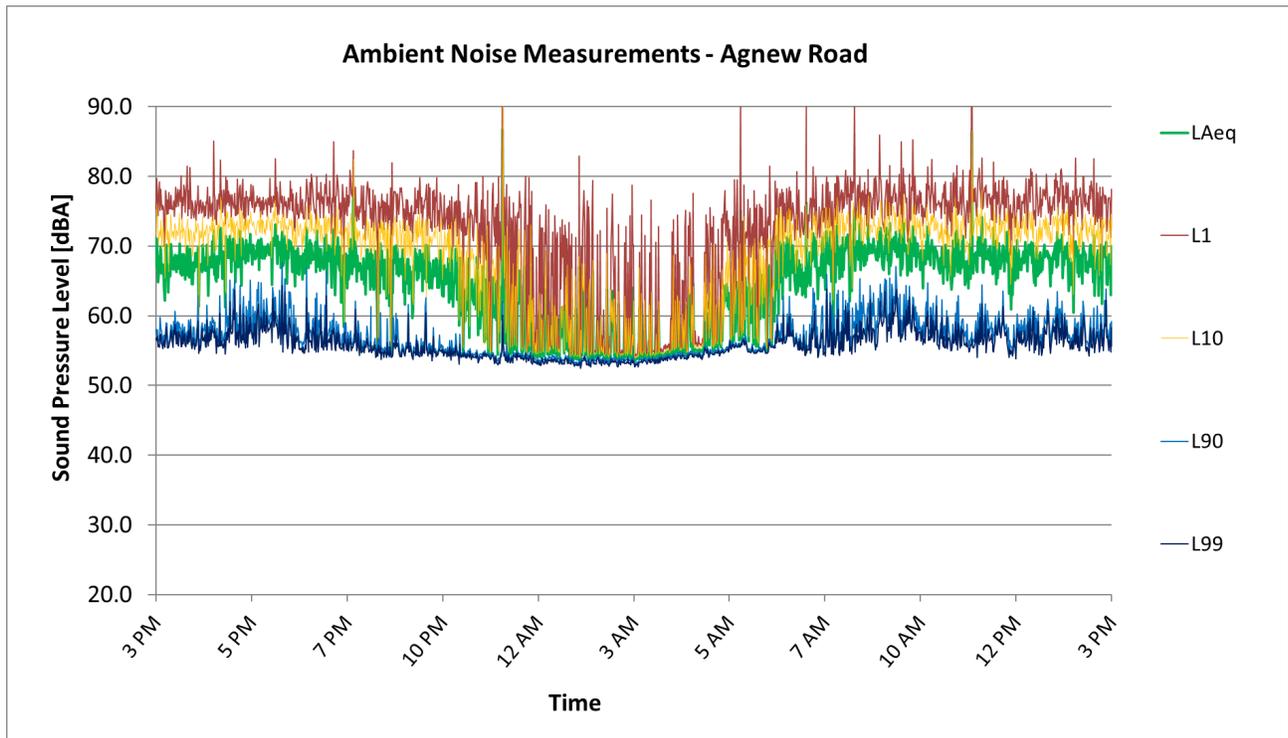


Figure A-1: Measurement Location 1 – Agnew Road corresponds to receiver 1. Residential to North (Figure 6 in Report)

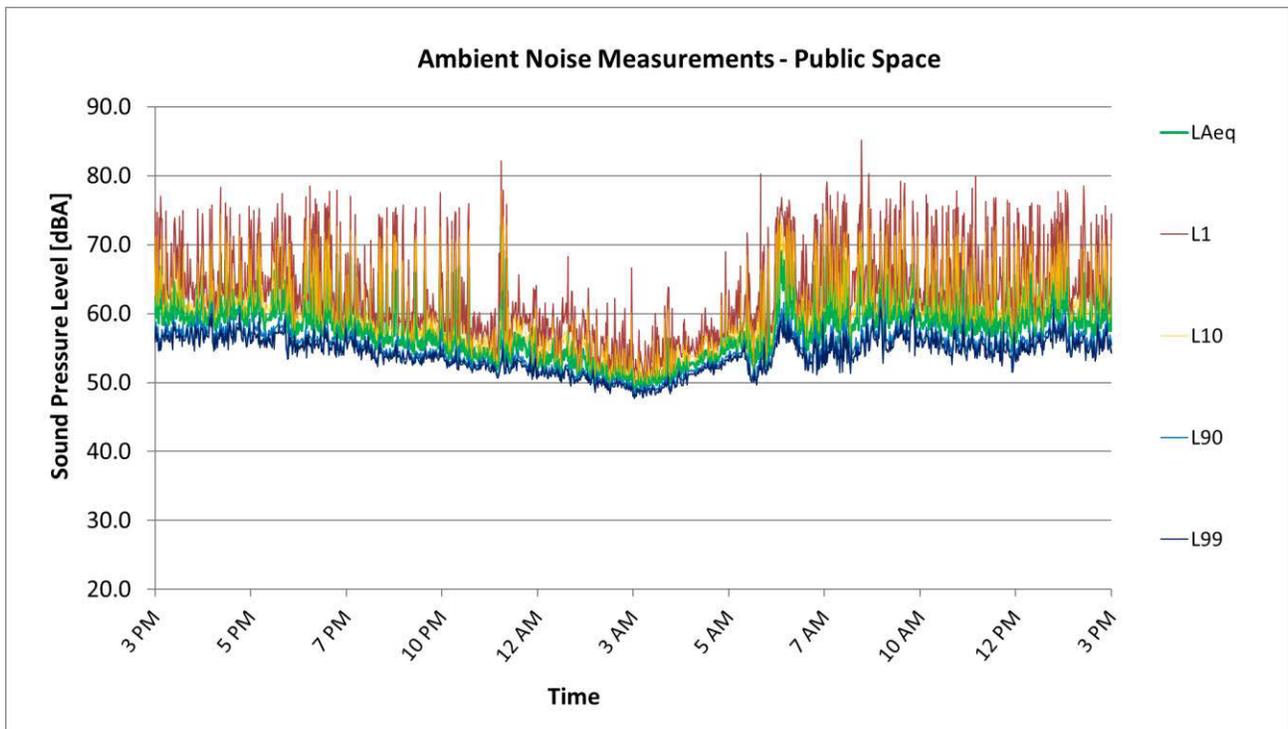
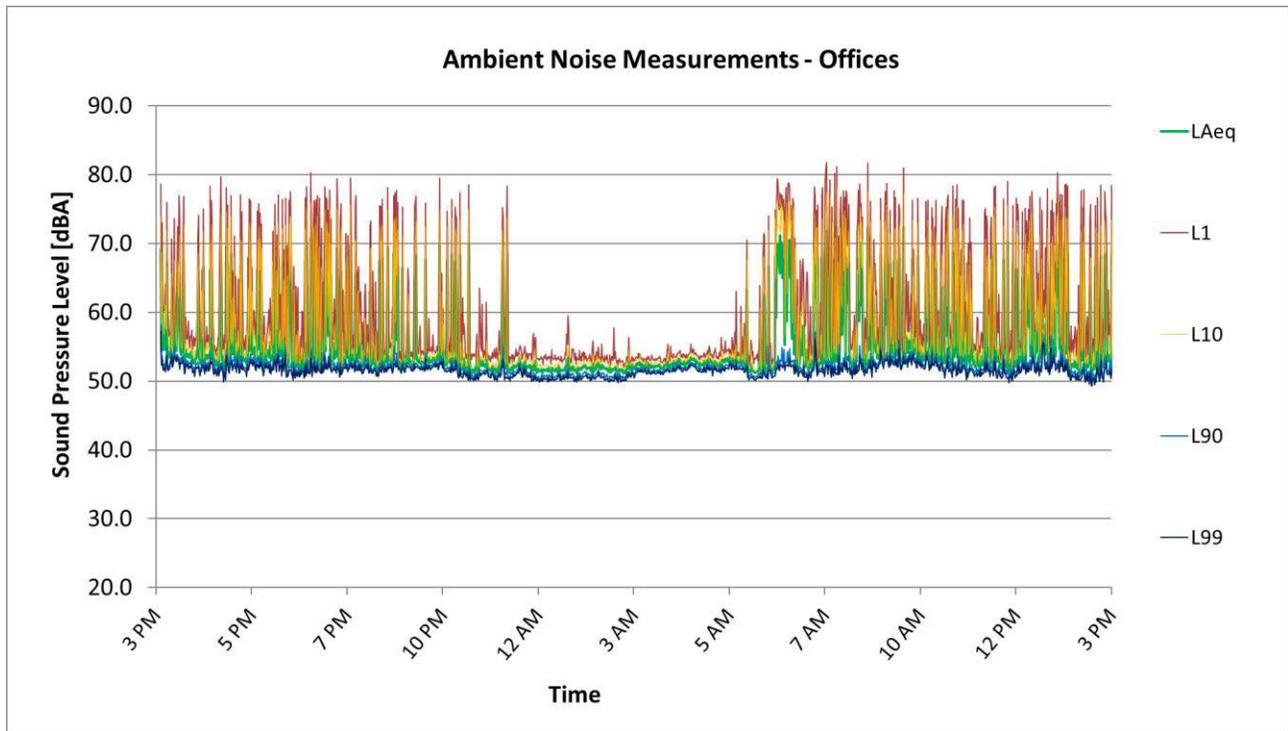
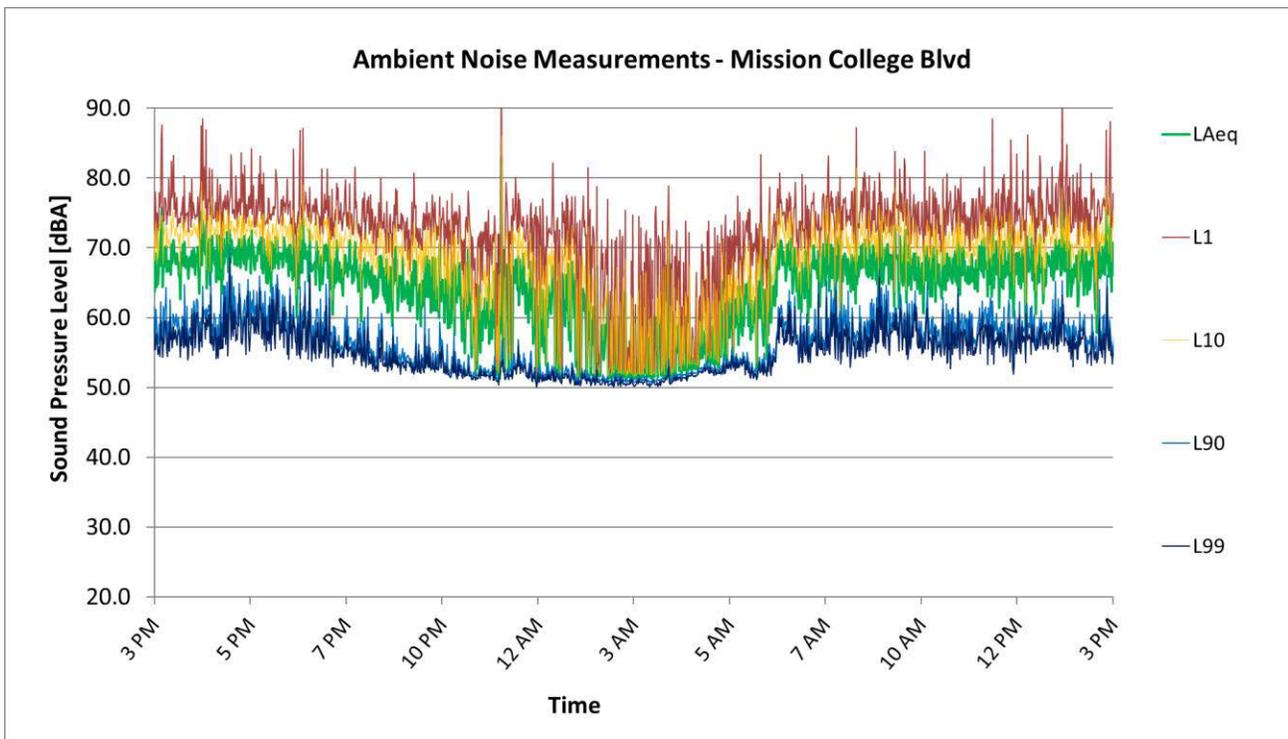


