CORNERSTONE EARTH GROUP

TYPE OF SERVICES	Phase I Environmental Site Assessment Tamien Station Transit-Oriented Development
LOCATION	1197 Lick Avenue San Jose, California
CLIENT	UrbanCo Tamien LLC
PROJECT NUMBER	183-10-1
DATE	September 18, 2017

CORNERSTONE EARTH GROUP

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Location	**1197 Lick Avenue** **San Jose, California**
Client	**UrbanCo Tamien LLC**
Client Address	**1871 The Alameda, Suite 200** **San Jose, California 95126**
Project Number	**183-10-1**
Date	**September 18, 2017**

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CORNERSTONE EARTH GROUP

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Type of Services	**Phase I Environmental Site Assessment** **Tamien Station Transit-Oriented Development**
Location	**1197 Lick Avenue** **San Jose, California**

SECTION 1: INTRODUCTION

This report presents the results of the Phase I Environmental Site Assessment (ESA) performed at 1197 Lick Avenue in San Jose, California (Site) as shown on Figures 1 and 2. This work was performed by Cornerstone Earth Group, Inc. (Cornerstone) for UrbanCo Tamien LLC in accordance with our August 2, 2017 Agreement (Agreement). Cornerstone previously prepared a Phase I ESA report for the Site that was dated June 12, 2015. For completeness, information obtained during our prior study is incorporated into the current report.

1.1 GENERAL PROJECT DESCRIPTION

Cornerstone understands that UrbanCo Tamien LLC is working with the Valley Transportation Authority (VTA) and is considering redeveloping the Site with a new residential and affordable housing mixed-use development. The primary existing uses on the approximately 7-acre Site are a child care center and a surface parking lot which serves both the child care center and the adjacent Caltrain/VTA Light Rail Station. The northern portion of the Site is undeveloped.

The planned development for the northern portion of the Site will include two four-level wood-frame residential and retail structures over a one-level podium structure and a five-story affordable housing building over a one-level podium structure. We understand the one-level podium structures will transition from below-grade along Lick Avenue to at-grade along the western property line. Cuts up to about approximately 10 to 15 feet may be required for the below-grade portion of the podium. Appurtenant parking, utilities, landscaping and other improvements necessary for Site development are also planned.

1.2 PURPOSE

The scope of work presented in the Agreement was prepared in general accordance with ASTM E 1527-13 titled, “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process” (ASTM Standard). The ASTM Standard is in general compliance with the Environmental Protection Agency (EPA) rule titled, “Standards and Practices for All Appropriate Inquiries; Final Rule” (AAI Rule). The purpose of this Phase I ESA is to strive to identify, to the extent feasible pursuant to the scope of work presented in the Agreement, Recognized Environmental Conditions at the property.

As defined by ASTM E 1527-13, the term 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. De minimis conditions are not Recognized Environmental Conditions.

We performed this Phase I ESA to support UrbanCo Tamien LLC in evaluation of Recognized Environmental Conditions at the Site. This Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for Recognized Environmental Conditions at the Site.

1.3 SCOPE OF WORK

As presented in our Agreement, the scope of work performed for this Phase I ESA included the following:

- A reconnaissance of the Site to note readily observable indications of significant hazardous materials releases to structures, soil or ground water.
- Drive-by observation of adjoining properties to note readily apparent hazardous materials activities that have or could significantly impact the Site.
- Acquisition and review of a regulatory agency database report of public records for the general area of the Site to evaluate potential impacts to the Site from reported contamination incidents at nearby facilities.
- Review of readily available information on file at selected governmental agencies to help evaluate past and current Site use and hazardous materials management practices.
- Review of readily available maps and aerial photographs to help evaluate past and current Site uses.
- Interviews with persons reportedly knowledgeable of existing and prior Site uses.
- Preparation of a written report summarizing our findings and recommendations.

The limitations for the Phase I ESA are presented in Section 10; the terms and conditions of our Agreement are presented in Appendix A.

1.4 ASSUMPTIONS

In preparing this Phase I ESA, Cornerstone assumed that all information received from interviewed parties is true and accurate. In addition, we assumed that all records obtained by other parties, such as regulatory agency databases, maps, related documents and environmental reports prepared by others are accurate and complete. We also assumed that the boundaries of the Site, based on information provided by UrbanCo Tamien LLC, are as shown on Figure 2. We have not independently verified the accuracy or completeness of any data received.

1.5 ENVIRONMENTAL PROFESSIONAL

This Phase I ESA was performed by Stason I. Foster, P.E. and Kurt M. Soenen, P.E., Environmental Professionals who meet the qualification requirements described in ASTM E

1527-13 and 40 CFR 312 § 312.10 based on professional licensing, education, training and experience to assess a property of the nature, history and setting of the Site.

SECTION 2: SITE DESCRIPTION

This section describes the Site as of the date of this Phase I ESA. The location of the Site is shown on Figures 1 and 2. Tables 1 through 3 summarize general characteristics of the Site and adjoining properties. The Site is described in more detail in Section 7, based on our on-Site observations.

2.1 LOCATION AND OWNERSHIP

Table 1 describes the physical location, and ownership of the property, based on information provided by UrbanCo Tamien LLC. In addition to the 1197 Lick Avenue address used by the current Tamien Child Care Center, multiple historical Site addresses were identified during this study that include odd numbers between 1161 and 1301 Lick Avenue. These addresses were identified during our review of historical Sanborn fire insurance maps, city directories, Building Department and Fire Department files.

Table 1. Location and Ownership

Assessor's Parcel No. (APN)	434-13-041
Reported Address/Location	1197 Lick Avenue, San Jose, California
Owner	Santa Clara Valley Transportation Authority (VTA)
Approximate Lot Size	7 acres

2.2 CURRENT/PROPOSED USE OF THE PROPERTY

The current and proposed uses of the property are summarized in Table 2.

Table 2. Current and Proposed Uses

Current Use	Undeveloped land, Tamien Child Care Center, and modular office building occupied by PTRAC (Provider Training, Resource & Activity Center).
Proposed Use	Residential and retail mixed use development.

2.3 SITE SETTING AND ADJOINING PROPERTY USE

Land use in the general Site vicinity appears to be a mix of residential and commercial properties, along with undeveloped land and railroad right-of-way. Based on our Site vicinity reconnaissance, adjoining Site uses are summarized below in Table 3.

Table 3. Adjoining Property Uses

North	Undeveloped land. Residences are located along Goodyear Street.
South	Undeveloped land and Skyline at Tamien residential development.
East	Residences, a plumbing business, and West Coast Marbel & Granite (across Lick Avenue).
West	Tamien Multi-Modal Station (*i.e.*, Tamien Caltrain Station and Light Rail Transit Station) and associated railroad track right-of-way.

SECTION 3: USER PROVIDED INFORMATION

The ASTM standard defines the User as the party seeking to use a Phase I ESA to evaluate the presence of Recognized Environmental Conditions associated with a property. For the purpose of this Phase I ESA, the User is UrbanCo Tamien LLC. The "All Appropriate Inquiries" Final Rule (40 CFR Part 312) requires specific tasks be performed by or on behalf of the party seeking to qualify for Landowner Liability Protection under CERCLA (*i.e.*, the User).

Per the ASTM standard, if the User has information that is material to Recognized Environmental Conditions, such information should be provided to the Environmental Professional. This information includes: 1) specialized knowledge or experience of the User, 2) commonly known or reasonably ascertainable information within the local community, and 3) knowledge that the purchase price of the Site is lower than the fair market value due to contamination. A search of title records for environmental liens and activity and use limitations also is required.

3.1 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

An environmental lien is a financial instrument that may be used to recover past environmental cleanup costs. Activity and use limitations (AULs) include other environmental encumbrances, such as institutional and engineering controls. Institutional controls (ICs) are legal or regulatory restrictions on a property's use, while engineering controls (ECs) are physical mechanisms that restrict property access or use.

The regulatory agency database report described in Section 4.2 did not identify the Site as being in 1) US EPA databases that list properties subject to land use restrictions (*i.e.*, engineering and institutional controls) or Federal Superfund Liens or 2) lists maintained by the California Department of Toxic Substances Control (DTSC) of properties that are subject to AULs or environmental liens where the DTSC is a lien holder.

ASTM E 1527-13 categorizes the requirement to conduct a search for Environmental Liens and AULs as a User responsibility. A search of land title records for environmental liens and AULs was not within the scope of the current Phase I ESA.

3.1.1 Archaeological Investigations

The provided reports listed in Table 4 note that during the early 1990s, "a significant Indian burial ground" was found on-Site. Numerous bone fragments, ornaments and shells reportedly were discovered during an extensive archaeological investigation. Most human remains and associated grave goods were reburied on-Site in 1993 within a dedicated cemetery easement. A small group of unassociated human remains and several grave lots were later discovered and a second episode of reburial was completed on October 23, 2008. The cemetery reportedly contains the remains of about 125 Native American individuals that were exhumed and analyzed in a report by Mark G. Hylkema (2005) later published in 2007 by the Center for Archaeological Research at Davis (CARD)[1]. Although not related to environmental conditions at the Site, the presence of this burial ground will presumably restrict future uses of the cemetery easement area. The archaeological study reportedly indicated that a former on-Site cannery was first constructed in 1919 and was in existence until 1983. Cannery operations and number of structures reportedly grew in the 1920s to 1950s, but by the 1960s the business started to decline as the Santa Clara Valley transitioned from agricultural to high technology.

[1] CARD. 2007. *Publication Number 15. Santa Clara Valley Prehistory: The Tamien Station Site*.

3.2 SPECIALIZED KNOWLEDGE AND/OR COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

Based on information provided by or discussions with UrbanCo Tamien LLC, we understand that UrbanCo Tamien LLC does not have specialized knowledge or experience, commonly known or reasonably ascertainable information regarding the Site, or other information that is material to Recognized Environmental Conditions.

SECTION 4: RECORDS REVIEW

4.1 PRIOR REPORTS

To help evaluate the presence of Recognized Environmental Conditions at the Site, Cornerstone reviewed and relied upon the documents provided by the VTA (the Site owner) listed in Table 4. Please note that Cornerstone cannot be liable for the accuracy of the information presented in these documents. ASTM E1527-13 does not require the Environmental Professional to verify independently the information provided; the Environmental Professional may rely on the information unless they have actual knowledge that certain information is incorrect. A summary of the provided documents is presented below; please refer to the original reports for complete details (Appendix F).

Table 4. Prior Reports Provided by the VTA

Date	Author	Title
On-Site Reports		
May 1987	Terratech, Inc.	Report to Santa Clara County Transit District on the Alma Terminal Contamination Investigation.
September 18, 1997	Santa Clara Valley Water District (SCVWD)	Fuel Leak Site Closure Letter and Case Closure Summary, VTA Tamien Station, 1193 Lick Avenue, San Jose, California.
October 10, 2000a	Lowney Associates	Phase I Environmental Site Assessment, 1193 Lick Avenue, San Jose, California
November 27, 2000b	Lowney Associates	Soil and Ground Water Quality Evaluation, 1193 Lick Avenue, San Jose, California
April 13, 2001	Lowney Associates	Geotechnical Investigation, 1193 Lick Avenue, Tamien Station Townhome, San Jose, California
February 24, 2014	Engeo, Inc.	Geotechnical Feasibility Assessment, Tamien Station Transit Oriented Development, San Jose, CA (Draft)
Off-Site Reports (Northerly Adjacent Parcel)		
February 5, 2010	City of San Jose Environmental Services Department	Phase I Environmental Site Assessment, APN 434-13-032 (partial), San Jose, California
April 23, 2010*	City of San Jose Environmental Services Department	Limited Phase II Environmental Site Investigation, Proposed Tamien Park Site, APN 434-13-032, San Jose, California
August 13, 2012*	Cornerstone Earth Group	Phase I Environmental Site Assessment Rocketship Public School – Tamien Portion of APN 434-13-032, San Jose, California
October 22, 2012*	Cornerstone Earth Group	Phase II Investigation, Rocketship Public School – Tamien Portion of APN 434-13-032, San Jose, California

December 4, 2015	Cornerstone Earth Group	Updated Soil Mitigation Plan, Tamien City Park Project, Near Lick Avenue and Goodyear Street, San Jose, California
December 19, 2016	Cornerstone Earth Group	Soil Removal Completion Report, Planned Tamien City Park, Lick Avenue and Goodyear Street, San Jose, California

* Report provided by UrbanCo Tamien LLC and/or obtained from State Water Board Geotracker database.

4.1.1 Reported Past Site Uses

Based on the Phase I ESA by Lowney (2000a), the Site historically was developed with a cannery operated by the San Jose Canning Company until the mid-1960s. Cannery related structures included several canned goods warehouses, a box storage yard, a crate shed, a boiler room and a large cannery building. A railroad track spur also was present. California Canners and Growers Plant #2 occupied the on-Site buildings from the mid-1960s until 1984, at which time the Site was acquired by a new owner and leased to multiple tenants for a variety of uses. The VTA reportedly, purchased the Site in approximately 1989, and subsequently facilitated the removal and disposal of hazardous materials left by prior tenants and demolished the on-Site structures. The existing Tamien Childcare Center reportedly was constructed in approximately 1995 and a modular office building occupied by PTRAC was added in 1997.

Terratech, Inc. issued a report to the VTA in May 1987, prior to VTA's subsequent acquisition of the Site. The report provided information on the Site history, soil and ground water quality, the existence of hazardous materials, and a cost estimate for cleanup.

At the time of Terratech's investigation, numerous tenants were leasing the property for the following uses:

- Mechanical repair
- Auto body repair and painting
- Truck body manufacturing
- Fiberglass repair
- Wood working and machine shops
- Cannery and associated warehouses
- Truck trailer repair
- Forklift repair
- Piano repair
- Storage of landscaping supplies
- Anodizing
- Used tire storage
- Yard storage of vehicles and equipment
- General warehousing

Observations by Terratech revealed the usage and storage of degreasers, motor oil, lubricants, metallic anodizing liquids, paints, and hydrocarbon fuels. Terratech stated that "discharges of these liquids, especially crankcase drainings, onto the concrete pavements, bare ground and into the drainage system are apparent."

Three sumps (north, south, and main) were identified on-Site near the property boundary, adjacent to Lick Avenue, in the area currently occupied by PTRAC. The main sump was located in an area denoted as the "waste pit area." These sumps reportedly captured drainage

from various yard areas and floor drains, and subsequently discharged to the City of San Jose's sewer system. The south and main sumps were noted to have been approximately 7 and 12½ feet deep, respectively.

The former cannery reportedly processed a variety of fruits and vegetables. Four natural gas-powered steam boilers used in the canning process were located on-Site. An 18,000-gallon fuel oil underground storage tank (UST) installed on-Site in 1941 was used as a backup fuel source for the boilers. A 500-gallon gasoline UST was located at the cannery for fueling of cannery vehicles; the gasoline UST was located off-Site on the northerly adjacent parcel. Water supply for the former cannery operations was provided by four on-Site supply wells that were approximately 500 to 550 feet in depth. Other structures historically located on-Site included an incinerator located at the box repair building, a propane tank, detached storage sheds and a caustic tank.

4.1.2 Soil and Ground Water Sampling (Terratech, 1987)

Ground water and soil samples were evaluated by Terratech in the areas near the sumps and USTs. Soil samples also were collected in the former anodizing plant and former paint shop yard. Exploration and testing activities completed during Terratech's investigation are summarized in Table 5.

Table 5. Summary of Exploration and Testing Activities Completed by Terratech in 1987

Number of Borings	Location*	Boring Depth (feet)	Soil Analyses	Ground Water Analyses
1	Up-gradient	29½	Metals, pH, Cyanide	Metals, Volatile Organic Compounds (VOCs)
1	South sump	29½	Metals, VOCs, Oil & Grease	Metals, VOCs
1	Main sump	29½	Metals, VOCs, Oil & Grease	Metals, VOCs, Oil & Grease, Cyanide
1	18,000-gallon fuel oil UST	29½	Total petroleum hydrocarbons (TPH) as Gasoline and Diesel, Benzene, Toluene, Xylenes	TPH as Gasoline and Diesel, Benzene, Toluene, Xylenes
1	500-gallon gasoline UST	29½	TPH as Gasoline and Diesel, Benzene, Toluene, Xylenes, Lead	TPH as Gasoline and Diesel, Benzene, Toluene, Xylenes, Lead
3	Anodizing plant	1½ to 3½	Metals, pH, Cyanide	Not collected
1	Paint shop yard	6	Cadmium, Chromium, Lead, Zinc, pH, Volatile Organics	Not collected

* Note that a site plan showing boring locations was not included in the provided report.

Based on Cornerstone's review of the analytical data obtained by Terratech, elevated concentrations of lead were detected in 1 of 3 soil samples (at 350 milligrams per kilogram [mg/kg]) collected from the upper 2½ feet of soil at the former anodizing facility location. The residential screening level established by the DTSC (DTSC-SL[2]) for lead is 80 mg/kg. The

[2] DTSC has developed modified screening levels (DTSC-SLs, updated June 2017) based on the U.S. Environmental Protection Agency (US EPA) Regional Screening Levels (RSLs). DTSC-SLs and RSLs are used to screen sites for potential human health concerns where releases of hazardous chemicals have occurred. Under most circumstances, the presence of a chemical at concentrations below the corresponding screening level can be assumed not to pose a

sample in which the greatest concentration of lead was detected was additionally analyzed for soluble lead using Soluble Threshold Limit Concentration (STLC) extraction techniques. The detected soluble lead concentration (12 milligrams per liter [mg/L]) exceeded its STLC (5 mg/L)[3].

Copper (up to 120 mg/kg) and zinc (up to 400 mg/kg) concentrations detected in soil at the former anodizing facility location were elevated above typical natural background. These metal concentrations, however, do not exceed their respective residential US EPA regional screening levels (RSLs)[4].

Arsenic was detected in Site soil ranging from 8.9 to 21 mg/kg. Thallium was detected at concentrations ranging from 1.1 to 10 mg/kg. The residential RSLs for arsenic and thallium are 0.67 and 0.78 mg/kg, respectively. Note, however, that naturally occurring background concentrations of some metals in soil, such as arsenic and thallium, may exceed their respective screening levels. The US EPA and Cal/EPA generally do not require cleanup of contaminants in soil to below background levels. Bradford et.al. (1996) estimated that background arsenic concentrations in California soil types range from 0.6 mg/kg to 11 mg/kg. Scott (1991) documented background arsenic concentrations ranging up to 20 mg/kg. The California Regional Water Quality Control Board (CRWQCB, 2005) stated that "based on an informal review of environmental reports submitted to the RWQCB, a range of 5 to 20 [mg/kg] is typical for much of the Bay area." Upper estimates of background arsenic concentrations in the soil at Lawrence Berkeley National Laboratory range from 24 to 42 mg/kg (LBNL, 2009). Duverge (2011) concluded that the mean and upper estimate (the 99th percentile) for background arsenic levels in the San Francisco Bay Region are 4.61 mg/kg and 11.00 mg/kg, respectively. For thallium, fewer published sources of background data are available. The upper estimate of background thallium concentrations in the soil at Lawrence Berkeley National Laboratory was 10 mg/kg (LBNL, 2009); Bradford et.al. (1996) and Scott (1991) reported maximum background thallium concentrations in soil of 1.1 and 3.8 mg/kg, respectively.

The arsenic concentrations detected at the Site were relatively consistent. These samples were collected from six locations and at approximate depths ranging from ½ to 15 feet. The highest concentration (21 mg/kg) was from the 15 foot depth. Based on the concentrations and relatively consistent distribution across the Site and at varying depths, the detected arsenic appears likely to be representative of natural background levels. The detected thallium concentrations are further discussed in Section 4.1.6.

TPH as diesel, benzene, toluene and xylenes were not detected above laboratory detection limits in soil near the former on-Site fuel oil UST. TPH as gasoline (up to 22 mg/kg) was detected in soil near the former off-Site gasoline UST.

In ground water, Terratech reported that no petroleum hydrocarbons, VOCs or cyanide were detected. Most detected metals concentrations did not exceed drinking water maximum contaminant levels (MCLs) established by the State Water Resources Control Board. Lead

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significant health risk. A chemical concentration exceeding the screening level does not indicate that adverse impacts to human health are occurring or will occur but suggests that further evaluation of potential health concerns is warranted.

[3] The STLC is the concentration at which a waste is considered a hazardous waste, for waste disposal classification purposes, per Title 22 of the California Code of Regulations.

[4] Regional Screening Levels (RSLs, updated June 2017) were developed by US EPA, Region 9. DTSC recommends the use of US EPA RSLs for constituents for which no DTSC-modified SLs are published.

(0.020 mg/L) and nickel (0.17 mg/L) were detected in ground water samples collected near the south sump at levels slightly exceeding the MCL for nickel (0.1 mg/L) and "Action Level" for lead (0.015 mg/L)[5]; these metal concentrations are likely attributable to sediments within the shallow ground water samples.

Terratech recommended the following remedial actions:

- Excavation, transportation, and disposal of 200 cubic yards of impacted soil from the Anodizing area;
- Removal and disposal of the 500-gallon and 18,000-gallon USTs;
- Excavation, aeration, and backfilling of 200 cubic yards of impacted soil from the area surrounding the 500-gallon and 18,000-gallon USTs;
- Disposal of 500 gallons of sludge contained in two sumps;
- Closure of four water supply wells, approximately 500 to 550 feet in depth; and
- Asbestos abatement-removal and disposal of four boilers and related piping.

Lowney Associates (2000a) noted that VTA inspection reports from 1989 associated with demolition activities indicated that the two USTs, three sumps and asbestos containing materials were removed, and the four on-Site water supply wells were closed.

4.1.3 Removal of USTs and Sumps (1989)

Based on the 1997 SCVWD case closure documents, the three on-Site sumps, the on-Site 18,000-gallon fuel oil UST and the off-Site 500-gallon gasoline UST were removed in 1989. The SCVWD noted that during the 1987 study conducted by Terratech, no significant contaminant concentrations were detected near the sumps or heating oil tank. Following removal of the fuel oil UST, a soil sample was collected below the tank. Oil & Grease was reported in the soil sample at the laboratory detection limit of 20 mg/kg; benzene, toluene, ethylbenzene and xylenes (BTEX) were not detected.

At the off-Site gasoline UST, TPHg was detected in soil underlying the tank and impacted soil was over-excavated. A total of 900 cubic yards of soil and 1,850 gallons of ground water reportedly were removed from the excavation. Several ground water monitoring wells were subsequently installed near the UST (at off-Site locations). The SCVWD stated that quarterly monitoring of the wells continued through the first quarter 1997 and "ground water pollution levels have attenuated to below levels of regulatory concern." The 1997 SCVWD case closure letter states that "no further action related to the underground tank release is required."

4.1.4 Soil and Ground Water Sampling (Lowney Associates, 2000b)

To further evaluate soil and ground water quality at the Site, a study was conducted by Lowney Associates in 2000 that consisted of 1) collecting nine near surface soil samples for laboratory analysis, at approximate depths of ½ to 1 foot, from the former location of a railroad track spur, the former anodizing area, and areas of soil observed to contain building debris, 2) drilling of two exploratory borings to depths of approximately 5 feet near a former on-Site incinerator area, 3) collection of a ground water sample for laboratory analysis from a boring located down-gradient of the Site, and 4) a geophysical survey to evaluate the presence of underground metallic objects.

[5] In 1995, California's MCL for lead in drinking water was replaced with an Action Level, which triggers various requirements if exceeded.

The analyses of soil samples collected in the area of the former railroad track spur (EB 6, 7, and 8) detected TPH as oil (TPHo) at up to 290 mg/kg. The Water Board's current Tier 1 screening level for TPHo in soil is 5,100 mg/kg. Pesticides and PCBs were not detected in soil samples collected from the railroad track area.

Metals analyses were performed on soil samples collected from the former railroad track and anodizing areas. Analyses for lead also were conducted on the samples collected from the building debris area.

Lowney (2000b) stated that "most of the metal concentrations detected appear typical of naturally occurring background levels. However, lead, mercury, thallium, and nickel levels appear slightly higher than typical (average) background concentrations."

The detected mercury (up to 2.3 mg/kg) and nickel (up to 210 mg/kg) do not exceed their respective residential US EPA RSLs. The greatest concentrations of lead (75 and 120 mg/kg) were detected from areas observed to contain building debris. The residential DTSC-SL for lead is 80 mg/kg. Thallium was detected between 8.9 and 20 mg/kg (exceeding the residential RSL [0.78 mg/kg]). Lowney (2000b) noted; however, that the thallium levels detected in the soil samples, even those from different areas of the Site, were relatively consistent and "based on the consistent concentrations and lack of a suspected source, the levels may be naturally occurring."

At the former on-Site incinerator location, two borings were advanced. Lowney (2000b) stated that no burnt material or waste was observed and no soil samples were submitted for laboratory analysis. Analyses of a ground water grab sample collected from a boring located down-gradient of the Site (on the northerly adjacent parcel) did not detect petroleum hydrocarbons, BTEX or VOCs.

To evaluate whether USTs or other subsurface metallic structures may be present on the vacant portion of the Site (*i.e.*, the undeveloped area north of the existing parking lot and child care center), Lowney (2000b) retained registered geophysicist Jim Rezowalli to conduct a geophysical survey at the Site. Several magnetic anomalies were located by the survey. Test pits were subsequently excavated to identify the buried metallic source material creating the observed magnetic anomalies. The majority of the magnetic anomalies reportedly appeared to have been generated by the presence of buried steel piping. The largest magnetic anomaly, located on the southwest portion of the vacant lot, was generated by the presence of an approximate 10 foot section of railroad tracks buried approximately 4 feet below grade. Lowney stated that no USTs or other items of environmental concern were identified in any of the test pits.

4.1.5 Off-Site Studies

As listed in Table 4, several studies were completed between 2010 and 2016 by the City of San Jose and Cornerstone to evaluate the environmental setting of the northerly adjacent parcel; soil remedial excavation activities also were performed under the regulatory oversight of the Santa Clara County Department of Environmental Health (DEH).

The former on-Site cannery historically also occupied the northerly adjacent parcel. Because both properties have a similar history, soil quality data obtained from the northerly adjacent

parcel is likely to be generally representative of on-Site conditions. A brief summary of the data obtained during the off-Site studies is provided below.

In April 2010, the City contracted with AECOM to perform a subsurface investigation and evaluate soil and ground water quality at the northerly adjacent parcel. Six exploratory borings B-1 through B-6 were advanced. With exception of B-2, the borings were advanced to approximate depths ranging from 10½ to 24 feet. A subsurface obstruction was encountered in boring B-2 at an approximate depth of 2 feet. Ground water reportedly was only encountered in Boring B-1 at an approximate depth of 15 feet.

One soil sample was collected from each boring from an approximate depth of 2 feet or 5 feet and selectively analyzed for the following organic and inorganic compounds:

- TPHd, TPHo, and TPHg
- VOCs - EPA Method 8260B
- Semi-VOCs
- California Assessment Manual (CAM) 17 Metals
- Polychlorinated Biphenyls (PCBs)
- Herbicides
- Organochlorine Pesticides
- Oil and Grease

Laboratory analyses of the soil and ground water samples revealed the following:

- Oil and grease in 1 of 6 soil samples; Boring B-6 at 2 feet with a concentration of 235 mg/kg.

- Chloroform was detected in 6 of 6 soil samples ranging from 0.0025 mg/kg to 0.00555 mg/kg. The residential RSL for chloroform is 0.32 mg/kg.

- With exception of the soil sample from B-2, arsenic concentrations ranged from 3.09 mg/kg to 4.64 mg/kg. The soil sample from B-2 collected from an approximate depth of 2 feet contained an arsenic concentration of 25.8 mg/kg.

- Cadmium was detected in 6 of 6 soil samples ranging from 5.41 mg/kg to 7.2 mg/kg. Although higher than typical background levels, these concentrations do not exceed the residential RSL for cadmium of 71 mg/kg.

- Thallium was detected in 6 of 6 soil samples at concentrations ranging from 29.4 mg/kg to 33.9 mg/kg. These concentrations exceed typical background levels and the residential RSL of 0.78 mg/kg. See discussion in Section 4.1.6.

- No other petroleum hydrocarbons, VOCs, semi-VOCs, pesticides, herbicides or PCBs were detected above laboratory reporting limits in the soil samples analyzed. Other detected metal concentrations appear typical of natural background levels and/or are less than their respective residential RSLs.

- Laboratory analyses of the grab ground water sample collected from B-1 did not detect petroleum hydrocarbons, VOCs or semi-VOCs above laboratory reporting limits.

In 2012, Cornerstone performed a subsurface investigation on the northerly adjacent parcel that consisted of the advancement of ten exploratory borings to approximate depths ranging from 5 to 25 feet. Borings SB-1 to SB-6 were advanced near the former rail spur and along the common property line with the adjacent Southern Pacific railroad tracks; borings SB-7 and SB-8 were advanced near proposed school buildings; boring SB-9 was advanced on the northwest portion of the parcel within the footprint of a former cannery warehouse building; and boring SB-10 was advanced within the footprint of a former cannery warehouse structure located on the northeast portion of the parcel. The upper approximately 2 to 5 feet of soil on the parcel was noted to consist of fill with varying amounts of clay, silt, sand, and gravel[6].

Laboratory analyses of the soil samples collected from variable depths revealed low concentrations (below residential RSLs) of organochlorine pesticides. TPHg and VOCs were not detected.

TPHd, TPHo, PAH compounds and PCBs were sporadically detected in selected soil samples collected from the upper approximately 4 to 5 feet of soil from borings advanced in the general vicinity of the former railroad track spur on the western portion of the parcel. Seven of 12 soil samples collected from borings SB-2, SB-4, SB-5 and/or SB-9 contained concentrations of one or more of the following contaminants that exceeded its residential screening criteria: TPHd, TPHd, Benz(a)anthracene, Benzo(a)pyrene, Benzo(b)flouranthene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene, and PCBs (Aroclor 1254 and/or Aroclor 1260).

The detected metal concentrations generally appear typical of natural background concentrations and/or were less than their respective residential RSLs, except for lead from boring SB-5 (located near the property line with the adjacent railroad right-of-way) that contained a lead concentration of 240 mg/kg. The residential DTSC-SL for lead is 80 mg/kg. Lead concentrations in the other 12 soil samples ranged from 1.7 mg/kg to 54 mg/kg. It was concluded that lead-impacted soil does not appear to be a significant property-wide concern. Unlike the prior study conducted by the City of San Jose (2010) that identified elevated cadmium and thallium concentrations, no cadmium or thallium were detected in the soil samples analyzed during Cornerstone's 2012 study (See discussion in Section 4.1.6).

In 2015, the City of San Jose obtained regulatory oversight from DEH to help address the environmental concerns identified at the off-Site parcel. Cornerstone prepared an Updated Soil Mitigation Plan (SMP) dated December 4, 2015 that was approved by DEH on February 10, 2016. The City implemented the SMP in 2016 and submitted a Completion Report dated December 19, 2016 to DEH for their review and approval. Approximately 3,907 tons (or approximately 2,500 cubic yards) of impacted soil was removed from the off-Site parcel and disposed at an appropriate landfill during remedial activities. As of the date of this Phase I ESA, DEH has not yet responded to the provided completion report.

4.1.6 Discussion of Thallium and Cadmium Analyses

The metal analyses reported by Lowney (2000b) were performed by Sequoia Analytical using EPA test method 6010A (inductively coupled plasma-atomic emission spectroscopy [ICP-AES]). During the City of San Jose's 2010 study on the northerly adjacent parcel, metal analyses were

[6] The presence of fill was similarly noted in prior on-Site environmental and geotechnical studies. Engeo (2014) noted potential on-Site fill depths of up to 9 feet. On-Site fill depths of 1 to 5 feet were reported in borings drilled by Lowney Associates in 2000 and 2001.

conducted using EPA test method 200.7 (also an ICP-AES method). The specific test method used during the 1987 study by Terratech is not known.

Various publications[7] have documented the occurrence matrix effects resulting in false positive detections of thallium and other metals using ICP-AES test methods. Chapnick (2010) noted that elements analyzed by ICP may be impacted by other elements which have direct spectral overlap, wing overlap, and nearby emission scatter, and presented three case studies that demonstrate severe matrix effects on the accuracy of arsenic and thallium results. Chapnick (2010) concluded that ICP coupled with a mass spectrometer (ICP-MS) is usually a more definitive and accurate method of analysis compared to ICP-AES. In 2001, the US EPA Region 4 Office of Technical Services (OTS) issued an alert stating that a number of cases involving some low-level detections of arsenic, lead, and thallium in drinking water samples at Region 4 sites indicated that analyses by trace ICP for metals had produced false positives (US EPA, 2001).

During the study by Terratech (1987) thallium concentrations above typical background levels were detected in on-Site soil. During the City of San Jose (2010) study cadmium and thallium concentrations (above typical background levels) were detected at relatively consistent concentrations in every sample analyzed; however, no cadmium or thallium were detected in the soil samples analyzed from the same property during Cornerstone's 2012 study. These findings, and the lack of a suspected source for cadmium or thallium, suggest that correction factors may not have been appropriately applied during the prior ICP-AES analyses resulting in false-positive laboratory detections or positively biased detections for these metals.

4.2 STANDARD ENVIRONMENTAL RECORD SOURCES

Cornerstone conducted a review of federal, state and local regulatory agency databases provided by Environmental Data Resources (EDR) to evaluate the likelihood of contamination incidents at and near the Site. The database sources and the search distances are in general accordance with the requirements of ASTM E 1527-13. A list of the database sources reviewed, a description of the sources, and a radius map showing the location of reported facilities relative to the project Site are attached in Appendix B.

The purpose of the records review was to obtain reasonably available information to help identify Recognized Environmental Conditions. Accuracy and completeness of record information varies among information sources, including government sources. Record information is often inaccurate or incomplete. The Environmental Professional is not obligated to identify mistakes or insufficiencies or review every possible record that might exist with the Site. The customary practice is to review information from standard sources that is reasonably available within reasonable time and cost constraints.

4.2.1 On-Site Database Listings

VTA was listed at an on-Site address (1193 Lick Avenue) on the leaking underground storage tank (LUST) database. The case status was listed as being closed, consistent with the discussion presented in Section 4.1.3.

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[7] United States Environmental Protection Agency (US EPA). January 31, 2001. *OTS Alert #2, U.S. EPA Region 4 Office of Technical Service.*

Chapnick, Susan. D., et.al., Autumn 2010. *Arsenic and Thallium Data in Environmental Samples: Fact or Fiction?*, Remediation: The Journal of Environmental Cleanup Costs, Technologies & Techniques.

4.2.2 Nearby Spill Incidents

The northerly adjacent parcel, listed as Tamien Park, was identified on the Water Boards spills, leaks, investigation and cleanup (SLIC) database as an open case. This property was discussed in Section 4.1.5 and was remediated under DEH oversight in preparation for the new City park.

Sprig Electric was listed as a closed LUST case on the southerly adjacent parcel (1303 Lick Avenue). Based on the information presented in the agency database report, no other off-Site spill incidents were reported that appear likely to significantly impact soil, soil vapor or ground water beneath the Site. The potential for impact was based on our interpretation of the types of incidents, the locations of the reported incidents in relation to the Site and the assumed northwesterly ground water flow direction.

To obtain additional information regarding the adjacent Sprig Electric LUST case, a cursory review of readily available documents obtained from the Santa Clara County Department of Environmental Health (DEH) Local Oversight Program website (http://lustop.sccgov.org) was performed. Based on a 1994 case closure summary prepared by the SCVWD, two gasoline USTs and a diesel UST were removed from the property in 1993. Impacted soil was subsequently excavated to a depth of 15 feet. Analyses of verification soil samples reportedly did not detect TPHg, TPHd or BTEX compounds. Based on these findings, this adjacent LUST case appears unlikely to have significantly impacted the Site.

4.3 ADDITIONAL ENVIRONMENTAL RECORD SOURCES

The following additional sources of readily ascertainable public information for the Site also were reviewed during this Phase I ESA.

4.3.1 City and County Agency File Review

Cornerstone requested available files pertaining to the Site (*i.e.*, odd numbered addresses between 1161 to 1301 Lick Avenue) at the following public agencies: San Jose Building Department (BD), San Jose Fire Department (FD), and the Santa Clara County Department of Environmental Health (DEH). The information reviewed is summarized in Table 6. A representative of the DEH indicated that they have no files pertaining to the Site.

Table 6. File Review Information

Agency Name	Date	Occupant (Address No.)	Remarks
BD	1942-1944	San Jose Canning Company (1193)	Building permits for a warehouse, a boiler house, a cook room and office alterations.
BD	1954	NA (1293)	Building permit for a warehouse for building materials and canning machinery.
BD	1956-1964	San Jose Canning Company (1193)	Building permits for warehouse additions, a scale room and a toilet room.
BD	1964	California Canners and Growers Plant #2 (1193)	Building permit for a cooling tower.

BD	1969-1982	California Canners and Growers Plant #2 (1193)	Gas permit (*i.e.*, natural gas), various electrical permits and a building permit for a cook room.
BD	1979	California Canners and Growers Plant #2 (1193)	Electrical permit.
FD	1981	California Canners and Growers Plant #2 (1193)	Permit for fire sprinklers.
FD	1986	Cooks Truck Body Manufacturing Inc. (1251)	Inspection report requiring the submittal of a hazardous materials management plan.
FD	1986	Bonner Anodize (1219)	Industrial wastewater discharge application (for 3,000 gallons per day) and laboratory data sheet for a waste water analysis. Chromium, nickel and zinc were reported at 0.36, 0.85 and 0.61 mg/L. Cadmium, copper, lead and cyanide were reportedly not detected. pH was reported at 4.6. Chromium, sulfuric acid and caustic etching solutions were noted to be used at the facility. Multiple above ground tanks were depicted that contained anodizing, etching and deoxidizer solutions, dyes and rinse waters.
FD	1986	Bonner Anodize (1219)	Inspection report. A plan to eliminate wet floor conditions was required. A pH of 2 was reported beneath a walkway. Labeling and secondary containment requirements also were noted.
FD	NA	Mexicaly Body Shop (1211)	Hazardous materials management plan (HMMP) short form. Thinner, reducer and paints were noted to be stored in metal cabinets.
FD	1988	Burke Industries Warehouse (1171)	HMMP stating that Burke Industries occupied a warehouse (referred to as Building L) for storage of raw materials including various compounds containing antimony, zinc and lead (up to 10,000 pounds each) used within their off-Site rubber processing plant. All stored materials were noted to be in sealed container in solid form.
FD	1988	Cooks Truck Body Manufacturing Inc. (1251)	Inspection report noted that the Site is being vacated due to the light rail system.
FD	1989	Burke Industries Warehouse (1171)	Inspection report noted that the Site to be cleared for the light rail station.
BD	1989	NA (1161, 1181, 1195, 1211 and 1271)	Permits to demolish vacant buildings.
FD	1990	Alma-Lick Multi-Modal Terminal (1245)	Facility closure permit for a 550 gallon gasoline tank and an 18,000 gallon heating oil UST.