Figure A-2: Measurement Location 2 – Public Space corresponds to receiver 2. Public Space to West



**Figure A-3:** Measurement Location 3 – Offices corresponds to receiver 3. Light Industrial to East



**Figure A-4:** Measurement Location 4 – Mission College Blvd. corresponds to receiver 4. Planned Development to South

**Appendix H**  
**Water Supply Assessment**



**Date:** October 24, 2017

**To:** City Manager for Council Action

**From:** Director of Water and Sewer Utilities

**Subject:** Resolution to Approve the Water Supply Assessment for the proposed Project at 2305 Mission College Boulevard

### **EXECUTIVE SUMMARY**

California Water Code Section 10910 and Section 15155(b) of the Guidelines to the California Environmental Quality Act require a water utility to prepare a water supply assessment ("Assessment") for any development project that, among other criteria, includes more than 500 dwelling units, 500,000 square feet of retail space, 250,000 square feet of office space, employs more than 1,000 people or would demand an amount of water equivalent to, or greater than, the amount of water required by a 500 dwelling unit project. The proponent of a development located at 2305 Mission College Boulevard ("Applicant") requested an Assessment which proposes to construct a new 470,600 gross square feet (gsf) data center and 25,000 gsf of office space. Therefore, this Assessment is required to be brought to Council for the Council's approval, denial, or other direction.

The Assessment requires an analysis of the utility's current and future water supplies as well as the current and projected water demands in the utility's service area. The Assessment must include a determination as to whether additional water supplies are necessary or if sufficient water supplies exist for the proposed development. The law also requires that the water utility's governing body approve water supply assessments. The City Council is the governing body for the City's Water Utility.

City staff has prepared an Assessment for the proposed Project at 2305 Mission College Boulevard. The Assessment provides a detailed analysis of the amount of water necessary to meet the needs of the proposed development and the City's ability to supply that amount of water based on the projections identified in the City's Urban Water Management Plan through 2040.

The assessment found that the City's water utility has sufficient water supplies to meet the projected water demand of this development during normal, single dry year, and multiple dry year scenarios.

A copy of the Water Supply Assessment can be viewed on the City's website or is available in the City Clerk's Office for review during normal business hours.

### **ADVANTAGES AND DISADVANTAGES OF ISSUE**

Council's approval of the Assessment is necessary for the development to be approved. However, Council's approval, denial, conditional approval or any act on the Assessment does not guarantee that the Project will be approved, and does not obligate the City to approve, deny,

Subject: Resolution to Approve the Water Supply Assessment for the proposed Project at 2305 Mission College Boulevard  
Page 2

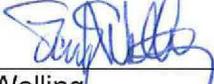
conditionally approve, take any action on, or make any decision on the associated Project application.

### **ECONOMIC/FISCAL IMPACT**

The acceptance or rejection of this water supply assessment does not have a fiscal impact on the City. However, the approval of this water supply assessment is a required part of the development process. The development will have an economic/fiscal impact on the City. That impact is not analyzed as part of this report.

### **RECOMMENDATION**

That the Council adopt a resolution approving the Water Supply Assessment for the Project located at 2305 Mission College Boulevard.

  
\_\_\_\_\_  
Gary Welling  
Acting Director of Water and Sewer Utilities

APPROVED:

  
\_\_\_\_\_  
Deanna J. Santana  
City Manager

*Documents Related to this Report:*

- 1) *Resolution*
- 2) *2305 Mission College Boulevard Development Application Water Supply Assessment*

RESOLUTION NO. \_\_\_\_\_

**A RESOLUTION OF THE CITY OF SANTA CLARA,  
CALIFORNIA APPROVING A WATER SUPPLY ASSESSMENT  
FOR THE PROJECT AT 2305 MISSION COLLEGE  
BOULEVARD**

**BE IT RESOLVED BY THE CITY OF SANTA CLARA AS FOLLOWS:**

**WHEREAS**, the City of Santa Clara ("City") approved and adopted an Urban Water Management Plan in 2016;

**WHEREAS**, California Water Code Section 10910 and Section 15155(b) of the Guidelines to the California Environmental Quality Act ("CEQA") require a water utility to prepare a Water Supply Assessment for development applications for "water-demand projects";

**WHEREAS**, the City is a public water supplier within the City limits and the City Council of the City of Santa Clara is the governing body of the City's public water system;

**WHEREAS**, the City of Santa Clara requires that landscaping for projects be drought tolerant and recycled water be used for irrigation, cooling towers and other permitted uses when properties are proximate to recycled water resources to reduce the cumulative use of potable water;

**WHEREAS**, on July 12, 2017, Watts and Associates ("Applicant") requested a Water Supply Assessment for a proposed development at 2305 Mission College Boulevard ("Project");

**WHEREAS**, the Project meets or exceeds one or more thresholds requiring a Water Supply Assessment outlined in Section 15155(a)(1) of the CEQA Guidelines and Section 10912(a) of the Water Code; and,

**WHEREAS**, City Staff prepared a Water Supply Assessment for the Project ("Development WSA").

**NOW THEREFORE, BE IT FURTHER RESOLVED BY THE CITY OF SANTA CLARA AS FOLLOWS:**

1. That the Water Supply Assessment for the proposed the Project located at 2305 Mission

College Boulevard, is attached to the agenda report for the Council meeting of October 24, 2017.

2. Approval of Development WSA. The Council has reviewed the Development WSA at a regular public meeting conducted on October 24, 2017. Based upon the data and conclusions set forth therein, and the evidence and testimony presented at the public meeting, the Council hereby finds that there is adequate water to supply the Project without creating negative impact on the groundwater basin and that the City has an adequate supply to provide water for the project during single or multiple dry years for at least a 20-year projection, and, the Council hereby approves the Development WSA.

3. No Obligation to Act on the 2305 Mission College Boulevard Development Application. The Council's approval of the Development WSA is limited to approving the Development WSA; approving the Development WSA does not approve the application for the Project. Nothing in this resolution or the Council's approval of the Development WSA shall be construed as requiring the City or its Council to consider, act on, approve, conditionally approve, deny, or take any other action on the application to develop the Project.

4. Direction to Staff. Staff is hereby directed to include the Development WSA, the 2015 City of Santa Clara Urban Water Management Plan, and any other applicable Urban Water Management Plan related documents in the appendix of the Environmental Impact report for the Project at 2305 Mission College Boulevard.

5. Constitutionality, severability. If any section, subsection, sentence, clause, phrase, or word of this resolution is for any reason held by a court of competent jurisdiction to be unconstitutional or invalid for any reason, such decision shall not affect the validity of the remaining portions of the resolution. The City of Santa Clara, California, hereby declares that it would have passed this resolution and each section, subsection, sentence, clause, phrase, and word thereof, irrespective of the fact that any one or more section(s), subsection(s), sentence(s), clause(s), phrase(s), or word(s) be declared invalid.

6. Effective date. This resolution shall become effective immediately.

I HEREBY CERTIFY THE FOREGOING TO BE A TRUE COPY OF A RESOLUTION PASSED AND ADOPTED BY THE CITY OF SANTA CLARA, CALIFORNIA, AT A REGULAR MEETING THEREOF HELD ON THE \_\_\_ DAY OF \_\_\_\_\_, 2017, BY THE FOLLOWING VOTE:

AYES: COUNCILORS:

NOES: COUNCILORS:

ABSENT: COUNCILORS:

ABSTAINED: COUNCILORS:

ATTEST: \_\_\_\_\_  
ROD DIRIDON, JR.  
CITY CLERK  
CITY OF SANTA CLARA

Attachments incorporated by reference: None  
I:\Water\Compliance\Water Supply Assessments\Draft Assessments 2017\2305 Mission College Blvd\Resolution\_2305 Mission College WSA.doc

# **2305 Mission College Boulevard Development Application**

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**Water Supply Assessment for Compliance with California Water  
Code Section 10910**

**Approved by City Council**

**Resolution #TBD**

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## Introduction

Senate Bill 610 (2001) codified at Water Code Section 10910 et seq, requires detailed information on water supply availability for certain projects that meet or exceed the following criteria:

- A residential development of more than 500 dwelling units
- A proposed shopping center or business establishment employing more than 1,000 persons or having more than 500,000 square feet of floor space.
- A proposed commercial office building employing more than 1,000 persons or having more than 250,000 square feet of floor space.
- A proposed hotel or motel, or both, having more than 500 rooms.
- A proposed industrial, manufacturing, or processing plant, or industrial park planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square feet of floor area.
- A mixed-use project that includes one or more of the projects specified in this subdivision.
- A project that would demand an amount of water equivalent to, or greater than, the amount of water required by a 500 dwelling unit project.

2305 Mission College Boulevard ("2305 Mission College" or the "Project"), located in the City of Santa Clara ("City") at Mission College Boulevard and Agnew Road is subject to a Water Supply Assessment ("WSA" or Assessment") in accordance with the California Water Code and the California Environmental Quality Act.

The City of Santa Clara's City Council approved and adopted an Urban Water Management Plan in 2016 ("UWMP" or "2015 UWMP"). The 2015 UWMP did not specifically include or address this Project since it was proposed and evaluated after the adoption of the UWMP. However, the UWMP included projected increases in water demand due to densification and intensification of both residential and non-residential land uses. Projected uses within the proposed development are described in further detail in the Projected Water Demand for the Proposed Project section.

This Assessment relies on the data contained in and used to develop the 2015 UWMP to analyze the availability of the City's water supply to serve the Project along with existing and planned future uses. Unless noted, all figures in this Assessment are in acre-feet (AF) and are for total water demand or supply, i.e. both potable and recycled water.

The findings of this Assessment will be submitted to the City Council for approval and included in the environmental review process. The City's approval, denial, conditional approval or any act on this Assessment does not guarantee that the Project will be approved and does not obligate the City to approve, deny, conditionally approve, take any action, or make any decision on the Project application.

## Water Supply

The City of Santa Clara has four sources of water. These sources include two treated water sources from the Santa Clara Valley Water District (“SCVWD” or “District”) and the San Francisco Public Utilities Commission (“SFPUC”), groundwater pumped from the Santa Clara sub-basin through the City’s owned and operated groundwater wells, and recycled water purchased from South Bay Water Recycling (“SBWR”).

Recycled water use within the City is limited by the availability of acceptable uses and proximity to the recycled water distribution system. The use of treated surface water from SCVWD and SFPUC is limited by their respective executed contracts.

### Potable Water Supply

The Santa Clara potable water system is separated into four interconnected zones in order to provide optimum pressures throughout the City. The four pressure zones and the location of the Project are shown in Figure 1.

Figure 2 shows the water source by area. Treated water purchased from SFPUC is used to supply water north of Highway 101. Treated water purchased from the SCVWD is used in conjunction with groundwater to supply water to the southern portion of the City.

Table 1 below summarizes the amount of water pumped by the City’s groundwater wells from 2012-2016. Table 1A summarizes purchased volumes from the City’s two wholesalers.

Table 1: Historical Volume of Groundwater Pumped					
Source	2012	2013	2014	2015	2016
Wells	14,958	14,194	14,096	11,450	10,108

Table 1A: Historical Treated Water Purchases										
Source	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
SCVWD	4,392	4,248	4,105	4,372	4,527	3,971	4,949	3,634	3,701	4,683
SFPUC	4,345	3,278	2,778	2,454	2,225	2,264	2,457	2,069	2,470	2,371