SECTION 5: PHYSICAL SETTING

We reviewed readily available geologic and hydrogeologic information to evaluate the likelihood that chemicals of concern released on a nearby property could pose a significant threat to the Site and/or its intended use.

5.1 RECENT USGS TOPOGRAPHIC MAP

A 1980 USGS 7.5 minute topographic map was reviewed to evaluate the physical setting of the Site. The Site's elevation is approximately 110 feet above mean sea level; topography in the vicinity of the Site slopes downward gently to the northwest towards the San Francisco Bay.

5.2 HYDROGEOLOGY

Based on our experience and information presented in Section 4.1, the shallow ground water beneath the Site was historically typically encountered at depths of approximately 15 to 20 feet. However, during environmental and geotechnical studies conducted by Cornerstone on the northerly adjacent property in 2012, ground water was not encountered to the maximum depth explored of 35 feet. Similarly, during the City's Phase II investigation performed in April 2010 on the northerly adjacent parcel, ground water was not observed in 5 of 6 borings drilled to a maximum depth of 25 feet (City of San Jose Environmental Services, 2010). Ground water reportedly was only encountered in boring B-1 at an approximate depth of 15 feet. Ground water likely flows toward the northwest, generally following local topography.

SECTION 6: HISTORICAL USE INFORMATION

The objective of the review of historical use information is to develop a history of the previous uses of the Site and surrounding area in order to help identify the likelihood of past uses having led to Recognized Environmental Conditions at the property. The ASTM standard requires the identification of all obvious uses of the property from the present back to the property's first developed use, or back to 1940, whichever is earlier, using reasonably ascertainable standard historical sources.

6.1 HISTORICAL SUMMARY OF SITE

The historical sources reviewed are summarized below. The results of our review of these sources are summarized in Table 7.

- **Historical Aerial Photographs:** We reviewed aerial photographs dated between 1939 and 2012 obtained from EDR of Shelton, Connecticut and from Quantum Spatial, Inc./Pacific Aerial Surveys of Novato, California; copies of aerial photographs reviewed are presented in Appendix C. Additional aerial images were viewed via Google Earth.

- **Historical Topographic Maps:** We reviewed USGS 15-minute and 7.5-minute historical topographic maps dated between 1899 and 1980; copies of historical topographic maps reviewed are presented in Appendix C.

- **Historical Fire Insurance Maps:** We reviewed Sanborn fire insurance maps dated 1891, 1915, 1950, 1956, and 1966 obtained from EDR; copies of Sanborn maps are presented in Appendix C.

Based on the above historical maps and photographs, the Site was historically used for agricultural purposes (row corps and orchards). Two dwellings and associated outbuildings were present on-Site by 1915. The 1939 aerial photograph shows several on-Site cannery structures; orchards and row crops remain on the western and southern portions of the Site. The former on-Site railroad track spur, along with several additional cannery buildings were added by 1948. Further expansion of the cannery is apparent during subsequent decades.

The Sanborn maps from the 1950s and 1960s depict an oil UST on-Site. The location of the depicted UST, as shown on Figure 3, is different than the 18,000 gallon fuel oil UST that was removed in 1989 from a location near the former boiler room. The Sanborn maps also note “oil storage” within a structure located west of the former boiler room.

By the early 1980s, cannery operations appear to have ceased and, by 1988, an increase in exterior stored items and vehicles is apparent (consistent with the previously reported occupancy of the Site by various non-cannery tenants). The cannery structures are shown to have been removed by the early 1990s. The existing transit station parking lot is shown to have been constructed by 1992 and the on-Site Tamien Child Care Center was built in approximately 1995.

Aerial photographs dated between 2003 and 2017 (viewed via Google Earth) show what appear to be several small stockpiles of soil on the southeast corner of the undeveloped portion of the Site. The 2014 photograph shows what appears to be a fenced contractor staging area on the undeveloped portion of the Site, and an increase in the volume of stockpiled soil. The contractor staging area was removed in 2016.

6.1.1 City Directory Review

To obtain additional information regarding past tenants, business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1922 through 2013. A summary of the city directory listings is presented in Table 7; the acquired city directory report is presented in Appendix D.

Table 7. City Directory Listings

Date	Address No.	Occupant
1930	1261	W. Humbolt San Jose Canning, Inc.
1935 to 1963	1193	San Jose Canning Company
1966, 1970 and 1975	1193	California Canners & Growers Plant 2
1985/1986	1181	Odd-Ball Tire Warehouse
1985/1986	1193	Bonner Anodize Future Market Distributors Southbay Racing Wood Clasics T&G Distributors Diversified Financial Services P D Q Anodizing Kevin Summers Tire Mounting
1985/1986	1195	Various cabinet shop businesses
1985/1986	1201	The Piano Work Shop
1986	1211	D&M Body Shop
1985	1219	Guaranteed Precision
1986	1219	Barry Craft Enterprises and Hansen Design
1986	1221	Toy Registry of America Dick Grannis Associates D&Bingo Supplies

1985/1986	1245	Sundance Cabinets Perry's Auto Repair American Tank & Trailer Repair
1985	1271	Perry's Auto Repair
1986	1271	JK Auto Body
1985/1986	1275	Fiberglass Unlimited
1985/1986	1281	All VW Shop For Your Body Only RKE Racing Triumphs Only
1986	1291	Aaron Concrete
1996 to 2013	1197	Tamien Child Care Center

SECTION 7: SITE RECONNAISSANCE

We performed a Site reconnaissance to evaluate current Site conditions and to attempt to identify Site Recognized Environmental Conditions. The results of the reconnaissance are discussed below. Additional Site observations are summarized in Table 8 in Section 7.2. Photographs of the Site are presented in Section 7.2.1.

7.1 METHODOLOGY AND LIMITING CONDITIONS

To observe current Site conditions (readily observable environmental conditions indicative of a significant release of hazardous materials), Cornerstone staff Stason I. Foster, P.E. visited the Site on August 25, 2017. The Site reconnaissance was conducted by walking representative areas of the Site, including the periphery of the structures and the Site periphery. The interior of the on-Site child care center structure was not viewed during our 2017 visit; however, it was viewed by Mr. Foster during our prior study in 2015. Cornerstone staff only observed those areas that were reasonably accessible, safe, and did not require movement of equipment, materials or other objects. Physical obstructions that limited our ability to view the ground surface at the Site included the existing on-Site buildings and associated asphalt paved vehicle drives and parking areas located on the southern portion of the Site.

7.2 OBSERVATIONS

At the time of our visit, the southern portion of the Site was developed with a single story building occupied by the Tamien Child Care Center and an asphalt paved parking lot used by the child care center and the westerly adjacent Tamien Multi-Modal Transit Station (VTA and Caltrain Station). The child care center building consisted predominantly of classrooms and associated office areas. Fenced playground areas were located adjacent to the building. Except for common janitorial cleaning supplies, no hazardous materials were observed with the child care facility.

A small modular office building occupied by PTRAC (Provider Training, Resource & Activity Center) was located adjacent to the north of the child care center on a portion of the asphalt paved parking lot. The developed portion of the Site was observed to have been graded to slope downward from Lick Avenue, generally to the west, towards an underpass extending below the adjacent VTA and Caltrain tracks. The underpass provides access to the Caltrain and VTA Light Rail transit platforms. Up to approximately 10 feet of soil appears to have been removed from the developed area of the Site during the prior construction/grading activities.

The northern portion of the Site was observed to consist of undeveloped land. Stockpiled soil was observed on the southeast corner of the undeveloped portion of the Site. The volume of the stockpiled soil was difficult to estimate due to the presence of tall grass and weeds.

Electricity and/or natural gas fuel sources appeared to be used for building heating/cooling purposes. Potable water appeared to be supplied by the local water service provider. The child care center and PTRAC buildings appeared to be connected to the publically owned sanitary sewer system; no on-Site septic systems were obvious. On-Site storm water catch basins appeared to discharge via below ground piping to the City's storm water drainage system. A pad mounted electrical transformer was observed along the entrance driveway to the on-Site parking lot area; no evidence of transformer oil leaks was readily apparent.

Table 8. Summary of Readily Observable Site Features

General Observation	Comments
Aboveground Storage Tanks	Not Observed
Agricultural Wells	Not Observed
Air Emission Control Systems	Not Observed
Boilers	Not Observed
Burning Areas	Not Observed
Chemical Mixing Areas	Not Observed
Chemical Storage Areas	Not Observed
Clean Rooms	Not Observed
Drainage Ditches	Not Observed
Elevators	Not Observed
Emergency Generators	Not Observed
Equipment Maintenance Areas	Not Observed
Fill Placement	Not Observed
Ground Water Monitoring Wells	Not Observed
High Power Transmission Lines	Not Observed
Hoods and Ducting	Not Observed
Hydraulic Lifts	Not Observed
Incinerator	Not Observed
Petroleum Pipelines	Not Observed
Petroleum Wells	Not Observed
Ponds or Streams	Not Observed
Railroad Lines	Not Observed
Row Crops or Orchards	Not Observed
Stockpiles of Soil or Debris	Observed as described above
Sumps or Clarifiers	Not Observed
Transformers	Observed as described above
Underground Storage Tanks	Not Observed
Vehicle Maintenance Areas	Not Observed
Vehicle Wash Areas	Not Observed
Wastewater Neutralization Systems	Not Observed

The comment "Not Observed" does not warrant that these features are not present on-Site; it only indicates that these features were not readily observed during the Site visit.

7.2.1 Site Photographs

Photograph 1. View of the on-Site child care center building.

Photograph 2. Interior of the child care center building (photo taken in 2015).

Photograph 3. PTRAC modular office building.

Photograph 4. On-Site parking lot.

Photograph 5. Undeveloped area on the northern portion of the Site (former construction staging area).

Photograph 6. Area of stockpiled soil.

SECTION 8: ENVIRONMENTAL QUESTIONNAIRE AND INTERVIEWS

8.1 ENVIRONMENTAL QUESTIONNAIRE / OWNER INTERVIEW

To help obtain information on current and historical Site use and use/storage of hazardous materials on-Site, during our 2015 study, we provided an environmental questionnaire to the Site owner (the VTA). The completed questionnaire is attached in Appendix E. Based on our review of the completed questionnaire, the VTA purchased the Site in 1989. The existing child care center building reportedly was constructed in late 1994. The prior on-Site construction staging area reportedly was used by Terralink/Parsons Construction beginning 2013. A preserved area was indicated to be present on-Site for reburied Native American remains. No information indicative of Recognized Environmental Conditions was noted.

To update the previously provided information, we contacted Ms. Jessie O'Malley Solis, Senior Real Estate Agent with the VTA, by telephone in August 2017. Ms. Solis indicated that there have been no significant changes to the Site use or environmental setting since completion of our prior study.

8.2 INTERVIEWS WITH PREVIOUS OWNERS AND OCCUPANTS

Contact information for previous Site owners and occupants was not provided to us. Therefore, interviews with previous Site owners and occupants could not be performed.

SECTION 9: FINDINGS, OPINIONS AND CONCLUSIONS (WITH RECOMMENDATIONS)

Cornerstone performed this Phase I ESA in general accordance with ASTM E1527-13 to support UrbanCo Tamien LLC in evaluation of Recognized Environmental Conditions. Our findings, opinions and conclusions are summarized below.

9.1 HISTORICAL SITE USAGE

Based on the information obtained during this study, the Site was historically occupied by two dwellings and associated outbuildings, and also used for agricultural purposes (row crops and orchards). A cannery was constructed on-Site in approximately 1919. The cannery was operated by the San Jose Canning Company until the mid-1960s. Cannery related structures included a several canned goods warehouses, a box storage yard, a crate shed, a boiler room and a large cannery building. A railroad track spur also was present. California Canners and Growers Plant #2 occupied the on-Site buildings from the mid-1960s until 1984, at which time the Site was acquired by a new owner and leased to multiple tenants for a variety of uses, such as automotive related businesses, an anodizing business, and woodworking and machine shops, among others.

The VTA purchased the Site in 1989 and subsequently facilitated the removal and disposal of hazardous materials left by prior tenants and demolished the on-Site structures. A parking lot associated with the westerly adjacent Tamien Multi-Modal Transit Station was constructed on the southern portion of the Site during the early 1990s. The existing Tamien Childcare Center was constructed in 1994/1995 and a modular office building occupied by PTRAC was added in

1997. A prior fenced area on the northern undeveloped portion of the Site was used for construction staging purposes.

9.2 CHEMICAL STORAGE AND USE

Detailed information regarding hazardous materials use by the former cannery was not identified within the data sources researched during this study. Various hazardous materials likely were used for equipment maintenance and repair. Additionally, fuel oil was stored on-Site in USTs as a backup fuel source for boilers at the cannery.

Records from the 1980s associated with a former anodizing business (Bonner Anodize) indicate that multiple above ground tanks were present that contained anodizing, etching and deoxidizer solutions, dyes and rinse waters. The automotive related businesses and other tenants that occupied the Site during the 1980s also used and stored hazardous materials. Observations by Terratech (1987) revealed the usage and storage of degreasers, motor oil, lubricants, paints, and hydrocarbon fuels. Terratech stated that discharges of these liquids, especially crankcase drainings, onto the concrete pavements, bare ground and into the drainage system were apparent.

9.3 FORMER USTS AND SUMPS

An 18,000 gallon fuel oil UST was removed at the Site in 1989 from a location near the former boiler room. Three on-Site sumps (north, south, and main) also were removed in 1989. The main sump was located in an area denoted as the “waste pit area.” These sumps reportedly captured drainage from various yard areas and floor drains, and subsequently discharged to the City of San Jose’s sewer system. The south and main sumps were noted to have been approximately 7 and 12½ feet deep, respectively. A 500 gallon gasoline UST also was removed from an off-Site location on the northerly adjacent parcel.

Following the completion of soil and ground water quality studies near the off-Site gasoline UST, the SCVWD issued a 1997 case closure letter and indicated that “no further action related to the underground tank release is required.” The SCVWD noted that during the 1987 study conducted by Terratech, no significant contaminant concentrations were detected near the on-Site sumps or heating oil tank.

The Sanborn maps from the 1950s and 1960s depict an oil UST on-Site. The location of the depicted UST, as shown on Figure 3, is different than the 18,000 gallon fuel oil UST that was removed. A prior geophysical survey at the Site (Lowney, 2000b) did not identify the presence of additional USTs; thus, it appears likely that the UST depicted on the Sanborn maps was previously removed. We recommend that soil and ground water sampling at the UST location be conducted to evaluate if residual contaminants are present.

9.4 PRIOR SOIL QUALITY STUDIES

As summarized in Section 4.1, prior studies at the Site and on the northerly adjacent parcel[8] have sporadically detected concentrations of metals (*e.g.*, lead, arsenic and thallium[9]),

[8] Because both properties have a similar history, soil quality data obtained from the northerly adjacent parcel is likely to be generally representative of on-Site conditions.

[9] As discussed in Section 4.1.6, it is suspected that the detected thallium concentrations were a result of false-positive laboratory detections or positively biased detections.

petroleum hydrocarbons, PAH compounds and PCBs in soil that exceeded their respective residential screening criteria.

Prior to development of the Site for residential use, we recommend that additional on-Site sampling be conducted to further evaluate the distribution of contaminants in Site soil. Since below grade parking is planned, the additional soil sampling will also help in characterizing the soil and evaluating off-Site disposal/reuse options. We also recommend preparing a Site Management Plan (SMP) and Health and Safety Plan (HSP). The purpose of these documents will be to establish appropriate management practices for handling impacted soil and/or ground water that may be encountered during construction activities. Based on the history of the Site, areas of impacted soil and/or ground water may be encountered during construction activities, which may require special monitoring, handling and/or disposal. The SMP also will help to limit potential construction delays.

9.5 RAIL LINES

A rail spur from the Southern Pacific railroad tracks that border the Site to the southwest was constructed in the 1940s. The former spur line was connected to the former cannery buildings and appears to have terminated on-Site. Prior soil sampling along the off-Site portion of the former rail spur detected various contaminants above residential environmental screening criteria in soil samples collected from the upper approximate 4 to 5 feet. We recommend additional soil sampling from various depths near the former rail spur alignment to help evaluate potential impacts to soil quality.

9.6 AGRICULTURAL USE

The Site was used for agricultural purposes for several decades. Pesticides may have been applied to crops in the normal course of farming operations. Prior soil sampling on the northerly adjacent parcel for organochlorine pesticides did not identify concentrations exceeding residential RSLs, suggesting that pesticides are likely not a significant on-Site concern. However, based on our review of historical aerial photographs, variable crop patterns were present on-Site, some of which were different than those on the northerly adjacent parcel. Pesticide types and application rates were often crop-dependent and, thus, may not have been consistent across the Site. Because residential use of the Site is planned, we recommend that soil sampling be conducted at the Site to evaluate if residual pesticide concentrations are present.

9.7 REGULATORY AGENCY OVERSIGHT

Due to the property's long industrial history, the presence of contaminants in soil at concentrations exceeding residential environmental screening criteria, and the Site's intended use for residential purposes, we recommend obtaining oversight from a regulatory agency such as the DEH, Water Board or DTSC. The SMP discussed above should be forwarded to the selected oversight agency for their review and approval.

9.8 IMPORTED SOIL

If the planned development will require importing soil for Site grading, we recommend documenting the source and quality of imported soil. The DTSC's October 2001 Clean Fill Advisory provides useful guidance on evaluating imported fill.

9.9 POTENTIAL ENVIRONMENTAL CONCERNS WITHIN THE SITE VICINITY

Based on the information obtained during this study, no hazardous material spill incidents have been reported in the Site vicinity that would be likely to significantly impact the Site.

9.10 ASBESTOS CONTAINING BUILDING MATERIALS (ACBMS)

As the on-Site child care center building was constructed in 1994, it is unlikely that the building materials contain asbestos. However, if demolition, renovation, or re-roofing of the building is planned, an asbestos survey may be required by local authorities or National Emissions Standards for Hazardous Air Pollutants (NESHAP) guidelines. NESHAP guidelines require the removal of potentially friable ACBMs prior to building demolition or renovation that may disturb the ACBM.

9.11 DATA GAPS

ASTM Standard Designation E 1527-13 requires the Environmental Professional to comment on significant data gaps that affect our ability to identify Recognized Environmental Conditions. A data gap is a lack of or inability to obtain information required by ASTM Standard Designation E 1527-13 despite good faith efforts by the Environmental Professional to gather such information. A data gap by itself is not inherently significant; it only becomes significant if it raises reasonable concerns. The following data gaps were identified:

- Contact information for the former occupants and owners of the Site was not provided to us. Thus, former occupants and owners were not interviewed during this study. The general environmental setting of the Site appears to have been established based on the information reviewed from other data sources. However, these individuals may have knowledge of the Site that is not otherwise readily available or apparent. Thus, the absence of these interviews may diminish our ability to identify Recognized Environmental Conditions.

9.12 DATA FAILURES

As described by ASTM Standard Designation E 1527-13, a data failure occurs when all of the standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the historical research objectives have not been met. Data failures are not uncommon when attempting to identify the use of a Site at five year intervals back to the first use or to 1940 (whichever is earlier). ASTM Standard Designation E 1527-13 requires the Environmental Professional to comment on the significance of data failures and whether the data failure affects our ability to identify Recognized Environmental Conditions. A data failure by itself is not inherently significant; it only becomes significant if it raises reasonable concerns. The following data failures were identified:

- Due to the long developed history of the Site, detailed information concerning operations by past Site occupants was not readily available from the information sources reviewed during this study. Although not uncommon, the lack of this data can diminish our ability to identify Recognized Environmental Conditions.

9.13 RECOGNIZED ENVIRONMENTAL CONDITIONS

Cornerstone has performed a Phase I ESA in general conformance with the scope and limitations of ASTM E 1527-13. This assessment identified the following Recognized Environmental Conditions.

- The Sanborn maps from the 1950s and 1960s depict an oil UST on-Site. Although the UST appears likely to have been removed, residual contaminants may remain in soil and/or ground water.
- Prior studies on and near the Site have sporadically detected concentrations of metals, petroleum hydrocarbons, PAH compounds and PCBs in soil that exceeded their respective residential screening criteria.
- The Site historically was used for agricultural purposes. There is a potential that residual pesticides could remain in Site soil. If present, this soil may require appropriate management.

This assessment identified the following Historical Recognized Environmental Conditions[10]:

- An 18,000 gallon fuel oil UST and three sumps were removed at the Site in 1989. In a 1997 case closure letter, the SCVWD noted that during the 1987 study conducted by Terratech, no significant contaminant concentrations were detected near the on-Site sumps or heating oil tank.

SECTION 10: LIMITATIONS

Cornerstone performed this Phase I ESA to support UrbanCo Tamien LLC in evaluation of Recognized Environmental Conditions associated with the Site. UrbanCo Tamien LLC understands that no Phase I ESA can wholly eliminate uncertainty regarding the potential for Recognized Environmental Conditions to be present at the Site. This Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for Recognized Environmental Conditions. UrbanCo Tamien LLC understands that the extent of information obtained is based on the reasonable limits of time and budgetary constraints.

Findings, opinions, conclusions and recommendations presented in this report are based on readily available information, conditions readily observed at the time of the Site visit, and/or information readily identified by the interviews and/or the records review process. Phase I ESAs are inherently limited because findings are developed based on information obtained from a non-intrusive Site evaluation. Cornerstone does not accept liability for deficiencies, errors, or misstatements that have resulted from inaccuracies in the publicly available information or from interviews of persons knowledgeable of Site use. In addition, publicly available information and field observations often cannot affirm the presence of Recognized Environmental Conditions; there is a possibility that such conditions exist. If a greater degree of confidence is desired, soil, ground water, soil vapor and/or air samples should be collected by Cornerstone and analyzed

[10] A past Recognized Environmental Condition that has been addressed to the satisfaction of the applicable regulatory agency or meeting unrestricted use criteria established by the applicable regulatory agency without subjecting the Site to required controls or restrictions.

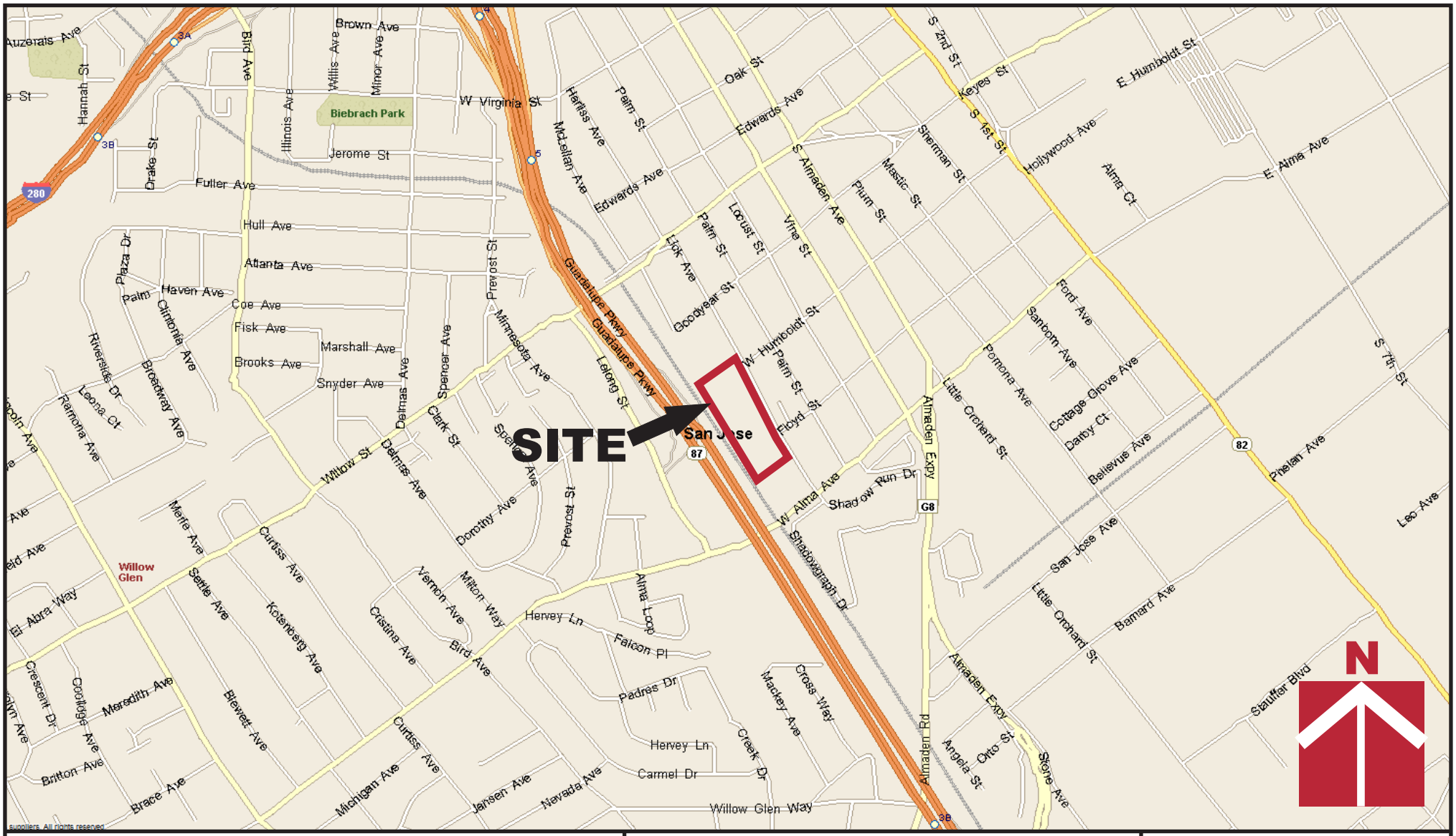
by a state-certified laboratory to establish a more reliable assessment of environmental conditions.

Cornerstone acquired an environmental database of selected publicly available information for the general area of the Site. Cornerstone cannot verify the accuracy or completeness of the database report, nor is Cornerstone obligated to identify mistakes or insufficiencies in the information provided (ASTM E 1527-13, Section 8.1.3). Due to inadequate address information, the environmental database may have mapped several facilities inaccurately or could not map the facilities. Releases from these facilities, if nearby, could impact the Site.

UrbanCo Tamien LLC may have provided Cornerstone environmental documents prepared by others. UrbanCo Tamien LLC understands that Cornerstone reviewed and relied on the information presented in these reports and cannot be responsible for their accuracy.

This report, an instrument of professional service, was prepared for the sole use of UrbanCo Tamien LLC and may not be reproduced or distributed without written authorization from Cornerstone. It is valid for 180 days. 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.

Cornerstone makes no warranty, expressed or implied, except that our services have been performed in accordance with the environmental principles generally accepted at this time and location.

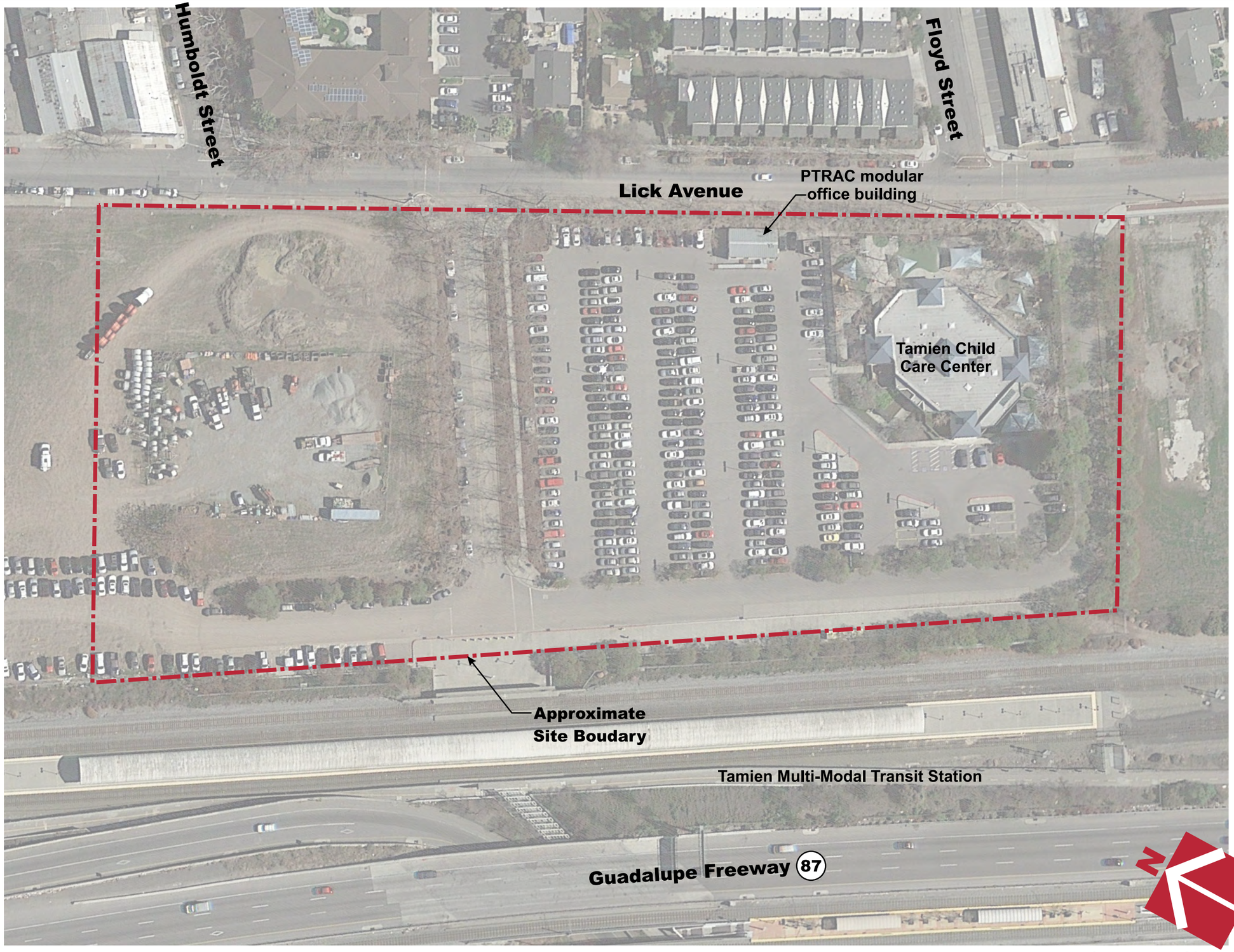


CORNERSTONE EARTH GROUP

Vicinity Map

Tamien Station
Transit-Oriented Development
San Jose, CA

Project Number	118-67-1
Figure Number	Figure 1
Date	June 2015
Drawn By	RRN



Base by Google Earth, dated 2/23/2014

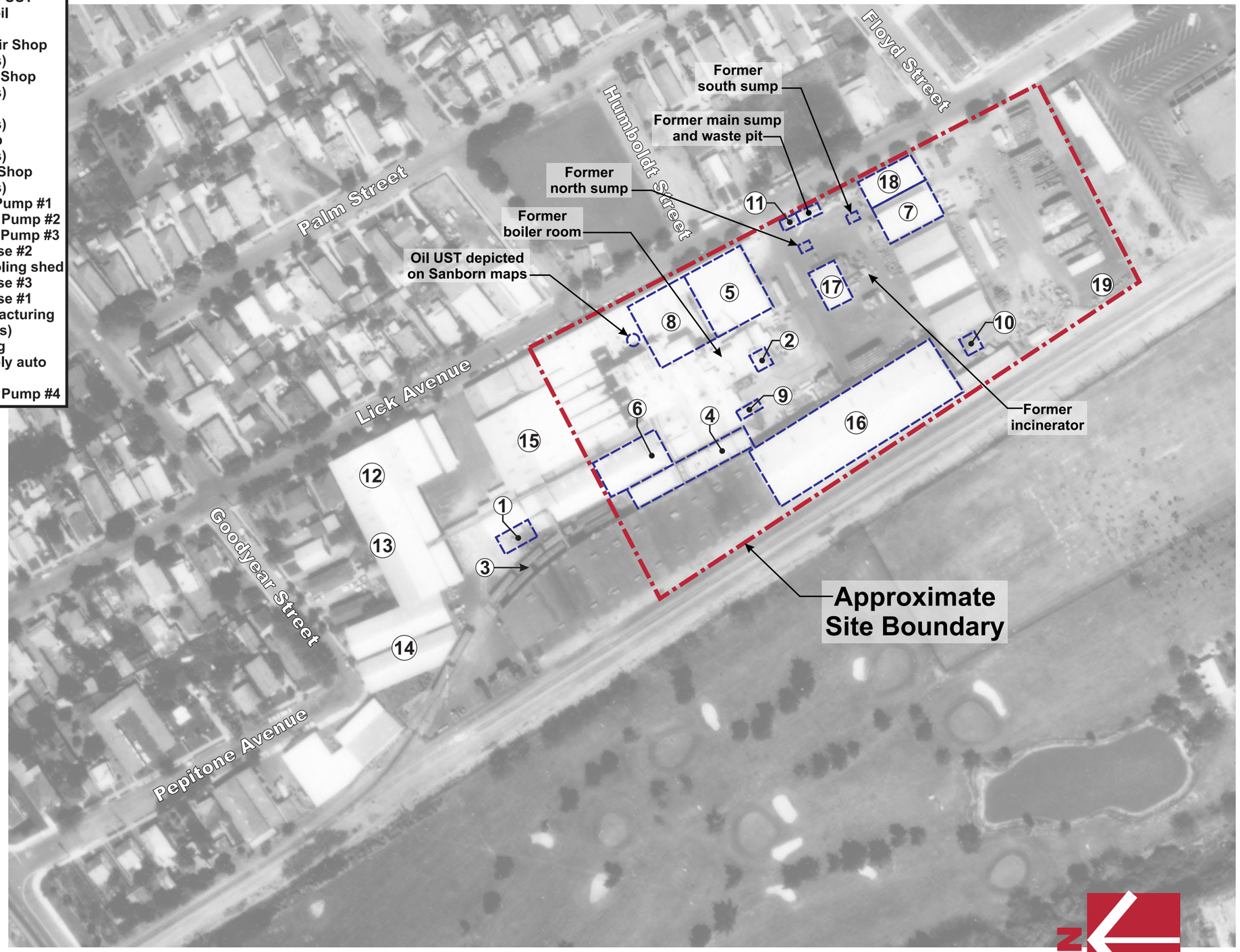
Project Number	118-67-1
Figure Number	Figure 2
Date	June 2015
Drawn By	RRN

Site Plan

Tamien Station
Transit-Oriented Development
San Jose, CA

CORNERSTONE EARTH GROUP

1. Former 500 gallon gasoline UST
2. Former 18,000 gallon fuel oil
3. Former Railroad Spur
4. Former Forklift/Truck Repair Shop (post-Cannery; circa 1980's)
5. Former Tank Trailer Repair Shop (post-Cannery; circa 1980's)
6. Former Anodize Shop (post-Cannery; circa 1980's)
7. Former JK Auto Body Shop (post-Cannery; circa 1980's)
8. Former Auto Body Repair Shop (post-Cannery; circa 1980's)
9. Former Pump House/Well Pump #1
10. Former Pump House/Well Pump #2
11. Former Pump House/Well Pump #3
12. Former Cannery warehouse #2
13. Former Cannery crate/cooling shed
14. Former Cannery warehouse #3
15. Former Cannery warehouse #1
16. Cook's Truck Body Manufacturing (post-cannery; circa 1980's)
17. Former box repair building
18. Triumphs Only (presumably auto repair; circa 1980's)
19. Former Pump House/Well Pump #4



N

0 150 300
APPROXIMATE SCALE (FEET)

Base by Google Earth, dated 2/23/2014

Project Number	Figure Number	Date	Drawn By
118-67-1	Figure 3	June 2015	RRN

1974 Aerial Photograph

Tamien Station
Transit-Oriented Development
San Jose, CA

CORNERSTONE EARTH GROUP

APPENDIX A – TERMS AND CONDITIONS

CORNERSTONE EARTH GROUP, INC.
TERMS AND CONDITIONS

1. Agreement

1.1 Cornerstone Earth Group, Inc.'s ("Cornerstone") services are defined by and limited to (a) those services (the "Work") described in the attached proposal, which is incorporated herein by this reference, and (b) these Terms and Conditions of Agreement ("Terms and Conditions"). Together, the proposal and Terms and Conditions form the "Agreement." This Agreement represents the entire agreement between the Client and Cornerstone (collectively, the "Parties") and supersedes all prior negotiations, representations, or agreements, either written or oral. The Agreement can only be amended by a written instrument signed by both the Client and Cornerstone. In the event that the Client authorizes the Work by means of a purchase order or other writing ("Confirmation"), it is expressly agreed that these Terms and Conditions shall apply, and any terms, conditions or provisions appearing in the Confirmation are void and inapplicable except to the extent the Confirmation authorizes the Work and binds the Client to this Agreement.

1.2. Failure to immediately enforce any provision in this Agreement shall not constitute a waiver of the right to enforce that provision or any other provision. No waiver by the Parties of a breach of any term or covenant contained in this Agreement, whether by conduct or otherwise, in any one or more instances shall be deemed to be or construed as a further or continuing waiver of any such breach or as a waiver of a breach of any other term or covenant in this Agreement.

2. Scope of Services

2.1 Cornerstone will serve the Client by providing professional counsel and technical advice based on information furnished by the Client. The Client will make available to Cornerstone all known information regarding existing and proposed conditions of the site, and will immediately transmit any new information that becomes available or any change in plans. The Client and Cornerstone agree that Cornerstone, its officers, directors, employees, agents and/or subcontractors shall not be liable for any claims, damages, costs, or losses arising from or in any way related to conditions not actually encountered during the course of Cornerstone's Work and Cornerstone shall not have any liability or responsibility for losses resulting from inaccurate or incomplete information supplied by the Client, and the Client agrees to defend and indemnify Cornerstone, its officers, directors, employees, agents and/or subcontractors against claims, damages, costs or losses arising therefrom. Cornerstone, its officers, directors, employees, agents and/or subcontractors shall not be liable for failing to discover any condition the discovery of which would reasonably require the performance of services not authorized by the Client.

3. Terms of Payment

3.1 The Client's obligation to pay for the Work is in no way dependent upon the Client's ability to obtain financing. The Client's obligation to pay for the Work is in no way dependent upon the Client's successful completion of the Client's project. No provision of this Agreement shall be construed to constitute a "Pay-When-Paid" clause or a "Pay-If-Paid" clause.

3.2 Payment for the Work shall be due and payable upon receipt of Cornerstone's invoice. To be recognized, any dispute over charges must be claimed in writing within thirty (30) calendar days of the billing date. Any dispute over an invoice amount shall not affect the Client's obligation to pay invoice amounts not in dispute. Amounts unpaid thirty (30) calendar days after the issue date of Cornerstone's invoice shall be assessed a service charge of 1 percent per month on balances outstanding.

3.3 Timely payment is a substantial condition of the Client's performance under this Agreement. Cornerstone may at its option withhold delivery of reports or other work product or suspend performance of the Work pending receipt of payments for all past due invoices and Cornerstone, its officers, directors, employees, agents and/or subcontractors shall have no liability to the Client for delay or damage caused because of such withholding or suspension. In the event that Cornerstone must take legal action to enforce this Agreement for payment for the Work performed and Cornerstone prevails, Cornerstone will be reimbursed by the Client for all expenses, including but not limited to reasonable attorney's fees and litigation costs.

4. Standard of Care

4.1 While performing the Work under this Agreement, Cornerstone shall exercise the degree of care and skill ordinarily exercised under similar circumstances by members of the environmental and geotechnical engineering consulting professions, as applicable, performing the kind of services to be performed hereunder and practicing in the same or similar locality at the same period of time.

4.2 Except for the express promise set forth in Subsection 4.1 herein, Cornerstone neither makes, nor offers, nor shall Cornerstone be liable to the Client for any express or implied warranties with respect to the performance of the Work.

5. Force Majeure

5.1 Cornerstone will diligently proceed with its services and will complete the Work in a timely manner, but it is expressly agreed to and understood by the Client that Cornerstone shall not be held responsible for delays occasioned by factors beyond its control, nor by factors which could not reasonably have been foreseen at the time of the execution of the Agreement between the parties.

5.2 Except for the obligation to pay for the Work performed and expenses incurred, neither Cornerstone nor the Client shall be liable for its failure to perform hereunder, in whole or in part, due to contingencies beyond its reasonable control, included, but not limited to, strikes or other concerted acts of workmen not in Cornerstone's employ, whether direct or indirect, riots, war, acts of terrorism, fire, floods, storms, washouts, acts of God or the public enemy, explosions, accidents, epidemics, breakdowns, injunctions, compliance with any law, regulation or order, whether valid or invalid, of the United States of America or any governmental body or any instrumentality thereof, whether now existing or hereafter created.

6. Effect of Delay or Impediment to Work

6.1 If any event occurs which causes or may cause Cornerstone: (a) to be impeded in its performance of the Services; or (b) to be delayed in the completion of the Work within the time provided in the attached proposal and/or in an applicable Change Order due to any act or omission of the Client, its officers, directors, employees and agents, or the Client's contractors, or due to any contingency beyond Cornerstone's control as provided in Section 5 herein, Cornerstone shall notify the Client in writing within ten (10) business days of the date on which Cornerstone becomes aware of such event.

6.2 The Client shall notify Cornerstone in writing of the Client's agreement or disagreement with Cornerstone's claim of an impediment or delay to performance within five (5) business days after receipt of Cornerstone's notice under Subsection 6.1. If the Client agrees with Cornerstone's claim, the time for performance of such requirement may be extended as mutually agreed in writing by the parties as provided in Subsection 1.1. If the Client disputes Cornerstone's assertion of an impediment or delay, such dispute shall be resolved pursuant to Section 17.

6.3 Impediments or delays to performance, addressed pursuant to this Section, shall not (a) constitute a breach hereunder; (b) give rise to any special right to terminate this Agreement; or (c) give rise to a claim by the Client for damages or other relief, if and to the extent that such impediment or delay is due to any act or omission of the Client, its officers, directors, employees and agents, or the Client's contractors, or due to any contingency beyond Cornerstone's control as provided in Section 5.

7. Right of Entry

7.1 Unless otherwise agreed in writing, the Client shall furnish and/or secure right of entry to the Site described in the proposal for Cornerstone personnel and equipment in order for Cornerstone to perform the Work. The Client shall waive any claim against Cornerstone, its officers, directors, employees, agents and/or subcontractors and agree to defend and indemnify Cornerstone, its officers, directors, employees, agents and/or subcontractors from any claims arising from entry onto the Site which is the subject of the Work.

7.2 The Parties acknowledge and agree that although Cornerstone will take reasonable precautions to minimize damage to property, including landscapes, hardscapes, crops and underground utilities, any and all damages, losses or expenses which could result from damage to such property due to Cornerstone's performance of the Work under this Agreement shall be the sole and exclusive responsibility of the Client provided that such damages, losses or expenses are not the result of Cornerstone's breach of the standard of care set forth in Subsection 4.1 herein. The Client shall indemnify, defend and hold harmless Cornerstone, its officers, directors, employees, agents and/or subcontractors from any damages, losses or expenses including, without limitation, attorney's fees, sustained or incurred by Cornerstone, its officers, directors, employees, agents and/or subcontractors as a result of any and all claims arising out of any damage to subsurface utilities due to Cornerstone's performance of the Work under this Agreement, provided that such claims are not the result of Cornerstone's breach of the standard of care set forth in Subsection 4.1 herein.

8. Monitoring of Construction

8.1 The Client acknowledges and understands that unanticipated or changed conditions may be encountered during construction. There is a substantial risk to the Client and to Cornerstone if Cornerstone is not engaged to provide complete services, including but not limited to, construction observation services. Such risks include the increased likelihood of misinterpretation of Cornerstone's findings and conclusions and error in implementing recommendations by Cornerstone. If Client fails to retain Cornerstone to provide complete services, the Client agrees, notwithstanding any other provisions of this Agreement, to the fullest extent permitted by law, to indemnify and hold harmless Cornerstone, its officers, partners, employees and Cornerstones from and against any and all claims, suits, demands, liabilities, losses, damages or costs, including reasonable attorneys' fees and defense costs arising out of or in any way connected with the Work or arising out of implementing or interpreting Cornerstone's work product except when the Claim arises from the sole negligence of Cornerstone or where the Claim arises from the willful, wanton or reckless conduct of Cornerstone.

8.2 Cornerstone shall not be required to make exhaustive or continuous on-site observations to check the quality or quantity of the Work and shall not be responsible for any contractor's failure to carry out the work in accordance with the contract documents.

8.3 Cornerstone shall not be responsible for the acts or omissions of any contractor or subcontractor or any of the contractors' or subcontractors' agents or employees or other persons performing any work on the Project.

9. Changed Conditions

9.1 If, during the term of this Agreement, circumstances or conditions that were not originally contemplated by or known to Cornerstone are revealed, to the extent that they affect the scope of services, compensation, schedule, allocation of risks or other material terms of this Agreement, Cornerstone may call for renegotiation of appropriate portions of this Agreement. Cornerstone shall notify the Client of the changed conditions necessitating renegotiation, and Cornerstone and the Client shall promptly and in good faith enter into renegotiation of this Agreement to address the changed conditions. If terms cannot be agreed to, the parties agree that either party has the absolute right to terminate this Agreement, in accordance with the termination provision hereof.

10. Jobsite Safety

10.1 Neither the professional activities of Cornerstone nor the presence of Cornerstone or its employees, subconsultants and subcontractors shall relieve the Client or the Client's General Contractor of its obligations, duties and responsibilities, including, but not limited to, health and safety programs. Cornerstone and its personnel have no authority to exercise any control over the site or any construction contractor or its employees in connection with their work or any health or safety programs or procedures. The Client acknowledges and agrees that Cornerstone shall not be responsible for jobsite safety.

11. Hazardous Materials and Environmental Contamination

11.1 The Client hereby warrants that if it knows or has any reason to assume or suspect that hazardous or toxic substances, or any other type of environmental hazard, contamination or pollution may exist at the Site, the Client will immediately inform Cornerstone to the best of the Client's knowledge of such hazardous or toxic substances, environmental hazard, contamination or pollution's type, quantity and location.

11.2 Cornerstone, its officers, directors, employees, agents and/or subcontractors shall have no title to, ownership of, or legal responsibility and/or liability for any and all contamination at the Site, including, but not limited to, the groundwater thereunder. "Contamination at the Site" includes but is not limited to any hazardous or toxic substance, or any other type of environmental hazard, contamination or pollution present at or under the Site, including, but not limited to the ground water thereunder, which is not brought onto the Site by Cornerstone, its officers, directors, employees, agents and/or subcontractors.

11.3 Cornerstone and the Client agree that the discovery of unanticipated Contamination at the Site may constitute a changed condition mandating renegotiation and/or termination of this Agreement. Cornerstone and the Client agree that the discovery of unanticipated Contamination at the Site may make it necessary for Cornerstone to take immediate measures to protect the public health, safety and the environment. The Client agrees that Cornerstone may take any or all measures that in Cornerstone's professional opinion are justified to preserve and protect the health and safety of Cornerstone's personnel, the public and the environment, and the Client agrees to compensate Cornerstone for the cost of such services.

11.4 The Client agrees to indemnify, defend and hold harmless Cornerstone, its officers, directors, employees, agents and/or subcontractors from any and all damages, losses or expenses, including, but not limited to, reasonable attorney's fees and legal costs connected therewith, liabilities, penalties and fines sustained by Cornerstone, its officers, directors, employees, agents and/or subcontractors as a result of any and all claim with respect to and arising out of any and all Contamination at the Site, provided that such claims are not the result of Cornerstone's breach of the standard of care set forth in Subsection 4.1 herein.

11.5 Subsurface sampling may result in unavoidable contamination of certain subsurface areas, as when a probe or boring is advanced or drilled through a contaminated area into a clean soil or water-bearing zone. Because of the risks posed by such work, and because subsurface sampling is often a necessary part of Cornerstone's Work, the Client hereby agrees to waive all claims against Cornerstone, its officers, directors, employees, agents and/or subcontractors with respect to and arising out of any and all subsurface sampling, including but not limited to claims relating to cross-contamination occurring because of such subsurface sampling, provided that such claims are not the result of Cornerstone's breach of the standard of care set forth in Subsection 4.1 herein.

12. Disposal of Samples and Drill Cuttings

12.1 Unless mutually agreed in writing by the Parties as provided in Subsection 1.1 herein, Cornerstone shall hold samples collected during the performance of the Work no longer than thirty (30) calendar days after their date of collection. Drill cuttings and waste materials will be left on-Site. In the event that soil, rock, water, drill cuttings and/or other samples or materials are contaminated or are suspected to contain hazardous materials or other toxic substances hazardous or detrimental to public health, safety or the environment as defined by federal, state or local law, Cornerstone will, after completion of testing, notify the Client of the same in order for the Client to arrange for the disposal of the samples and/or materials. The Client recognizes and agrees that Cornerstone at no time assumes title to said samples and/or materials, and that the Client is responsible for the disposal of such samples and/or materials. The Client agrees to pay all costs associated with any storage, transport and/or disposal of samples and/or materials, and to defend and indemnify Cornerstone, its officers, directors, employees, agents and/or subcontractors from any and all claims arising out of or in any way related to the storage, transport and/or disposal of asbestos, hazardous or toxic substances, and/or pollutants, including but not limited to any samples and/or materials.

13. Use and Ownership of Documents

13.1 All reports, letters, plans, figures, specifications, computer files, field data, logs, notes and other documents and instruments prepared by Cornerstone as instruments of service shall remain the property of Cornerstone. Cornerstone shall retain all common law, statutory and other reserved rights, including copyright thereto. In the event the Client, the Client's contractors or subcontractors, or anyone for whom the Client is legally liable makes or permits to be made any changes to reports, letters, plans, figures, specifications, computer files, field data, logs, notes and other documents prepared by Cornerstone without obtaining Cornerstone's prior written consent, the Client shall assume full responsibility for the results of such changes. Therefore, the Client agrees to waive any claim against Cornerstone and to release Cornerstone from any liability arising directly or indirectly from such changes. In addition, the Client agrees, to the

fullest extent permitted by law, to indemnify and hold harmless Cornerstone from any damages, liabilities or costs, including reasonable attorney's fees and costs of defense, arising from such changes.

The Client agrees that all reports, letters, plans, figures, specifications, computer files, field data, logs, notes and other documents and other services furnished to the Client or its agents and/or employees by Cornerstone, which are not paid for, shall be immediately returned upon demand and may not be used by the Client for any purpose. Any reports, letters, plans, figures, specifications, computer files, field data, logs, notes and other documents, advice or opinions provided by Cornerstone to the Client as part of the Work are provided for the sole and exclusive use of the Client for specific application to the Site detailed in this Agreement. Any third party use of any drafts, reports, letters, plans, figures, specifications, computer files, field data, logs, notes and other documents, advice or opinion of Cornerstone is the sole responsibility of the Client.

14. Insurance

14.1 Cornerstone, its officers, directors, employees and agents have and shall maintain during the term of this Agreement insurance in the following types: (a) Worker's Compensation Insurance; (b) Employer's Liability Insurance; (c) Commercial General Liability Insurance (GLI); and (d) Professional Liability Insurance.

14.2 Cornerstone shall, at the Client's request, provide the Client with a certificate of insurance or other satisfactory evidence that such insurance has been obtained and are maintained in force through the term of this Agreement. Any additional insurance policy or increase in the coverage of existing insurance required by the Client shall constitute an additional expense under this Agreement, and the Client shall reimburse Cornerstone for any additional premiums and costs incurred by Cornerstone in connection with obtaining such additional insurance.

15. Prevailing Wage Obligations

15.1 The Client shall notify Cornerstone in writing if the Work contemplated by this Agreement constitutes a "public work" under any and all federal, state and/or local prevailing wage laws, and/or living wage laws, including but not limited to the Davis-Bacon Act and the provisions of California Labor Code §§ 1720 *et seq.* In addition, the Client shall notify Cornerstone if Cornerstone is obligated by statute, any public contracting authority and/or a developer to pay prevailing wages and benefits and/or any predetermined wages or benefits (collectively, "prevailing wage obligations"). In the event that Cornerstone must adhere to federal, state and/or local prevailing wage obligations for the Work performed, the Client shall provide Cornerstone with any and all prevailing wage determinations applicable to the Work to be performed under this Agreement. Any prevailing wage obligations might affect the payment terms contemplated by this Agreement and thus constitute a changed condition mandating renegotiation and/or termination of this Agreement. The Client understands and agrees that Cornerstone will rely on the representations made by the Client with regard to prevailing wage obligations and the Client agrees to indemnify Cornerstone, its officers, directors, employees, agents and/or subcontractors against any and all claims, liabilities, suits, demands, losses, costs and expenses, including but not limited to reasonable attorney's fees and legal costs, arising from Cornerstone's reliance upon the Client's representations regarding prevailing wage obligations.

16. Limitations—THIS CLAUSE LIMITS CORNERSTONE'S LIABILITY

16.1 Cornerstone shall not be responsible for the validity or accuracy of data collected by others or for interpretations made by others.

16.2 Cornerstone's relationship with the Client under this Agreement shall be that of an independent contractor. Nothing in this Agreement shall be construed to designate Cornerstone, its officers, directors, employees, agents and/or subcontractors as employees, agents, joint ventures or partners of the Client. Cornerstone shall have no authority to bind, commit or obligate the Client in any manner and shall not hold itself out to third parties as being capable of doing so.

16.3 The Client and Cornerstone have discussed the risks and rewards associated with this project, as well as Cornerstone's fee for services. After negotiation, the Client and Cornerstone have expressly agreed to allocate certain of the risks so that, to the fullest extent permitted by law, the total aggregate liability of Cornerstone, its officers, directors, employees, agents and subcontractors to the Client and all third-parties is limited to $50,000 or the amount of Cornerstone's fee, whichever is greater, for any and all injuries, damages, claims, losses, expenses, or claim expenses (including attorney's fees) arising out of this Agreement from any cause or causes. Such causes include but are not limited to Cornerstone's negligence, errors, omissions, strict liability, breach of contract or breach of warranty. In no event shall Cornerstone, its officers, directors, employees, agents and/or subcontractors be liable in contract, tort, strict liability, warranty or otherwise, for any special, incidental or consequential damages, such as but not limited to delay, disruption, loss of product, loss of anticipated profits or revenue, loss of use of any equipment or system, non-operation or increased expense of operation of any equipment or systems, cost of capital, or cost of purchase or replacement equipment systems or power.

16.4 Notwithstanding any other provision of this Agreement , the total aggregate liability of Cornerstone, its officers, directors, employees, agents and subcontractors to the Client and all third parties, including attorney's fees awarded pursuant to this Agreement, for claims, damages or losses arising out of the treatment, transport, storage, discharge, dispersal or release of hazardous materials, shall be limited to $50,000 or the amount of Cornerstone's fee, whichever is greater and regardless of the legal theory under which liability is imposed.

16.5 For an additional 5% of Cornerstone's total fee or $500, whichever is greater, Cornerstone will raise the limitation of liability up to the amount that actually would be paid by Cornerstone's insurance carriers if Client and Cornerstone initial below:

LIMITATION INCREASE: THE LIMITATION OF LIABILITY IS INCREASED TO THE ACTUAL AMOUNT PAID BY CORNERSTONE'S INSURANCE CARRIERS IN EXCHANGE FOR AN ADDITIONAL FEE OF 5% OF THE TOTAL SERVICE CHARGE OR $500, WHICHEVER IS GREATER.

_____	_____	_____	_____
Client's Initial	Date	Cornerstone's Initial	Date

16.6 The Client shall indemnify, defend and hold harmless Cornerstone and its officers, directors, employees, agents and subcontractors from any and all damages, losses, or expenses, included but not limited to reasonable legal expenses and attorney's fees connected therewith, sustained by Cornerstone, its officers, directors, employees, agents and subcontractors as a result of any and all claims, demands, suits, causes of action, proceedings, judgments and liabilities for property damage, statutory penalty and/or personal injury with respect to and arising out of the Client's negligent acts, omissions or material breach of this Agreement. In the event a claim is the result of joint negligent acts or omissions of the Client and Cornerstone, the Client's duty of indemnification shall be in proportion to its respective allocable share of the joint negligence.

16.7 Client acknowledges and agrees that in no event shall any action or proceeding be brought against Cornerstone or proceeding be brought against Cornerstone by Client or its assignees for any claim or cause of action arising from or in any way related to the Work or this Agreement unless such action or proceeding is commenced within three (3) years from the Date of Completion of Work provided by Cornerstone under this Agreement. The Date of Completion shall be the date of the final invoice for the Work performed under this Agreement.

16.8 If Client requests that Cornerstone's work product be relied upon by a third party, including, but not limited to a lender, Client agrees to provide the third party with a copy of these terms and conditions, and Client agrees to require said third party to agree to limit Cornerstone's total liability to Client and any third party as described in paragraph 16.4 and Client agrees to indemnify Cornerstone, its officers, directors, employees, agents and/or subcontractors against any and all claims, liabilities, suits, demands, losses, costs and expenses, including but not limited to reasonable attorney's fees and legal costs, arising from third party claims, damages, costs and losses arising our of or in any way related to Work.

17. Disputing Cornerstone's Performance

17.1 Except as provided in Section 6 and Subsection 17.2 herein, if Cornerstone shall breach any provision herein, the Client shall notify Cornerstone within five (5) business days of the Client's knowledge of such breach. Except as provided in Subsections 17.3 herein, upon receipt of the Client's notice, Cornerstone shall have the option to take such corrective measures, if any, to remedy the breach, and shall notify the Client within five (5) business days after receipt of the

Client's notification of the corrective measures Cornerstone shall take and the estimated time period within which the corrective measures shall be taken. In no event shall Cornerstone be liable to the Client for any damages without being given a reasonable opportunity to remedy its breach as provided herein.

17.2 The Client shall make no claim for professional negligence unless the Client has first provided Cornerstone with a written certification executed by an independent Consultant currently practicing in the same discipline and locality as Cornerstone and licensed in the State of California. This certification shall (a) contain the name and license number of the certifier; (b) specify the acts or omissions that the certifier contends are not in conformance with the standard care for a Cornerstone performing professional services under similar circumstances; and (c) state in detail the basis for the certifier's opinion that such acts or omissions do not conform to the standard of care. This certificate shall be provided to Cornerstone no less than thirty (30) calendar days prior to the presentation of any claim or the institution of any mediation, arbitration or judicial proceeding.

17.3 Cornerstone agrees that upon receipt of written notice from the Client pursuant to Subsection 17.2 herein it will implement necessary corrections to the Work performed by Cornerstone that fails to conform to the standard of care that Cornerstone has accepted pursuant to Subsection 4.1, as mutually agreed in writing by the Parties as provided in Subsection 1.1. herein, if such written notice is received within one (1) year of the performance of the Work failing to conform to Subsection 4.1. If Cornerstone has been paid by the Client for such Work, Cornerstone shall perform the corrections at its own expense. If Cornerstone has not been paid by the Client for such Work, and the Work is subsequently corrected to conform with the standard of care that Cornerstone has accepted pursuant to Subsection 4.1, the Client shall pay Cornerstone in accordance with Section 3 herein.

17.4 In no event shall Cornerstone, its officers, directors, employees, agents and/or subcontractors be liable for any special, incidental or consequential damages, such as but not limited to delay, disruption, loss of product, loss of anticipated profits or revenue, loss of use of any equipment or system, non-operation or increased expense of operation of any equipment or systems, cost of capital, or cost of purchase or replacement equipment systems or power, or any other incidental, special, indirect or consequential damages of any kind or nature whatsoever resulting from Cornerstone's performance or failure to perform the Work in accordance with the standard of care that Cornerstone has accepted pursuant to Subsection 4.1.

18. Termination

18.1 Cornerstone shall have the right to terminate this Agreement ten (10) business days after written notice is sent to the Client if (a) the Client fails to pay any of Cornerstone's undisputed invoices within sixty (60) days from the date of the invoice; or (b) Cornerstone's attached proposal and/or the Work was based upon misinformation, whether by the Client or a third party, or upon information not fully disclosed to Cornerstone, whether by the Client or a third party.

18.2 Except as provided for in Section 6, and after compliance with Section 17, the Client shall have the right to terminate this Agreement ten (10) business days after written notice is sent to Cornerstone if Cornerstone fails to comply in any material respect with any of the material provisions herein and subsequently fails to notify the Client pursuant to Subsections 17.1 and 17.3 of the corrective measures Cornerstone intends to take.

18.3 The termination of this Agreement by Cornerstone under Subsection 18.1 herein, or by the Client under Subsection 18.2 herein, shall not relieve the Client of its obligations to pay Cornerstone for any of the Work performed and expenses incurred as of the date of termination, and shall not constitute a waiver by Cornerstone or the Client of any cause of action for breach of this Agreement or any provision herein.

19. Miscellaneous Provisions.

19.1 "Indemnity" Defined. The term "indemnify" shall mean indemnify, defend and hold harmless from and against any and all claims, liabilities, suits, demands, losses, costs and expenses, including but not limited to reasonable attorney's fees and all legal costs incurred on appeal, and all interest thereon, accruing or resulting to any and all persons, firms, or any other legal entities, on account of any damages or losses to property or persons, including death or economic losses, arising out of the item, matter, action or inaction specified in the specific provision.

19.2 Choice of Counsel. In any circumstance whereby Cornerstone is entitled to indemnification by the Client, Cornerstone shall have the right to select counsel of its choosing.

19.3 Successors and Assigns. This Agreement shall be binding upon and inure to the benefit of the Parties and their successors and assigns as provided herein. The Client shall not assign, sell, transfer or subcontract this Agreement or any interest herein without the prior written consent of Cornerstone. Cornerstone shall not assign, sell, transfer or subcontract this Agreement or any interest herein without the prior written consent of the Client. The Client hereby consents to the subcontracting of those portions of the Work as the attached proposal herein indicates are or will be subcontracted. Notwithstanding the above, Cornerstone shall have the right to assign monies due hereunder for the Work performed and expenses incurred.

19.4 Third Party Beneficiaries. The Parties agree that this Agreement is not intended by either Cornerstone or the Client to give any benefits, rights, privileges, actions or remedies to any person or entity, partnership, firm or corporation as a third party beneficiary or otherwise under any theory of law, that is not a signatory to this Agreement.

19.5 Survival. In order that the Parties may fully exercise their rights and perform their obligations arising from the performance of this Agreement, any provisions of this Agreement that are necessary to ensure such exercise or performance shall survive the termination of this Agreement.

19.6 Severability. If any part, term or provision of this Agreement shall be held illegal, unenforceable or in conflict with any federal, state or local law having jurisdiction over this Agreement, the validity of the remaining parts, terms or provisions of this Agreement shall not be affected thereby.

19.7 Choice of Law and Venue. This Agreement shall be governed by California law. The venue for any legal action brought pursuant to this Agreement shall be located within the County of Santa Clara, State of California.

19.8 Publicity. Unless otherwise mutually agreed in writing by the parties as provided in Subsection 1.1, Cornerstone may use and publish the Client's name and a general description of Cornerstone's services with respect to the Work in describing Cornerstone's experience and qualifications to other clients or prospective clients.

19.9 Signatories. Each undersigned representative of the Parties to this Agreement certifies that he or she is fully authorized to enter into the terms and conditions of this Agreement and to execute and legally bind such Party to this document.

19.10 Corporate Protection. It is intended by the parties to this Agreement that Cornerstone's services in connection with the Work shall not subject Cornerstone's individual employees, officers or directors to any personal legal exposure for the risks associated with this Project. Therefore, and notwithstanding anything to the contrary herein, the Client agrees that as the Client's sole and exclusive remedy, any claim, demand or suit shall be directed and/or asserted only against Cornerstone, a California Corporation, and not against any of Cornerstone's individual employees, officers or directors.

19.11 Code Compliance. Cornerstone shall exercise usual and customary professional care in its efforts to comply with applicable laws, codes and regulations as of the date of this Agreement.

19.12 Quotation. Unless stated in writing, this quotation shall not remain in effect after thirty (30) days of the Proposal date.

19.13 Contractors State License. Cornerstone maintains a General Engineering A license (No. 905816) with a Hazardous Substances Removal and Remedial Actions Certification with the State of California, which are regulated by the Contractors State License Board. Any questions concerning a contractor may be referred to the Registrar, Contractors State License Board, P.O. Box 26000, Sacramento, California 95826.

APPENDIX B – DATABASE SEARCH REPORT

Phase I ESA
1197 Lick Avenue
San Jose, CA 95110

Inquiry Number: 5024805.2s
August 16, 2017

The EDR Radius Map™ Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

GeoCheck - Not Requested

Thank you for your business.
Please contact EDR at 1-800-352-0050
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

1197 LICK AVENUE
SAN JOSE, CA 95110

COORDINATES

Latitude (North):	37.3128180 - 37˚ 18' 46.14''
Longitude (West):	121.8838210 - 121˚ 53' 1.75''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	598909.0
UTM Y (Meters):	4129955.2
Elevation:	117 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5640416 SAN JOSE WEST, CA
Version Date:	2012
East Map:	5640414 SAN JOSE EAST, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140606
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
1197 LICK AVENUE
SAN JOSE, CA 95110

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	TAMIEN PARK	1197 LICK AVENUE	CA NPDES		TP
A2	TAMIEN PARK (FORMERL	1197 LICK AVENUE	CA SLIC		TP
Reg	LORENTZ BARREL & DRU	1515 S 10TH ST	NPL, SEMS, US ENG CONTROLS, US INST CONTROL, CA...	Same	5231, 0.991, ENE
B3	1X SPRIGG ELECTRIC	1303 LICK AVE	CA HAZNET	Higher	3, 0.001,
B4	SPRIG ELECTRIC	1303 LICK AVE	CA LUST, CA HIST LUST, CA SWEEPS UST, CA HIST UST	Higher	3, 0.001,
B5	SPRIG ELECTRIC	1303 LICK AVE	CA RGA LUST	Higher	3, 0.001,
B6	SPRIG ELECTRIC	1303 LICK AVE	FINDS	Higher	3, 0.001,
B7	SPRIG ELECTRIC	1303 LICK AVENUE	CA HIST UST, CA HAZNET	Higher	3, 0.001,
B8	SPRIG ELECTRIC	1303 LICK AVENUE	CA RGA LUST	Higher	3, 0.001,
B9	SPRIG ELECTRIC	1303 LICK AVE	CA LUST, CA HIST CORTESE	Higher	3, 0.001,
A10	TAMIEN PLACE INVESTO	1275 LICK AVENUE	CA EMI	Lower	4, 0.001,
A11	TAMIEN PLACE INVESTO	1275 LICK AVENUE	FINDS	Lower	4, 0.001,
B12	TRIUMPHS ONLY	1281 LICK AVENUE	EDR Hist Auto	Lower	5, 0.001,
A13	LUZO S AUTO UPHOLSTE	1244 LICK AVE	EDR Hist Cleaner	Lower	91, 0.017, NE
C14	SORCI PETER S	1172 LICK AVE	EDR Hist Auto	Lower	103, 0.020, North
B15	CALIFORNIA DRYWALL C	390 FLOYD ST	CA SWEEPS UST	Lower	138, 0.026, ESE
C16	SCVTA - TAMIEN	1193 LICK AVE	CA LUST, CA HIST LUST	Lower	179, 0.034, NNW
C17	SCVTA TAMIEN	1193 LICK	CA LUST, CA HIST CORTESE	Lower	179, 0.034, NNW
18	SKYLINE AT TAMIEN ST	1375 LICK AV	CA CUPA Listings, CA SAN JOSE HAZMAT	Lower	374, 0.071, SSE
D19	ERNEST J FUNK CORP	1045 PEPITONE AVE	RCRA-SQG, FINDS, ECHO, CA HAZNET	Lower	550, 0.104, NW
D20	ATLAS TRANSMISSION	1035 PEPITONE AVE	RCRA-SQG, FINDS, ECHO	Lower	550, 0.104, NW
D21	B & M BODY SHOP	1035 PEPITONE AV 1	CA CUPA Listings, CA EMI, CA SAN JOSE HAZMAT	Lower	550, 0.104, NW
D22	B & M AUTOBODY SHOP	1035 PEPITONE AVE	EDR Hist Auto	Lower	550, 0.104, NW
E23	ALMA GOLF COURSE	455 W ALMA AVE	CA HIST UST	Lower	671, 0.127, South
E24	BPO ELKS CLUB	444 W ALMA AV	CA SAN JOSE HAZMAT	Lower	860, 0.163, South
F25	OUT OF BUSINESS	1143 LELONG ST SUITE	CA SAN JOSE HAZMAT	Lower	966, 0.183, WNW
F26	OUT OF BUSINESS	1127 LELONG ST	CA HAZNET, CA SAN JOSE HAZMAT	Lower	1024, 0.194, WNW
F27	LEES DIESEL SERVICE	1125 LELONG ST	RCRA-SQG, FINDS, ECHO, CA HAZNET, CA SAN JOSE...	Lower	1029, 0.195, WNW
28	FAHRNER PROPERTY	495 MINNESOTA AVE	CA LUST, CA HIST LUST, CA HIST CORTESE	Lower	1050, 0.199, West
F29	O/B (T & T AUTO BODY	458 WILLOW ST SUITE	CA SAN JOSE HAZMAT	Lower	1053, 0.199, WNW
F30	BRUZZONE PROPERTY	458 WILLOW ST	CA LUST, CA SLIC, CA HIST LUST	Lower	1053, 0.199, WNW
G31	THRIFTY OIL STN.#039	545 ALMA STREET	CA HIST UST	Lower	1128, 0.214, SSW
G32	THRIFTY #039 (ARCO #	545 WEST ALMA AVENUE	CA LUST, CA CHMIRS, CA ENF, CA NPDES	Lower	1128, 0.214, SSW
G33	ALMA ARCO	545 W ALMA AV	CA SWEEPS UST, CA CUPA Listings, CA EMI, CA SAN...	Lower	1128, 0.214, SSW
G34	THRIFTY OIL STN 039	545 ALMA STREET	CA LUST, CA HIST LUST, CA HIST UST, CA HIST...	Lower	1128, 0.214, SSW
G35	ARCO 05384	545 W ALMA AVE	CA UST	Lower	1128, 0.214, SSW
G36	ARCO FACILITY NO 053	545 W ALMA AVE	RCRA-SQG, FINDS, ECHO	Lower	1128, 0.214, SSW
F37	GUADALUPE RIVER PROJ	WILLOW STREET AND LE	CA SLIC	Lower	1131, 0.214, WNW
38	ALMADEN WELDING	231 W ALMA AV	CA CUPA Listings, CA SAN JOSE HAZMAT	Lower	1158, 0.219, East

MAPPED SITES SUMMARY

Target Property Address:
1197 LICK AVENUE
SAN JOSE, CA 95110

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
H39	DEPENDABLE AUTOWORKS	456 WILLOW ST BLDG A	RCRA-SQG, FINDS, ECHO	Lower	1239, 0.235, WNW
H40	THE PIED PIPER EXTER	456 WILLOW ST	CA HIST UST	Lower	1239, 0.235, WNW
H41	OUT OF BUSINESS	456 WILLOW ST SUITE	CA SAN JOSE HAZMAT	Lower	1239, 0.235, WNW
I42	BENNETTS AUTOMOTIVE	385 WILLOW ST	RCRA-SQG, CA LUST, CA HIST LUST, FINDS, ECHO, CA...	Lower	1243, 0.235, NW
I43	BENNETT'S AUTOMOTIVE	385 WILLOW ST 2	CA SWEEPS UST	Lower	1243, 0.235, NW
G44	CLEANIN & ALTERATION	571 W ALMA AV A	CA SAN JOSE HAZMAT	Higher	1304, 0.247, SW
J45	ALMADEN PROPERTY	1545 ALMADEN ROAD	CA ENVIROSTOR	Higher	1432, 0.271, SE
J46	LEW SMITH	1545 ALMADEN	SEMS	Higher	1432, 0.271, SE
J47	LOUIS SMITH PROPERTY	1545-1547 ALMADEN RD	CA SLIC, CA ENF	Higher	1432, 0.271, SE
K48	ROCKETSHIP SEVEN	198 W. ALMA AVENUE	CA SLIC	Lower	1506, 0.285, East
K49	LAUNCH PAD DEVELOPME	198 W ALMA AVE	CA DEED, CA HAZNET	Lower	1506, 0.285, East
L50	PRIVATE RESIDENCE	PRIVATE RESIDENCE	CA LUST	Higher	1795, 0.340, SSW
M51	DULLY PROPERTY	1016 S ALMADEN AVE	CA LUST, CA HIST LUST	Lower	1826, 0.346, NNE
L52	MONIZ RESIDENCE	1462 HERVEY	CA LUST, CA HIST LUST, CA HIST CORTESE	Higher	1830, 0.347, SSW
M53	ALMADEN AUTO	999 S ALMADEN AVE	CA LUST, CA HIST LUST	Lower	1839, 0.348, NNE
54	T&T MINIMART	150 WILLOW ST	CA LUST, CA HIST LUST, CA SWEEPS UST, CA HIST...	Lower	2100, 0.398, NNE
55	R & D LIQUORS	656 WILLOW ST	CA LUST, CA HIST LUST, CA HIST CORTESE	Lower	2114, 0.400, West
56	MANTHEY NURSERY	327 SAN JOSE AVENUE	CA ENVIROSTOR	Higher	2116, 0.401, SE
N57	UNIVERSE PAINT INC	1639 ALMADEN RD	CA LUST, CA SLIC, CA HIST LUST	Higher	2308, 0.437, SSE
N58	UNIVERSE PAINT COMPA	1639 ALMADEN RD	CA LUST, CA HIST CORTESE	Higher	2308, 0.437, SSE
O59	PRAXAIR	215 SAN JOSE AV	CA LUST, CA HIST LUST, CA SWEEPS UST, CA CUPA...	Higher	2359, 0.447, ESE
O60	SAN JOSE RAG CO.	201 SAN JOSE AVE	CA LUST, CA HIST UST, CA HIST CORTESE, CA SAN JOSE...	Higher	2417, 0.458, ESE
O61	SAME AS ABOVE	201 SAN JOSE AVE	CA LUST, CA HIST LUST, CA HIST UST	Higher	2417, 0.458, ESE
62	PACIFIC WEST COMMUNI	955-987 1ST STREET	CA SLIC	Lower	2478, 0.469, NNE
63	FORD WHOLESALE	199 SAN JOSE AVE	CA LUST, CA HIST LUST, CA SWEEPS UST, CA HIST...	Higher	2506, 0.475, ESE
64	QUALITY PLATING CO.	1680 ALMADEN EXPRESS	CA ENVIROSTOR, CA CUPA Listings	Higher	2587, 0.490, SE
65	ERNESTO GALARZA ELEM	1610 BIRD AVENUE	CA ENVIROSTOR, CA SCH	Higher	3067, 0.581, SSW
66	UNIFLEX CIRCUITS, IN	1782 ANGELA STREET	CA ENVIROSTOR, CA CUPA Listings, CA SAN JOSE...	Higher	3202, 0.606, SE
67	3RD STREET DEVELOPME	1010 SOUTH 3RD STREE	CA ENVIROSTOR, CA VCP, CA NPDES	Lower	3573, 0.677, NNE
68	R & R PROCESSING	1805 LITTLE ORCHARD	CA ENVIROSTOR	Higher	3583, 0.679, SE
69	WILLOW GLEN RIGHT OF	LONUS STREET	CA ENVIROSTOR, CA VCP	Lower	3782, 0.716, West
P70	NORANDA RECYCLING IN	1695 MONTEREY HWY	CA HAZNET, CA HWP	Lower	3976, 0.753, East
P71	GLENCORE RECYCLING	1695 MONTEREY HWY	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-LQG, CA...	Lower	3976, 0.753, East
72	VIASYSTEMS TECHNOLOG	335 TURTLE CREEK COU	RCRA-LQG, CA ENVIROSTOR, ICIS, FINDS, ECHO, CA...	Higher	4106, 0.778, SE
73	RIVER GLEN K-8 AT BR	1088 BROADWAY AVENUE	CA ENVIROSTOR, CA SCH	Higher	4929, 0.934, West
74	PEPPER LANE	1931 MONTEREY HWY	CA RESPONSE, CA ENVIROSTOR, CA LUST, CA HIST LUST,..	Lower	5133, 0.972, ESE

EXECUTIVE SUMMARY

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:

Site	Database(s)	EPA ID
TAMIEN PARK 1197 LICK AVENUE SAN JOSE, CA 95110	CA NPDES Facility Status: Active	N/A
TAMIEN PARK (FORMERL 1197 LICK AVENUE SAN JOSE, CA 95113	CA SLIC Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Open - Remediation Global Id: T10000004294	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