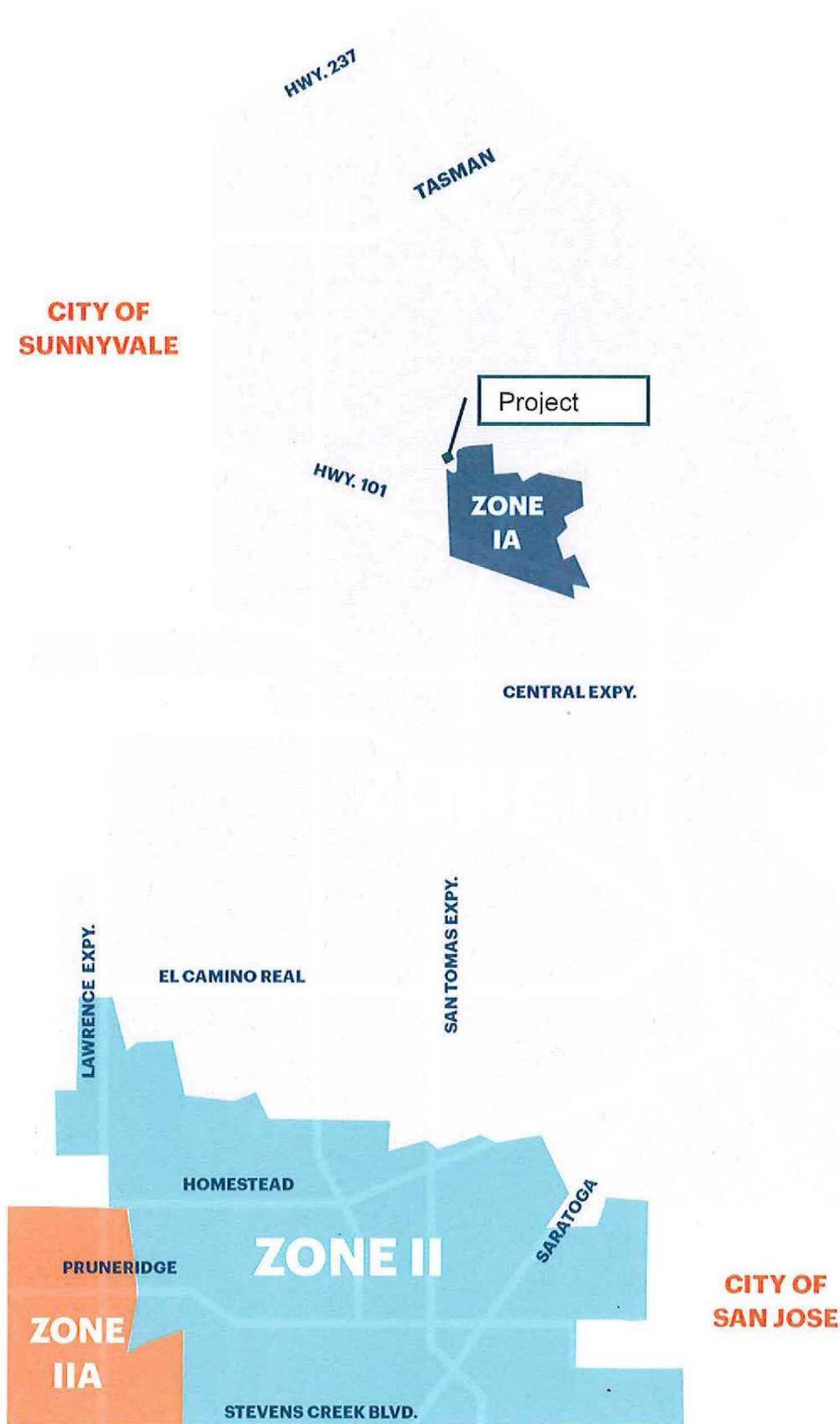


Figure 1: Pressure Zones

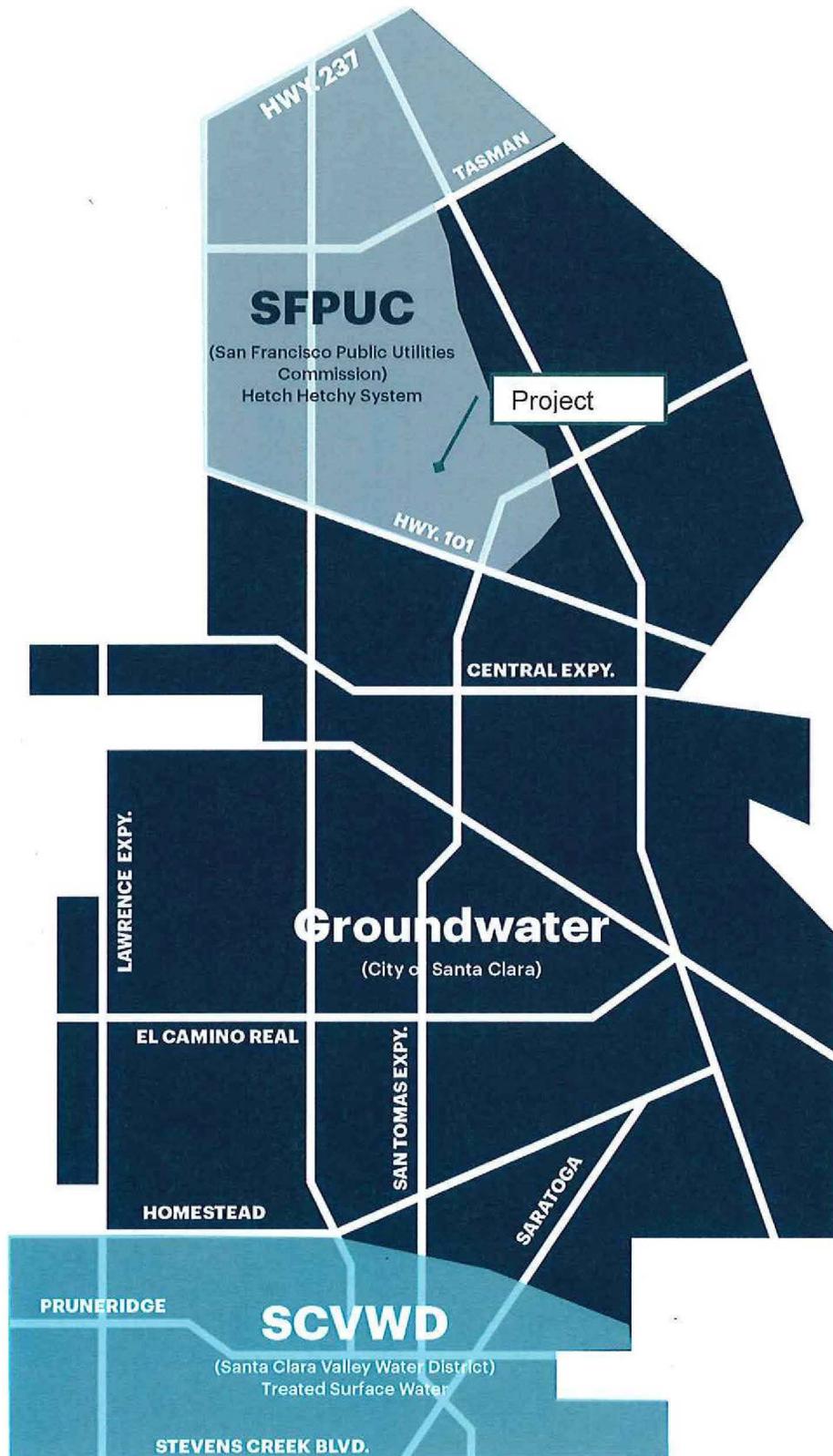


Figure 2: Sources of Water by Area

## **Groundwater Supply**

The local groundwater basin currently provides about two thirds of the City's potable water supply. It is the primary source of water for domestic, industrial, and agricultural use in the City since the area was first settled. This aquifer acts as a large underground reservoir that the City's 26 wells use as a water source.

The Santa Clara Valley groundwater basin extends from the Coyote Narrows at Metcalf Road in San Jose to Santa Clara County's northern boundary. It is bounded on the west by the Santa Cruz Mountains and on the east by the Diablo Range: these two mountain ranges converge at the Coyote Narrows to form the southern limit of the sub-basin. The sub-basin is 22 miles long and 15 miles wide at its widest point, with a surface area of 225 square miles. The southern area is an unconfined zone, or "forebay", where confining clay layers do not extend. SCVWD staff estimates the operational storage capacity of the sub-basin to be 350,000 AF. The Santa Clara Valley groundwater basin is shown in Figure 3 (225 square miles, 144,000 acres) and is the largest of three interconnected groundwater basins occupying a total of 240,000 acres of the 849,000 acres in Santa Clara County.

The Santa Clara Valley groundwater basin is not adjudicated. The most recent information from DWR indicates that the Santa Clara Sub-basin is a medium-priority sub-basin based on criteria that include overlying population, projected growth, number of wells, irrigation acreage, groundwater reliance, and groundwater impacts<sup>1</sup>. The sub-basin is not currently listed as overdrafted<sup>2</sup>. Even when the City was at the historic peak for groundwater production FY1986/87, the basin was not approaching overdraft. Though the Santa Clara Valley groundwater basin is not considered overdrafted by the Department of Water Resources and is not adjudicated, the District monitors the basin for local subsidence and works with various water retailers in the area to prevent subsidence and overdraft of the basin.