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System

Federal ERNS list

ERNS..... Emergency Response Notification System

EXECUTIVE SUMMARY

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

FEMA UST..... Underground Storage Tank Listing
CA AST..... Aboveground Petroleum Storage Tank Facilities
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

CA BROWNFIELDS..... Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

CA WMUDS/SWAT..... Waste Management Unit Database
CA SWRCY..... Recycler Database
CA HAULERS..... Registered Waste Tire Haulers Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory
IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register
CA CDL..... Clandestine Drug Labs
CA Toxic Pits..... Toxic Pits Cleanup Act Sites
US CDL..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

CA FID UST..... Facility Inventory Database

Local Land Records

CA LIENS..... Environmental Liens Listing

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

CA LDS ..... Land Disposal Sites Listing
CA MCS ..... Military Cleanup Sites Listing
CA SPILLS 90 ..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS ..... Formerly Used Defense Sites
DOD ..... Department of Defense Sites
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
EPA WATCH LIST ..... EPA WATCH LIST
TSCA ..... Toxic Substances Control Act
TRIS ..... Toxic Chemical Release Inventory System
SSTS ..... Section 7 Tracking Systems
RMP ..... Risk Management Plans
RAATS ..... RCRA Administrative Action Tracking System
PADS ..... PCB Activity Database System
FTTS ..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ..... Material Licensing Tracking System
COAL ASH DOE ..... Steam-Electric Plant Operation Data
COAL ASH EPA ..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ..... PCB Transformer Registration Database
RADINFO ..... Radiation Information Database
HIST FTTS ..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ..... Incident and Accident Data
INDIAN RESERV ..... Indian Reservations
FUSRAP ..... Formerly Utilized Sites Remedial Action Program
UMTRA ..... Uranium Mill Tailings Sites
LEAD SMELTERS ..... Lead Smelter Sites
US AIRS ..... Aerometric Information Retrieval System Facility Subsystem
US MINES ..... Mines Master Index File
ABANDONED MINES ..... Abandoned Mines
UXO ..... Unexploded Ordnance Sites
DOCKET HWC ..... Hazardous Waste Compliance Docket Listing
FUELS PROGRAM ..... EPA Fuels Program Registered Listing
CA BOND EXP. PLAN ..... Bond Expenditure Plan
CA DRYCLEANERS ..... Cleaner Facilities
CA HWT ..... Registered Hazardous Waste Transporter Database
CA MINES ..... Mines Site Location Listing
CA MWMP ..... Medical Waste Management Program Listing
CA PEST LIC ..... Pesticide Regulation Licenses Listing
CA PROC ..... Certified Processors Database
CA UIC ..... UIC Listing
CA WASTEWATER PITS ..... Oil Wastewater Pits Listing
CA WDS ..... Waste Discharge System
CA WIP ..... Well Investigation Program Case List

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ..... EDR Proprietary Manufactured Gas Plants

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

CA RGA LF ..... Recovered Government Archive Solid Waste Facilities List

EXECUTIVE SUMMARY

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 04/05/2017 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LORENTZ BARREL & DRU	***1515 S 10TH ST***	***ENE 1/2 - 1 (0.991 mi.)***	***0***	***11***

Federal CERCLIS list

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list 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). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 02/07/2017 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LEW SMITH	1545 ALMADEN	SE 1/4 - 1/2 (0.271 mi.)	J46	138

EXECUTIVE SUMMARY

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 12/12/2016 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GLENCORE RECYCLING	***1695 MONTEREY HWY***	***E 1/2 - 1 (0.753 mi.)***	***P71***	***218***

Federal RCRA generators list

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 12/12/2016 has revealed that there are 6 RCRA-SQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ERNEST J FUNK CORP	***1045 PEPITONE AVE***	***NW 0 - 1/8 (0.104 mi.)***	***D19***	***87***
ATLAS TRANSMISSION	***1035 PEPITONE AVE***	***NW 0 - 1/8 (0.104 mi.)***	***D20***	***89***
LEES DIESEL SERVICE	***1125 LELONG ST***	***WNW 1/8 - 1/4 (0.195 mi.)***	***F27***	***93***
ARCO FACILITY NO 053	***545 W ALMA AVE***	***SSW 1/8 - 1/4 (0.214 mi.)***	***G36***	***125***
DEPENDABLE AUTOWORKS	***456 WILLOW ST BLDG A***	***WNW 1/8 - 1/4 (0.235 mi.)***	***H39***	***128***
BENNETTS AUTOMOTIVE	***385 WILLOW ST***	***NW 1/8 - 1/4 (0.235 mi.)***	***I42***	***130***

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, has revealed that there is 1 CA RESPONSE site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PEPPER LANE	***1931 MONTEREY HWY***	***ESE 1/2 - 1 (0.972 mi.)***	***74***	***313***

Database: RESPONSE, Date of Government Version: 07/31/2017
Status: No Further Action
Facility Id: 43200020

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 identifes 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 07/31/2017 has revealed that there are 13 CA ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LORENTZ BARREL & DRU Facility Id: 43300026 Status: Active	***1515 S 10TH ST***	***ENE 1/2 - 1 (0.991 mi.)***	***0***	***11***
ALMADEN PROPERTY Facility Id: 43280117 Status: Refer: RWQCB	1545 ALMADEN ROAD	SE 1/4 - 1/2 (0.271 mi.)	J45	136
MANTHEY NURSERY Facility Id: 70000095 Status: Inactive - Needs Evaluation	327 SAN JOSE AVENUE	SE 1/4 - 1/2 (0.401 mi.)	56	171
QUALITY PLATING CO. Facility Id: 71002957 Status: Inactive - Needs Evaluation	***1680 ALMADEN EXPRESS***	***SE 1/4 - 1/2 (0.490 mi.)***	***64***	***184***
ERNESTO GALARZA ELEM Facility Id: 43010026 Status: Certified	***1610 BIRD AVENUE***	***SSW 1/2 - 1 (0.581 mi.)***	***65***	***185***
UNIFLEX CIRCUITS, IN Facility Id: 71003375 Status: Inactive - Needs Evaluation	***1782 ANGELA STREET***	***SE 1/2 - 1 (0.606 mi.)***	***66***	***190***
R & R PROCESSING Facility Id: 71002737 Status: Inactive - Needs Evaluation	1805 LITTLE ORCHARD	SE 1/2 - 1 (0.679 mi.)	68	202
VIASYSTEMS TECHNOLOG Facility Id: 71003531 Status: Inactive - Needs Evaluation	***335 TURTLE CREEK COU***	***SE 1/2 - 1 (0.778 mi.)***	***72***	***297***
RIVER GLEN K-8 AT BR Facility Id: 43820005 Status: No Action Required	***1088 BROADWAY AVENUE***	***W 1/2 - 1 (0.934 mi.)***	***73***	***310***

Lower Elevation	Address	Direction / Distance	Map ID	Page
3RD STREET DEVELOPME Facility Id: 60001210 Status: Certified	***1010 SOUTH 3RD STREE***	***NNE 1/2 - 1 (0.677 mi.)***	***67***	***192***
WILLOW GLEN RIGHT OF	***LONUS STREET***	***W 1/2 - 1 (0.716 mi.)***	***69***	***203***

Facility Id: 43400003
Status: Certified

GLENCORE RECYCLING	***1695 MONTEREY HWY***	***E 1/2 - 1 (0.753 mi.)***	***P71***	***218***
Facility Id: 80001655 Status: No Further Action				
PEPPER LANE	***1931 MONTEREY HWY***	***ESE 1/2 - 1 (0.972 mi.)***	***74***	***313***
Facility Id: 43200020 Status: No Further Action				

State and tribal leaking storage tank lists

CA LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CA LUST list, as provided by EDR, has revealed that there are 21 CA LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SPRIG ELECTRIC	***1303 LICK AVE***	***0 - 1/8 (0.001 mi.)***	***B4***	***74***
Database: LUST REG 2, Date of Government Version: 09/30/2004 Facility Status: Case Closed date9: 9/15/1994				
SPRIG ELECTRIC	***1303 LICK AVE***	***0 - 1/8 (0.001 mi.)***	***B9***	***78***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014 Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Date Closed: 09/15/1994 Global Id: T0608504753 SCVWD ID: 07S1E20G01F				
PRIVATE RESIDENCE	PRIVATE RESIDENCE	SSW 1/4 - 1/2 (0.340 mi.)	L50	150
Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Global Id: T0608502075				
MONIZ RESIDENCE	***1462 HERVEY***	***SSW 1/4 - 1/2 (0.347 mi.)***	***L52***	***153***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014 Database: LUST REG 2, Date of Government Version: 09/30/2004 Facility Status: Case Closed Date Closed: 09/01/1998 SCVWD ID: 07S1E20L02F date9: 9/1/1998				
UNIVERSE PAINT INC	***1639 ALMADEN RD***	***SSE 1/4 - 1/2 (0.437 mi.)***	***N57***	***172***
Database: LUST REG 2, Date of Government Version: 09/30/2004 Facility Status: Case Closed date9: 6/4/2002				
UNIVERSE PAINT COMPA	***1639 ALMADEN RD***	***SSE 1/4 - 1/2 (0.437 mi.)***	***N58***	***173***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014 Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed				

Date Closed: 06/04/2002
Global Id: T0608501777
SCVWD ID: 07S1E20J01F

PRAXAIR ***215 SAN JOSE AV*** ***ESE 1/4 - 1/2 (0.447 mi.)*** ***O59*** ***175***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Date Closed: 06/24/1993
Global Id: T0608501473
SCVWD ID: 07S1E21M01F
date9: 6/24/1993

SAN JOSE RAG CO. ***201 SAN JOSE AVE*** ***ESE 1/4 - 1/2 (0.458 mi.)*** ***O60*** ***178***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Date Closed: 01/17/1995
Global Id: T0608501185
SCVWD ID: 07S1E21E01F

SAME AS ABOVE ***201 SAN JOSE AVE*** ***ESE 1/4 - 1/2 (0.458 mi.)*** ***O61*** ***180***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed
date9: 1/17/1995

FORD WHOLESALE ***199 SAN JOSE AVE*** ***ESE 1/4 - 1/2 (0.475 mi.)*** ***63*** ***181***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Date Closed: 10/16/1998
Global Id: T0608501846
SCVWD ID: 07S1E21E02F
date9: 10/16/1998

Lower Elevation	Address	Direction / Distance	Map ID	Page
SCVTA - TAMIEN	***1193 LICK AVE***	***NNW 0 - 1/8 (0.034 mi.)***	***C16***	***84***

Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed
date9: 9/18/1997

SCVTA TAMIEN ***1193 LICK*** ***NNW 0 - 1/8 (0.034 mi.)*** ***C17*** ***84***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Date Closed: 09/18/1997
Global Id: T0608501217
SCVWD ID: 07S1E20B01F

FAHRNER PROPERTY ***495 MINNESOTA AVE*** ***W 1/8 - 1/4 (0.199 mi.)*** ***28*** ***97***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed

Facility Status: Case Closed
Date Closed: 09/21/1998
Global Id: T0608502016
SCVWD ID: 07S1E20F01F
date9: 9/21/1998

BRUZZONE PROPERTY ***458 WILLOW ST*** ***WNW 1/8 - 1/4 (0.199 mi.)*** ***F30*** ***99***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Pollution Characterization
SCVWD ID: 07S1E20F02F

THRIFTY #039 (ARCO # ***545 WEST ALMA AVENUE*** ***SSW 1/8 - 1/4 (0.214 mi.)*** ***G32*** ***101***
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Global Id: T0608501436

THRIFTY OIL STN 039 ***545 ALMA STREET*** ***SSW 1/8 - 1/4 (0.214 mi.)*** ***G34*** ***123***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Remedial action (cleanup) Underway
SCVWD ID: 07S1E20L01F

BENNETTS AUTOMOTIVE ***385 WILLOW ST*** ***NW 1/8 - 1/4 (0.235 mi.)*** ***I42*** ***130***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Date Closed: 11/02/1993
Global Id: T0608500234
SCVWD ID: 07S1E20C01F
date9: 11/2/1993

DULLY PROPERTY ***1016 S ALMADEN AVE*** ***NNE 1/4 - 1/2 (0.346 mi.)*** ***M51*** ***151***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Date Closed: 01/30/2004
Global Id: T0608502411
SCVWD ID: 07S1E17Q01F
date9: 1/30/2004

ALMADEN AUTO ***999 S ALMADEN AVE*** ***NNE 1/4 - 1/2 (0.348 mi.)*** ***M53*** ***154***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Date Closed: 02/23/2004
Global Id: T0608512840
SCVWD ID: 07S1E17Q02F
date9: 2/23/2004

T&T MINIMART ***150 WILLOW ST*** ***NNE 1/4 - 1/2 (0.398 mi.)*** ***54*** ***157***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/13/2017

Status: Completed - Case Closed
Facility Status: Pollution Characterization
Facility Status: Case Closed
Date Closed: 01/14/2014
Date Closed: 04/30/1996
Global Id: T0608501806
Global Id: T0608518361
SCVWD ID: 07S1E17R02F
SCVWD ID: 07S1E17R01F
date9: 4/30/1996

R & D LIQUORS ***656 WILLOW ST*** ***W 1/4 - 1/2 (0.400 mi.)*** ***55*** ***169***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Date Closed: 05/30/1996
Global Id: T0608501948
SCVWD ID: 07S1E20E02F
date9: 5/30/1996

CA SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CA SLIC list, as provided by EDR, has revealed that there are 6 CA SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LOUIS SMITH PROPERTY	***1545-1547 ALMADEN RD***	***SE 1/4 - 1/2 (0.271 mi.)***	***J47***	***140***
Database: SLIC REG 2, Date of Government Version: 09/30/2004 Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Completed - Case Closed Facility Id: SL18241662 Global Id: SL18241662				
UNIVERSE PAINT INC	***1639 ALMADEN RD***	***SSE 1/4 - 1/2 (0.437 mi.)***	***N57***	***172***
Database: SLIC REG 2, Date of Government Version: 09/30/2004 Facility Id: 43S0705				

Lower Elevation	Address	Direction / Distance	Map ID	Page
BRUZZONE PROPERTY	***458 WILLOW ST***	***WNW 1/8 - 1/4 (0.199 mi.)***	***F30***	***99***
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Completed - Case Closed Global Id: T0608523726				
GUADALUPE RIVER PROJ	WILLOW STREET AND LE	WNW 1/8 - 1/4 (0.214 mi.)	F37	126
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Completed - Case Closed Global Id: T10000003264				
ROCKETSHIP SEVEN	198 W. ALMA AVENUE	E 1/4 - 1/2 (0.285 mi.)	K48	148
Database: SLIC, Date of Government Version: 03/13/2017				

Facility Status: Completed - Case Closed
Global Id: T10000003616

PACIFIC WEST COMMUNI	955-987 1ST STREET	NNE 1/4 - 1/2 (0.469 mi.)	62	181

Database: SLIC, Date of Government Version: 03/13/2017
Facility Status: Completed - Case Closed
Global Id: T10000008945

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 are 15 CA HIST LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SPRIG ELECTRIC SCVWD ID: 07S1E20G01	***1303 LICK AVE***	***0 - 1/8 (0.001 mi.)***	***B4***	***74***
MONIZ RESIDENCE SCVWD ID: 07S1E20L02	***1462 HERVEY***	***SSW 1/4 - 1/2 (0.347 mi.)***	***L52***	***153***
UNIVERSE PAINT INC SCVWD ID: 07S1E20J01	***1639 ALMADEN RD***	***SSE 1/4 - 1/2 (0.437 mi.)***	***N57***	***172***
PRAXAIR SCVWD ID: 07S1E21M01	***215 SAN JOSE AV***	***ESE 1/4 - 1/2 (0.447 mi.)***	***O59***	***175***
SAME AS ABOVE SCVWD ID: 07S1E21E01	***201 SAN JOSE AVE***	***ESE 1/4 - 1/2 (0.458 mi.)***	***O61***	***180***
FORD WHOLESALE SCVWD ID: 07S1E21E02	***199 SAN JOSE AVE***	***ESE 1/4 - 1/2 (0.475 mi.)***	***63***	***181***

Lower Elevation	Address	Direction / Distance	Map ID	Page
SCVTA - TAMIEN SCVWD ID: 07S1E20B01	***1193 LICK AVE***	***NNW 0 - 1/8 (0.034 mi.)***	***C16***	***84***
FAHRNER PROPERTY SCVWD ID: 07S1E20F01	***495 MINNESOTA AVE***	***W 1/8 - 1/4 (0.199 mi.)***	***28***	***97***
BRUZZONE PROPERTY SCVWD ID: 07S1E20F02	***458 WILLOW ST***	***WNW 1/8 - 1/4 (0.199 mi.)***	***F30***	***99***
THRIFTY OIL STN 039 SCVWD ID: 07S1E20L01	***545 ALMA STREET***	***SSW 1/8 - 1/4 (0.214 mi.)***	***G34***	***123***
BENNETTS AUTOMOTIVE SCVWD ID: 07S1E20C01	***385 WILLOW ST***	***NW 1/8 - 1/4 (0.235 mi.)***	***I42***	***130***
DULLY PROPERTY SCVWD ID: 07S1E17Q01	***1016 S ALMADEN AVE***	***NNE 1/4 - 1/2 (0.346 mi.)***	***M51***	***151***
ALMADEN AUTO SCVWD ID: 07S1E17Q02	***999 S ALMADEN AVE***	***NNE 1/4 - 1/2 (0.348 mi.)***	***M53***	***154***
T&T MINIMART SCVWD ID: 07S1E17R01 SCVWD ID: 07S1E17R02	***150 WILLOW ST***	***NNE 1/4 - 1/2 (0.398 mi.)***	***54***	***157***
R & D LIQUORS	***656 WILLOW ST***	***W 1/4 - 1/2 (0.400 mi.)***	***55***	***169***

SCVWD ID: 07S1E20E02

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, has revealed that there is 1 CA UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ARCO 05384 Database: UST, Date of Government Version: 03/12/2017 Facility Id: 43-060-400912	545 W ALMA AVE	SSW 1/8 - 1/4 (0.214 mi.)	G35	124

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 is 1 CA HIST Cal-Sites site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LORENTZ BARREL & DRU	***1515 S 10TH ST***	***ENE 1/2 - 1 (0.991 mi.)***	***0***	***11***

Local Lists of Registered Storage Tanks

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 4 CA SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SPRIG ELECTRIC Status: A Tank Status: A Comp Number: 400476	***1303 LICK AVE***	***0 - 1/8 (0.001 mi.)***	***B4***	***74***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CALIFORNIA DRYWALL C	390 FLOYD ST	ESE 0 - 1/8 (0.026 mi.)	B15	83

Comp Number: 403071				
ALMA ARCO Status: A Tank Status: A Comp Number: 400912	***545 W ALMA AV***	***SSW 1/8 - 1/4 (0.214 mi.)***	***G33***	***120***
BENNETT'S AUTOMOTIVE Comp Number: 400582	385 WILLOW ST 2	NW 1/8 - 1/4 (0.235 mi.)	I43	135

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 6 CA HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SPRIG ELECTRIC Facility Id: 00000044863	***1303 LICK AVE***	***0 - 1/8 (0.001 mi.)***	***B4***	***74***
SPRIG ELECTRIC	***1303 LICK AVENUE***	***0 - 1/8 (0.001 mi.)***	***B7***	***77***

Lower Elevation	Address	Direction / Distance	Map ID	Page
ALMA GOLF COURSE Facility Id: 00000064989	455 W ALMA AVE	S 1/8 - 1/4 (0.127 mi.)	E23	92
THRIFTY OIL STN.#039 Facility Id: 00000004717	545 ALMA STREET	SSW 1/8 - 1/4 (0.214 mi.)	G31	100
THRIFTY OIL STN 039	***545 ALMA STREET***	***SSW 1/8 - 1/4 (0.214 mi.)***	***G34***	***123***
THE PIED PIPER EXTER Facility Id: 00000040390	456 WILLOW ST	WNW 1/8 - 1/4 (0.235 mi.)	H40	129

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 06/05/2017 has revealed that there is 1 CA DEED site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LAUNCH PAD DEVELOPME Status: COMPLETED - CASE CLOSED Envirostor ID: T10000003616	***198 W ALMA AVE***	***E 1/4 - 1/2 (0.285 mi.)***	***K49***	***149***

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 is 1 ROD

site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LORENTZ BARREL & DRU	***1515 S 10TH ST***	***ENE 1/2 - 1 (0.991 mi.)***	***0***	***11***

CONSENT: Major Legal settlements that establish responsibility and standards for cleanup at NPL (superfund) sites. Released periodically by U.S. District Courts after settlement by parties to litigation matters.

A review of the CONSENT list, as provided by EDR, and dated 09/30/2016 has revealed that there is 1 CONSENT site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LORENTZ BARREL & DRU	***1515 S 10TH ST***	***ENE 1/2 - 1 (0.991 mi.)***	***0***	***11***

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 04/04/2017 has revealed that there are 2 FINDS sites within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SPRIG ELECTRIC	1303 LICK AVE	0 - 1/8 (0.001 mi.)	B6	77

Lower Elevation	Address	Direction / Distance	Map ID	Page
TAMIEN PLACE INVESTO	1275 LICK AVENUE	0 - 1/8 (0.001 mi.)	A11	82

CA CUPA Listings: 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.

A review of the CA CUPA Listings list, as provided by EDR, has revealed that there are 5 CA CUPA Listings sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SKYLINE AT TAMIEN ST	***1375 LICK AV***	***SSE 0 - 1/8 (0.071 mi.)***	***18***	***87***
Database: CUPA SANTA CLARA, Date of Government Version: 02/22/2017				
B & M BODY SHOP	***1035 PEPITONE AV 1***	***NW 0 - 1/8 (0.104 mi.)***	***D21***	***90***
Database: CUPA SANTA CLARA, Date of Government Version: 02/22/2017				
ALMA ARCO	***545 W ALMA AV***	***SSW 1/8 - 1/4 (0.214 mi.)***	***G33***	***120***
Database: CUPA SANTA CLARA, Date of Government Version: 02/22/2017				
ALMADEN WELDING	***231 W ALMA AV***	***E 1/8 - 1/4 (0.219 mi.)***	***38***	***127***
Database: CUPA SANTA CLARA, Date of Government Version: 02/22/2017				

Lower Elevation	Address	Direction / Distance	Map ID	Page
BENNETTS AUTOMOTIVE	***385 WILLOW ST***	***NW 1/8 - 1/4 (0.235 mi.)***	***I42***	***130***
Database: CUPA SANTA CLARA, Date of Government Version: 02/22/2017				

CA EMI: Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies

A review of the CA EMI list, as provided by EDR, and dated 12/31/2015 has revealed that there is 1 CA EMI site within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TAMIEN PLACE INVESTO Facility Id: 18009	1275 LICK AVENUE	0 - 1/8 (0.001 mi.)	A10	79

CA HAZNET: 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 from non-California manifests & continuation sheets are not included at the present time. 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, & disposal method. The source is the Department of Toxic Substance Control is the agency. This database begins with calendar year 1993.

A review of the CA HAZNET list, as provided by EDR, and dated 12/31/2015 has revealed that there are 2 CA HAZNET sites within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
1X SPRIGG ELECTRIC GEPAID: CAC000836416	1303 LICK AVE	0 - 1/8 (0.001 mi.)	B3	72
SPRIG ELECTRIC GEPAID: CAC002600029	***1303 LICK AVENUE***	***0 - 1/8 (0.001 mi.)***	***B7***	***77***

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 [CALSITES]. 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 12 CA HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SPRIG ELECTRIC Reg Id: 43-1731	***1303 LICK AVE***	***0 - 1/8 (0.001 mi.)***	***B9***	***78***
MONIZ RESIDENCE Reg Id: 43-2260	***1462 HERVEY***	***SSW 1/4 - 1/2 (0.347 mi.)***	***L52***	***153***
UNIVERSE PAINT COMPA Reg Id: 43-1850	***1639 ALMADEN RD***	***SSE 1/4 - 1/2 (0.437 mi.)***	***N58***	***173***
PRAXAIR Reg Id: 43-1503	***215 SAN JOSE AV***	***ESE 1/4 - 1/2 (0.447 mi.)***	***O59***	***175***
SAN JOSE RAG CO.	***201 SAN JOSE AVE***	***ESE 1/4 - 1/2 (0.458 mi.)***	***O60***	***178***

Reg Id: 43-1198				
FORD WHOLESALE Reg Id: 43-2004	***199 SAN JOSE AVE***	***ESE 1/4 - 1/2 (0.475 mi.)***	***63***	***181***

Lower Elevation	Address	Direction / Distance	Map ID	Page
SCVTA TAMIEN Reg Id: 43-1239	***1193 LICK***	***NNW 0 - 1/8 (0.034 mi.)***	***C17***	***84***
FAHRNER PROPERTY Reg Id: 43-2194	***495 MINNESOTA AVE***	***W 1/8 - 1/4 (0.199 mi.)***	***28***	***97***
THRIFTY OIL STN 039 Reg Id: 43-1466	***545 ALMA STREET***	***SSW 1/8 - 1/4 (0.214 mi.)***	***G34***	***123***
BENNETTS AUTOMOTIVE Reg Id: 43-0168	***385 WILLOW ST***	***NW 1/8 - 1/4 (0.235 mi.)***	***I42***	***130***
T&T MINIMART Reg Id: 43-1886	***150 WILLOW ST***	***NNE 1/4 - 1/2 (0.398 mi.)***	***54***	***157***
R & D LIQUORS Reg Id: 43-2121	***656 WILLOW ST***	***W 1/4 - 1/2 (0.400 mi.)***	***55***	***169***

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 11/21/2016 has revealed that there is 1 CA HWP site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NORANDA RECYCLING IN EPA Id: CAD069124717 Cleanup Status: OPERATING PERMIT	***1695 MONTEREY HWY***	***E 1/2 - 1 (0.753 mi.)***	***P70***	***211***

CA Notify 65: 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.

A review of the CA Notify 65 list, as provided by EDR, and dated 12/16/2016 has revealed that there is 1 CA Notify 65 site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
THRIFTY OIL STN 039	***545 ALMA STREET***	***SSW 1/8 - 1/4 (0.214 mi.)***	***G34***	***123***

CA SAN JOSE HAZMAT: San Jose Hazmat Facilities.

A review of the CA SAN JOSE HAZMAT list, as provided by EDR, and dated 05/04/2017 has revealed that there are 12 CA SAN JOSE HAZMAT sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CLEANIN & ALTERATION	571 W ALMA AV A	SW 1/8 - 1/4 (0.247 mi.)	G44	136

File Num: 410650

Lower Elevation	Address	Direction / Distance	Map ID	Page
SKYLINE AT TAMIEN ST File Num: 412125	***1375 LICK AV***	***SSE 0 - 1/8 (0.071 mi.)***	***18***	***87***
B & M BODY SHOP File Num: 406987	***1035 PEPITONE AV 1***	***NW 0 - 1/8 (0.104 mi.)***	***D21***	***90***
BPO ELKS CLUB File Num: 400178	444 W ALMA AV	S 1/8 - 1/4 (0.163 mi.)	E24	92
OUT OF BUSINESS File Num: 412019	1143 LELONG ST SUITE	WNW 1/8 - 1/4 (0.183 mi.)	F25	93
OUT OF BUSINESS File Num: 412101	***1127 LELONG ST***	***WNW 1/8 - 1/4 (0.194 mi.)***	***F26***	***93***
LEES DIESEL SERVICE File Num: 403162	***1125 LELONG ST***	***WNW 1/8 - 1/4 (0.195 mi.)***	***F27***	***93***
O/B (T & T AUTO BODY File Num: 406756	458 WILLOW ST SUITE	WNW 1/8 - 1/4 (0.199 mi.)	F29	99
ALMA ARCO File Num: 400912	***545 W ALMA AV***	***SSW 1/8 - 1/4 (0.214 mi.)***	***G33***	***120***
ALMADEN WELDING File Num: 408008	***231 W ALMA AV***	***E 1/8 - 1/4 (0.219 mi.)***	***38***	***127***
OUT OF BUSINESS File Num: 407021	456 WILLOW ST SUITE	WNW 1/8 - 1/4 (0.235 mi.)	H41	130
BENNETTS AUTOMOTIVE File Num: 400582	***385 WILLOW ST***	***NW 1/8 - 1/4 (0.235 mi.)***	***I42***	***130***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: 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.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 3 EDR Hist Auto sites within approximately 0.125 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TRIUMPHS ONLY	1281 LICK AVENUE	0 - 1/8 (0.001 mi.)	B12	82
SORCI PETER S	1172 LICK AVE	N 0 - 1/8 (0.020 mi.)	C14	83
B & M AUTOBODY SHOP	1035 PEPITONE AVE	NW 0 - 1/8 (0.104 mi.)	D22	91

EXECUTIVE SUMMARY

EDR Hist Cleaner: 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.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.125 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LUZO S AUTO UPHOLSTE	1244 LICK AVE	NE 0 - 1/8 (0.017 mi.)	A13	83

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

CA RGA LUST: 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.

A review of the CA RGA LUST list, as provided by EDR, has revealed that there are 2 CA RGA LUST sites within approximately 0.001 miles of the target property.

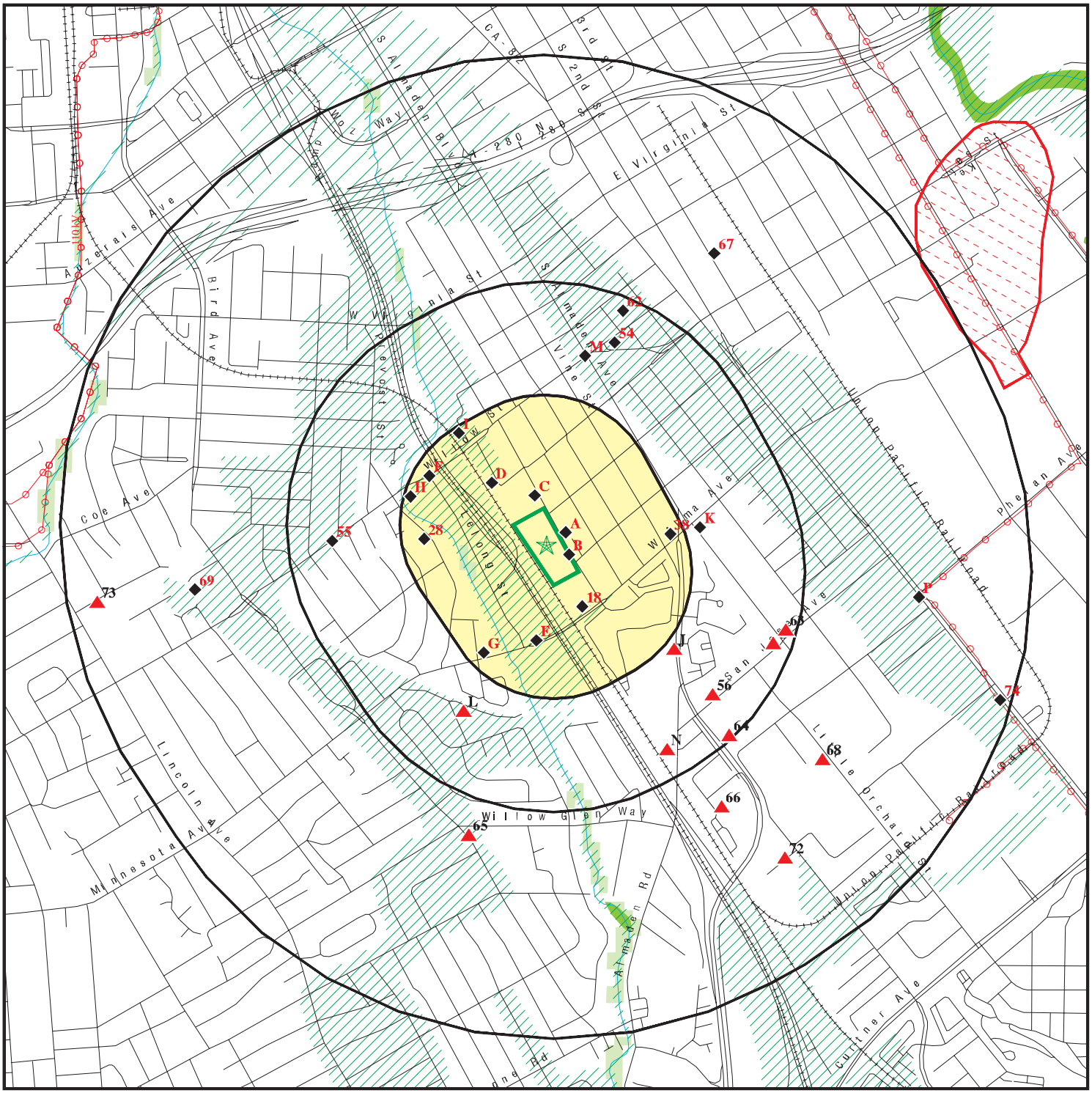
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SPRIG ELECTRIC	1303 LICK AVE	0 - 1/8 (0.001 mi.)	B5	76
SPRIG ELECTRIC	1303 LICK AVENUE	0 - 1/8 (0.001 mi.)	B8	78

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
PACIFIC AIRMOTIVE	SEMS-ARCHIVE

OVERVIEW MAP - 5024805.2S



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

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Upgradient Area

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: Phase I ESA	CLIENT: Cornerstone Earth Group
ADDRESS: 1197 Lick Avenue San Jose CA 95110	CONTACT: Stason Foster INQUIRY #: 5024805.2s
LAT/LONG: 37.312818 / 121.883821	DATE: August 16, 2017 6:37 pm

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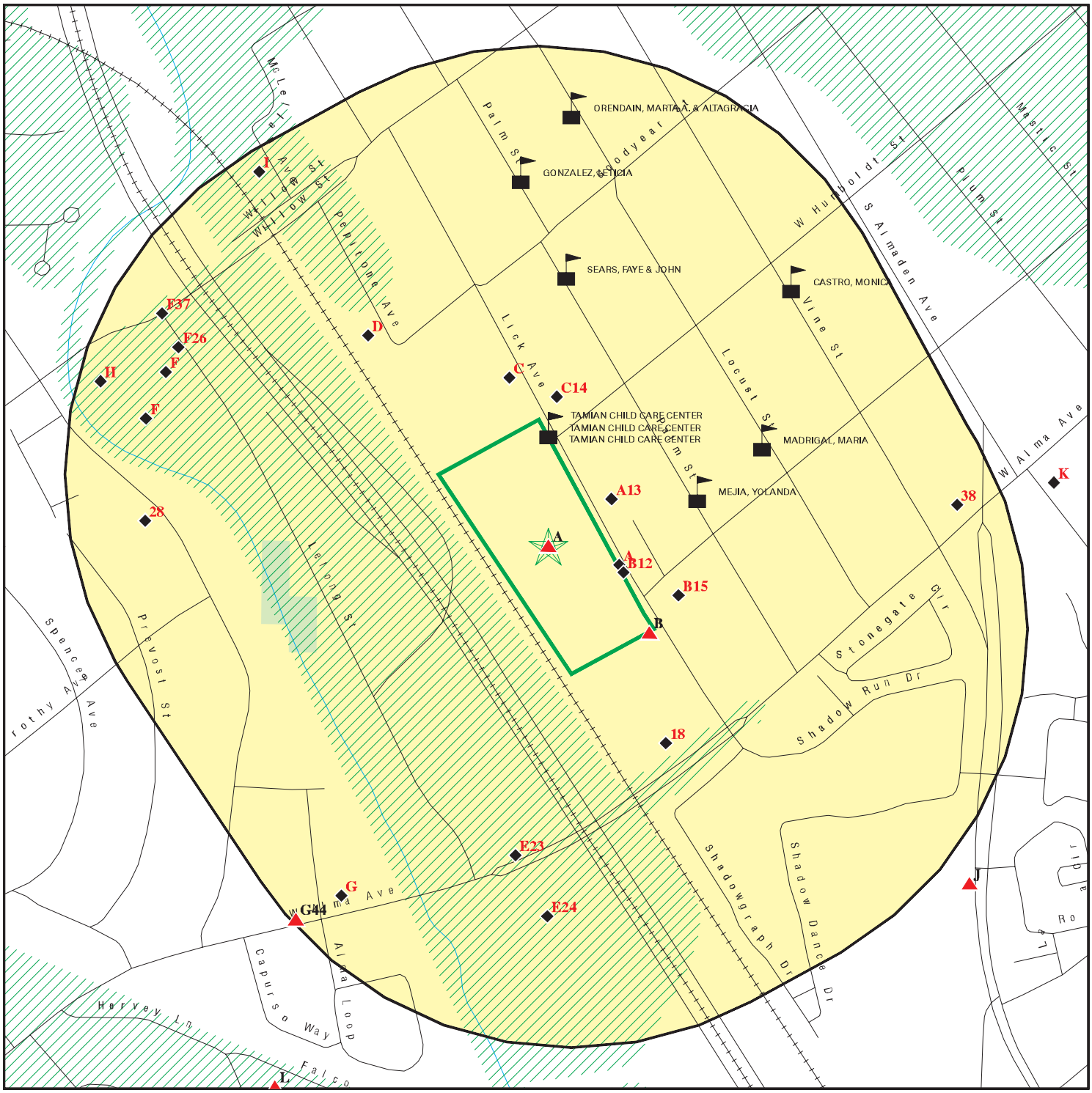
DETAIL MAP - 5024805.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Concern

N

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: Phase I ESA	CLIENT: Cornerstone Earth Group
ADDRESS: 1197 Lick Avenue San Jose CA 95110	CONTACT: Stason Foster INQUIRY #: 5024805.2s
LAT/LONG: 37.312818 / 121.883821	DATE: August 16, 2017 6:43 pm

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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
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	1	NR	1
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	1	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	1	NR	1
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		2	4	NR	NR	NR	6
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
CA RESPONSE	1.000		0	0	0	1	NR	1
State- and tribal - equivalent CERCLIS								
CA ENVIROSTOR	1.000		0	0	3	10	NR	13
State and tribal landfill and/or solid waste disposal site lists								
CA SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
CA LUST	0.500		4	5	12	NR	NR	21

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
INDIAN LUST	0.500		0	0	0	NR	NR	0
CA SLIC	0.500	1	0	2	4	NR	NR	7
CA HIST LUST	0.500		2	4	9	NR	NR	15
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
CA UST	0.250		0	1	NR	NR	NR	1
CA AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
CA VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
CA BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
CA WMUDS/SWAT	0.500		0	0	0	NR	NR	0
CA SWRCY	0.500		0	0	0	NR	NR	0
CA HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
CA HIST Cal-Sites	1.000		0	0	0	1	NR	1
CA SCH	0.250		0	0	NR	NR	NR	0
CA CDL	0.001		0	NR	NR	NR	NR	0
CA Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA SWEEPS UST	0.250		2	2	NR	NR	NR	4
CA HIST UST	0.250		2	4	NR	NR	NR	6
CA FID UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
CA LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
CA DEED	0.500		0	0	1	NR	NR	1

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
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CA CHMIRS	0.001		0	NR	NR	NR	NR	0
CA LDS	0.001		0	NR	NR	NR	NR	0
CA MCS	0.001		0	NR	NR	NR	NR	0
CA SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	1	NR	1
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	1	NR	1
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001		2	NR	NR	NR	NR	2
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CA Cortese	0.500		0	0	0	NR	NR	0
CA CUPA Listings	0.250		2	3	NR	NR	NR	5
CA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CA EMI	0.001		1	NR	NR	NR	NR	1

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 ENF	0.001		0	NR	NR	NR	NR	0
CA Financial Assurance	0.001		0	NR	NR	NR	NR	0
CA HAZNET	0.001		2	NR	NR	NR	NR	2
CA ICE	0.001		0	NR	NR	NR	NR	0
CA HIST CORTESE	0.500		2	3	7	NR	NR	12
CA HWP	1.000		0	0	0	1	NR	1
CA HWT	0.250		0	0	NR	NR	NR	0
WI MANIFEST	0.250		0	0	NR	NR	NR	0
CA MINES	0.001		0	NR	NR	NR	NR	0
CA MWMP	0.250		0	0	NR	NR	NR	0
CA NPDES	0.001	1	0	NR	NR	NR	NR	1
CA PEST LIC	0.001		0	NR	NR	NR	NR	0
CA PROC	0.500		0	0	0	NR	NR	0
CA Notify 65	1.000		0	1	0	0	NR	1
CA SAN JOSE HAZMAT	0.250		2	10	NR	NR	NR	12
CA UIC	0.001		0	NR	NR	NR	NR	0
CA WASTEWATER PITS	0.500		0	0	0	NR	NR	0
CA WDS	0.001		0	NR	NR	NR	NR	0
CA WIP	0.250		0	0	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		3	NR	NR	NR	NR	3
EDR Hist Cleaner	0.125		1	NR	NR	NR	NR	1
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
CA RGA LF	0.001		0	NR	NR	NR	NR	0
CA RGA LUST	0.001		2	NR	NR	NR	NR	2
- Totals --		2	29	39	37	17	0	124

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 Target Property | **TAMIEN PARK**
1197 LICK AVENUE
SAN JOSE, CA 95110 | **CA NPDES** | **S119087633**
N/A

Site 1 of 5 in cluster A

Actual: 117 ft.