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<sup>1</sup> Department of Water Resources, Groundwater Basin Prioritization Results – June 2014  
[http://www.water.ca.gov/groundwater/casgem/basin\\_prioritization.cfm](http://www.water.ca.gov/groundwater/casgem/basin_prioritization.cfm)

<sup>2</sup> Department of Water Resources, California's Groundwater Update 2003, DWR Bulletin 118 (California Department of Water Resources, 2003)

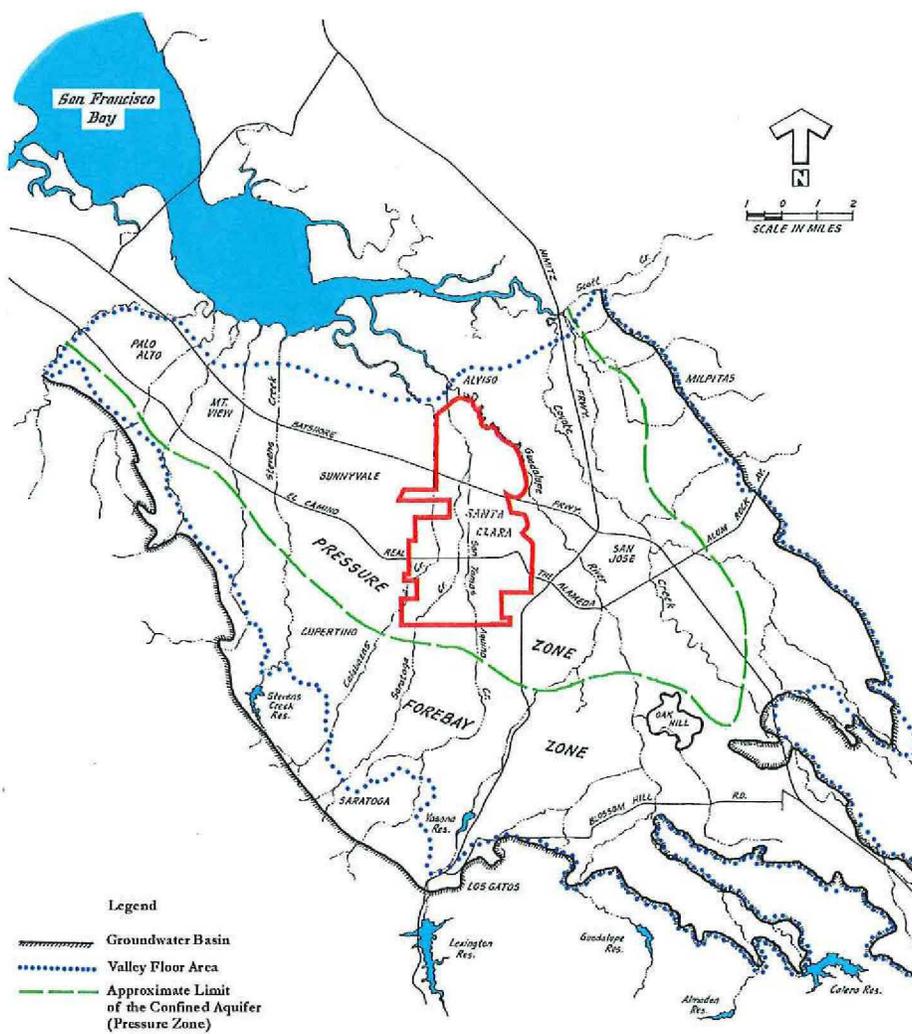


Figure 3: Map of Groundwater Basin

The allowable withdrawal or safe yield of groundwater by the City of Santa Clara is dependent upon a number of factors including: withdrawals by other water agencies, quantity of water recharged and the carry over storage from the previous year. Development and agricultural needs in the 1920s increased the demand on the water systems within the Santa Clara Valley. This increased extraction of groundwater led to subsidence in several of the aquifers. The Santa Clara Valley Water Conservation District (currently Santa Clara Valley Water District) was originally formed in 1929 to alleviate land surface subsidence in and around San Jose through artificial recharge of the groundwater. The rapid development of Santa Clara County occurred again in the 1960s and the corresponding increased demand on the existing water supply again resulted in the over-drafting of the groundwater basin. The continued over-drafting of the basin resulted in a significant lowering of the groundwater table, significant subsidence of the land in the northern portion of the valley and compaction of several aquifers. When an aquifer is

compacted the storage capacity of the aquifer can be substantially reduced. Once lost, storage capacity cannot be regained.

In order to avoid any further subsidence and loss of aquifer capacity the District has attempted to operate the basin to maintain or increase groundwater storage through managed recharge with local supplies augmented with imported raw water. In the late 1960s/ early 1970s the District's conjunctive management of surface water and groundwater effectively halted the over-drafting and resulting subsidence. The District is currently using projected supply, carryover capacity and anticipated demand to predict potential water shortages. The 2012 Santa Clara Valley Water District Groundwater Management Plan describes the groundwater recharge program in detail. This Groundwater Management Plan, the most recent formally adopted plan, is included in the 2015 UWMP<sup>3</sup>.

The City's wells are strategically distributed around the City. The exact location of the wells is not included in this Assessment for security reasons. This distribution of wells adds to the reliability of the water system and minimizes the possibility of localized subsidence due to localized over-drafting. To eliminate the possibility of long-term overdraft conditions, at all of the City's 26 production wells, the City monitors groundwater levels and meters the groundwater pumping. To further ensure that no over-drafting is occurring the City operates a recycled water system and requires new development along the recycled water distribution system to use recycled water for approved irrigation and industrial uses. Additionally, as an effort to minimize the amount of groundwater used, the City encourages and promotes water conservation. The SCVWD recharges the groundwater basins to bank water locally and protect against drought or emergency outages. This strategy allows the District to store surplus water in the groundwater basins and enables part of the county's supply to be carried over from wet years to dry years. The District operates and maintains major recharge systems, which consist of both in-stream and off-stream facilities. Most of the local supply is recharged into the groundwater basin, either through natural stream channels, through canals, or through in-stream and off-stream ponds. In addition, imported water is delivered by the raw water conveyance system to streams and ponds for the District managed groundwater recharge program.

### ***Recycled Water Supply***

The recycled water available in the City is provided by South Bay Water Recycling (SBWR) and meets current regulations of the California State Water Resources Control Board, Division of Drinking Water (DDW) for unrestricted use. This designation allows for the use of recycled water for irrigation and industrial use within specific guidelines. The recycled water distribution system is shown in Figure 4 below.

The recycled water system has operated since 1989 with minimal interruptions in service. SBWR strives to reduce the number of instances, duration, and magnitude of any service interruptions. The use of recycled water at any site is contingent upon the completion of the necessary arrangements in accordance with SBWR, City of Santa Clara and DDW rules and regulations regarding the use of recycled water. In addition, payment must be made of

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<sup>3</sup> City of Santa Clara 2015 Urban Water Management Plan, Appendix F

applicable fees, rates and charges. These fees/rates and charges may include but are not limited to charges for major facilities described above and delivery charges for the recycled water used.

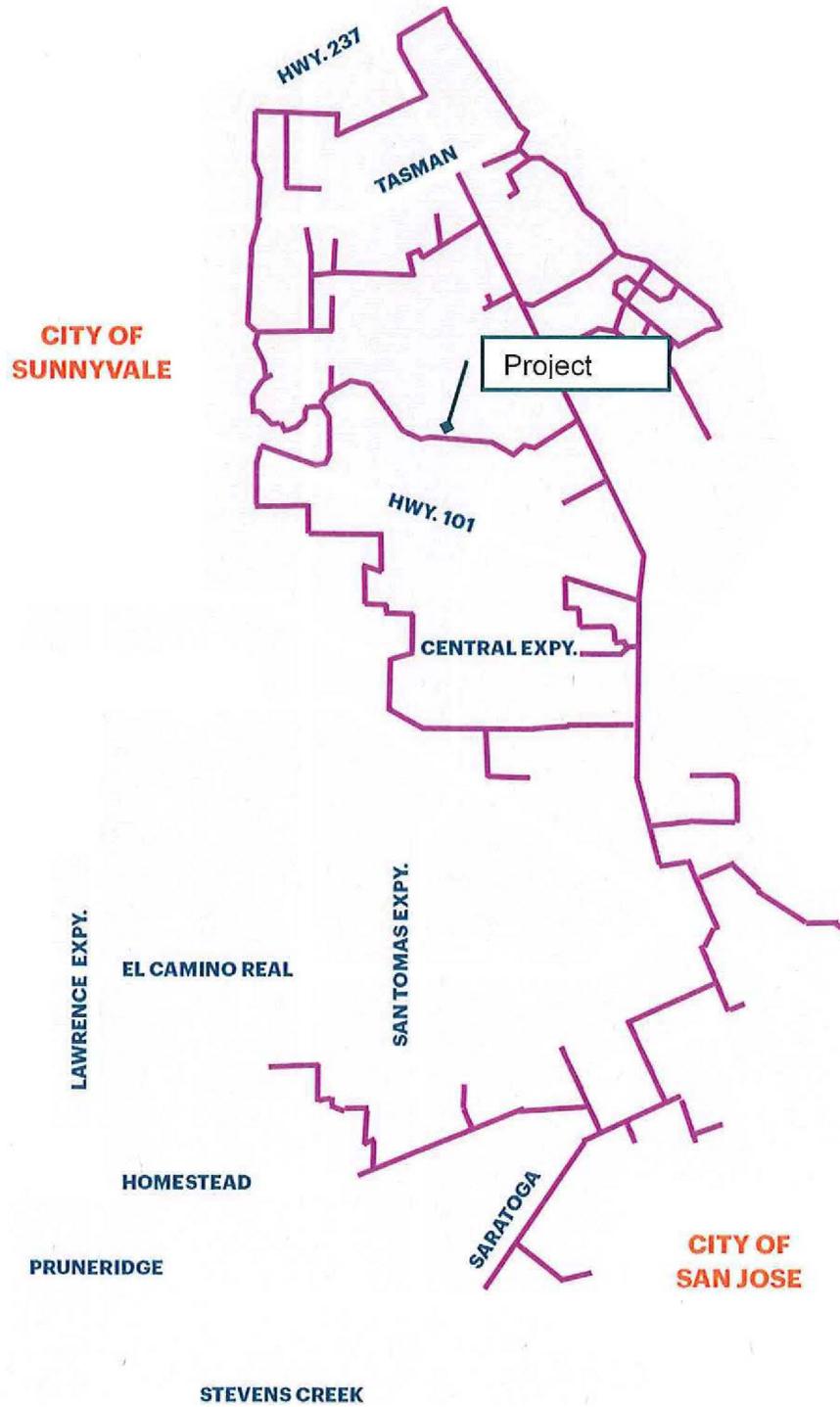


Figure 4: Recycled Water Distribution System

## Water Supply Projections

The tables below show the City's projected water supplies in acre-feet for 2020-2040. Table 2A accounts for the possibility of the City's SFPUC water supply being interrupted, which is discussed later in the section titled, Water Supply and Demand Comparisons (Single, Dry, Multiple Dry Year Scenarios).

Table 2A: Projected Water Supplies (AF) (2015 UWMP)					
Water Supply	Projected Water Supply				
	2020	2025	2030	2035	2040
SCVWD	5,236	5,236	5,236	5,236	5,236
SFPUC	0	0	0	0	0
Wells	23,048	23,048	23,048	23,048	23,048
Recycled Water	5,200	5,700	6,100	6,500	6,900
Total	33,484	33,984	34,384	34,784	35,184

NOTES: Assumes interruption of SFPUC water supply after 2018.

Table 2B: Projected Water Supplies (AF) (2015 UWMP)					
Water Supply	Projected Water Supply				
	2020	2025	2030	2035	2040
SCVWD	5,236	5,236	5,236	5,236	5,236
SFPUC	5,040	5,040	5,040	5,040	5,040
Wells	23,048	23,048	23,048	23,048	23,048
Recycled Water	5,200	5,700	6,100	6,500	6,900
Total	38,524	39,024	39,424	39,824	40,224

NOTES: Assumes no interruption of SFPUC water supply after 2018.

## Water Demands

The water demand projections were developed using an "End Use" model. Two main steps are involved in developing an End Use model: 1) Establishing base year water demand at the end-use level (such as toilets, showers) and calibrating the model to initial conditions; and, 2) Forecasting future water demand based on future demands of existing water service accounts and future growth in the number of water service accounts.

Establishing the base-year water demand at the end-use level is accomplished by breaking down total historical water use for each type of water service account (single family, multifamily,

commercial, irrigation, etc.) to specific end uses (such as toilets, faucets, showers, and irrigation).

Forecasting future water demand is accomplished by determining the growth in the number of water service accounts. Once these rates of change were determined, they were input into the model and applied to those accounts and their end water uses. The end use model also incorporates the effects of the plumbing (California Plumbing Code 401.3) and appliance codes on fixtures and appliances including toilets (1.6 gal/flush), showerheads (2.5 gal/minute), and washing machines (lower water use) on existing and future accounts.

The basic methodology of the model is to break down water usage into an average consumption per account type. Projections are made regarding potential reductions in average consumption based on water conservation programs, and natural replacement of less water efficient processes with more efficient processes. These projections are used to adjust the future average consumption per account figures. Projections of the future number of accounts for each user type of the future number of accounts are also calculated, typically based on other technical studies such as Association of Bay Area Governments (ABAG) projections or census data. The projected number of accounts is based on the projected number of housing units for residential or the projected number of jobs in the case of the industrial and commercial categories. Once the number of accounts and the average consumption per account are calculated, the number of accounts for each future year is multiplied by the average consumption per account for that year to arrive at a total water demand for each user type. The 2015 UWMP Demand Projections by Category are listed below in Table 3. Projected increases in demands for each use category are found in Table 3A.

Use Type	2015	2020	2025	2030	2035	2040
Single Family	4,153.0	5,926.6	6,320.5	6,405.2	6,467.3	6,492.7
Multi-Family	4,075.0	5,633.8	6,128.3	6,340.5	6,544.8	6,719.8
Commercial	5,240.0	7,101.4	7,640.0	7,819.2	8,043.0	8,217.3
Industrial	1,903.0	2,282.1	2,430.6	2,459.9	2,487.5	2,500.8
Institutional	577.0	827.0	910.1	951.8	991.8	1,027.6
Municipal	405.0	593.9	653.6	683.5	712.2	737.8
Recycled Water	3,529.0	4,700.0	5,700.0	6,100.0	6,500.0	6,900.0
Losses	1,267.0	1,167.2	1,256.9	1,287.0	1,317.6	1,341.0
TOTAL	21,149.0	28,232.0	31,040.0	32,047.1	33,064.2	33,937.0

Table 3A: Projected Changes in Water Demands (AF) (2015 UWMP)

Use Type	2015-2019	2020-2024	2025-2029	2030-2034	2035-2040
Single Family	1,773.6	393.9	84.7	62.1	25.4
Multi-Family	1,558.8	494.5	212.2	204.3	175.0
Commercial	1,861.4	538.6	179.2	223.8	174.3
Industrial	379.1	148.5	29.3	27.6	13.3
Institutional	250.0	83.1	41.7	40.0	35.8
Municipal	188.9	59.7	29.9	28.7	25.6
Recycled Water	1,717.0	1,000.0	400.0	400.0	400.0
Losses	-99.8 <sup>a</sup>	89.7	30.1	30.6	23.4
TOTAL	7,083.0	2,808.0	1,007.1	1,017.1	872.8

<sup>a</sup> negative losses for 2015-2019 are due to anticipated reductions in water loss due to system improvements and increased water loss monitoring

## Water Supply and Demand Comparisons (Normal, Single, Dry, Multiple Dry Year Scenarios)<sup>4</sup>

Average, single, and multiple dry years based on historic hydrologic and water supply conditions were identified by the SCVWD. During normal water years, water supplies should be adequate to meet projected demands through 2040.

Table 4A Retail: Normal Year Supply and Demand Comparison (AF)

	2020	2025	2030	2035	2040
Supply	33,484	33,984	34,384	34,784	35,184
Demand	28,232	31,040	32,047	33,064	33,937
Difference	5,252	2,944	2,337	1,720	1,247
NOTES: Assumes SFPUC supply does <i>not</i> exist beyond 2018					

Table 4B Retail: Normal Year Supply and Demand Comparison (AF)

	2020	2025	2030	2035	2040
Supply	38,524	39,024	39,424	39,824	40,224
Demand	28,232	31,040	32,047	33,064	33,937
Difference	10,292	7,984	7,377	6,760	6,287
NOTES: Assumes SFPUC supply exists beyond 2018					

<sup>4</sup> City of Santa Clara 2015 Urban Water Management Plan

During a single dry year, the City projects no reduction in supplies from groundwater. Per the SCVWD handout dated May 18, 2016<sup>5</sup>, treated surface water is not expected to be reduced in a single dry year event until 2040, when it could be reduced anywhere from 5-10%. For planning purposes, the 10% worst case scenario will be used in all single dry year projections. SFPUC has indicated that during a single critical dry year it will follow the Tier 2 reduction plan described in the 2015 UWMP. SFPUC will reduce their total water supply by 10% from 184 mgd to 152.6 mgd in a single dry year as shown in Table 1 of the letter from the SFPUC<sup>6</sup>. City of Santa Clara will receive 1.17% of the 152.6 mgd as shown in Table 3 of the letter from the SFPUC. Recycled water use and water conservation are projected to remain unchanged or potentially increase due to public awareness, during a critical dry year. The resulting analysis of available supplies is shown in Table 5A and Table 5B below. During a single critical dry year, there are no projected shortfalls in total available water supplies independent of whether the City receives or does not receive SFPUC water supply water after contract negotiations in 2018.