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	2
Regulatory Measure Id:	470643
Order No:	Not reported
Regulatory Measure Type:	Construction
Place Id:	Not reported
WDID:	2 43C376367
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/19/2016
PROCESSED DATE:	5/26/2016
STATUS CODE NAME:	Active
STATUS DATE:	5/26/2016
PLACE SIZE:	3.8
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Jan Plajac
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	408-535-8408
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	jan.palajac@sanjoseca.gov
OPERATOR NAME:	City of San Jose
OPERATOR ADDRESS:	200 E Santa Clara Street
OPERATOR CITY:	San Jose
OPERATOR STATE:	California
OPERATOR ZIP:	95113
OPERATOR CONTACT NAME:	Jan Palajac
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	408-535-8408
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	jan.palajac@sanjoseca.gov
OPERATOR TYPE:	City/Town Agency
DEVELOPER NAME:	City of San Jose
DEVELOPER ADDRESS:	200 E Santa Clara
DEVELOPER CITY:	San Jose
DEVELOPER STATE:	California
DEVELOPER ZIP:	95113
DEVELOPER CONTACT NAME:	Jan Palajac
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	N
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	N

TAMIEN PARK (Continued) **S119087633**

CONSTYPE BELOW GROUND IND:	N
CONSTYPE CABLE LINE IND:	N
CONSTYPE COMM LINE IND:	N
CONSTYPE COMMERTIAL IND:	N
CONSTYPE ELECTRICAL LINE IND:	N
CONSTYPE GAS LINE IND:	N
CONSTYPE INDUSTRIAL IND:	N
CONSTYPE OTHER DESRIPTION:	Public Park
CONSTYPE OTHER IND:	N
CONSTYPE RECONS IND:	N
CONSTYPE RESIDENTIAL IND:	N
CONSTYPE TRANSPORT IND:	N
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	N
CONSTYPE WATER SEWER IND:	N
DIR DISCHARGE USWATER IND:	N
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Jan Palajac
CERTIFIER TITLE:	Sr Landscape Architect
CERTIFICATION DATE:	19-MAY-16
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	CAS000002
Facility Status:	Active
Agency Id:	0
Region:	2
Regulatory Measure Id:	470643
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	2 43C376367
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/26/2016
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	City of San Jose
Discharge Address:	200 E Santa Clara
Discharge City:	San Jose
Discharge State:	California
Discharge Zip:	95113
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported

TAMIEN PARK (Continued) **S119087633**

OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

A2 Target Property **TAMIEN PARK (FORMERLY ROCKETSHIP TAMIEN)** **CA SLIC** **S118504656**
1197 LICK AVENUE **N/A**
SAN JOSE, CA 95113

Site 2 of 5 in cluster A

Actual: 117 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Remediation**
Status Date:	01/14/2016
Global Id:	T10000004294
Lead Agency:	SANTA CLARA COUNTY LOP
Lead Agency Case Number:	07S1E20B02s
Latitude:	37.3145094355833
Longitude:	-121.88559114933

TAMIEN PARK (FORMERLY ROCKETSHIP TAMIEN) (Continued) **S118504656**

Case Type:	Cleanup Program Site
Case Worker:	AC
Local Agency:	SANTA CLARA COUNTY LOP
RB Case Number:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Polychlorinated biphenyls (PCBs), Lead, Polynuclear aromatic hydrocarbons (PAHs), Total Petroleum Hydrocarbons (TPH)
Site History:	Redevelopment as a charter school was fought by the neighborhood and the project was eventually cancelled. This 1.4 acre site is a portion of the total Parcel. The site is currently vacant. Historical site usage includes agricultural, cannery with railroad spur, and there was a LUFT case for this site. Sampling was scheduled for Septemer 2012 with results due in October 2012. Contaminants of concern at the site are Lead (up to 240 ppm), PAHs (up to 1.7 ppm benzo(b)fluoranthene), PCBs (up to 1.5 ppm Aroclor 1254) and TPH oil (up to 640 ppm). 1/14/2016 The property was sold and the new owner has proposed a development for public mixed use sports fields and includes the entire parcel.

Click here to access the California GeoTracker records for this facility:

NPL Region ENE 1/2-1 5231 ft.

LORENTZ BARREL & DRUM CO.
1515 S 10TH ST
SAN JOSE, CA 95112

NPL **1000208886**
SEMS **CAD029295706**
US ENG CONTROLS
US INST CONTROL
CA ENVIROSTOR
CA HIST Cal-Sites
CA HIST UST
LIENS 2
CA DEED
RCRA NonGen / NLR
ROD
PRP
ICIS
CONSENT
FINDS
ECHO
CA Cortese

NPL:

EPA ID:	CAD029295706
Cerclis ID:	901287
EPA Region:	9
Federal:	N
Final Date:	1989-10-03 00:00:00
Site Score:	33.939999999999998
Latitude:	37.31861
Longitude:	-121.8644

Category Details:

NPL Status:	Currently on the Final NPL
Category Description:	Depth To Aquifer-> 25 And <= 50 Feet
Category Value:	50

NPL Status:	Currently on the Final NPL
Category Description:	Distance To Nearest Population-0 Miles (On Site)

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Category Value: 0

Site Details:

Site Name:	LORENTZ BARREL & DRUM CO.
Site Status:	Final
Site Zip:	95112
Site City:	SAN JOSE
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:	U078
Substance:	DICHLOROETHENE, 1,1-
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): Lorent Barrel Drum Co. recycles drums at a plant in San Jose, Santa Clara County, California. The 5-acre site is surrounded by residential, industrial, and business areas. On-site monitoring wells are contaminated with trichloroethane,

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

trichloroethylene, 1,1-dichloroethylene, and tetrachloroethylene, according to analyses conducted by a consultant to Lorent . Contamination is believed to have resulted from overflowing sumps and spills. About 250,000 people obtain drinking water from wells within 3 miles of the site. Lorent is working with the California Regional Water Quality Control Board CRWQCB) to determine the extent of ground water contamination. The board issued a Cleanup and Abatement Order to the company in August 1983. The plant received Interim Status under Subtitle C of the Resource Conservation and Recovery Act RCRA) when the company filed Part A of a permit application. On March 25,1981, EPA removed the facility as a treatment, storage, or disposal facility because it was not engaged in ha ardous waste activities. 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. Status February 1986): In March 1985, EPA and the California Department of Health Services CDHS) discovered over 300 drums containing phenols, methylene chloride, and PCBs stored on the Lorent property. In responseto action by the Santa Clara District Attorney, the company removed the drums. CRWQCB is overseeing the Lorent investigation to determine the extent of ground water contamination. CDHS will oversee the investigation of soil contamination.On February 7, 1986, the Santa Clara County District Attorney filed a complaint against the company for violation of State ha ardous waste laws. The facility has been shut down until procedures for compliance are developed. Status June24, 1988): EPA is proposing to place this previously proposed RCRA site on the final NPL. The company is classified as a non-filer. Hence, it satisfies a component of EPA s NPL/RCRA policy. In July 1987, the owner of the Lorent site was ordered to shut it down permanently, sentenced to 2 years in jail, and fined 2.04 million. Recent sampling by CDHS consultants has shown extensive contamination in soil and ground water, both on- and off-site. In addition to the chlorinated organics identified earlier, pesticides, metals, and PCBs are present. On December 1, 1987, EPA took over as lead agency for a remedial investigation/feasibility study RI/FS) at the site. In February 1988, CDHS completed an expedited response action consisting of excavating soil with high concentrations of PCBs. In March 1988, EPA and CDHS completed removal of 1,000 drums of ha ardous materials. All materials were transported to regulated disposal facilities. The site was then graded and the surface sealed to control drainage. In May 1988, EPA completed an engineering evaluation cost analysis for systems to pump and treat shallow contaminated ground water. Status October 4, 1989): EPA has placed this site on the NPL. EPA completed the RI/FS. Following a period of public comment, a Record of Decision was signed in September 1988 finali ing the remedy as treatment of ground water with an o one ultraviolet light oxidation system. EPA is currently designing an off-site extraction system and an on-site treatment facility. EPA is also investigating the extent of the contamination in soils and on structures and expects to complete an RI/FS for the overall site in early 1990.

Site Status Details:

NPL Status:	Final
Proposed Date:	10/15/1984
Final Date:	10/04/1989
Deleted Date:	Not reported

Narratives Details:

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

NPL Name: LORENTZ BARREL & DRUM CO.
City: SAN JOSE
State: CA

SEMS:
Site ID: 901287
EPA ID: CAD029295706
Federal Facility: N
NPL: Currently on the Final NPL
Non NPL Status: Not reported

Following information was gathered from the prior CERCLIS update completed in 10/2013:
Site ID: 0901287
EPA ID: CAD029295706
Facility County: SANTA CLARA
Short Name: LORENTZ BARREL & DRUM CO
Congressional District: 19
IFMS ID: 0989
SMSA Number: 7400
USGC Hydro Unit: 18050003
Federal Facility: Not a Federal Facility
DMNSN Number: 5.50000
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: T
EPA Region: 09
Classification: Industrial Waste Treatment
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: 09/29/98
CC Concurrence FY: 1998
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):
Contact ID: 9000171.00000
Contact Name: Chris Weden
Contact Tel: (415) 972-3041
Contact Title: On-Scene Coordinator (OSC)
Contact Email: Not reported

Contact ID: 13003940.00000
Contact Name: Daewon Rojas-Mickelson
Contact Tel: (415) 947-4191
Contact Title: Remedial Project Manager (RPM)

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Contact Email: Not reported

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

CERCLIS Site Alias Name(s):
Alias ID: 101
Alias Name: L B & D
Alias Address: Not reported
CA
Alias ID: 102
Alias Name: LORENTZ BARREL & DRUM CO
Alias Address: Not reported
Not reported
Alias ID: 103
Alias Name: LORENTZ BARREL & DRUM CO.
Alias Address: 1515 S 10TH ST
SAN JOSE, CA 95112
Alias ID: 101
Alias Comments: PREVIOUS EPA ID# AZD 981 416 977
Site Description: Between 1954 and 1968, the warehouse to the west of the processing facility was reportedly destroyed by fire and other structures were added or modified. The 1971 aerial photograph indicates that the northwest portion of the LB&D property (part of the RFI property) was fenced from the remainder of the LB&D property. This property was used as a junkyard. The 1976 aerial photograph of the current RFI property shows that the area was filled with automobiles (presumably junked), while in a 1980 aerial photo, the majority of the automobiles were gone. The 1982 aerial photograph shows the main RFI facility constructed. The basic structures on the LB&D property remained largely unchanged after 1968. From the photo, it appears that roadway improvements and sidewalk additions on both East Alma Avenue and South Tenth Street, which occurred in the late 1970s or early1980s, may have covered over portions of land impacted by the LB&D facility operations. There are four predominantly granular water-bearing or potentially water-bearing subsurface zones below the LB&D site. These zones have been designated with respect to increasing depth below ground surface (bgs) as Zone A, Zone B, Zone C, and Zone D. The contaminated shallow groundwater currently located in Zone B comprises OU-2. If contaminated groundwater from Zone B also comes to exist in Zone A (e.g., a rise in the water table or resaturation), Zone A groundwater would be addressed under OU-2. The deep aquifer (Zones C and D) and potential conduits between the shallow and deeper aquifers comprise the groundwater portion of OU-1. Unsaturated portions of Zone A lying above the contaminated groundwater in Zone

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

B contain low levels of VOCs. VOC-contaminated soil gas and soil in Zone A are considered part of OU-1. The LB&D site is located in the southeastern corner of the San Jose subarea as defined by the California Department of Water Resources. This subarea is one of the most important natural sources of groundwater in the south San Francisco Bay area (South Bay). The deep aquifer (250 to 400 feet bgs) is a major source of potable groundwater, from which it is estimated that Santa Clara Valley extracts 107,000 acre-feet per year. Three public water supply well fields (owned by SJWC), located at the 12th Street, Cottage Grove, and Needles Stations, are within 1 mile of the LB&D site. An SJSU well is located at the Spartan Stadium. Groundwater in the area is used for drinking and irrigation. The nearby water wells all draw water from screened intervals located at depths greater than 150 feet bgs. The principal groundwater extraction wells for drinking water purposes are located in the Zone D aquifer and are operated by the SJWC. The SJSU Spartan Stadium well is used for both potable and irrigation purposes. The Kelley Park well provides water for the fish pond and is not used as a potable water supply. There are no extraction wells located in the Zone B aquifer other than those used for treatment of the contaminated groundwater. Coyote Creek is located less than 0.5 miles northeast of the LB&D property. Historically, the primary uses of water from this creek have been agricultural and to some extent recreational. Its current principal value is the contribution to the ecology of the South Bay. No other surface waters are located within 2 miles of the LB&D site. Approximately 2.75 acres of the LB&D property have been paved with a tar and gravel mixture (chipped seal) to cover an area once used for drum storage. The paved area overlies soils which are discolored and potentially contaminated. A small portion of this 2.75 acres is covered by an asphaltic-concrete cover installed by LB&D. The other 2.5 acres of the LB&D property are unpaved but are covered by five buildings which housed the drum reconditioning facilities, several sumps, an open storage bin located adjacent to the processing facility, various piles of wood, rusted metal debris, numerous empty drums and numerous nonhazardous drums. All of these structures and materials, with the exception of an intact warehouse and drums of ash, are scheduled to be removed in 1993 and 1994 by a group of potentially responsible parties (PRPs) under an Administrative Order on Consent (AOC) as more fully described below. Some of the facility structures, numerous barrels and limited amounts of soil were removed from the LB&D site during 1987 emergency response actions conducted by the California Department of Health Services' (DHS's) toxic substances control division, (now known as DTSC, a part of Cal-EPA). The RFI property includes both the RFI and PSS parcels. The RFI parcel is completely covered by a concrete slab, and the PSS parcel is entirely covered by asphalt. The Lorentz family started recycling drums at the former LB&D facility in 1947. During the early years, portions of the original LB&D property (10.5 acres) were also rented or leased to other companies. Several facilities were in operation on the LB&D property around 1954, including an auto wrecker, a junkyard, a roofing company, a construction company, and sandblasting services. Drums for recycling were received from both private and public sources throughout California and Nevada. Private sources included over 2000 different companies and individuals, representing chemical, food, health care, electronics, paint, ink, and paper industries. Public sources included military bases, research laboratories, and county agencies. Many drums arrived at the LB&D facility containing residual aqueous wastes, organic solvents, acids, oxidizers, and oils. The LB&D facility operations consisted in part of emptying all residues, cleaning, resealing, repainting, and reselling the drums. Residues were removed from the drums by various methods, including caustic and acid washes, incineration, blasting with steel shot, and steam cleaning. Drums were then resurfaced, resealed, and repainted using various substances, including phenolic epoxy resins and rust inhibitors.

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

From the 1950s until some time between 1976 and 1978, a drainage ditch from the processing facility was utilized to drain wastes. The drainage ditch discharged to a large sump (approximately 30 by 80 feet) located in the northern corner of the LB&D property bounded by the corner of East Alma Avenue and South 10th Street. Aerial photographs of the LB&D site from that time period reveal the presence of liquids in the sump, drainage ditch, and various ponded areas. The sump discharged to the storm drain system. Between 1968 and 1971, the discharge was diverted to the sanitary sewer. Previous investigations have indicated that discharge to the sanitary sewer ceased in 1983 or 1984. After 1984, liquid wastes were reportedly reduced in volume by evaporation, drummed, and disposed as hazardous waste along with incinerator ash, residual liquids, and sludge. Surface runoff was reportedly collected and recycled in the hot caustic wash cycle of the drum recycling process. As a result of the LB&D facility operations, a large variety of chemical residues from drums delivered to the LB&D site, as well as chemicals used by the LB&D facility in its drum reconditioning processes, have contaminated soil, structures, and shallow groundwater at and beneath the LB&D site. Contaminated groundwater has also migrated about 2,000 feet north of the LB&D property. The LB&D facility ceased operations in 1987. In late 1987 and early 1988, DTSC and the U.S. Environmental Protection Agency (EPA) conducted emergency response actions at the LB&D site that included removal of 3,000 cubic yards of highly contaminated soils at the former main sump area and over 2 6,000 drums, some of which contained residues. At the conclusion of the removal action, the majority of the LB&D property was paved over. In 1992, pursuant to a Consent Decree (CD) with EPA, a group of eleven PRPs, known as the Lorentz Shallow Groundwater Task Force (LSGTF), completed construction of and began operating a shallow groundwater extraction and treatment system. This system addresses the VOC contamination of groundwater beneath the LB&D site, as well as the plume that extends approximately 2,000 feet north from the former main sump. Recently, a separate group of seven PRP companies, known as the Structures Removal Group, has begun a removal of buildings, sumps, drums, and miscellaneous debris pursuant to an AOC with EPA. They are expected to complete the removal in 1994. Since 1981, there have been several environmental sampling studies at the LB&D site aimed at investigating the nature and extent of contamination. Over a period of 6 years DTSC and LB&D have collected soil and groundwater samples from on-site and off-site monitoring wells. Numerous metals, organics, and PCBs were found above Total Threshold Limit Concentrations (TTLC). In 1988, EPA began field activities for the Remedial Investigation (RI). The RI included sampling and analysis of surface and subsurface soil, facility structures, groundwater, sediments, and surface water; a geophysical survey; topographic surveying and mapping; pump tests; borehole geophysics; geotechnical sampling; air sampling; and biota sampling. Additionally, a limited well survey was performed, and potential conduits were investigated. Beginning in 1991, EPA commenced field activities for six RI addenda. For RI Addendum No. 1, EPA installed eight Zone B, one Zone C, and one Zone D monitoring wells to better define the groundwater contaminant plume boundaries and to provide deep aquifer monitoring. RI Addendum No. 2 included sampling of 30 soil borings on the RFI property to assess the impact of the LB&D operations on the RFI property. RI Addendum No. 3 updated the Baseline Health Risk Assessment (BHRA) contained in the RI by evaluating soil risks under a residential use scenario. It also modeled and evaluated potential risk from the vapor-phase migration of groundwater contaminants up to the surface and into confined spaces of buildings located above the plume. In RI Addendum No. 4, EPA assessed the location and status of potential conduits and whether additional conduits existed along the leading edge of the plume. In RI Addendum No. 5, EPA investigated the stockpiled soil excavated from the treatment facility foundation to assess the soil contamination present. The

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

sampling results of the stockpiled soil were compared with previous investigation results to evaluate heterogeneity of LB&D soil. For RI Addendum No. 6, EPA installed one Zone C monitoring well to serve as a warning well for the SJSU Spartan Stadium well and to better define the characteristics of the Zone C aquifer immediately downgradient from the original source area. In addition, various sampling and analysis activities have been performed by the Structures Removal Group as part of the removal of structures, debris, equipment, and drums. Specific sampling activities have been performed on drum contents, sump liquids, and building materials. Since 1968, federal. State, and local authorities have taken many regulatory and enforcement actions at the LB&D site. In summary, the major enforcement actions have included: -1968: City of San Jose industrial waste inspector ordered Lorentz to switch sump discharge from Coyote Creek storm drain to the sanitary sewer. -1980: California Occupational Safety and Health Administration (Cal-OSHA) informed DHS of potential problems with hazardous materials at the Lorentz facility. LB&D site is entered into EPA's CERCLIS database. -1982: DTSC inspected the facility and issued a Notice of Violation to Lorentz for soil and groundwater contamination. -1983: The Regional Water Quality Control Board (RWQCB) began investigating potential threats to the groundwater from sumps and other LB&D facility activities and issued Clean Up & Abatement Order No. 83-007. U.S. Dept. of Fish & Game cited Lorentz for violations involving heavy metals and petroleum products in surface runoff leaving the LB&D facility and entering the storm drain to Coyote Creek. -1984: San Jose/Santa Clara Water Pollution Control District cited Lorentz for violations and issued a cease and desist order for discharge into sanitary sewer. EPA completed a Preliminary Assessment and Site Investigation and proposed the LB&D site for the National Priorities List (NPL). -1985: DTSC cited LB&D with 14 violations of the California Administrative Code and Federal Regulations concerning the handling and storage of hazardous wastes. The Santa Clara County District Attorney obtained a Temporary Restraining Order to close down operations at LB&D. Operations resumed after 3 months. -1986: The Santa Clara County District Attorney filed a criminal complaint against LB&D and Ernest Lorentz which alleged the defendants had committed one felony and 13 misdemeanor violations of the California Hazardous Waste Control Act. The RWQCB issued Corrective Action Order #86-001 requiring LB&D to determine the lateral off-site extent of groundwater pollution. -1987: The LB&D facility ceased operation. EPA assumed the lead agency responsibility for the LB&D site remediation. -1988: EPA and DTSC completed removal of 3,000 cubic yards of highly contaminated soils and over 26,000 drums. EPA paved most of the LB&D property. -1988: EPA issued the OU-2 ROD for expedited cleanup of the shallow groundwater. -1989: EPA sent Special Notice to 43 PRPs to start negotiations on the OU-2 ROD. The LB&D site went from proposed to final on the NPL. -1990: EPA and 11 PRPs (the LSGTF) signed a CD requiring the PRPs to design, construct, and operate a shallow groundwater extraction and treatment system as specified in the OU-2 ROD. -1992: EPA and a group of 7 different PRPs (the Structures Removal Group) signed an AOC that requires the PRPs to remove from the LB&D property and dispose of the remaining barrels, asbestos, site debris, structures (except the concrete pads and the warehouse), and sumps. -1993: EPA proposed a final remedy addressing all remaining contamination at the LB&D site. The main objective of the response action selected as the final remedy for the LB&D site is to protect human health and the environment from all remaining releases or threats of releases of hazardous substances that have not already been addressed by previous or current cleanup actions at the LB&D site. The materials of concern include groundwater in deeper aquifers, vadose zone soil gas near residences situated above the shallow groundwater contaminant plume, vertical and horizontal conduits (e.g., old agricultural wells and sewer lines), structures and debris (e.g., septic tank), residues (e.g., LB&D

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

incinerator ash), soil contaminated with health-risk based COCs, and, the only principal threat remaining unaddressed at the LB&D site, soil contaminated with VOCs that threaten groundwater. A ROD addressing OU-1 of the Lorentz Barrel and Drum site was completed in August, 1993. The Lorentz Barrel and Drum (LB&D) site is located in Santa Clara County, about 13 miles southeast of the southern tip of San Francisco Bay. The LB&D site is defined as all land previously used for LB&D facility operations and all areas where contamination from the LB&D facility operations has come to reside. The LB&D site includes a contaminated shallow groundwater plume area and properties containing contaminated soil, structures, debris, and residues. The original LB&D property consisted of 10.5 acres located at the southern corner of South Tenth Street and East Alma Avenue in the City of San Jose. A 3.78-acre portion of the original property was never significantly involved in the LB&D drum recycling operations and was transferred shortly after the LB&D operations began. This portion includes the 3.39-acre Norton/Phelps property and a 0.39-acre Western Pacific Railroad easement. This portion is located at the southeastern end of the original LB&D property and is not considered part of the LB&D site. The remaining 6.72-acre portion of the original 10.5-acre LB&D property that is contaminated from operations of the former LB&D facility is part of the LB&D site. This portion includes the LB&D property, defined as the 5.25-acre, L-shaped parcel that contained the LB&D facility operations in 1987. The former LB&D facility included all the buildings, equipment, and land that LB&D used in operating the drum recycling business from 1947 onward. Before 1981, facility operations also occurred on neighboring property, currently owned by Recycled Fibers, Inc. (RF)I, that once was part of the original 10.5-acre LB&D property. The 1.47-acre RFI property includes the 1.32-acre RFI parcel (388 East Alma Avenue) that is occupied by the RFI paper recycling business operations (formerly known as Arata Western) and the 0.15-acre Pacific Sandblast Services (PSS) parcel (400 East Alma Avenue) that is occupied by the PSS business operations. PSS once leased its parcel from LB&D and now leases its parcel from RFI. In addition to the former LB&D facility property, the LB&D site also includes a limited amount of adjacent City of San Jose property. The adjacent city sidewalk area is defined as soil belonging to the City of San Jose located between the LB&D property fence lines parallel to East Alma Avenue and to South Tenth Street and their respective street pavements. While the former LB&D facility operation did not officially involve the adjacent city sidewalk area, it is likely that contaminated runoff from the LB&D property contaminated soil beneath the sidewalks. Finally, the area above the shallow groundwater plume is also part of the LB&D site, although there is no known surface or shallow soil contamination in this area, except for those portions of the plume that lie under LB&D, RFI, and adjacent city sidewalk area properties. The LB&D and RFI property, and the surrounding area to the south and west are zoned for commercial/industrial use per the City of San Jose Planning Department. The predominant zoning within a 1-mile radius of the LB&D property is commercial/industrial. The residential and recreational district to the north and east of the LB&D property includes Spartan Stadium (San Jose State University [SJSU] football stadium), San Jose Municipal Stadium (City of San Jose), and SJSU recreation fields. The City of San Jose intends to maintain and further develop the recreational uses of land to the north and east of the LB&D site. The closest residence to the LB&D property is the SJSU student housing on South Tenth Street, located approximately 700 feet north. Single family residential houses are located 1,100 feet north of the LB&D property. Less than 3,000 people are estimated to live within a 1-mile radius of the LB&D property. Currently, the groundwater is being extracted from a series of extraction wells located both on and off the Site. The extracted groundwater is pumped to an on-Site treatment facility. At the treatment facility the contaminated groundwater is first treated in an ultra violet/oxidation unit

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("UV/Ox"). The UV/Ox unit subjects the groundwater to ultra violet light and oxidizing chemicals (ozone) which converts volatile organic compounds ("VOCs") in the contaminated groundwater into less toxic compounds. However, due to a lack of efficiency of the UV/Ox system in destroying several of the organic contaminants, the contaminated groundwater is then filtered through a series of granular activated carbon ("GAC") filters, and treated to levels below allowable discharge limits. The treated groundwater is then discharged to a local storm sewer. Concentrations of organic contaminants at the Site have generally decreased since commencement of the groundwater treatment system in 1992. Based on the reductions in the concentrations of organic contaminants in the groundwater being extracted at the Site, and the inefficiency of the UV/Ox unit in its ability to reduce these organic contaminants to the discharge limits, the potentially responsible parties ("PRPs") implementing the groundwater remediation program have requested that EPA approve a change to the current treatment system involving the removal of the UV/Ox treatment unit from the approved treatment program. The revised treatment system would consist of subjecting the contaminated groundwater to the GAC filters, exclusively. From 1947 to 1987, an operation existed at the Site wherein drums would be received onsite and rinsed and/or reconditioned. The drums often contained substances such as organic solvents, pesticides, acids, bases, oxidizers, and oils. Many of the substances were discharged to a drainage ditch and on-site sumps, eventually making their way to a nearby creek. Site investigations indicated that on-site operations resulted in organic and inorganic contamination of the local shallow groundwater. These contaminants included trichloroethene (TCE), trichloroethane (TCA), tetrachloroethene (PCE), dichloroethene (DCE), dichloroethane (DCA), vinyl chloride, and others. In September 1988, the OU-2 Record of Decision (ROD) was signed by EPA. Subsequently, in 1990, a group of PRPs for the Site agreed to implement the remedy selected in the OU-2 ROD. This agreement was memorialized in a Partial Consent Decree between the United States and the PRPs. The Partial Consent Decree was approved by the Northern District of California on July 6, 1990 (Civil No. C 90 0488 EFL). This ESD addresses differences to the remedy selected under the OU-2 ROD. The OU-2 ROD addressed an Expedited Response Action (ERA)/Operable Unit for treatment of the contaminated shallow groundwater. The remedy selected in the OU-2 ROD addressed the principal near-term threats to groundwater in the Site vicinity. The threat of contamination of the deep drinking water aquifer and nearby surface water bodies was addressed by extracting the contaminated shallow groundwater and treating it to action levels prescribed by the Applicable or Relevant and Appropriate Requirements (ARARs). The major components of the shallow groundwater remedy chosen in the OU-2 ROD included: -construction and operation of a groundwater extraction system to intercept several shallow groundwater plumes; -construction and operation of a groundwater treatment system; and -disposal of treated groundwater to the storm sewer, which flows to Coyote Creek. The selected groundwater treatment system included a commercially available packaged ultra violet light/ozone system to destroy VOCs. If necessary, an ion exchange column would be added to remove nickel. Treatability studies of the UV/Ox unit conducted at the Site in August 1988 determined that a GAC polishing unit was not necessary in order to meet the cleanup standards. However, startup operations of the UV/Ox unit following signing of the OU-2 ROD in September of 1988 indicated that the GAC polishing process was needed in order to meet the cleanup standards, and became part of the groundwater treatment system. The ion exchange column was found not to be necessary. An Explanation of Significant Differences for Operable Unit 02 of the Lorentz Barrel & Drum Company Site was completed in April 1998.

CERCLIS Assessment History:

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Action Code:	001
Action:	DISCOVERY
Date Started:	/ /
Date Completed:	08/01/80
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	PRELIMINARY ASSESSMENT
Date Started:	/ /
Date Completed:	07/01/84
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

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

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

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

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Action Anomaly: Not reported

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: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: REMOVAL
Date Started: 08/31/87
Date Completed: 03/29/88
Priority Level: Stabilized
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Time Critical
Action Anomaly: Not reported

Action Code: 001
Action: REMOVAL
Date Started: 08/31/87
Date Completed: 03/31/88
Priority Level: Stabilized
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Time Critical
Action Anomaly: Not reported

Action Code: 002
Action: COMMUNITY INVOLVEMENT
Date Started: 05/01/88
Date Completed: 06/01/88
Priority Level: Not reported
Operable Unit: SHALLOW GW
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: Special Notice Issued
Date Started: / /
Date Completed: 06/17/88
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Action Anomaly: Not reported

Action Code: 002
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

Action Code: 001
Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 12/14/87
Date Completed: 09/25/88
Priority Level: Not reported
Operable Unit: SHALLOW GW
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: RECORD OF DECISION
Date Started: / /
Date Completed: 09/25/88
Priority Level: Not reported
Operable Unit: SHALLOW GW
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS
Date Started: 06/17/88
Date Completed: 12/19/88
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: Notice Letters Issued
Date Started: / /
Date Completed: 03/23/89
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: Notice Letters Issued
Date Started: / /
Date Completed: 04/03/89
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 004
Action: Notice Letters Issued
Date Started: / /
Date Completed: 06/02/89
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: Special Notice Issued
Date Started: / /
Date Completed: 06/02/89
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH
Date Started: 02/01/87
Date Completed: 09/30/89
Priority Level: Search Complete, Viable PRPs
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: FINAL LISTING ON NATIONAL PRIORITIES LIST
Date Started: / /
Date Completed: 10/04/89

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	002
Action:	REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS
Date Started:	06/02/89
Date Completed:	01/22/90
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	REMEDIAL DESIGN
Date Started:	12/19/88
Date Completed:	02/20/90
Priority Level:	Not reported
Operable Unit:	SHALLOW GW
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Original Action Take Over

Action Code:	003
Action:	Notice Letters Issued
Date Started:	/ /
Date Completed:	05/21/90
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	CONSENT DECREE
Date Started:	01/22/90
Date Completed:	07/09/90
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	002
Action:	REMOVAL ASSESSMENT

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Date Started: 09/06/90
Date Completed: 09/06/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: ADMINISTRATIVE RECORDS
Date Started: 06/26/91
Date Completed: 06/26/91
Priority Level: Admin Record Compiled for a Removal Event
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 02/20/90
Date Completed: 07/10/91
Priority Level: Not reported
Operable Unit: SHALLOW GW
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: New Action Resulting from Take Over

Action Code: 003
Action: REMOVAL ASSESSMENT
Date Started: 12/12/91
Date Completed: 12/12/91
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 10/07/92
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Date Started: 07/10/91
Date Completed: 11/25/92
Priority Level: Not reported
Operable Unit: SHALLOW GW
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: REMOVAL ASSESSMENT
Date Started: / /
Date Completed: 12/30/92
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: ENGINEERING EVALUATION/COST ANALYSIS
Date Started: / /
Date Completed: 07/16/93
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 02/17/88
Date Completed: 08/26/93
Priority Level: Not reported
Operable Unit: OVERALL SITE/SVE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: RECORD OF DECISION
Date Started: / /
Date Completed: 08/26/93
Priority Level: Final Remedy Selected at Site
Operable Unit: OVERALL SITE/SVE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Action:	POTENTIALLY RESPONSIBLE PARTY REMOVAL
Date Started:	12/09/92
Date Completed:	09/29/94
Priority Level:	Partially Cleaned up
Operable Unit:	SITEWIDE
Primary Responsibility:	Responsible Party
Planning Status:	Primary
Urgency Indicator:	Time Critical
Action Anomaly:	Not reported

Action Code:	002
Action:	POTENTIALLY RESPONSIBLE PARTY REMOVAL
Date Started:	02/14/94
Date Completed:	09/29/94
Priority Level:	Partially Cleaned up
Operable Unit:	SITEWIDE
Primary Responsibility:	Responsible Party
Planning Status:	Primary
Urgency Indicator:	Non-Time Critical
Action Anomaly:	Not reported

Action Code:	002
Action:	ADMINISTRATIVE ORDER ON CONSENT
Date Started:	/ /
Date Completed:	01/04/95
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	003
Action:	ADMINISTRATIVE ORDER ON CONSENT
Date Started:	/ /
Date Completed:	05/31/96
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	004
Action:	ADMINISTRATIVE ORDER ON CONSENT
Date Started:	/ /
Date Completed:	09/17/97
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Action Code:	002
Action:	Explanation Of Significant Differences
Date Started:	/ /
Date Completed:	04/24/98
Priority Level:	Not reported
Operable Unit:	SHALLOW GW
Primary Responsibility:	Not reported
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	002
Action:	REMEDIAL DESIGN
Date Started:	03/25/95
Date Completed:	05/12/98
Priority Level:	Not reported
Operable Unit:	OVERALL SITE/SVE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	Explanation Of Significant Differences
Date Started:	/ /
Date Completed:	05/29/98
Priority Level:	Not reported
Operable Unit:	OVERALL SITE/SVE
Primary Responsibility:	Not reported
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	PRELIMINARY CLOSE-OUT REPORT PREPARED
Date Started:	/ /
Date Completed:	09/28/98
Priority Level:	Not reported
Operable Unit:	OVERALL SITE/SVE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	PREPARATION OF COST DOCUMENT PACKAGE
Date Started:	05/14/99
Date Completed:	01/04/00
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Action Code:	001
Action:	FIVE-YEAR REVIEW
Date Started:	/ /
Date Completed:	09/27/00
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	PROSPECTIVE PURCHASER AGREEMENT ASSESSMENT
Date Started:	05/17/01
Date Completed:	09/07/01
Priority Level:	PPA Signed
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	006
Action:	ADMINISTRATIVE ORDER ON CONSENT
Date Started:	/ /
Date Completed:	01/22/02
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	003
Action:	NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH
Date Started:	07/29/92
Date Completed:	03/21/02
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	ALTERNATIVE DISPUTE RESOLUTION
Date Started:	02/12/03
Date Completed:	03/05/03
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Action Code:	001
Action:	Lodged By DOJ
Date Started:	/ /
Date Completed:	01/29/04
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	COST RECOVERY NEGOTIATIONS
Date Started:	07/15/96
Date Completed:	04/01/04
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	SECTION 107 LITIGATION
Date Started:	09/26/02
Date Completed:	04/01/04
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	002
Action:	CONSENT DECREE
Date Started:	/ /
Date Completed:	04/01/04
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	002
Action:	Lodged By DOJ
Date Started:	/ /
Date Completed:	05/25/05
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Action Code:	004
Action:	NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH
Date Started:	11/26/01
Date Completed:	09/06/05
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	003
Action:	CONSENT DECREE
Date Started:	05/09/05
Date Completed:	09/06/05
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	002
Action:	FIVE-YEAR REVIEW
Date Started:	/ /
Date Completed:	09/28/05
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	003
Action:	FIVE-YEAR REVIEW
Date Started:	01/04/10
Date Completed:	09/29/10
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	REMEDIAL ACTION
Date Started:	07/04/96
Date Completed:	04/11/12
Priority Level:	Not reported
Operable Unit:	OVERALL SITE/SVE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Primary
Urgency Indicator:	Long Term Action
Action Anomaly:	Other Completion Anomaly