<b>Table 5A Retail: Single Dry Year Supply and Demand Comparison (AF)</b>					
	2020	2025	2030	2035	2040
Supply	33,484	33,984	34,384	34,784	34,660
Demand	28,232	31,040	32,047	33,064	33,937
Difference	5,252	2,944	2,337	1,720	723
NOTES: Assumes SFPUC supply does <i>not</i> exist beyond 2018					

<b>Table 5B Retail: Single Dry Year Supply and Demand Comparison (AF)</b>					
	2020	2025	2030	2035	2040
Supply	35,485	35,985	36,385	36,785	36,661
Demand	28,232	31,040	32,047	33,064	33,937
Difference	7,253	4,945	4,338	3,721	2,724
NOTES: Assumes SFPUC supply exists beyond 2018					

During a multiple dry year event, the City projects no reduction in supplies from groundwater. Per a SCVWD handout dated May 18, 2016<sup>7</sup>, treated surface water is expected to be reduced in a multiple dry year event beginning in 2020, when it could be reduced anywhere from 0-40%. For planning purposes, a 30% worst case scenario will be used in 2020 projections, 15% in 2025 projections, 25% in 2030 projections, 35% in 2035 projections, and 40% in 2040 projections based on SCVWD demand reductions. SFPUC has indicated that during multiple critical dry years the City can expect a maximum reduction of SFPUC water supplies of 33% of

<sup>5</sup> City of Santa Clara 2015 Urban Water Management Plan, Appendix H

<sup>6</sup> City of Santa Clara 2015 Urban Water Management Plan, Appendix I

<sup>7</sup> City of Santa Clara 2015 Urban Water Management Plan, Appendix H

normal. SFPUC has indicated that in the second and third year of a drought, they will reduce their water supply from 184 mgd to 129.2 mgd. For SFPUC supplies, Table 6B assumes a worst-case scenario based on a replication of the 1987-1992 multiple dry year event. The City of Santa Clara will still receive 1.17% of the 129.2 mgd amount as shown in Table 3 of SFPUC's Tier 2 plan in the 2015 UWMP<sup>8</sup>. Table 6A assumes that SFPUC water is unavailable after 2018. Recycled water use and water conservation are projected to remain unchanged during a multiple dry year event. The resulting analysis of all available supplies is shown in Table 6A and 6B below. During a multiple critical dry year event, there is a projected shortfall in available water supplies after 2035 if the City does not receive SFPUC water supply after contract negotiations in 2018, as shown below in Table 6A. However, the difference in supply can be made-up through water provided by projected future water supply projects discussed in the 2015 UWMP. These assumptions also yield a conservative estimate since during a critical multiple dry year event, mandatory conservation measures and increased recycled water usage would be expected to reduce potable water demand.

Table 6A: Multiple Dry Years Supply and Demand Comparison (AF)						
		2020	2025	2030	2035	2040
First year	Supply	31,913	33,199	33,075	32,951	33,090
	Demand	28,232	31,040	32,047	33,064	33,937
	Difference	3,681	2,159	1,028	-113	-847
Second year	Supply	31,913	33,199	33,075	32,951	33,090
	Demand	28,232	31,040	32,047	33,064	33,937
	Difference	3,681	2,159	1,028	-113	-847
Third year	Supply	31,913	33,199	33,075	32,951	33,090
	Demand	28,232	31,040	32,047	33,064	33,937
	Difference	3,681	2,159	1,028	-113	-847
NOTES: Assumes SFPUC supply does <i>not</i> exist beyond 2018						

<sup>8</sup> City of Santa Clara 2015 Urban Water Management Plan, Appendix L

<b>Table 6B: Multiple Dry Years Supply and Demand Comparison (AF)</b>						
		2020	2025	2030	2035	2040
First year	Supply	33,914	35,200	35,076	34,952	35,091
	Demand	28,232	31,040	32,047	33,064	33,937
	Difference	5,682	4,160	3,029	1,888	1,154
Second year	Supply	33,607	34,892	34,768	34,645	34,783
	Demand	28,232	31,040	32,047	33,064	33,937
	Difference	5,375	3,852	2,721	1,581	846
Third year	Supply	33,607	34,892	34,768	34,645	34,783
	Demand	28,232	31,040	32,047	33,064	33,937
	Difference	5,375	3,852	2,721	1,581	846
NOTES: Assumes SFPUC supply exists beyond 2018						

With the uncertainties inherent in future imported water supplies, the City plans to meet future demand growth by pumping additional groundwater, relying on more recycled water, and increased conservation. Given the potential for decreased SFPUC imported surface deliveries, CEQA requires disclosure of the environmental impacts, if any, of meeting future demand growth with increased supplies coming from pumping more groundwater. There are not anticipated to be any reasonably foreseeable impacts associated with increased use of recycled water and conservation, which is anticipated to occur through replacement of more water-efficient appliances, i.e. clothes washers, dishwashers, toilets, etc., and programs to encourage drought-tolerant landscaping on private property and on City properties. Mandatory conservation during a multiple year drought may also require prohibitions on outdoor use (irrigation, car washing, washing down pavement, etc.) and water rationing. As noted above, numerous conservative assumptions were made regarding both water supply and demand. Therefore, it is the conclusion of the Water Utility that adequate water supplies are available to meet the water demands projected until 2040.

## **Projected Water Demand for the Proposed Project**

The total water demand for this Project is calculated to be 228.4 AF/yr. This represents an increase in water demand of 216.4 AF/yr over the historic water demand at the Project site. Historic water usage at the original Project site was taken into account in the 2015 UWMP, therefore this Assessment will only address the City's ability to meet the increased water demand. Average historical usage was calculated using the site's existing water demand from 2011-2015, excluding the period from August 2014 through 2015 when the City implemented its Water Shortage Contingency Plan in an effort to meet potable water demand reduction targets in response to the Governor's Emergency Drought Regulations. The proposed increase, tabulated in Table 9 of this section, is within the growth projections in the 2015 UWMP (Table 3A of this Assessment).

## **Water Demand to Be Met by Recycled Water**

Recycled water is currently available at the Project site. Although recycled water service is available to serve the project site and would result in significant potable water savings, all water demands will be calculated as potable water demand for this assessment.

## **Summary of Existing and Estimated Water Demands**

A summary of the existing and estimated water demands for the Plan are found in Table 7 below. The existing and estimated water demands are further broken down in Table 7A into projected annual demand increases based on construction timelines submitted by the Applicant.

Table 7: Existing and Estimated Water Demand per Year for Project					
	Status	Development	Units	Gal/Day	Acre-Ft/Yr
Office Space	Proposed	25,000	sq. ft	2,250.0	2.5
Data Center	Proposed	470,600	sq. ft	201,623.6	225.9
Historic Usage	Existing	Commercial		(10,682.7)	(12.0)
<b>TOTAL DEMAND</b> (increase per year)				193,190.9	216.4

Table 7A: Project Water Demand Increase (Acre-Ft/Yr)					
	2015-2019	2020-2024	2025-2029	2030-2034	2035-2040
Office Space	2.5	0.0	0.0	0.0	0.0
Data Center	225.9	0.0	0.0	0.0	0.0
Historic Usage	(12.0)	0.0	0.0	0.0	0.0
<b>TOTAL</b>	216.4	0.0	0.0	0.0	0.0

## **Projected Water Demand for Other Proposed Projects**

Tables 8 and 9 show a summary of the projected water demand changes by user category. If the timeframe for a project to be built spans several years, the earliest possible date was used to calculate the changes in Table 9. The use categories of Single Family, Multi-Family, Commercial, Industrial, Institutional, and Municipal match the use categories used in the development of the 2015 UWMP. The values in Tables 8 and 9 below summarize the projected changes in water demand for each user category and the planning period in which the change is expected to occur. If a proposed project resulted in a change of use, such as a commercial building being converted to single-family residential housing, the existing water demand was subtracted from the corresponding category and the new water demand was added to the category for the new use. Table 8 summarizes proposed water demands for Projects assessed since the adoption of the 2015 UWMP as well as previous WSAs for projects that were

incorporated into the 2015 UWMP that have not yet been completed. A complete listing of these projects and their associated water demands are contained in Appendix A.

	2015-2019	2020-2024	2025-2029	2030-2034	2035-2040
Single Family	0.0	0.0	0.0	0.0	0.0
Multi-Family	644.6	580.6	29.8	151.8	80.6
Commercial	1,023.8	549.9	558.2	186.8	12.0
Industrial	0.0	0.0	0.0	0.0	0.0
Institutional	82.9	0.0	0.0	0.0	0.0
Municipal	0.0	0.0	0.0	0.0	0.0
TOTAL	1,751.3	1,130.5	588.0	338.6	92.6

Use Type	2015-2019	2020-2024	2025-2029	2030-2034	2035-2040
Single Family	0.0	0.0	0.0	0.0	0.0
Multi-Family	644.6	580.6	29.8	151.8	80.6
Commercial	1,240.2	549.9	558.2	186.8	12.0
Industrial	0.0	0.0	0.0	0.0	0.0
Institutional	82.9	0.0	0.0	0.0	0.0
Municipal	0.0	0.0	0.0	0.0	0.0
TOTAL	1,967.7	1,130.5	588.0	338.6	92.6

## Conclusion

This Assessment analyzed the impacts of changes in contractual limitations on water supply, development projects, and other additional factors that have occurred since the original 2015 UWMP was developed. Therefore, based on the analysis contained in this Assessment, the City of Santa Clara Water Utility has determined that there are sufficient water supplies to provide service to the proposed Project.

## References

- California Department of Water Resources. (2003). *California's Groundwater: Bulletin 118*. Retrieved 2017, from <http://www.water.ca.gov/groundwater/bulletin118/index.cfm/>
- California Department of Water Resources. (2014, June). *Groundwater Basin Prioritization*. Retrieved 2017, from Final CASGEM Basin Prioritization Results: [http://www.water.ca.gov/groundwater/casgem/basin\\_prioritization.cfm](http://www.water.ca.gov/groundwater/casgem/basin_prioritization.cfm)

City of Santa Clara. (2016). *City of Santa Clara 2015 Urban Water Management Plan*. Retrieved from [www.santaclaraca.gov/uwmp](http://www.santaclaraca.gov/uwmp)

## Appendix A

Project	Address	Number	Units	Use	Water Demand (AF)	Existing Demand (AF)	Demand Delta (AF)	Recycled Water Available?	Buildout Completion Date
2305 Mission College Boulevard	2305 Mission College Boulevard	25,000	Sq. ft	Office	2.5	12.0	216.4	Yes	2018
		470,600	Sq. ft	Data Center	225.8			Yes	2018
Gateway Crossings	1205 Coleman Avenue	33,000	Sq. ft	Retail	1.8	14.7	320.3	No	2019-2025
		182,000	Sq. ft	Hotel	97.9			No	2025
		1,600	Dwelling Units	Residential	216.9			No	2019-2022
		213,800	Sq. ft	Irrigation	18.4			Yes	2019-2025
BART Santa Clara Station and Joint Development WSA	335 Brokaw Road	30,000	Sq. ft	Retail	1.7	6.7	80.6	No	2025
		500,000	Sq. ft	Office	50.4				
		9,000	Sq. ft	BART Station/Maintenance Yard	5.4				
		220	Dwelling Units	Residential	29.8				
Santa Clara University Development Plan	500 El Camino Real	528,900	Sq. ft	Institutional	82.9	43.0	60.4	No	2016-2019
		151	Dwelling Units	Residential	20.5				
Lawrence Station	TBD	53,040	Sq. ft	Retail	3.0	45.4	232.7	No	2020

Project	Address	Number	Units	Use	Water Demand (AF)	Existing Demand (AF)	Demand Delta (AF)	Recycled Water Available?	Buildout Completion Date
Area Plan (Phase I)		12,904	Sq. ft	Amenity	1.6				
		366,351	Sq. ft	Irrigation	31.6				
		1,785	Dwelling Units	Residential	241.9				
Lawrence Station Area Plan (Phase II)	TBD	33,280	Sq. ft	Retail	1.9	28.5	146.0	No	2030
		8,097	Sq. ft	Amenity	1.0				
		229,867	Sq. ft	Irrigation	19.8				
		1,120	Dwelling Units	Residential	151.8				
Lawrence Station Area Plan (Phase III)	TBD	17,680	Sq. ft	Retail	1.0	15.1	77.5	No	2035
		4,301	Sq. ft	Amenity	0.5				
		122,117	Sq. ft	Irrigation	10.5				
		595	Dwelling Units	Residential	80.6				
Santa Clara Square Apartments	TBD	4,500	Sq. ft	Office	0.5	119.5	168.3	Yes	2018
		40,000	Sq. ft	Retail	2.2				
		38,000	Sq. ft	Amenity	4.7				
		422,000	Sq. ft	Irrigation	36.4				
		1,800	Dwelling Units	Residential	244.0				
City Place Parcel 5 (Phase 1)	TBD	258,000	Sq. ft	Office	26.0	311.3	(95.3)	Yes	2019
		87,000	Sq. ft	Retail	4.9				

Project	Address	Number	Units	Use	Water Demand (AF)	Existing Demand (AF)	Demand Delta (AF)	Recycled Water Available?	Buildout Completion Date
		280,000	Sq. ft	Hotel	150.5				
		87,100	Sq. ft	Irrigation	7.5				
		200	Dwelling Units	Residential	27.1				
City Place Parcel 4 (Phases 2-4)	TBD	1,386,400	Sq. ft	Office	139.8	0*	656.6	Yes	2020-2023
		1,415,000	Sq. ft	Retail	79.2				
		298,000	Sq. ft	Hotel	160.2				
		1,393,900	Sq. ft	Irrigation	120.2				
		1,160	Dwelling Units	Residential	157.2				
City Place Parcel 3 (Phase 5)	TBD	720,000	Sq. ft	Office	72.6	0*	152.6	Yes	2025
		927,800	Sq. ft	Irrigation	80.0				
City Place Parcel 1 (Phase 6)	TBD	1,200,000	Sq. ft	Office	121.0	0*	192.8	Yes	2027
		832,000	Sq. ft	Irrigation	71.8				
City Place Parcel 2 (Phase 7)	TBD	1,080,000	Sq. ft	Office	108.9	0*	164.1	Yes	2029
		640,350	Sq. ft	Irrigation	55.2				
City Place Parcel 2 (Phase 8)	TBD	1,080,000	Sq. ft	Office	108.9	0*	164.1	Yes	2031
		640,350	Sq. ft	Irrigation	55.2				
Santa Clara Square	2465-2727 Augustine 3333 Bowers	138,000	Sq. ft	Retail	7.7	46.8	207.7	Yes	2014-2015
		1,862,100	Sq. ft	Office	189.7				

Project	Address	Number	Units	Use	Water Demand (AF)	Existing Demand (AF)	Demand Delta (AF)	Recycled Water Available?	Buildout Completion Date
		661,900	Sq. ft	Irrigation	57.1				
3515 Monroe St.	3515 Monroe St.	825	Dwelling Units	Residential	158.0	6.1	179.2	No	2015-2017
		14,929	Sq. ft	Amenity	1.3				
		15,200	Sq. ft	Retail	0.9				
		20,000	Sq. ft	Market	5.4				
		5,000	Sq. ft	Restaurant	5.8				
		161,483	Sq. ft	Irrigation	13.9				
3333 Scott Blvd.	3333 Scott Blvd.	1,358,647	Sq. ft	Office	137.0	9.5	154.5	Yes	2015-2017
		284,000	Sq. ft	Irrigation	27.0				
3700 El Camino Real	3700 El Camino Real	475	Dwelling Units	Residential	159.6	1.2	283.7	No	2016-2019
		86,388	Sq. ft	Retail	4.8				
		133,000	Sq. ft	Irrigation	120.5				
2200 Lawson Lane	2200 Lawson Lane	300,000	Sq. ft	Office	30.2	5.8	110.8	No	2014-2016
		95,300	Sq. ft	Irrigation	86.4				
3000 Bowers Avenue	3000 Bowers Avenue	300,000	Sq. ft	Office	30.2	0.7	113.7	No	2013-2015
		92,925	Sq. ft	Irrigation	84.2				

\*Existing demand accounted for in Phase 1 of City Place Project

Water demands were recalculated using the updated water use factors in the 2015 UWMP: Office (0.09 gpd/sf); Retail (0.05 gpd/sf)

gpd = gallons per day

sf = square feet