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY LONG-TERM RESPONSE ACTION
Date Started: 11/25/92
Date Completed: / /
Priority Level: Not reported
Operable Unit: SHALLOW GW
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: FEASIBILITY STUDY
Date Started: 09/28/11
Date Completed: / /
Priority Level: Not reported
Operable Unit: OVERALL SITE/SVE
Primary Responsibility: Special Account Financed Action - EPA
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Federal Register Details:
Fed Register Date: 10/04/89
Fed Register Volume: 54
Page Number: 41000

Fed Register Date: 06/24/88
Fed Register Volume: 53
Page Number: 23978

Fed Register Date: 10/15/84
Fed Register Volume: 49
Page Number: 40320

US ENG CONTROLS:
EPA ID: CAD029295706
Site ID: 0901287
Name: LORENTZ BARREL & DRUM CO.
Address: 1515 S 10TH ST
SAN JOSE, CA 95112
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Actual Date: 06/30/1999
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 05/29/1998
Operable Unit: 01
Contaminated Media : Debris
Engineering Control: Cap

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 05/29/1998
Operable Unit: 01
Contaminated Media : Debris
Engineering Control: Disposal
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 05/29/1998
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Carbon Adsorption
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 05/29/1998
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Extraction
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 05/29/1998
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 05/29/1998
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Treatment, (N.O.S.)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 05/29/1998

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Cap
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 05/29/1998
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Disposal
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 05/29/1998
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Excavation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 05/29/1998
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Soil Vapor Extraction (in-situ)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: Explanation Of Significant Differences
Action Completion date: 04/24/1998
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Non-fundamental change (ESD)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/25/1988
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Discharge
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/25/1988
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Extraction
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/25/1988
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Treatment, (N.O.S.)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/25/1988
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: UV Oxidation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 08/26/1993
Operable Unit: 01
Contaminated Media : Buildings/Structures
Engineering Control: Demolition
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 08/26/1993
Operable Unit: 01
Contaminated Media : Buildings/Structures
Engineering Control: Disposal
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 08/26/1993
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Monitoring
Contact Name: Not reported

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 08/26/1993
Operable Unit: 01
Contaminated Media : Other
Engineering Control: Disposal
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 08/26/1993
Operable Unit: 01
Contaminated Media : Other
Engineering Control: Excavation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 08/26/1993
Operable Unit: 01
Contaminated Media : Residuals
Engineering Control: Residuals Disposal
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 08/26/1993
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Cap
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 08/26/1993
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Carbon Adsorption
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 08/26/1993
Operable Unit: 01

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Contaminated Media : Soil
Engineering Control: Impermeable Barrier
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 08/26/1993
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Operations & Maintenance (O&M)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 08/26/1993
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Soil Vapor Extraction (in-situ)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 08/26/1993
Operable Unit: 01
Contaminated Media : Soil Gas
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

US INST CONTROL:
EPA ID: CAD029295706
Site ID: 0901287
Name: LORENTZ BARREL & DRUM CO.
Action Name: Explanation Of Significant Differences
Address: 1515 S 10TH ST
SAN JOSE, CA 95112
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Deed Restriction
Actual Date: 06/30/1999
Complet. Date: 05/29/1998
Operable Unit: 01
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CAD029295706

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Site ID: 0901287
Name: LORENTZ BARREL & DRUM CO.
Action Name: Explanation Of Significant Differences
Address: 1515 S 10TH ST
SAN JOSE, CA 95112
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Institutional Controls, (N.O.S.)
Actual Date: 06/30/1999
Complet. Date: 05/29/1998
Operable Unit: 01
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CAD029295706
Site ID: 0901287
Name: LORENTZ BARREL & DRUM CO.
Action Name: RECORD OF DECISION
Address: 1515 S 10TH ST
SAN JOSE, CA 95112
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Groundwater use/well drilling regulation
Actual Date: 09/30/1993
Complet. Date: 08/26/1993
Operable Unit: 01
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CAD029295706
Site ID: 0901287
Name: LORENTZ BARREL & DRUM CO.
Action Name: RECORD OF DECISION
Address: 1515 S 10TH ST
SAN JOSE, CA 95112
EPA Region: 09
County: SANTA CLARA
Event Code: Not reported
Inst. Control: Deed Restriction
Actual Date: 09/30/1993
Complet. Date: 08/26/1993
Operable Unit: 01
Contaminated Media : Soil
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

ENVIROSTOR:
Facility ID: 43300026
Status: Active
Status Date: 01/01/1985

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Site Code:	200061
Site Type:	Federal Superfund
Site Type Detailed:	State Response or NPL
Acres:	5.26
NPL:	YES
Regulatory Agencies:	SMBRP, US EPA
Lead Agency:	US EPA
Program Manager:	Henry Chui
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Assembly:	27
Senate:	15
Special Program:	Not reported
Restricted Use:	YES
Site Mgmt Req:	REM, ASP, DAY, HOS, LUC, MON, EX, NOWN, NDAM, EXT, SCH, FOOD, COV, RES, REM, ASP, DAY, HOS, LUC, MON, EX, NOWN, NDAM, EXT, SCH, FOOD, COV, RES
Funding:	Responsible Party
Latitude:	37.31864
Longitude:	-121.8655
APN:	477-09-034, 477-09-034, 477-09-036, 477-09-036, 477-09-037
Past Use:	RECYCLING - DRUM
Potential COC:	Arsenic Benzene Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT Dioxin (as 2,3,7,8-TCDD TEQ Lead Polychlorinated biphenyls (PCBs Tetrachloroethylene (PCE Toxaphene Trichloroethylene (TCE Vinyl chloride Aldrin Bis(2-ethylhexyl)phthalate (DEHP) Butyl benzyl phthalate Chloroform Dibutyl phthalate 1,1-Dichloroethane 1,2-Dichloroethane (EDC 1,1-Dichloroethylene 1,2-Dichloroethylene (cis 1,2-Dichloropropane Dieldrin Endosulfan Nickel Pentachlorophenol Phenol 1,1,2,2-Tetrachloroethane Toluene 1,1,2-Trichloroethane
Confirmed COC:	1,1,2,2-Tetrachloroethane Toluene 1,1,2-Trichloroethane Polychlorinated biphenyls (PCBs Tetrachloroethylene (PCE Toxaphene Trichloroethylene (TCE Vinyl chloride Aldrin Bis(2-ethylhexyl)phthalate (DEHP) Butyl benzyl phthalate Chloroform Dibutyl phthalate 1,1-Dichloroethane 1,2-Dichloroethane (EDC 1,1-Dichloroethylene 1,2-Dichloroethylene (cis 1,2-Dichloropropane Dieldrin Endosulfan Nickel Pentachlorophenol Phenol Arsenic Benzene Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT Dioxin (as 2,3,7,8-TCDD TEQ Lead
Potential Description:	OTH, SOIL
Alias Name:	10TH STREET LAND MANAGEMENT CORPORATION
Alias Type:	Alternate Name
Alias Name:	LORENTZ BARREL AND DRUM COMPANY
Alias Type:	Alternate Name
Alias Name:	477-09-034
Alias Type:	APN
Alias Name:	477-09-034
Alias Type:	APN
Alias Name:	477-09-036
Alias Type:	APN
Alias Name:	477-09-036
Alias Type:	APN
Alias Name:	477-09-037
Alias Type:	APN
Alias Name:	CAD029295706
Alias Type:	EPA Identification Number
Alias Name:	110002641954

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Alias Type: EPA (FRS #)
Alias Name: 110033608077
Alias Type: EPA (FRS #)
Alias Name: P21039
Alias Type: PCode
Alias Name: 200061
Alias Type: Project Code (Site Code)
Alias Name: 43300026
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 01/27/2004
Comments: Consent decree signed to recover DTSC response costs from the primary large quantity generators.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Decree
Completed Date: 05/23/1995
Comments: Administrative order on consent signed for de minimis settlement. The settlement pertains to 89 parties, each contributing less than 1% of the drums recycled at the facility.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Decree
Completed Date: 09/23/1996
Comments: Administrative consent order signed for the 2nd round of cost recovery de minimus settlement. Settling parties contributed less than 1% of total drums recycled at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Decree
Completed Date: 09/16/1997
Comments: Administrative consent order signed for the 3rd round of the cost recovery de minimus settlement. Settling parties contributed less than 1% of total drums recycled at the site.

Completed Area Name: 10th Street Land Management property
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 01/23/2002
Comments: DTSC signed Prospective Purchaser Agreement with 10th Street Land Management. Property will be used as a long-term storage yard for commercial and construction vehicles. Settling respondent to maintain site cap and enter into a land use covenant.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 01/16/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision - Amendment
Completed Date: 03/10/1998
Comments: US EPA approved a ROD amendment for groundwater treatment process.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision w/ESD
Completed Date: 05/21/1998
Comments: US-EPA approved an ESD for soil remediation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 09/28/1998
Comments: Preliminary close-out report finalized. Report documents completion of construction activities for OU1 and OU2. Remaining response consists of operation and maintenance of groundwater treatment system, soil vapor extraction system, and cap.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 05/15/1998
Comments: Cap design completed. Design calls for 229,000 square feet of 3" asphalt concrete pavement with 6" layer of aggregate base.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 05/15/1998
Comments: Remedial design report approved. Report outlines plans for design, installation, and O&M of SVE system and asphalt cap.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 09/30/1994
Comments: EPA completed 3 separate removal actions: (1) Removal of 5 buildings and the process equipment and scrap within including 17 sumps, 7 tanks and several debris stockpiled. At the end of this RA, 1033 tons of industrial wastes, 15 tons of liquid hazardous was and 73 tons of solid hazardous waste was shipped off-site for disposal. (2) Removal of 1200 drums, 150 drums containing solvents, 350 drums containing debris, and 23 drums containing ash and liquids. Removal of tanks, vats, sumps, and process equipment. Removal of 1.18 tons of asbestos containing building materials. (3) Paving of previously and newly exposed surface soil resulting from the above removal actions. Paving used a chip seal material. Approximately 4-1/4 acres were sealed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 10/15/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision
Completed Date: 08/26/1993
Comments: EPA issued ROD for soil operable unit. The ROD addresses soil/source remediation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 04/22/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 03/30/1992
Comments: Shallow groundwater treatment system completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 06/28/1991
Comments: Remedial design for groundwater completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision
Completed Date: 09/30/1988
Comments: EPA issued a ROD for the shallow groundwater operable unit. The remedy includes extraction/treatment of shallow groundwater and discharge of treated water to the storm sewer.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 08/30/1988
Comments: Completed EE/CA for shallow groundwater expedited response action. Groundwater pump-and-treat system was determined to be an effective method for remediating the shallow groundwater.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 03/30/1988
Comments: Implemented an Expedited Response Action (ERA). The ERA consisted of the following activities: drum inventory; construction of decontamination facilities; removal of polychlorinated biphenyl (PCB) contaminated pits, which were later backfilled with clean soil and capped; removal, recycling, or treatment of thousands of gallons of processed plant liquids; removal of 15 tons of contaminated scrap; and design of a surface water control plan, which was submitted to EPA for implementation. EPA installed a chip seal over approximately two thirds of the five-acre site. Demobilization occurred at the end of March 1988. A total of 21,286 drums, 1,330 tons of scrap metal, and 2,982 cubic yards of contaminated soil were removed from the site. Not reported

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 05/30/1987
Comments: Completed Public Participation Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 02/13/2004
Comments: Public notice announced lodging of proposed consent decree.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 01/27/2004
Comments: Public notice announced lodging of proposed consent decree.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 05/15/1998
Comments: SVE system design completed. Design includes submersible pumps, equalization tank, air-water separator, centrifugal transfer pump, positive displacement blower, air-to-air heat exchanger, liquid phase GAC, and vapor phase GAC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 07/27/1990
Comments: Remedial Investigation Report approved. Nature and extent of contamination in surface soils, subsurface soils, groundwater, surface water, air, and structures evaluated. Fate and transport of PCBs, pesticides, VOCs, base/neutral and acid extractable compounds, metals, and dioxins/furans discussed. Current and future exposure pathways included in baseline risk assessment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/01/1987
Comments: Preliminary Site Assessment completed. Report summarizes site characteristics, site history, known soil and groundwater conditions, hydrogeology, surface hydrology, and risks to nearby receptors.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/19/1992
Comments: Six addenda to the Remedial Investigation include: report of monitoring well installations in Zone B, C, and D aquifers; results of shallow soil investigation on Recycled Fibers, Inc. property; update to the risk assessment for soils; results of the investigation of four conduits near the leading edge of the plume; results of soil sampling; results of installation and sampling of a monitoring well in the Zone C aquifer.

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Completed Area Name: Newark Group property
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 08/01/2006
Comments: Soil investigation concluded that pesticides, PCE, TCE, and metals including arsenic were present in soil, however, all contaminants were present at concentrations below human health screening levels (or established background). The proposed design for the repairs includes removal of 1,424 square feet of concrete and asphalt, replacement of the cap in these areas with slab and AC over 12" of aggregate, and sealing of 4,000 linear feet of less severe cracks with joint sealant.

Completed Area Name: Shallow Groundwater
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 12/27/2007
Comments: 2007 GW monitoring report reviewed by DTSC and found to be adequate.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 09/21/2010
Comments: DTSC reviewed the 5-year report and did not have any comments and concurs with the USEPA recommendations in the report and the finding that the selected remedy continues to be protective in the short-term. Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 07/30/2010
Comments: DTSC have reviewed the shallow groundwater treatment monitoring report and has no comments. This is a USEPA and WaterBoard lead site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Workplan
Completed Date: 12/19/2011
Comments: The USEPA has approved the feasibility study workplan for Lorentz Barrel and Drum. The draft Sampling and Analysis Plan and the draft Quality Assurance Project Plan is due January 4th, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 12/20/2011
Comments: Lorentz Barrel and Drum submitted the 2011 Annual Groundwater Monitoring Report No. 43.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 01/31/2012
Comments: Groundwater treatment report for September 2011 - December 2011.

Completed Area Name: PROJECT WIDE

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 12/16/2011
Comments: Annual groundwater monitoring report from December 1, 2010 through November 30, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision w/ESD
Completed Date: 11/22/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 09/01/2015
Comments: The Fourth Five-Year Review Report identified as a remedy performance issue that the migration of 1,4-dioxane may not be controlled and there is continued diffusion of contamination from the A/B aquitard to Zone A soil vapor and Zone B groundwater. The remedies for OU-1 and OU-2 were determined to be protective of human health and the environment; however, in order for the remedies to be protective in the long-term, the Focused Feasibility Study needs to be completed in order to evaluate the current remedies for both OU-1 and OU-2 and make recommendations to modify the existing remedies or select new remedies for both OUs. .

Completed Area Name: Newark Group property
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 06/10/2005
Comments: Deed restriction recorded for property currently owned by the Newark Group. Residences, hospitals, day care facilities, food cultivation, and groundwater extraction are prohibited at the site. Cap interference is also prohibited.

Completed Area Name: 10th Street Land Management property
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 11/16/2006
Comments: Site inspection found compliance with land use covenant on 10th Street Land Management property.

Completed Area Name: 10th Street Land Management property
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 03/06/2002
Comments: Deed restriction recorded for property owned by 10th Street Land Management. Residences, hospitals, day care facilities, food cultivation, and groundwater extraction are prohibited at the site. Interference with site cap and remediation system are also prohibited. Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Decree
Completed Date: 10/07/1992

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Comments: Seven respondents signed agreement to conduct a limited removal action at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Decree
Completed Date: 09/30/1989
Comments: EPA issued a Consent Decree with 11 PRPs to implement the groundwater remediation recommended by the ROD. In May 1989, EPA conducted an investigation, identifying approximately 200 companies who had delivered drums and barrels to the former drum recycling facility.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 06/30/1987
Comments: Determined noncompliance with the RAO issued in February 1987.

Completed Area Name: Newark Group property
Completed Sub Area Name: Not reported
Completed Document Type: Consent Settlement - Administrative
Completed Date: 04/22/2005
Comments: Consent Order signed. The Newark Group argeed to pay response costs incurred by DTSC and to abide by the terms of the site deed restriction.

Completed Area Name: Newark Group property
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 11/16/2006
Comments: Site inspection found compliance with land use covenant on Newark Group property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 02/23/1987
Comments: DTSC issued RAO for soil and groundwater contamination resulting from drum reconditioning business.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Feasibility Study Report
Schedule Due Date: 09/30/2017
Schedule Revised Date: 03/30/2018

Calsite:
Region: BERKELEY
Facility ID: 43300026
Facility Type: NPRP
Type: NPL SITE, RP-FUNDED
Branch: NC
Branch Name: NORTH COAST

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

File Name:	Not reported
State Senate District:	01011985
Status:	ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency:	ENVIRONMENTAL PROTECTION AGENCY
NPL:	Listed
SIC Code:	30
SIC Name:	MANU - RUBBER & MISC PLASTICS PRODUCTS
Access:	Controlled
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Confirmed
Staff Member Responsible for Site:	TPARK
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:	23
State Senate District Code:	13
Facility ID:	43300026
Activity:	PPP
Activity Name:	PUBLIC PARTICIPATION PLAN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	05301987
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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:	43300026
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	ISE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06301987
Est Person-Yrs to complete:	0
Estimated Size:	Not reported

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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:	43300026
Activity:	ERA
Activity Name:	EXPEDITED RESPONSE ACTION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	03301988
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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:	43300026
Activity:	FRIFS
Activity Name:	FOCUSED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
AWP Code:	GW
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	08301988
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	43300026
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	B
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09301988
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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:	43300026
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09301989
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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:	43300026
Activity:	DES
Activity Name:	DESIGN
AWP Code:	GW

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06281991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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:	43300026
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	GW- B
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	03301992
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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:	N
Activity Comments:	DESIGN AND CONSTRUCTION OF A SHALLOW GROUNDWATER SYSTEM, COMPOSING OFA TREATMENT BUILDING.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	43300026
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	SOIL
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	10071992
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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:	43300026
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	SOIL
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	04221993
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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:	43300026
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	SOIL
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	08261993
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	43300026
Activity:	FRIFS
Activity Name:	FOCUSED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
AWP Code:	DRUM
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	10151993
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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:	43300026
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	BLDGS
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09301994
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	1121
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	REMOVAL OF FIVE (5) BUILDINGS AND THE PROCESS EQUIPMENTS AND SCRAPWITHIN INCLUDING 17 SUMPS, 7 TANKS AND SEVERAL DEBRIS STOCKPILED.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	43300026
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	CAP
Proposed Budget:	0

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09301994
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	X
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	APPROXIMATELY 184,000 SQUARE FEET OF EXPOSED SOIL AND SUMP SURFACESWERE SEALED WITH OIL AND CHIP SEAL MATERIAL.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	43300026
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	DRUM
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09301994
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	36
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	REMOVAL AND TREATMENT OF 1200 DRUMS. REMOVAL OF LIQUID AND SOLIDHAZARDOUS WASTES.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	43300026
Activity:	COST
Activity Name:	COST RECOVERY
AWP Code:	SETTL
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	05231995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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:	43300026
Activity:	RMDL
Activity Name:	REMEDIAL ACTION (RAP REQUIRED)
AWP Code:	SVE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09281998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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:	N
Activity Comments:	USEPA INSTALLED THE SVE SYSTEM AND WILL BE NEGOTIATING WITH RPSTO TAKE OVER OPERATION OF THE SYSTEM.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	43300026
Activity:	COST
Activity Name:	COST RECOVERY
AWP Code:	SETTL
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09231996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	43300026
Activity:	DES
Activity Name:	DESIGN
AWP Code:	SVE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	05151998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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:	43300026
Activity:	DES
Activity Name:	DESIGN
AWP Code:	CAP
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	05151998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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:	43300026
Activity:	RMDL
Activity Name:	REMEDIAL ACTION (RAP REQUIRED)
AWP Code:	CAP
Proposed Budget:	0

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09281998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	900
Liquids Treated (Gals):	0
Action Included Capping:	X
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	A ONE ACRE ASPHALT CAP WAS INSTALLED ON THE SITE.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	43300026
Activity:	COST
Activity Name:	COST RECOVERY
AWP Code:	SETTL
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09161997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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:	43300026
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	ESD
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	05211998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

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:	43300026
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	AMEND
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	03101998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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:	43300026
Activity:	DEED
Activity Name:	DEED RESTRICTIONS
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	03062002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Unknown Type:	0
Facility ID:	43300026
Activity:	PPA
Activity Name:	PROSPECTIVE PURCHASER AGREEMENT
AWP Code:	APPRO
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	01232002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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:	43300026
Activity:	COST
Activity Name:	COST RECOVERY
AWP Code:	SOF
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	03012002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
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:	1515 SOUTH 10TH STREET
Alternate City,St,Zip:	SAN JOSE, CA 95112
Background Info:	This facility operated as a drum reconditioning facility from 1946 to 1987. Drums containing solvents, pesticides, and other materials from numerous sources were cleaned, recoated and sold for reuse.
Comments Date:	01232002
Comments:	Approved the Prospective Purchaser Agreement.

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Comments Date: 01272004
Comments: Cost Recovery Settlement wiht the Primary Large Quantity
Comments Date: 01272004
Comments: Generators. Court approved the settlement this date.
Comments Date: 03101998
Comments: US EPA approved a ROD amendment for groundwater treatment
Comments Date: 03101998
Comments: process.
Comments Date: 03301988
Comments: Implemented an Expedited Response Action (ERA). The ERA
Comments Date: 03301988
Comments: consisted of the following activities: drum inventory;
Comments Date: 03301988
Comments: construction of decontamination facilities; removal of
Comments Date: 03301988
Comments: polychlorinated biphenyl (PCB) contaminated pits, which were
Comments Date: 03301988
Comments: later backfilled with clean soil and capped; removal, recycling,
Comments Date: 03301988
Comments: or treatment of thousands of gallons of processed plant liquids;
Comments Date: 03301988
Comments: removal of 15 tons of contaminated scrap; and designed a surface
Comments Date: 03301988
Comments: water control plan, which were submitted to EPA for
Comments Date: 03301988
Comments: implementation. EPA installed a chip seal over approximately
Comments Date: 03301988
Comments: two thirds of a five-acre site. Demobilization occurred at the
Comments Date: 03301988
Comments: end of March 1988. A total of 21,286 drums, 1,330 tons of scrap
Comments Date: 03301988
Comments: metal, and 2,982 cubic yards of contaminated soil were removed
Comments Date: 03301988
Comments: from the site.
Comments Date: 03311992
Comments: RA: Shallow groundwater pump and treatment system.
Comments Date: 04222005
Comments: Cost Recovery Settlement with the Newark Group signed today.
Comments Date: 05211998
Comments: US EPA approved an ESD for soil remediation process.
Comments Date: 05231995
Comments: Effective date of the administrative order consent for de
Comments Date: 05231995
Comments: minimis settlement on this site. The settlement pertains to 89
Comments Date: 05231995
Comments: parties. Per the settlement, the parties are required to submit
Comments Date: 05231995
Comments: payment into an escrow account within 120 days.
Comments Date: 06301987
Comments: Determined Noncompliance with the RAO issued in February 1987.
Comments Date: 08261993
Comments: EPA issued ROD for soil operable unit. The ROD covered the
Comments Date: 08261993
Comments: soils/source remediation.
Comments Date: 08301988
Comments: Completed FRIFS. Groundwater pump-and-treat system was an
Comments Date: 08301988

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Comments: effective method for remediating the shallow groundwater.
Comments Date: 09161997
Comments: Effective date of the administrative consent order for the
Comments Date: 09161997
Comments: 3rd round of the cost recovery de minimus settlement.
Comments Date: 09161997
Comments: Checks are to be submitted within the next 120 days.
Comments Date: 09231996
Comments: Effective date of the administrative consent order for the
Comments Date: 09231996
Comments: 2nd round of cost recovery de minimus settlement. Checks
Comments Date: 09231996
Comments: are to be submitted within the next 120 days.
Comments Date: 09281996
Comments: EPA completed construction of asphalt cap and soil vapor
Comments Date: 09281996
Comments: extraction system.
Comments Date: 09301988
Comments: EPA issued ROD for GW operable unit.
Comments Date: 09301989
Comments: EPA issued a Consent Decree with 11 PRP's to implement
Comments Date: 09301989
Comments: groundwater remediation recommended by the ROD. In May 1989,
Comments Date: 09301989
Comments: EPA conducted an investigation, identifying approximately 200
Comments Date: 09301989
Comments: companies who had delivered drums and barrels to the former Drum
Comments Date: 09301989
Comments: Recycling Facility.
Comments Date: 09301994
Comments: EPA completed 3 separate removal actions. RA #1. Removal of 5
Comments Date: 09301994
Comments: buildings and the process equipment and scrap within including
Comments Date: 09301994
Comments: 17 sumps, 7 tanks and several debris stockpiled. At the end of
Comments Date: 09301994
Comments: this RA, 1033 tons of industrial wastes, 15 tons of liquid
Comments Date: 09301994
Comments: hazardous was and 73 tons of solid hazardous waste was shipped
Comments Date: 09301994
Comments: off-site for disposal. RA #2. Removal of 1200 drums, 150
Comments Date: 09301994
Comments: drums containing solvents, 350 drums containing debris and 23
Comments Date: 09301994
Comments: drums contain- ing ash and liquids. Removal of tanks, vats,
Comments Date: 09301994
Comments: sumps, and process equipment. Removal of 1.18 tons of asbestos
Comments Date: 09301994
Comments: containing building materials. RA #3. Paving of previously and
Comments Date: 09301994
Comments: newly exposed surface soil resulting from the above removal
Comments Date: 09301994
Comments: actions. Paving used a chip seal material. Approximately 4 and
Comments Date: 09301994
Comments: 1/4 acres were sealed.
Comments Date: 11292001
Comments: Signed Prospective Purchaser Agreement (PPA) with a prospective

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Comments Date: 11292001
Comments: buyer.
ID Name: CALSTARS CODE
ID Value: 200061
ID Name: EPA IDENTIFICATION NUMBER
ID Value: CAD029295706
ID Name: BEP DATABASE PCODE
ID Value: P21039
Alternate Name: LORENTZ BARREL AND DRUM COMPANY
Alternate Name: LORENTZ BARREL & DRUM COMPANY
Alternate Name: 10TH STREET LAND MANAGEMENT CORPORATION
Alternate Name: Not reported
Special Programs Code: MSCA
Special Programs Name: MULTI-SITE COOPERATIVE AGREEMENT

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000049289
Facility Type: Other
Other Type: STEEL DRUM RECONDITI
Contact Name: E. LORENTZ, OWNER
Telephone: 4082927037
Owner Name: LORENTZ BARREL & DRUM CO., INC
Owner Address: 1515 SOUTH 10TH ST.
Owner City,St,Zip: SAN JOSE, CA 95112
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: None

LIENS 2:
Facility name: LORENTZ BARREL & DRUM CO.
Facility address: 1515 S 10TH ST
SAN JOSE, CA 95112
EPA ID: CAD029295706
Effective date: Not reported
Lien: LP001
Party name: Not reported
Reg: 09
Release date: Not reported
Start date: 08/30/1989
Complete date: Not reported

DEED:
Envirostor ID: 43300026
Area: 10TH STREET LAND MANAGEMENT PROPERTY
Sub Area: Not reported
Site Type: FEDERAL SUPERFUND

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Status: ACTIVE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 03/06/2002

Envirostor ID: 43300026
Area: NEWARK GROUP PROPERTY
Sub Area: Not reported
Site Type: FEDERAL SUPERFUND
Status: ACTIVE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 06/10/2005

RCRA NonGen / NLR:
Date form received by agency: 01/17/1995
Facility name: LORENTZ BARREL & DRUM CO INC
Facility address: 1515 S 10TH ST
SAN JOSE, CA 95112
EPA ID: CAD029295706
Mailing address: SANSOME ST
SAN FRANCISCO, CA 941113143
Contact: BRUCE KLAFTER
Contact address: 400 SANSOME ST
SAN FRANCISCO, CA 941113143
Contact country: US
Contact telephone: (415) 773-5576
Contact email: Not reported
EPA Region: 09
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: LORENTZ ERNEST
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

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

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

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 03/01/1985
Date achieved compliance: 03/08/1988
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: 03/01/1985
Date achieved compliance: 03/08/1988
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR IMMINENT AND SUBSTANTIAL ENDANGERMENT
Enforcement action date: 06/01/1987
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: 08/27/1985
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/12/1985
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Evaluation date: 03/18/1985
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/11/1985
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/01/1985
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 03/08/1988
Evaluation lead agency: State

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

PRP:

PRP name: A & B PAINTING, INC.
ADHESIVE CONSULTANTS
ADHESIVE CONSULTANTS CORP.
AERVOE PACIFIC
AERVOE PACIFIC
AJ DAW PRINTING INK CO
AJ RAISCH PAVING CO
ALAMEDA DEFENSE LOGISTICS FAC.
ALBUQUERQUE ENTERPRISES
ALCAL ROOFING
ALLGOOD INDUSTRIES
ALMADEN VINEYARDS, INC.
AMCHEM PRODUCTS, INC.
AMERICAN CAN CO
AMERICAN CONTRACTING
AMERICAN HOME FOODS
AMOCO
AMPEX CORP
AMSCO
ANACOMP
ANDERSON, R.R.
ANGRAY MERCHANDIZING CORP.
APACHE ENTERPRISE
APEX MARBLE, INC.
ARMOUR GROCERY PRODUCTS CO.
ARTESIA DOOR CO.
ARTESIA DOOR CO.
ASHLAND CHEMICAL CO
ASHLAND CHEMICAL COMPANY
ASHLAND CHEMICAL COMPANY
AUTO BODY SUPPLY WAREHOUSE, INC
B & W CHEMICAL, INC.
B & W CHEMICALS, INC.
B.W. NORTON MANUFACTURING CO.
BAY AREA PETROLEUM

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

BAYDAY CHEMICAL
BAYSIDE OIL CO.
BEATRICE FOODS CO.
BEECH NUT
BELL INDUSTRIES
BELVEDERE LABS
BILL MITCHELL DRUM
BOEHRINGER & MANNHEIM DIAGNOSTICS, INC.
BOISE CASCADE CORP
BORDEN, INC.
BRUCE CHURCH CO.
BRYANT CO., INC./ACS HOLDING CO., INC.
BUILDERS CABINET CO.
BURKE INDUSTRIES
BURKE INDUSTRIES CO.
CAL STONE
CALDO OIL CO.
CALIFORNIA CHEESE CO.
CALIFORNIA ROOFING CO., INC.
CALNAP TANNING CO.
CALRESIN CO.
CAPITOL PACKAGING
CASTLE SALES
CENTRAL COATING
CENTRAL SOLVENT-CHEMICAL

Click this hyperlink while viewing on your computer to access
308 additional PRP: record(s) in the EDR Site Report.

ICIS:

Enforcement Action ID:	09-2005-0079
FRS ID:	110002641954
Action Name:	Lorentz Barrel and Drum
Facility Name:	LORENTZ BARREL & DRUM CO INC
Facility Address:	1515 S 10TH ST SAN JOSE, CA 95112
Enforcement Action Type:	Civil Judicial Action
Facility County:	SANTA CLARA
Program System Acronym:	ICIS
Enforcement Action Forum Desc:	Judicial
EA Type Code:	CIV
Facility SIC Code:	Not reported
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	37.31861
Longitude in Decimal Degrees:	-121.8644
Permit Type Desc:	Not reported
Program System Acronym:	7150
Facility NAICS Code:	Not reported
Tribal Land Code:	Not reported

Enforcement Action ID:	09-2003-0005
FRS ID:	110002641954
Action Name:	California Resin and Chemical (Bankruptcy)
Facility Name:	LORENTZ BARREL & DRUM CO INC
Facility Address:	1515 S 10TH ST SAN JOSE, CA 95112
Enforcement Action Type:	Bankruptcy

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Facility County:	SANTA CLARA
Program System Acronym:	ICIS
Enforcement Action Forum Desc:	Judicial
EA Type Code:	BNK
Facility SIC Code:	Not reported
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	37.31861
Longitude in Decimal Degrees:	-121.8644
Permit Type Desc:	Not reported
Program System Acronym:	7150
Facility NAICS Code:	Not reported
Tribal Land Code:	Not reported

Enforcement Action ID:	09-2002-0184
FRS ID:	110002641954
Action Name:	Lorentz Barrel and Drum
Facility Name:	LORENTZ BARREL & DRUM CO INC
Facility Address:	1515 S 10TH ST SAN JOSE, CA 95112
Enforcement Action Type:	Civil Judicial Action
Facility County:	SANTA CLARA
Program System Acronym:	ICIS
Enforcement Action Forum Desc:	Judicial
EA Type Code:	CIV
Facility SIC Code:	Not reported
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	37.31861
Longitude in Decimal Degrees:	-121.8644
Permit Type Desc:	Not reported
Program System Acronym:	7150
Facility NAICS Code:	Not reported
Tribal Land Code:	Not reported

Enforcement Action ID:	09-2002-0034
FRS ID:	110002641954
Action Name:	LORENTZ BARREL AND DRUM - PPA
Facility Name:	LORENTZ BARREL & DRUM CO INC
Facility Address:	1515 S 10TH ST SAN JOSE, CA 95112
Enforcement Action Type:	Prospective Purchaser Agreement
Facility County:	SANTA CLARA
Program System Acronym:	ICIS
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	PPA
Facility SIC Code:	Not reported
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	37.31861
Longitude in Decimal Degrees:	-121.8644
Permit Type Desc:	Not reported
Program System Acronym:	7150
Facility NAICS Code:	Not reported
Tribal Land Code:	Not reported

Enforcement Action ID:	09-1996-0028
FRS ID:	110002641954
Action Name:	LORENTZ BARREL AND DRUM
Facility Name:	LORENTZ BARREL & DRUM CO INC

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Facility Address:	1515 S 10TH ST SAN JOSE, CA 95112
Enforcement Action Type:	CERCLA 122G Admin. Deminimis Cost Recov Settlement (Old)
Facility County:	SANTA CLARA
Program System Acronym:	ICIS
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	122G
Facility SIC Code:	Not reported
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	37.31861
Longitude in Decimal Degrees:	-121.8644
Permit Type Desc:	Not reported
Program System Acronym:	7150
Facility NAICS Code:	Not reported
Tribal Land Code:	Not reported

Facility Name:	LORENTZ BARREL & DRUM CO INC
Address:	1515 S 10TH ST
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported

Facility Name:	LORENTZ BARREL & DRUM CO INC
Address:	1515 S 10TH ST
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported

Facility Name:	LORENTZ BARREL & DRUM CO INC
Address:	1515 S 10TH ST
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported

Facility Name:	LORENTZ BARREL & DRUM CO INC
Address:	1515 S 10TH ST
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported

Facility Name:	LORENTZ BARREL & DRUM CO INC
Address:	1515 S 10TH ST
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported

Facility Name:	LORENTZ BARREL & DRUM CO INC
Address:	1515 S 10TH ST
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

SIC Code: Not reported

Facility Name: LORENTZ BARREL & DRUM CO INC
Address: 1515 S 10TH ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: LORENTZ BARREL & DRUM CO INC
Address: 1515 S 10TH ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: LORENTZ BARREL & DRUM CO INC
Address: 1515 S 10TH ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: LORENTZ BARREL & DRUM CO INC
Address: 1515 S 10TH ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: LORENTZ BARREL & DRUM CO INC
Address: 1515 S 10TH ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: LORENTZ BARREL & DRUM CO INC
Address: 1515 S 10TH ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: LORENTZ BARREL & DRUM CO INC
Address: 1515 S 10TH ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: LORENTZ BARREL & DRUM CO INC
Address: 1515 S 10TH ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: LORENTZ BARREL & DRUM CO INC
Address: 1515 S 10TH ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Facility Name: LORENTZ BARREL & DRUM CO INC
Address: 1515 S 10TH ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: LORENTZ BARREL & DRUM CO INC
Address: 1515 S 10TH ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: LORENTZ BARREL & DRUM CO INC
Address: 1515 S 10TH ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: LORENTZ BARREL & DRUM CO INC
Address: 1515 S 10TH ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: LORENTZ BARREL & DRUM CO INC
Address: 1515 S 10TH ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: LORENTZ BARREL & DRUM CO INC
Address: 1515 S 10TH ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: LORENTZ BARREL & DRUM CO INC
Address: 1515 S 10TH ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: LORENTZ BARREL & DRUM CO INC
Address: 1515 S 10TH ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: LORENTZ BARREL & DRUM CO INC

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

Address: 1515 S 10TH ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: LORENTZ BARREL & DRUM CO INC
Address: 1515 S 10TH ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: LORENTZ BARREL & DRUM CO INC
Address: 1515 S 10TH ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

CONSENT:
EPA ID: CAD029295706
Site ID: Not reported
Case Title: Not reported
Court Num: Not reported
District: Not reported
Entered Date: Not reported
Full-text of the consent decree for this site issued by the United States District Court is available from EDR. Contact your EDR Account Executive.

FINDS:

Registry ID: 110002641954

Environmental Interest/Information System
SUPERFUND NPL

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.

STATE MASTER

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to

LORENTZ BARREL & DRUM CO. (Continued) **1000208886**

replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000208886
Registry ID:	110002641954
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002641954

CORTESE:

Region:	CORTESE
Envirostor Id:	43300026
Site/Facility Type:	FEDERAL SUPERFUND - LISTED
Cleanup Status:	ACTIVE - LAND USE RESTRICTIONS
Status Date:	01/01/1985
Site Code:	200061
Latitude:	37.318644
Longitude:	-121.86554
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	envirostor
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

B3 **1X SPRIGG ELECTRIC** **CA HAZNET** **S112846977**
1303 LICK AVE **N/A**
< 1/8 **SAN JOSE, CA 95110**
0.001 mi.
3 ft. **Site 1 of 9 in cluster B**

Relative:
Higher

Actual:
117 ft.

HAZNET:

envid:	S112846977
Year:	1993
GEPAID:	CAC000836416
Contact:	CATHY WHITELY
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	1303 LICK AVE
Mailing City,St,Zip:	SAN JOSE, CA 951100000
Gen County:	Not reported

1X SPRIGGG ELECTRIC (Continued) **S112846977**

TSD EPA ID:	CAD982446890
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Transfer Station
Tons:	0.91739999999
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	S112846977
Year:	1993
GEPAID:	CAC000836416
Contact:	CATHY WHITELY
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	1303 LICK AVE
Mailing City,St,Zip:	SAN JOSE, CA 951100000
Gen County:	Not reported
TSD EPA ID:	CAD982446890
TSD County:	Not reported
Waste Category:	Waste oil and mixed oil
Disposal Method:	Transfer Station
Tons:	0.2293
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	S112846977
Year:	1993
GEPAID:	CAC000836416
Contact:	CATHY WHITELY
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	1303 LICK AVE
Mailing City,St,Zip:	SAN JOSE, CA 951100000
Gen County:	Not reported
TSD EPA ID:	CAD083166728
TSD County:	Not reported
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Tons:	3.54450000000
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	S112846977
Year:	1993
GEPAID:	CAC000836416
Contact:	CATHY WHITELY
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	1303 LICK AVE
Mailing City,St,Zip:	SAN JOSE, CA 951100000
Gen County:	Not reported
TSD EPA ID:	CAD009466392
TSD County:	Not reported
Waste Category:	Other empty containers 30 gallons or more

1X SPRIGG ELECTRIC (Continued) **S112846977**

Disposal Method: Recycler
Tons: 4.5
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Santa Clara

envid: S112846977
Year: 1993
GEPAID: CAC000836416
Contact: CATHY WHITELY
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 1303 LICK AVE
Mailing City,St,Zip: SAN JOSE, CA 951100000
Gen County: Not reported
TSD EPA ID: CAD043260702
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Tons: 2.50199999999
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Santa Clara

Click this hyperlink while viewing on your computer to access additional CA_HAZNET: detail in the EDR Site Report.

B4 **SPRIG ELECTRIC** **CA LUST** **U001602504**
1303 LICK AVE **CA HIST LUST** **N/A**
< 1/8 **SAN JOSE, CA 95110** **CA SWEEPS UST**
0.001 mi. **CA HIST UST**
3 ft. **Site 2 of 9 in cluster B**

Relative:
Higher

Actual:
117 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 07S1E20G01f
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

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 07S1E20G01
Oversite Agency: SCVWD
Date Listed: 1993-07-13 00:00:00
Closed Date: 1994-09-15 00:00:00

SPRIG ELECTRIC (Continued) **U001602504**

SWEEPS UST:

Status:	Active
Comp Number:	400476
Number:	9
Board Of Equalization:	Not reported
Referral Date:	09-30-92
Action Date:	09-08-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-060-400476-000001
Tank Status:	A
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	3

Status:	Active
Comp Number:	400476
Number:	9
Board Of Equalization:	Not reported
Referral Date:	09-30-92
Action Date:	09-08-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-060-400476-000002
Tank Status:	A
Capacity:	6000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	400476
Number:	9
Board Of Equalization:	Not reported
Referral Date:	09-30-92
Action Date:	09-08-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-060-400476-000003
Tank Status:	A
Capacity:	2000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE

SPRIG ELECTRIC (Continued) **U001602504**

Facility ID:	00000044863
Facility Type:	Other
Other Type:	ELECTRICAL CO.
Contact Name:	WESLEY L. BEGLEY
Telephone:	4082983134
Owner Name:	SPRIG ELECTRIC
Owner Address:	1303 LICK AVENUE
Owner City,St,Zip:	SAN JOSE, CA 95110
Total Tanks:	0003
Tank Num:	001
Container Num:	1
Year Installed:	1980
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Visual
Tank Num:	002
Container Num:	2
Year Installed:	1979
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	3/16
Leak Detection:	Visual, Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	1979
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	10
Leak Detection:	Visual, Stock Inventor

B5 **SPRIG ELECTRIC** **CA RGA LUST** **S114694897**
1303 LICK AVE **N/A**
< 1/8 **SAN JOSE, CA**
0.001 mi.
3 ft. **Site 3 of 9 in cluster B**

Relative:
Higher

Actual:
117 ft.

RGA LUST:

2012	SPRIG ELECTRIC	1303 LICK AVE
2011	SPRIG ELECTRIC	1303 LICK AVE
2010	SPRIG ELECTRIC	1303 LICK AVE
2009	SPRIG ELECTRIC	1303 LICK AVE
2008	SPRIG ELECTRIC	1303 LICK AVE
2007	SPRIG ELECTRIC	1303 LICK AVE
2006	SPRIG ELECTRIC	1303 LICK AVE
2005	SPRIG ELECTRIC	1303 LICK AVE
2003	SPRIG ELECTRIC	1303 LICK AVE
2002	SPRIG ELECTRIC	1303 LICK AVE
2001	SPRIG ELECTRIC	1303 LICK AVE
2000	SPRIG ELECTRIC	1303 LICK AVE
1998	SPRIG ELECTRIC	1303 LICK AVE
1997	SPRIG ELECTRIC	1303 LICK AVE

B6 **SPRIG ELECTRIC** **FINDS** **1023271760**
1303 LICK AVE **N/A**
< 1/8 **SAN JOSE, CA 95110**
0.001 mi.
3 ft. **Site 4 of 9 in cluster B**

Relative:
Higher

Actual:
117 ft.

FINDS:

Registry ID: 110065617577

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

B7 **SPRIG ELECTRIC** **CA HIST UST** **S112951230**
1303 LICK AVENUE **CA HAZNET** **N/A**
< 1/8 **SAN JOSE, CA 95110**
0.001 mi.
3 ft. **Site 5 of 9 in cluster B**

Relative:
Higher

Actual:
117 ft.

HIST UST:

File Number:	00020929
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00020929.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

HAZNET:

envid:	S112951230
Year:	2006
GEPAID:	CAC002600029
Contact:	JESSIE THIELEN
Telephone:	4089386312
Mailing Name:	Not reported
Mailing Address:	777 N 1ST ST 5TH FL
Mailing City,St,Zip:	SAN JOSE, CA 95112
Gen County:	Not reported
TSD EPA ID:	CAD981382732

SPRIG ELECTRIC (Continued) **S112951230**

TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Disposal, Land Fill
Tons:	10.95
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

B8 **SPRIG ELECTRIC** **CA RGA LUST** **S114694896**
1303 LICK AVENUE **N/A**
< 1/8 **SAN JOSE, CA**
0.001 mi.
3 ft. **Site 6 of 9 in cluster B**

Relative:
Higher

Actual:
117 ft.

RGA LUST:

1996	SPRIG ELECTRIC	1303 LICK AVENUE
1995	SPRIG ELECTRIC	1303 LICK AVENUE
1994	SPRIG ELECTRIC	1303 LICK AVENUE

B9 **SPRIG ELECTRIC** **CA LUST** **S100928130**
1303 LICK AVE **CA HIST CORTESE** **N/A**
< 1/8 **SAN JOSE, CA 95110**
0.001 mi.
3 ft. **Site 7 of 9 in cluster B**

Relative:
Higher

Actual:
117 ft.

LUST:

Region:	STATE
Global Id:	T0608504753
Latitude:	37.311696
Longitude:	-121.883044
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/15/1994
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:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608504753
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0608504753
Contact Type:	Local Agency Caseworker

SPRIG ELECTRIC (Continued) **S100928130**

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

Status History:
Global Id: T0608504753
Status: Completed - Case Closed
Status Date: 09/15/1994

Global Id: T0608504753
Status: Open - Case Begin Date
Status Date: 01/01/1992

Regulatory Activities:
Global Id: T0608504753
Action Type: Other
Date: 01/01/1992
Action: Leak Reported

Global Id: T0608504753
Action Type: RESPONSE
Date: 06/24/1994
Action: Other Report / Document

Global Id: T0608504753
Action Type: ENFORCEMENT
Date: 09/15/1994
Action: Closure/No Further Action Letter

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 07S1E20G01F
Date Closed: 09/15/1994
EDR Link ID: 07S1E20G01F

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-1731

A10 **TAMIEN PLACE INVESTORS, LLC** **CA EMI** **S110503608**
1275 LICK AVENUE **N/A**
< 1/8 **SAN JOSE, CA 95110**
0.001 mi.
4 ft. **Site 3 of 5 in cluster A**

Relative:
Lower

Actual:
116 ft.

EMI:
Year: 2008
County Code: 43
Air Basin: SF
Facility ID: 18009

TAMIEN PLACE INVESTORS, LLC (Continued) **S110503608**

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
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	.001
NOX - Oxides of Nitrogen Tons/Yr:	.001
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2009
County Code:	43
Air Basin:	SF
Facility ID:	18009
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
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0.001
NOX - Oxides of Nitrogen Tons/Yr:	0.001
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2010
County Code:	43
Air Basin:	SF
Facility ID:	18009
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
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0.001
NOX - Oxides of Nitrogen Tons/Yr:	0.001
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2011
County Code:	43
Air Basin:	SF
Facility ID:	18009
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

TAMIEN PLACE INVESTORS, LLC (Continued) **S110503608**

Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0.001
NOX - Oxides of Nitrogen Tons/Yr:	0.001
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2012
County Code:	43
Air Basin:	SF
Facility ID:	18009
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
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0.001
NOX - Oxides of Nitrogen Tons/Yr:	0.001
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2013
County Code:	43
Air Basin:	SF
Facility ID:	18009
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
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0.004
NOX - Oxides of Nitrogen Tons/Yr:	0.004
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2014
County Code:	43
Air Basin:	SF
Facility ID:	18009
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:	0.000237323
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0.003622656
NOX - Oxides of Nitrogen Tons/Yr:	0.003976651
SOX - Oxides of Sulphur Tons/Yr:	6.906e-006
Particulate Matter Tons/Yr:	0.000218782
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.000210031

TAMIEN PLACE INVESTORS, LLC (Continued) **S110503608**

Year:	2015
County Code:	43
Air Basin:	SF
Facility ID:	18009
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:	0.000237323
Reactive Organic Gases Tons/Yr:	0.000208999
Carbon Monoxide Emissions Tons/Yr:	0.003622656
NOX - Oxides of Nitrogen Tons/Yr:	0.003976651
SOX - Oxides of Sulphur Tons/Yr:	6.906e-006
Particulate Matter Tons/Yr:	0.000218782
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.000210031

A11 **TAMIEN PLACE INVESTORS, LLC** **FINDS** **1015901327**
1275 LICK AVENUE **N/A**
< 1/8 **SAN JOSE, CA 95110**
0.001 mi.
4 ft. **Site 4 of 5 in cluster A**

Relative:
Lower

Actual:
116 ft.

FINDS:

Registry ID: 110054200645

Environmental Interest/Information System
AIR EMISSIONS CLASSIFICATION UNKNOWN

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

B12 **TRIUMPHS ONLY** **EDR Hist Auto** **1021261090**
1281 LICK AVENUE **N/A**
< 1/8 **SAN JOSE, CA 95110**
0.001 mi.
5 ft. **Site 8 of 9 in cluster B**

Relative:
Lower

Actual:
116 ft.

EDR Hist Auto

Year:	Name:	Type:
1985	TRIUMPHS ONLY	General Automotive Repair Shops
1986	TRIUMPHS ONLY	General Automotive Repair Shops
1987	TRIUMPHS ONLY	General Automotive Repair Shops
1988	TRIUMPHS ONLY	General Automotive Repair Shops

A13 NE < 1/8 0.017 mi. 91 ft. — **LUZO S AUTO UPHOLSTERY CLEANING**, **1244 LICK AVE**, **SAN JOSE, CA** — **EDR Hist Cleaner** — **1009133158** / **N/A**

Site 5 of 5 in cluster A

Relative: Lower

EDR Hist Cleaner

Actual: 115 ft.

Year:	Name:	Type:
1960	LUZO S AUTO UPHOLSTERY CLEANING	CLEANERS AND DYERS

C14 North < 1/8 0.020 mi. 103 ft. — **SORCI PETER S**, **1172 LICK AVE**, **SAN JOSE, CA 95110** — **EDR Hist Auto** — **1021295733** / **N/A**

Site 1 of 3 in cluster C

Relative: Lower

EDR Hist Auto

Actual: 113 ft.

Year:	Name:	Type:
1976	SORCI PETER S	General Automotive Repair Shops
1977	SORCI PETER S	General Automotive Repair Shops
1978	SORCI PETER S	General Automotive Repair Shops
1979	SORCI PETER S	General Automotive Repair Shops
1980	SORCI PETER S	General Automotive Repair Shops
1982	SORCI PETER S	General Automotive Repair Shops
1983	SORCI PETER S	General Automotive Repair Shops
1985	SORCI PETER S	General Automotive Repair Shops
1986	SORCI PETER S	General Automotive Repair Shops
1987	SORCI PETER S	General Automotive Repair Shops
1988	SORCI PETER S	General Automotive Repair Shops
1989	SORCI PETER S	General Automotive Repair Shops
1990	SORCI PETER S	General Automotive Repair Shops
1991	SORCI PETER S	General Automotive Repair Shops
1992	SORCI PETER S	General Automotive Repair Shops
1993	SORCI PETER S	General Automotive Repair Shops
1999	SORCI AUTO REPAIR	General Automotive Repair Shops
2000	SORCI AUTO REPAIR	General Automotive Repair Shops
2001	SORCI AUTO REPAIR	General Automotive Repair Shops
2002	SORCI AUTO REPAIR	General Automotive Repair Shops
2003	SORCI AUTO REPAIR	General Automotive Repair Shops
2004	SORCI AUTO REPAIR	General Automotive Repair Shops
2005	SORCI AUTO REPAIR	General Automotive Repair Shops
2006	SORCI AUTO REPAIR	General Automotive Repair Shops
2007	SORCI AUTO REPAIR	General Automotive Repair Shops
2008	SORCI AUTO REPAIR	General Automotive Repair Shops
2009	SORCI AUTO REPAIR	General Automotive Repair Shops

B15 ESE < 1/8 0.026 mi. 138 ft. — **CALIFORNIA DRYWALL CO**, **390 FLOYD ST**, **SAN JOSE, CA 95110** — **CA SWEEPS UST** — **S104581775** / **N/A**

Site 9 of 9 in cluster B

Relative: Lower

SWEEPS UST:

Status:	Not reported
Comp Number:	403071
Number:	Not reported

Actual: 116 ft.

CALIFORNIA DRYWALL CO (Continued) **S104581775**

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:	43-060-403071-000001
Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	1

C16 **SCVTA - TAMIEN** **CA LUST** **S103473051**
NNW **1193 LICK AVE** **CA HIST LUST** **N/A**
< 1/8 **SAN JOSE, CA 95110**
0.034 mi.
179 ft. **Site 2 of 3 in cluster C**

Relative:
Lower

Actual:
113 ft.

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Case Closed
Case Number:	07S1E20B01f
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:	6/7/1990
Pollution Characterization Began:	6/7/1990
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	6/11/1990

HIST LUST SANTA CLARA:

Region:	SANTA CLARA
Region Code:	2
SCVWD ID:	07S1E20B01
Oversite Agency:	SCVWD
Date Listed:	1990-12-17 00:00:00
Closed Date:	1997-09-18 00:00:00

C17 **SCVTA TAMIEN** **CA LUST** **S102436533**
NNW **1193 LICK** **CA HIST CORTESE** **N/A**
< 1/8 **SAN JOSE, CA 95110**
0.034 mi.
179 ft. **Site 3 of 3 in cluster C**

Relative:
Lower

Actual:
113 ft.

LUST:

Region:	STATE
Global Id:	T0608501217
Latitude:	37.3141979856263
Longitude:	-121.884893774986

SCVTA TAMIEN (Continued) **S102436533**

Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/18/1997
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:	All Files are on GeoTracker or in the Local Agency Database
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:	T0608501217
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0608501217
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

Status History:

Global Id:	T0608501217
Status:	Completed - Case Closed
Status Date:	09/18/1997

Global Id:	T0608501217
Status:	Open - Case Begin Date
Status Date:	06/07/1990

Global Id:	T0608501217
Status:	Open - Site Assessment
Status Date:	06/07/1990

Global Id:	T0608501217
Status:	Open - Verification Monitoring
Status Date:	06/11/1990

Regulatory Activities:

Global Id:	T0608501217
Action Type:	RESPONSE
Date:	09/18/1997
Action:	Other Report / Document

SCVTA TAMIEN (Continued) **S102436533**

Global Id: T0608501217
Action Type: ENFORCEMENT
Date: 06/03/1993
Action: Notice of Responsibility - #39773

Global Id: T0608501217
Action Type: ENFORCEMENT
Date: 12/09/1997
Action: Staff Letter - #25188

Global Id: T0608501217
Action Type: RESPONSE
Date: 12/12/1997
Action: Monitoring Report - Quarterly

Global Id: T0608501217
Action Type: RESPONSE
Date: 09/01/1996
Action: Other Report / Document

Global Id: T0608501217
Action Type: ENFORCEMENT
Date: 06/12/1996
Action: Staff Letter - #25182

Global Id: T0608501217
Action Type: Other
Date: 11/08/1990
Action: Leak Reported

Global Id: T0608501217
Action Type: ENFORCEMENT
Date: 09/18/1997
Action: Closure/No Further Action Letter

Global Id: T0608501217
Action Type: REMEDIATION
Date: 11/08/1990
Action: Excavation

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 07S1E20B01F
Date Closed: 09/18/1997
EDR Link ID: 07S1E20B01F

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-1239

18 SSE < 1/8 0.071 mi. 374 ft. | **SKYLINE AT TAMIEN STATION**
1375 LICK AV
SAN JOSE, CA 95110 | **CA CUPA Listings**
CA SAN JOSE HAZMAT | **S109931351**
N/A

Relative: Lower

Actual: 114 ft.

CUPA SANTA CLARA:

Region:	SANTA CLARA
PE#:	BP01
Program Description:	HMBP FACILITY, 1-3 CHEMICALS
Latitude:	37.311150
Longitude:	-121.882430

SAN JOSE HAZMAT:

Region:	SAN JOSE
File Num:	412125
Class:	Auto Wrecking/Misc Simple Facility

D19 NW < 1/8 0.104 mi. 550 ft. | **ERNEST J FUNK CORP**
1045 PEPITONE AVE
SAN JOSE, CA 95110
Site 1 of 4 in cluster D | **RCRA-SQG**
FINDS
ECHO
CA HAZNET | **1000222437**
CAD981170640

Relative: Lower

Actual: 112 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	ERNEST J FUNK CORP
Facility address:	1045 PEPITONE AVE SAN JOSE, CA 95110
EPA ID:	CAD981170640
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
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 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:	GEORGE P PRETZER
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported

ERNEST J FUNK CORP (Continued) **1000222437**

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

Historical Generators:
Date form received by agency: 01/16/1986
Site name: ERNEST J FUNK CORP
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002681303

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.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000222437
Registry ID: 110002681303
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002681303

HAZNET:
envid: 1000222437
Year: 1994
GEPAID: CAD981170640
Contact: ERNEST J FUNK CORPORATION

ERNEST J FUNK CORP (Continued) **1000222437**

Telephone:	4082956280
Mailing Name:	Not reported
Mailing Address:	1045 PEPITONE AVE
Mailing City,St,Zip:	SAN JOSE, CA 951100000
Gen County:	Not reported
TSD EPA ID:	CAD059494310
TSD County:	Not reported
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Disposal, Other
Tons:	6.2550
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

D20 **ATLAS TRANSMISSION** **RCRA-SQG** **1000596009**
NW **1035 PEPITONE AVE** **FINDS** **CAD983599689**
< 1/8 **SAN JOSE, CA 95110** **ECHO**
0.104 mi.
550 ft. **Site 2 of 4 in cluster D**

Relative:
Lower

Actual:
112 ft.

RCRA-SQG:

Date form received by agency:	08/01/1991
Facility name:	ATLAS TRANSMISSION
Facility address:	1035 PEPITONE AVE SAN JOSE, CA 95110
EPA ID:	CAD983599689
Mailing address:	PEPITONE AVE SAN JOSE, CA 95110
Contact:	ROD INTOSCHI
Contact address:	1035 PEPITONE AVE SAN JOSE, CA 95110
Contact country:	US
Contact telephone:	(408) 998-2892
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:	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:	ROD INTOSCHI
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported

ATLAS TRANSMISSION (Continued) **1000596009**

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: 110002856534

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.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000596009
Registry ID: 110002856534
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002856534

D21 **B & M BODY SHOP** **CA CUPA Listings** **S104857468**
NW **1035 PEPITONE AV 1** **CA EMI** **N/A**
< 1/8 **SAN JOSE, CA 95110** **CA SAN JOSE HAZMAT**
0.104 mi.
550 ft. **Site 3 of 4 in cluster D**

Relative:
Lower

Actual:
112 ft.

CUPA SANTA CLARA:
Region: SANTA CLARA
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Latitude: 37.315546

B & M BODY SHOP (Continued) **S104857468**

Longitude: -121.886410

EMI:

Year:	2014
County Code:	43
Air Basin:	SF
Facility ID:	23050
Air District Name:	BA
SIC Code:	7532
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:	0.058929254
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 and Smllr Tons/Yr:	0

Year:	2015
County Code:	43
Air Basin:	SF
Facility ID:	23050
Air District Name:	BA
SIC Code:	7532
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:	0.058929257
Reactive Organic Gases Tons/Yr:	0.058929257
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 and Smllr Tons/Yr:	0

SAN JOSE HAZMAT:

Region:	SAN JOSE
File Num:	406987
Class:	Auto Body and Paint

D22 **B & M AUTOBODY SHOP** **EDR Hist Auto** **1021158640**
NW **1035 PEPITONE AVE** **N/A**
< 1/8 **SAN JOSE, CA 95110**
0.104 mi.
550 ft. **Site 4 of 4 in cluster D**

Relative:
Lower

Actual:
112 ft.

EDR Hist Auto

Year:	Name:	Type:
1983	UNITED GLASS WORKS*	Automotive Repair Shops, NEC
1985	UNITED GLASS WORKS*	Automotive Repair Shops, NEC
1986	UNITED GLASS WORKS*	Automotive Repair Shops, NEC
1987	UNITED GLASS WORKS*	Automotive Repair Shops, NEC
1988	UNITED GLASS WORKS	Automotive Repair Shops, NEC
1992	LOUIS BETENCOURT	General Automotive Repair Shops

B & M AUTOBODY SHOP (Continued) **1021158640**

1993	LOUIS BETENCOURT	General Automotive Repair Shops
1994	LOUIS BETENCOURT	General Automotive Repair Shops
2006	B & M AUTOBODY SHOP	General Automotive Repair Shops
2007	B & M AUTOBODY SHOP	General Automotive Repair Shops
2008	B & M AUTOBODY SHOP	General Automotive Repair Shops
2009	B & M AUTOBODY SHOP	General Automotive Repair Shops
2010	B & M AUTOBODY SHOP	General Automotive Repair Shops
2011	B & M AUTOBODY SHOP	General Automotive Repair Shops
2012	B & M AUTOBODY SHOP	General Automotive Repair Shops

E23 **ALMA GOLF COURSE** **CA HIST UST** **U001602843**
South **455 W ALMA AVE** **N/A**
1/8-1/4 **SAN JOSE, CA 95125**
0.127 mi.
671 ft. **Site 1 of 2 in cluster E**

Relative:
Lower

Actual:
113 ft.

HIST UST:

File Number:	0002CF27
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002CF27.pdf
Region:	STATE
Facility ID:	00000064989
Facility Type:	Other
Other Type:	GOLF COURSE
Contact Name:	Not reported
Telephone:	4083776038
Owner Name:	CAL TRANS
Owner Address:	150 OAK ST.
Owner City,St,Zip:	SAN FRANCISCO, CA 94120
Total Tanks:	0000
Tank Num:	001
Container Num:	ROSS 7
Year Installed:	1961
Tank Capacity:	00000100
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

E24 **BPO ELKS CLUB** **CA SAN JOSE HAZMAT** **S104857373**
South **444 W ALMA AV** **N/A**
1/8-1/4 **SAN JOSE, CA 95110**
0.163 mi.
860 ft. **Site 2 of 2 in cluster E**

Relative:
Lower

Actual:
113 ft.

SAN JOSE HAZMAT:

Region:	SAN JOSE
File Num:	400178
Class:	Auto Wrecking/Misc Simple Facility

F25 WNW 1/8-1/4 0.183 mi. 966 ft. — **OUT OF BUSINESS**, **1143 LELONG ST SUITE H**, **SAN JOSE, CA 95110** — **CA SAN JOSE HAZMAT** — **S115780658** / **N/A**

Site 1 of 6 in cluster F

Relative: Lower
Actual: 106 ft.

SAN JOSE HAZMAT:

Date of Data:	AS OF 02/07/2014
Region:	SAN JOSE
File Num:	412019
Class:	Auto Repair

F26 WNW 1/8-1/4 0.194 mi. 1024 ft. — **OUT OF BUSINESS**, **1127 LELONG ST**, **SAN JOSE, CA 95110** — **CA HAZNET**, **CA SAN JOSE HAZMAT** — **S113143060** / **N/A**

Site 2 of 6 in cluster F

Relative: Lower
Actual: 106 ft.

HAZNET:

envid:	S113143060
Year:	2009
GEPAID:	CAL000307920
Contact:	ERNEST MARTIN GALBAN
Telephone:	4082801680
Mailing Name:	Not reported
Mailing Address:	1127 LELONG ST
Mailing City,St,Zip:	SAN JOSE, CA 951103203
Gen County:	Not reported
TSD EPA ID:	NVT330010000
TSD County:	Not reported
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.4
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

SAN JOSE HAZMAT:

Date of Data:	AS OF 02/07/2014
Region:	SAN JOSE
File Num:	412101
Class:	Auto Body and Paint

F27 WNW 1/8-1/4 0.195 mi. 1029 ft. — **LEES DIESEL SERVICE CO**, **1125 LELONG ST**, **SAN JOSE, CA 95110** — **RCRA-SQG**, **FINDS**, **ECHO**, **CA HAZNET**, **CA SAN JOSE HAZMAT** — **1000374587** / **CAD981443096**

Site 3 of 6 in cluster F

Relative: Lower
Actual: 105 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	LEES DIESEL SERVICE CO
Facility address:	1125 LELONG ST SAN JOSE, CA 95110
EPA ID:	CAD981443096
Contact:	Not reported
Contact address:	Not reported

LEES DIESEL SERVICE CO (Continued) **1000374587**

	Not reported
Contact country:	US
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 hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	JAMES LEE
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

Historical Generators:

Date form received by agency:	09/09/1986
Site name:	LEES DIESEL SERVICE CO
Classification:	Large Quantity Generator
Violation Status:	No violations found

LEES DIESEL SERVICE CO (Continued) **1000374587**

FINDS:

Registry ID: 110002707875

Environmental Interest/Information System
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.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000374587
Registry ID: 110002707875
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002707875

HAZNET:
envid: 1000374587
Year: 2000
GEPAID: CAD981443096
Contact: JAMES LEE, OWNER
Telephone: 4082946570
Mailing Name: Not reported
Mailing Address: 1125 LELONG ST
Mailing City,St,Zip: SAN JOSE, CA 951103203
Gen County: Not reported
TSD EPA ID: CA0000084517
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Treatment, Tank
Tons: 0.37
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Santa Clara

envid: 1000374587
Year: 2000
GEPAID: CAD981443096
Contact: JAMES LEE, OWNER
Telephone: 4082946570
Mailing Name: Not reported
Mailing Address: 1125 LELONG ST
Mailing City,St,Zip: SAN JOSE, CA 951103203
Gen County: Not reported
TSD EPA ID: CA0000084517
TSD County: Not reported

LEES DIESEL SERVICE CO (Continued) **1000374587**

Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Treatment, Tank
Tons: 0.37
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Santa Clara

envid: 1000374587
Year: 1999
GEPAID: CAD981443096
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 1125 LELONG ST
Mailing City,St,Zip: SAN JOSE, CA 951103203
Gen County: Not reported
TSD EPA ID: CAL000161743
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Transfer Station
Tons: .1459
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Santa Clara

envid: 1000374587
Year: 1999
GEPAID: CAD981443096
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 1125 LELONG ST
Mailing City,St,Zip: SAN JOSE, CA 951103203
Gen County: Not reported
TSD EPA ID: CAL000161743
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Transfer Station
Tons: .1459
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Santa Clara

SAN JOSE HAZMAT:
Date of Data: AS OF 02/07/2014
Region: SAN JOSE
File Num: 403162
Class: Auto Repair

28 West 1/8-1/4 0.199 mi. 1050 ft. | **FAHRNER PROPERTY**
495 MINNESOTA AVE
SAN JOSE, CA 95125 | **CA LUST**
CA HIST LUST
CA HIST CORTESE | **S103473063**
N/A

Relative: Lower

Actual: 105 ft.

LUST:

Region:	STATE
Global Id:	T0608502016
Latitude:	37.312996
Longitude:	-121.888767
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/21/1998
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:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608502016
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0608502016
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

Status History:

Global Id:	T0608502016
Status:	Completed - Case Closed
Status Date:	09/21/1998

Global Id:	T0608502016
Status:	Open - Case Begin Date
Status Date:	08/02/1996

Global Id:	T0608502016
Status:	Open - Remediation
Status Date:	08/02/1998

Global Id:	T0608502016

FAHRNER PROPERTY (Continued) **S103473063**

Status: Open - Site Assessment
Status Date: 08/02/1996

Regulatory Activities:
Global Id: T0608502016
Action Type: RESPONSE
Date: 09/21/1998
Action: Other Report / Document

Global Id: T0608502016
Action Type: ENFORCEMENT
Date: 09/21/1998
Action: Closure/No Further Action Letter

Global Id: T0608502016
Action Type: ENFORCEMENT
Date: 12/24/1996
Action: Notice of Responsibility - #39775

Global Id: T0608502016
Action Type: Other
Date: 11/07/1996
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 07S1E20F01f
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: 8/2/1996
Pollution Characterization Began: 8/2/1996
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: 8/2/1998
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 07S1E20F01F
Date Closed: 09/21/1998
EDR Link ID: 07S1E20F01F

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 07S1E20F01
Oversite Agency: SCVWD
Date Listed: 1996-12-23 00:00:00
Closed Date: 1998-09-21 00:00:00

FAHRNER PROPERTY (Continued) **S103473063**

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-2194

F29 WNW 1/8-1/4 0.199 mi. 1053 ft. **O/B (T & T AUTO BODY & REPAIR)** **CA SAN JOSE HAZMAT** **S115780498**
458 WILLOW ST SUITE D/E **N/A**
SAN JOSE, CA 95110

Site 4 of 6 in cluster F

Relative: Lower
Actual: 104 ft.

SAN JOSE HAZMAT:
Date of Data: AS OF 02/07/2014
Region: SAN JOSE
File Num: 406756
Class: Auto Repair

F30 WNW 1/8-1/4 0.199 mi. 1053 ft. **BRUZZONE PROPERTY** **CA LUST** **S105911311**
458 WILLOW ST **CA SLIC** **N/A**
SAN JOSE, CA 95110 **CA HIST LUST**

Site 5 of 6 in cluster F

Relative: Lower
Actual: 104 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Pollution Characterization
Case Number: 07S1E20F02f
How Discovered: Not reported
Leak Cause: Unknown
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 7/18/1994
Pollution Characterization Began: 7/16/2003
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: 07S1E20F02F
Date Closed: Not reported
EDR Link ID: 07S1E20F02F

SLIC:
Region: STATE
Facility Status: Completed - Case Closed
Status Date: 10/13/2014
Global Id: T0608523726
Lead Agency: SANTA CLARA COUNTY LOP
Lead Agency Case Number: Not reported
Latitude: 37.314503

BRUZZONE PROPERTY (Continued) **S105911311**

Longitude:	-121.888492
Case Type:	Cleanup Program Site
Case Worker:	GOR
Local Agency:	SANTA CLARA COUNTY LOP
RB Case Number:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Chlordane, Other Insecticides / Pesticide / Fumigants / Herbicides, Gasoline
Site History:	Will be handled as part of the Guadalupe Project.

Click here to access the California GeoTracker records for this facility:

HIST LUST SANTA CLARA:

Region:	SANTA CLARA
Region Code:	2
SCVWD ID:	07S1E20F02
Oversite Agency:	SFRWQCB
Date Listed:	2003-05-14 00:00:00
Closed Date:	Not reported

G31 **THRIFTY OIL STN.#039** **CA HIST UST** **U001602873**
SSW **545 ALMA STREET** **N/A**
1/8-1/4 **SAN JOSE, CA 95125**
0.214 mi.
1128 ft. **Site 1 of 7 in cluster G**

Relative:
Lower

Actual:
114 ft.

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000004717
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	2139239876
Owner Name:	THRIFTY OIL CO.
Owner Address:	10000 LAKEWOOD BLVD.
Owner City,St,Zip:	DOWNEY, CA 90240
Total Tanks:	0003
Tank Num:	001
Container Num:	039-1
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	039-2
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4

THRIFTY OIL STN.#039 (Continued) **U001602873**

Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 039-3
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

G32 SSW 1/8-1/4 0.214 mi. 1128 ft. **THRIFTY #039 (ARCO #5384)** **CA LUST** **S105637463**
545 WEST ALMA AVENUE **CA CHMIRS** **N/A**
SAN JOSE, CA 95110 **CA ENF**
CA NPDES

Site 2 of 7 in cluster G

Relative: Lower

Actual: 114 ft.

LUST:
Region: STATE
Global Id: T0608501436
Latitude: 37.3094066134049
Longitude: -121.886444091797
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 11/09/2016
Lead Agency: SANTA CLARA COUNTY LOP
Case Worker: CH
Local Agency: SANTA CLARA COUNTY LOP
RB Case Number: 03-091
LOC Case Number: 07S1E20L01f
File Location: All Files are on GeoTracker or in the Local Agency Database
Potential Media Affect: Aquifer used for drinking water supply, Soil
Potential Contaminants of Concern: Benzene, Toluene, Xylene, MTBE / TBA / Other Fuel Oxygenates, Gasoline
Site History: The site is currently an active gasoline retail outlet. Four double-walled fiberglass underground storage tanks (USTs), associated product piping, three dispenser islands, and a kiosk building are present on the site. The service station was operated by Thrifty Oil Corporation (Thrifty) until 1986, when operations were transferred to Atlantic Richfield Company (ARC). Land use in the vicinity is a mix of commercial and residential development. The site is located on the northeast corner of the intersection between West Alma Avenue and Belmont Way. The site is bordered by a City of San Jose parking lot to the north and the UNSCC Low Income Self-Help Center to the east. The Guadalupe River is located approximately 200 feet (ft) east of the site. The following information is presented to document the removal and upgrade activities of the dispenser islands and product line piping conducted at the site. Field data summarized in this report is also presented in Attachment A. Discussions of the specific scopes of work completed at the site are presented below. Prior to conducting work at the site, a site-specific Health and Safety Plan (HASP) was prepared as required by the Occupational Health and Safety Administration (OSHA) Standard "Hazardous Waste Operations and Emergency Response" guidelines (29 CFR 1910.120). The document was reviewed and signed by all onsite consulting personnel and any subcontractors under their control performing work at the site. Paradiso obtained permits to remove and replace ten product dispensers, associated under dispenser containment (UDC) and associated product and vent lines from the SJFD. Between March 30 and

THRIFTY #039 (ARCO #5384) (Continued) **S105637463**

April 2, 2009, Paradiso removed approximately 300 lineal feet of double walled, fiberglass product and vent lines, ten dispensers, and UDC from five dispenser island locations. No visible holes or cracks were present in the product or vent lines upon removal. Product piping, dispensers, UDCs, and miscellaneous debris was removed from the site by LD Transportation and transported to CWM-Kettleman in Kettleman City, California for disposal. Non-hazardous waste manifests for approximately 12 cubic yards of product piping are included in Attachment C. The original fill and pea gravel from the product and vent piping trenches was stored on site to be reused to backfill the product and vent piping trenches, following approval from Mr. Richard Bryson of the SJFD. On April 3, 2009, fuel line and dispenser compliance soil samples were collected by Stantec under the direction of Mr. Bryson of the SJFD. Fuel line soil samples PL-1-6 and PL-2-4 were collected at depths ranging from approximately 4 to 6 feet bgs. Dispenser soil samples D-1-6, D-2-6, D-3-6, D-4-6, D-5-6, D-6-6, D-7-6, D-8-6, D-9-6, D-10-6 were collected at depths of approximately 6 ft bgs. Soil samples were collected using a 2 inch diameter, 6 inch long brass sleeve and sealed with Teflon sheets and plastic end caps. Photo-ionization detector (PID) readings were collected for all samples and ranged from 0.4 ppm (D-4-6) to 1,240 ppm (D-6-6). Soil samples collected were submitted under chain of custody (COC) protocol to Calscience Environmental Laboratories, Inc., a California state certified laboratory. Samples were analyzed for the presence of gasoline range organics (GRO: C6-C12) by Environmental Protection Agency (EPA) Method 8015B; benzene, toluene, ethylbenzene, and total xylenes (collectively BTEX); di-isopropyl ether; ethanol; ethyl tert-butyl ether; methyl tert-butyl ether; tert-amyl methyl ether; tert-butyl alcohol; 1,2-dibromoethane; and 1,2-dichloroethane by EPA Method 8260B; and lead by EPA Method 6010B. Based upon field PID readings from samples D-5-6 and D-6-6 and visible hydrocarbon staining, Stantec directed over-excavatation of contaminated soil to the extent possible beneath the central-southern dispenser island. Paradiso over-excavated approximately 30 cubic yards of soil from the approximately 8 ftby 8 ft by 13 ft deep excavation. Excavated soil was temporarily stockpiled onsite pending waste characterization. The waste stockpile soil was ultimately transported by Belshire Environmental Services, Inc. (Belshire) to Forward Landfill in Manteca, CA. Once over-excavation beneath the dispenser island was complete, Stantec collected confirmation soil samples from the western (OE-W-8), southern (OE-S-8), and eastern (OE-E-8) walls of the excavation cavity at approximately 8 ft bgs, as well as the cavity bottom (OE-B-13) at approximately 13 ft bgs. A sample was not able to be collected from the northern wall of the cavity as the excavation extended to the concrete footing for the dispenser canopy. Visible hydrocarbon staining was present in all samples and PID readings ranged from 11.6 ppm (OEE-8) to 517 ppm (OE-B-13). Confirmation soil samples were analyzed for GRO by Environmental Protection Agency (EPA) Method 8015B; BTEX; di-isopropyl ether; ethanol; ethyl tert-butyl ether; methyl tert-butyl ether; tert-amyl methyl ether; tert-butyl alcohol; 1,2-dibromoethane; and 1,2-dichloroethane by EPA Method 8260B; and lead by EPA Method 6010B. GRO was detected in two of twelve confirmation soil samples at concentrations of 850 mg/kg (D-5-6) and 330 mg/kg (D-6-6). Ethylbenzene and xylenes were reported in the same soil samples at maximum concentrations of 1.6 and 3.2 mg/kg (D-6-6), respectively. No fuel oxygenates were reported for any dispenser or

THRIFTY #039 (ARCO #5384) (Continued) **S105637463**

product line soil sample. Lead was reported in all twelve dispenser and product line soil samples at concentrations ranging from 3.12 mg/kg to 31.9 mg/kg. All other constituents analyzed were not detected at or above the laboratory reporting limit. GRO was detected in all four of the confirmation soil samples at concentrations ranging from 2.3mg/kg (OE-E-8) to 2,700 mg/kg (OE-W-8). Ethylbenzene and xylenes were reported in the same soil samples at maximum concentrations of 5.3 and 11 mg/kg (OE-W-8), respectively. The fuel oxygenate MtBE was detected in one of the four over-excavation soil samples at 0.0019 mg/kg (OE-E-8) and lead was reported in all four over-excavation soil samples at concentrations ranging from 6.05 mg/kg to 8.83 mg/kg. All other constituents analyzed were not detected at or above the laboratory reporting limits. The average concentration of GRO in stockpile samples was 871 mg/kg (range 84 mg/kg to 1600 mg/kg). Paradiso successfully removed and disposed of ten fuel dispensers, UDCs and associated product piping from the site as well as approximately 30 yards of excavated soil. The dispenser and product line removal and collection of compliance soil samples was completed under the direction of Mr. Richard Bryson of the SJFD. Laboratory analysis of soil samples collected during dispenser and product line upgrade operations indicated the presence of impacts to the subsurface in the vicinity of the centralsouthern dispenser island. Since the site is the subject of ongoing environmental monitoring and remediation, no further investigation of these results is recommended at this time.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608501436
Contact Type:	Local Agency Caseworker
Contact Name:	CALVIN HEE
Organization Name:	SANTA CLARA COUNTY LOP
Address:	1555 Berger Drive
City:	SAN JOSE
Email:	calvin.hee@cep.sccgov.org
Phone Number:	4089183486

Global Id:	T0608501436
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

Status History:

Global Id:	T0608501436
Status:	Completed - Case Closed
Status Date:	11/09/2016

Global Id:	T0608501436
Status:	Open - Case Begin Date
Status Date:	08/18/1986

Global Id:	T0608501436

THRIFTY #039 (ARCO #5384) (Continued) **S105637463**

Status: Open - Eligible for Closure
Status Date: 05/15/2015

Global Id: T0608501436
Status: Open - Remediation
Status Date: 04/29/2004

Global Id: T0608501436
Status: Open - Site Assessment
Status Date: 06/08/1988

Global Id: T0608501436
Status: Open - Site Assessment
Status Date: 01/28/1991

Regulatory Activities:
Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 01/17/2013
Action: Staff Letter

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 03/29/2013
Action: Staff Letter

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 11/09/2016
Action: Staff Letter

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 05/07/2012
Action: Staff Letter

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 06/30/2011
Action: Staff Letter

Global Id: T0608501436
Action Type: RESPONSE
Date: 04/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0608501436
Action Type: RESPONSE
Date: 10/17/2008
Action: Soil and Water Investigation Workplan

Global Id: T0608501436
Action Type: RESPONSE
Date: 05/15/2015
Action: Other Report / Document

Global Id: T0608501436

THRIFTY #039 (ARCO #5384) (Continued) **S105637463**

Action Type:	ENFORCEMENT
Date:	09/05/2008
Action:	Staff Letter - #80509
Global Id:	T0608501436
Action Type:	ENFORCEMENT
Date:	06/28/2011
Action:	Staff Letter
Global Id:	T0608501436
Action Type:	ENFORCEMENT
Date:	07/24/2009
Action:	Staff Letter - #9002427
Global Id:	T0608501436
Action Type:	RESPONSE
Date:	12/29/2009
Action:	Site Assessment Report
Global Id:	T0608501436
Action Type:	RESPONSE
Date:	12/31/2001
Action:	Soil and Water Investigation Workplan
Global Id:	T0608501436
Action Type:	RESPONSE
Date:	06/22/2012
Action:	Other Report / Document
Global Id:	T0608501436
Action Type:	Other
Date:	06/30/1989
Action:	Leak Discovery
Global Id:	T0608501436
Action Type:	ENFORCEMENT
Date:	07/19/2011
Action:	Staff Letter
Global Id:	T0608501436
Action Type:	ENFORCEMENT
Date:	09/16/2011
Action:	Staff Letter
Global Id:	T0608501436
Action Type:	ENFORCEMENT
Date:	03/06/2015
Action:	Staff Letter
Global Id:	T0608501436
Action Type:	RESPONSE
Date:	10/30/2015
Action:	Fact Sheets - Public Participation
Global Id:	T0608501436
Action Type:	ENFORCEMENT
Date:	03/13/2015

THRIFTY #039 (ARCO #5384) (Continued) **S105637463**

Action: Staff Letter

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 06/12/2015
Action: Notification - Public Notice of Case Closure

Global Id: T0608501436
Action Type: RESPONSE
Date: 04/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0608501436
Action Type: RESPONSE
Date: 07/01/2002
Action: Monitoring Report - Quarterly

Global Id: T0608501436
Action Type: RESPONSE
Date: 07/15/2016
Action: Well Destruction Report

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 05/23/2013
Action: Staff Letter

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 05/04/2012
Action: Staff Letter

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 10/25/2012
Action: Staff Letter

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 09/16/2015
Action: Staff Letter

Global Id: T0608501436
Action Type: RESPONSE
Date: 10/31/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0608501436
Action Type: RESPONSE
Date: 10/31/1999
Action: Monitoring Report - Quarterly

Global Id: T0608501436
Action Type: RESPONSE
Date: 11/30/2011
Action: Site Assessment Report

THRIFTY #039 (ARCO #5384) (Continued) **S105637463**

Global Id: T0608501436
Action Type: RESPONSE
Date: 12/15/2016
Action: Well Destruction Report

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 08/22/2016
Action: Staff Letter

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 06/03/2014
Action: Staff Letter

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 10/11/2011
Action: Staff Letter

Global Id: T0608501436
Action Type: Other
Date: 06/30/1989
Action: Leak Reported

Global Id: T0608501436
Action Type: RESPONSE
Date: 10/31/2003
Action: Monitoring Report - Quarterly

Global Id: T0608501436
Action Type: RESPONSE
Date: 08/10/1999
Action: Monitoring Report - Quarterly

Global Id: T0608501436
Action Type: RESPONSE
Date: 07/30/1999
Action: Monitoring Report - Quarterly

Global Id: T0608501436
Action Type: RESPONSE
Date: 07/31/2004
Action: Monitoring Report - Quarterly

Global Id: T0608501436
Action Type: RESPONSE
Date: 01/31/2004
Action: Monitoring Report - Quarterly

Global Id: T0608501436
Action Type: RESPONSE
Date: 11/03/2003
Action: Other Report / Document

Global Id: T0608501436
Action Type: RESPONSE

THRIFTY #039 (ARCO #5384) (Continued) **S105637463**

Date: 04/28/2000
Action: Soil and Water Investigation Workplan

Global Id: T0608501436
Action Type: RESPONSE
Date: 08/22/2016
Action: Email Correspondence

Global Id: T0608501436
Action Type: RESPONSE
Date: 10/21/2016
Action: Soil Vapor Intrusion Investigation Workplan

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 03/25/2016
Action: Staff Letter

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 09/22/1993
Action: Notice of Violation - #39777

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 10/28/1995
Action: Staff Letter - #25056

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 03/19/1999
Action: Staff Letter - #25068

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 02/02/2000
Action: Staff Letter - #25075

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 09/27/2000
Action: Staff Letter - #25078

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 11/15/2001
Action: Staff Letter - #25083

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 04/29/2002
Action: Staff Letter - #37587

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 02/28/2003
Action: Staff Letter - #40981

THRIFTY #039 (ARCO #5384) (Continued) **S105637463**

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 11/20/2015
Action: Staff Letter

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 11/09/2016
Action: Closure/No Further Action Letter

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 11/03/2015
Action: Staff Letter

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 06/27/2012
Action: Site Visit / Inspection / Sampling

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 09/17/2013
Action: Staff Letter

Global Id: T0608501436
Action Type: RESPONSE
Date: 07/31/2003
Action: Monitoring Report - Quarterly

Global Id: T0608501436
Action Type: RESPONSE
Date: 11/15/2013
Action: Site Assessment Report

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 03/16/2015
Action: Staff Letter

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 07/24/2009
Action: Staff Letter - #9002427

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 07/19/1995
Action: Warning Letter - #25058

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 08/03/1999
Action: Staff Letter - #25070

Global Id: T0608501436
Action Type: ENFORCEMENT

THRIFTY #039 (ARCO #5384) (Continued) **S105637463**

Date: 02/20/2001
Action: Staff Letter - #25080

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 01/02/2002
Action: Staff Letter - #25085

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 08/01/2003
Action: Staff Letter - #41810

Global Id: T0608501436
Action Type: RESPONSE
Date: 04/30/2001
Action: Monitoring Report - Quarterly

Global Id: T0608501436
Action Type: RESPONSE
Date: 07/20/2005
Action: Correspondence

Global Id: T0608501436
Action Type: ENFORCEMENT
Date: 10/21/2016
Action: Staff Letter

Global Id: T0608501436
Action Type: RESPONSE
Date: 10/15/2011
Action: Other Report / Document

Global Id: T0608501436
Action Type: RESPONSE
Date: 09/15/2011
Action: Site Assessment Report

Global Id: T0608501436
Action Type: RESPONSE
Date: 11/15/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0608501436
Action Type: RESPONSE
Date: 10/30/2013
Action: Other Report / Document

Global Id: T0608501436
Action Type: RESPONSE
Date: 07/10/2014
Action: Site Investigation Workplan - Regulator Responded

Global Id: T0608501436
Action Type: RESPONSE
Date: 04/30/2004
Action: Monitoring Report - Quarterly

THRIFTY #039 (ARCO #5384) (Continued) **S105637463**

Global Id:	T0608501436
Action Type:	RESPONSE
Date:	12/18/2000
Action:	Other Report / Document

Global Id:	T0608501436
Action Type:	RESPONSE
Date:	03/15/2002
Action:	Soil and Water Investigation Report

Global Id:	T0608501436
Action Type:	RESPONSE
Date:	03/10/2015
Action:	Email Correspondence

Global Id:	T0608501436
Action Type:	REMEDIATION
Date:	12/20/1989
Action:	Excavation

Global Id:	T0608501436
Action Type:	REMEDIATION
Date:	04/21/1995
Action:	Free Product Removal

CHMIRS:

OES Incident Number:	15-1269
OES notification:	03/05/2015
OES Date:	Not reported
OES Time:	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
Facility Telephone:	Not reported
Waterway Involved:	No

THRIFTY #039 (ARCO #5384) (Continued) **S105637463**

Waterway:	Not reported
Spill Site:	Merchant/Business
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	UNSPECIFIED
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1430
Year:	2015
Agency:	BP
Incident Date:	03/05/2015
Admin Agency:	Santa Clara County Department of Environmental Health
Amount:	Not reported
Contained:	No
Site Type:	Not reported
E Date:	Not reported
Substance:	Hydraulic Fluid
Quantity Released:	2
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	Caller states someone dumped a 5 gallon bucket labeled hydraulic fluid at a gas station and fluid released on to the soil at the gas station.
OES Incident Number:	05
OES notification:	Not reported
OES Date:	1/20/1994
OES Time:	10:49:57 AM
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

THRIFTY #039 (ARCO #5384) (Continued) **S105637463**

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
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	storm drain involved.
Spill Site:	Not reported
Cleanup By:	Not reported
Containment:	Not reported
What Happened:	Not reported
Type:	PETROLEUM
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1994
Agency:	arco
Incident Date:	01/19/94 2155
Admin Agency:	Not reported
Amount:	8-9 gallons
Contained:	YES
Site Type:	S/S
E Date:	Not reported
Substance:	crude
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	NO
Number of Injuries:	NO
Number of Fatalities:	NO
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	customer drive-off.

ENF:

Region:	2
Facility Id:	655531
Agency Name:	ARCO Petroleum Products Company San Ramon
Place Type:	Service/Commercial
Place Subtype:	Gasoline Service Station

THRIFTY #039 (ARCO #5384) (Continued) **S105637463**

Facility Type:	Not reported
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:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	2 438636001
Reg Measure Id:	329839
Reg Measure Type:	Enrollee
Region:	2
Order #:	R2-2006-0075
Npdes# CA#:	CAG912002
Major-Minor:	Minor
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	5688
Status:	Historical
Status Date:	03/09/2012
Effective Date:	02/23/2007
Expiration/Review Date:	01/12/2012
Termination Date:	03/14/2012
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

THRIFTY #039 (ARCO #5384) (Continued) **S105637463**

Direction/Voice:	Active
Enforcement Id(EID):	381860
Region:	2
Order / Resolution Number:	R2-2012-0056
Enforcement Action Type:	Admin Civil Liability
Effective Date:	09/11/2012
Adoption/Issuance Date:	09/11/2012
Achieve Date:	Not reported
Termination Date:	09/26/2012
ACL Issuance Date:	Not reported
EPL Issuance Date:	08/01/2012
Status:	Historical
Title:	ACL R2-2012-0056 for ARCO Attn.: Ms. Shannon Couch
Description:	545 West Alma Facility, totalling $3,000 in MMPs.
Program:	NPDESWW
Latest Milestone Completion Date:	2012-09-21
# Of Programs1:	1
Total Assessment Amount:	3000
Initial Assessed Amount:	3000
Liability $ Amount:	3000
Project $ Amount:	0
Liability $ Paid:	3000
Project $ Completed:	0
Total $ Paid/Completed Amount:	3000

Region:	2
Facility Id:	655531
Agency Name:	Not reported
Place Type:	Service/Commercial
Place Subtype:	Gasoline Service Station
Facility Type:	Not reported
Agency Type:	Not reported
# Of Agencies:	Not reported
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:	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

THRIFTY #039 (ARCO #5384) (Continued) **S105637463**

Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	Not reported
Reg Measure Id:	329770
Reg Measure Type:	NPDES Permits
Region:	2
Order #:	R2-2006-0075
Npdes# CA#:	CAG912002
Major-Minor:	Minor
Npdes Type:	OTH
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	3437
Status:	Historical
Status Date:	08/24/2012
Effective Date:	01/12/2007
Expiration/Review Date:	01/12/2012
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:	G
Fee Code:	Not reported
Direction/Voice:	Active
Enforcement Id(EID):	379160
Region:	2
Order / Resolution Number:	R2-2011-0103
Enforcement Action Type:	Admin Civil Liability
Effective Date:	05/17/2011
Adoption/Issuance Date:	04/23/2012
Achieve Date:	Not reported
Termination Date:	05/11/2012
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	ACL for 545 West Alma
Description:	Not reported
Program:	NPDESWW
Latest Milestone Completion Date:	2012-05-11
# Of Programs1:	1
Total Assessment Amount:	6000
Initial Assessed Amount:	6000
Liability $ Amount:	6000
Project $ Amount:	0
Liability $ Paid:	6000
Project $ Completed:	0
Total $ Paid/Completed Amount:	6000
Region:	2
Facility Id:	655531

THRIFTY #039 (ARCO #5384) (Continued) **S105637463**

Agency Name:	Not reported
Place Type:	Service/Commercial
Place Subtype:	Gasoline Service Station
Facility Type:	Not reported
Agency Type:	Not reported
# Of Agencies:	Not reported
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:	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:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	Not reported
Reg Measure Id:	329770
Reg Measure Type:	NPDES Permits
Region:	2
Order #:	R2-2006-0075
Npdes# CA#:	CAG912002
Major-Minor:	Minor
Npdes Type:	OTH
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	3437
Status:	Historical
Status Date:	08/24/2012
Effective Date:	01/12/2007
Expiration/Review Date:	01/12/2012
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

THRIFTY #039 (ARCO #5384) (Continued) **S105637463**

Status Enrollee:	N
Individual/General:	G
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	372547
Region:	2
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	11/15/2009
Adoption/Issuance Date:	11/15/2009
Achieve Date:	Not reported
Termination Date:	11/16/2009
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Oral Com 11/15/2009
Description:	Not reported
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

NPDES:

Npdes Number:	CAG912002
Facility Status:	Historical
Agency Id:	393072
Region:	2
Regulatory Measure Id:	383548
Order No:	R2-2012-0012
Regulatory Measure Type:	Enrollee
Place Id:	655531
WDID:	2 438636002
Program Type:	NPDNONMUNIPRCS
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/15/2012
Expiration Date Of Regulatory Measure:	03/15/2017
Termination Date Of Regulatory Measure:	07/02/2014
Discharge Name:	ARCO Petroleum Products Company San Ramon
Discharge Address:	Po Box 1257
Discharge City:	San Ramon
Discharge State:	CA
Discharge Zip:	94583
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported

THRIFTY #039 (ARCO #5384) (Continued) **S105637463**

FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

G33
SSW
1/8-1/4
0.214 mi.
1128 ft.

ALMA ARCO
545 W ALMA AV
SAN JOSE, CA 95118

Site 3 of 7 in cluster G

CA SWEEPS UST
CA CUPA Listings
CA EMI
CA SAN JOSE HAZMAT

S106092306
N/A

Relative:
Lower

Actual:
114 ft.

SWEEPS UST:

Status:	Active
Comp Number:	400912
Number:	9
Board Of Equalization:	Not reported
Referral Date:	09-30-92
Action Date:	09-08-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-060-400912-000004
Tank Status:	A
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	4

Status:	Active
Comp Number:	400912
Number:	9
Board Of Equalization:	Not reported
Referral Date:	09-30-92
Action Date:	09-08-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-060-400912-000005
Tank Status:	A
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	400912
Number:	9
Board Of Equalization:	Not reported
Referral Date:	09-30-92
Action Date:	09-08-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-060-400912-000006
Tank Status:	A
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active

ALMA ARCO (Continued) **S106092306**

Comp Number: 400912
Number: 9
Board Of Equalization: Not reported
Referral Date: 09-30-92
Action Date: 09-08-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 43-060-400912-000007
Tank Status: A
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 400912
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: 43-060-400912-000001
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 3

Status: Not reported
Comp Number: 400912
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: 43-060-400912-000002
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 400912
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported

ALMA ARCO (Continued) **S106092306**

Owner Tank Id: Not reported
SWRCB Tank Id: 43-060-400912-000003
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

CUPA SANTA CLARA:

Region: SANTA CLARA
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Latitude: Not reported
Longitude: Not reported

Region: SANTA CLARA
PE#: 2399
Program Description: UNDERGROUND STORAGE TANK PROGRAM RECORD
Latitude: Not reported
Longitude: Not reported

Region: SANTA CLARA
PE#: BP01
Program Description: HMBP FACILITY, 1-3 CHEMICALS
Latitude: Not reported
Longitude: Not reported

EMI:

Year: 2012
County Code: 43
Air Basin: SF
Facility ID: 16690
Air District Name: BA
SIC Code: 5541
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: 0.005
Reactive Organic Gases Tons/Yr: 0.003493
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 and Smllr Tons/Yr: 0

Year: 2013
County Code: 43
Air Basin: SF
Facility ID: 16690
Air District Name: BA
SIC Code: 5541
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

ALMA ARCO (Continued) **S106092306**

Total Organic Hydrocarbon Gases Tons/Yr: 0.001
Reactive Organic Gases Tons/Yr: 0.0007163
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 and Smllr Tons/Yr: 0

SAN JOSE HAZMAT:
Region: SAN JOSE
File Num: 400912
Class: Gasoline Station

G34
SSW
1/8-1/4
0.214 mi.
1128 ft.

THRIFTY OIL STN 039
545 ALMA STREET
SAN JOSE, CA 95125

Site 4 of 7 in cluster G

CA LUST **S100179166**
CA HIST LUST **N/A**
CA HIST UST
CA HIST CORTESE
CA Notify 65

Relative:
Lower

Actual:
114 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Remedial action (cleanup) Underway
Case Number: 07S1E20L01f
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: 6/8/1988
Pollution Characterization Began: 1/28/1991
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: 4/29/2004
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 07S1E20L01F
Date Closed: Not reported
EDR Link ID: 07S1E20L01F

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 07S1E20L01
Oversite Agency: SCCDEH
Date Listed: 1987-01-01 00:00:00
Closed Date: Not reported

HIST UST:
File Number: 000209B8
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000209B8.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported

THRIFTY OIL STN 039 (Continued) **S100179166**

Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported

Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

HIST CORTESE:

Region:	CORTESE
Facility County Code:	43
Reg By:	LTNKA
Reg Id:	43-1466

NOTIFY 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Issue Date:	Not reported
Incident Description:	Not reported

G35 **ARCO 05384** **CA UST** **U004262511**
SSW **545 W ALMA AVE** **N/A**
1/8-1/4 **SAN JOSE, CA 95125**
0.214 mi.
1128 ft. **Site 5 of 7 in cluster G**

Relative:
Lower

Actual:
114 ft.

UST:

Facility ID:	43-060-400912
Permitting Agency:	Santa Clara County Environmental Health
Latitude:	37.309498
Longitude:	-121.886375

G36 SSW 1/8-1/4 0.214 mi. 1128 ft.

ARCO FACILITY NO 05384
545 W ALMA AVE
SAN JOSE, CA 95125

Site 6 of 7 in cluster G

RCRA-SQG FINDS ECHO

1004678199
CAR000106153

Relative: Lower

Actual: 114 ft.

RCRA-SQG:

Date form received by agency:	06/03/2002
Facility name:	ARCO FACILITY NO 05384
Facility address:	545 W ALMA AVE SAN JOSE, CA 95125
EPA ID:	CAR000106153
Mailing address:	P O BOX 6038 ARTESIA, CA 907026038
Contact:	JACK OMAN
Contact address:	P O BOX 6038 ARTESIA, CA 907026038
Contact country:	US
Contact telephone:	(714) 690-2425
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:	B P WEST COAST PRODUCTS LLC
Owner/operator address:	P O BOX 6038 ARTESIA, CA 90702
Owner/operator country:	Not reported
Owner/operator telephone:	(714) 690-2425
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

. Waste code: D000
. Waste name: Not Defined

ARCO FACILITY NO 05384 (Continued) **1004678199**

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Violation Status: No violations found

FINDS:

Registry ID: 110058366717

Environmental Interest/Information System
AIR EMISSIONS CLASSIFICATION UNKNOWN

Registry ID: 110012263807

Environmental Interest/Information System
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.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1004678199
Registry ID: 110012263807
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110012263807

F37 WNW 1/8-1/4 0.214 mi. 1131 ft. **GUADALUPE RIVER PROJECT - GUADALUPE RIVER PROJECT** **CA SLIC** **S111293382**
WILLOW STREET AND LELONG AVENUE **N/A**
SAN JOSE, CA 95110

Site 6 of 6 in cluster F

Relative: Lower

Actual: 105 ft.

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 10/13/2014
Global Id: T10000003264
Lead Agency: SANTA CLARA COUNTY LOP
Lead Agency Case Number: 07S1E20C02s
Latitude: 37.3146800925467
Longitude: -121.88850402832
Case Type: Cleanup Program Site
Case Worker: GOR
Local Agency: SANTA CLARA COUNTY LOP
RB Case Number: Not reported

GUADALUPE RIVER PROJECT - GUADALUPE RIVER PROJECT (Continued) **S111293382**

File Location: All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil, Surface water
Potential Contaminants of Concern: Benzene, DDD / DDE / DDT, Gasoline
Site History: Based on the April 2012 COPC concentration results, the groundwater cleanup goals have been reached at the Site, and no additional analysis is needed to estimate the time for these goals to be reached by natural attenuation. Groundwater quality beneath the Site meets the cleanup goals for COPCs. The cleanup goals for the Site are the State and federal MCLs for BTEX and MTBE, and the RWQCB ESL for TPHg. Groundwater monitoring results from samples collected during April 2012 show reductions in COPC concentrations in monitoring wells MW-1 and MW-9 compared to the previous sampling events in those wells. COPCs were not detected in groundwater from well MW-1, and only two of the COPCs were detected at the cleanup goal in groundwater from well MW-9. The decrease in concentrations over time confirms that the COPCs are naturally attenuating. In addition, the dissolved oxygen levels and general chemistry parameters demonstrate that the groundwater isaerobic and supportive of aerobic degradation of the petroleum constituents in groundwater. The remaining wells that were sampled (MW-3, MW-4, and MW-8) did not contain COPCs above their detection limits. These results are consistent with historical trends and confirm the absence of COPCs in these wells. Based on the analysis of the April 2012 groundwater monitoring event, the Site is currently meeting its groundwater quality objectives. It is recommended that the SCCDEH issue a No Further Action determination for groundwater monitoring and remediation at the Site. It is also recommended that destruction of the monitoring wells be completed as part of the future soil remediation work, as described in the project Draft Remedial Action Plan (Northgate, 2011), currently under review by the SCCDEH.

Click here to access the California GeoTracker records for this facility:

38
East
1/8-1/4
0.219 mi.
1158 ft.

ALMADEN WELDING
231 W ALMA AV
SAN JOSE, CA 95110

CA CUPA Listings **S103945928**
CA SAN JOSE HAZMAT **N/A**

Relative:
Lower

Actual:
115 ft.

CUPA SANTA CLARA:
Region: SANTA CLARA
PE#: BP01
Program Description: HMBP FACILITY, 1-3 CHEMICALS
Latitude: 37.313079
Longitude: -121.878923

Region: SANTA CLARA
PE#: 2202
Program Description: GENERATES < 100 KG/YR
Latitude: 37.313079
Longitude: -121.878923

SAN JOSE HAZMAT:
Region: SAN JOSE
File Num: 408008
Class: Auto Wrecking/Misc Simple Facility

H39 **WNW** **1/8-1/4** **0.235 mi.** **1239 ft.**	**DEPENDABLE AUTOWORKS** **456 WILLOW ST BLDG A** **SAN JOSE, CA 95110**	**RCRA-SQG** **FINDS** **ECHO**	**1000905341** **CA0000492603**

Site 1 of 3 in cluster H

Relative:
Lower

Actual:
102 ft.

RCRA-SQG:

Date form received by agency:	07/29/1994
Facility name:	DEPENDABLE AUTOWORKS
Facility address:	456 WILLOW ST BLDG A SAN JOSE, CA 95110
EPA ID:	CA0000492603
Mailing address:	WILLOW ST BLDG A SAN JOSE, CA 95110
Contact:	THEDY NGUYEN
Contact address:	456 WILLOW ST BLDG A SAN JOSE, CA 95110
Contact country:	US
Contact telephone:	(408) 294-5511
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:	THE NGUYEN
Owner/operator address:	456 WILLOW ST BLDG A SAN JOSE, CA 95110
Owner/operator country:	Not reported
Owner/operator telephone:	(408) 294-5511
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

DEPENDABLE AUTOWORKS (Continued) **1000905341**

FINDS:

Registry ID: 110002618819

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.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000905341
Registry ID: 110002618819
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002618819

H40 WNW 1/8-1/4 0.235 mi. 1239 ft. **THE PIED PIPER EXTERMINATIORS** **CA HIST UST** **U001602507**
456 WILLOW ST **N/A**
SAN JOSE, CA 95110

Site 2 of 3 in cluster H

Relative: Lower

Actual: 102 ft.

HIST UST:
File Number: 0002099E
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002099E.pdf
Region: STATE
Facility ID: 00000040390
Facility Type: Other
Other Type: PEST CONTROL
Contact Name: AL MUCCIA
Telephone: 4082934310
Owner Name: THE PIED PIPER EXTERMINATORS,
Owner Address: 456 WILLOW ST.
Owner City,St,Zip: SAN JOSE, CA 95110
Total Tanks: 0001

Tank Num: 001
Container Num: 001
Year Installed: 1963
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: None

Click here for Geo Tracker PDF:

H41 WNW 1/8-1/4 0.235 mi. 1239 ft. — **OUT OF BUSINESS**, **456 WILLOW ST SUITE BB**, **SAN JOSE, CA 95110** — **CA SAN JOSE HAZMAT** — **S115780503**, **N/A**

Site 3 of 3 in cluster H

Relative: Lower

Actual: 102 ft.

SAN JOSE HAZMAT:

Date of Data:	AS OF 02/07/2014
Region:	SAN JOSE
File Num:	407021
Class:	Auto Body and Paint

I42 NW 1/8-1/4 0.235 mi. 1243 ft. — **BENNETTS AUTOMOTIVE SERVICE**, **385 WILLOW ST**, **SAN JOSE, CA 95110** — **RCRA-SQG**, **CA LUST**, **CA HIST LUST**, **FINDS**, **ECHO**, **CA CUPA Listings**, **CA HAZNET**, **CA HIST CORTESE**, **CA SAN JOSE HAZMAT** — **1000314432**, **CAD981441835**

Site 1 of 2 in cluster I

Relative: Lower

Actual: 108 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	BENNETTS AUTOMOTIVE SERVICE
Facility address:	385 WILLOW ST SAN JOSE, CA 95110
EPA ID:	CAD981441835
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
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 hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	STEVE CONNELL
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

BENNETTS AUTOMOTIVE SERVICE (Continued) **1000314432**

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: 09/09/1986
Site name: BENNETTS AUTOMOTIVE SERVICE
Classification: Large Quantity Generator

Violation Status: No violations found

LUST:
Region: STATE
Global Id: T0608500234
Latitude: 37.3162671837504
Longitude: -121.887184381485
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 11/02/1993
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: All Files are on GeoTracker or in the Local Agency Database
Potential Media Affect: Soil
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: T0608500234
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

BENNETTS AUTOMOTIVE SERVICE (Continued) **1000314432**

Global Id: T0608500234
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

Status History:
Global Id: T0608500234
Status: Completed - Case Closed
Status Date: 11/02/1993

Global Id: T0608500234
Status: Open - Case Begin Date
Status Date: 11/13/1987

Global Id: T0608500234
Status: Open - Site Assessment
Status Date: 12/10/1990

Regulatory Activities:
Global Id: T0608500234
Action Type: ENFORCEMENT
Date: 11/02/1993
Action: Closure/No Further Action Letter

Global Id: T0608500234
Action Type: ENFORCEMENT
Date: 12/14/1987
Action: Notice of Responsibility - #39774

Global Id: T0608500234
Action Type: RESPONSE
Date: 05/06/1992
Action: Other Report / Document

Global Id: T0608500234
Action Type: Other
Date: 11/13/1987
Action: Leak Reported

Global Id: T0608500234
Action Type: REMEDIATION
Date: 12/14/1987
Action: Excavation

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 07S1E20C01f
How Discovered: Not reported
Leak Cause: Not reported

BENNETTS AUTOMOTIVE SERVICE (Continued) **1000314432**

Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 12/10/1990
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

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 07S1E20C01F
Date Closed: 11/02/1993
EDR Link ID: 07S1E20C01F

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 07S1E20C01
Oversite Agency: SCVWD
Date Listed: 1988-01-01 00:00:00
Closed Date: 1993-11-02 00:00:00

FINDS:

Registry ID: 110002706938

Environmental Interest/Information System
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.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000314432
Registry ID: 110002706938
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002706938

CUPA SANTA CLARA:
Region: SANTA CLARA
PE#: 2205

BENNETTS AUTOMOTIVE SERVICE (Continued) **1000314432**

Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Latitude: 37.316209
Longitude: -121.887059

Region: SANTA CLARA
PE#: BP01
Program Description: HMBP FACILITY, 1-3 CHEMICALS
Latitude: 37.316209
Longitude: -121.887059

HAZNET:

envid: 1000314432
Year: 2015
GEPAID: CAD981441835
Contact: STEPHEN CONNELL
Telephone: 4082942012
Mailing Name: Not reported
Mailing Address: 385 WILLOW ST
Mailing City,St,Zip: SAN JOSE, CA 951100000
Gen County: Santa Clara
TSD EPA ID: CAD980887418
TSD County: Alameda
Waste Category: Aqueous solution with total organic residues 10 percent or more
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.2085
Cat Decode: Aqueous solution with total organic residues 10 percent or more
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Santa Clara

envid: 1000314432
Year: 2014
GEPAID: CAD981441835
Contact: STEPHEN CONNELL
Telephone: 4082942012
Mailing Name: Not reported
Mailing Address: 385 WILLOW ST
Mailing City,St,Zip: SAN JOSE, CA 951100000
Gen County: Santa Clara
TSD EPA ID: CAD980887418
TSD County: Alameda
Waste Category: Aqueous solution with total organic residues 10 percent or more
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.22935
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Santa Clara

envid: 1000314432
Year: 2007
GEPAID: CAD981441835
Contact: STEPHEN CONNELL
Telephone: 4082942012
Mailing Name: Not reported
Mailing Address: 385 WILLOW ST

BENNETTS AUTOMOTIVE SERVICE (Continued) **1000314432**

Mailing City,St,Zip:	SAN JOSE, CA 951100000
Gen County:	Not reported
TSD EPA ID:	CAD980887418
TSD County:	Not reported
Waste Category:	Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.2
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	1000314432
Year:	1998
GEPAID:	CAD981441835
Contact:	STEPHEN CONNELL
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	385 WILLOW ST
Mailing City,St,Zip:	SAN JOSE, CA 951100000
Gen County:	Not reported
TSD EPA ID:	CAD980887418
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Transfer Station
Tons:	.2919
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

HIST CORTESE:

Region:	CORTESE
Facility County Code:	43
Reg By:	LTNKA
Reg Id:	43-0168

SAN JOSE HAZMAT:

Region:	SAN JOSE
File Num:	400582
Class:	Auto Repair

I43 **BENNETT'S AUTOMOTIVE SERVI** **CA SWEEPS UST** **S102416939**
NW **385 WILLOW ST 2** **N/A**
1/8-1/4 **SAN JOSE, CA 95110**
0.235 mi.
1243 ft. **Site 2 of 2 in cluster I**

Relative:
Lower

Actual:
108 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	400582
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:	43-060-400582-000001

BENNETT'S AUTOMOTIVE SERVI (Continued) **S102416939**

Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	Not reported
Number Of Tanks:	1

G44
SW
1/8-1/4
0.247 mi.
1304 ft.

CLEANIN & ALTERATION SHOP **CA SAN JOSE HAZMAT** **S107592238**
571 W ALMA AV A **N/A**
SAN JOSE, CA 95125

Site 7 of 7 in cluster G

Relative:
Higher

Actual:
117 ft.

SAN JOSE HAZMAT:

Region:	SAN JOSE
File Num:	410650
Class:	Auto Wrecking/Misc Simple Facility

J45
SE
1/4-1/2
0.271 mi.
1432 ft.

ALMADEN PROPERTY **CA ENVIROSTOR** **S101542322**
1545 ALMADEN ROAD **N/A**
SAN JOSE, CA 95125

Site 1 of 3 in cluster J

Relative:
Higher

Actual:
122 ft.

ENVIROSTOR:

Facility ID:	43280117
Status:	Refer: RWQCB
Status Date:	06/18/1997
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	RWQCB 2 - San Francisco Bay
Lead Agency:	RWQCB 2 - San Francisco Bay
Program Manager:	Claude Jemison
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Assembly:	27
Senate:	15
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.30930
Longitude:	-121.8791
APN:	434-26-037
Past Use:	PAINT/DEPAINT FACILITY, PAINT/DEPAINT FACILITY
Potential COC:	* HALOGENATED SOLVENTS * HYDROCARBON SOLVENTS * OXYGENATED SOLVENTS Vinyl chloride Acetone 1,1-Dichloroethane Ethylbenzene Toluene Xylenes Benzene Vinyl chloride Acetone 1,1-Dichloroethane Methylene chloride Methyl ethyl ketone (2-Butanone Toluene
Confirmed COC:	Toluene Vinyl chloride Acetone 1,1-Dichloroethane Methylene chloride Methyl ethyl ketone (2-Butanone Benzene Toluene Vinyl chloride Acetone 1,1-Dichloroethane Ethylbenzene Xylenes

ALMADEN PROPERTY (Continued) **S101542322**

Potential Description: OTH, SOIL, OTH, SOIL
Alias Name: ALMADEN PAINT
Alias Type: Alternate Name
Alias Name: GREEN VALLEY CORP.
Alias Type: Alternate Name
Alias Name: HAZ CONTROL
Alias Type: Alternate Name
Alias Name: LEW SMITH PROPERTY
Alias Type: Alternate Name
Alias Name: PAC CON
Alias Type: Alternate Name
Alias Name: PACIFIC STATE CHEMICALS
Alias Type: Alternate Name
Alias Name: PARTS FOR DAYS
Alias Type: Alternate Name
Alias Name: U.S. CELLULOSE
Alias Type: Alternate Name
Alias Name: 434-26-037
Alias Type: APN
Alias Name: CAD981677222
Alias Type: EPA Identification Number
Alias Name: 43280117
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: 08/28/1995
Comments: Completed Site Screening. In August 1985, the two underground storage tanks (USTs) were removed. Soil and groundwater beneath these tanks were sampled and found to be contaminated with a variety of solvents. The SF Regional Water Quality Control Board (RWQCB) began oversight of the site in July 1986. In August 1991, approximately 3,700 cubic yards of contaminated soil was removed. In-situ bioremediation was implemented in 1995 as a means of meeting drinking water standard. The RWQCB rescinded its cleanup order on June 18, 1997 when drinking water standards were attained.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/16/1988
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/19/1987
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 12/19/2001
Comments: Not reported

Future Area Name: Not reported

ALMADEN PROPERTY (Continued) **S101542322**

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

J46 **LEW SMITH** **SEMS** **1000131976**
SE **1545 ALMADEN** **CAD981677222**
1/4-1/2 **SAN JOSE, CA 95113**
0.271 mi.
1432 ft. **Site 2 of 3 in cluster J**

Relative:
Higher

Actual:
122 ft.

SEMS:

Site ID:	902501
EPA ID:	CAD981677222
Federal Facility:	N
NPL:	Not on the NPL
Non NPL Status:	Other Cleanup Activity: State-Lead Cleanup

Following information was gathered from the prior CERCLIS update completed in 10/2013:

Site ID:	0902501
EPA ID:	CAD981677222
Facility County:	SANTA CLARA
Short Name:	LEW SMITH
Congressional District:	10
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:	Other Cleanup Activity: State-Lead Cleanup
Non NPL Status Date:	09/23/05
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

LEW SMITH (Continued) **1000131976**

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
Site Description: Not reported

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: / /
Date Completed: 10/01/86
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 12/01/86
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

Action Code: 002
Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 06/01/88
Priority Level: Higher priority for further assessment
Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

LEW SMITH (Continued) **1000131976**

Action Code:	001
Action:	SITE INSPECTION
Date Started:	/ /
Date Completed:	03/31/89
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

Action Code:	001
Action:	SITE REASSESSMENT
Date Started:	07/01/05
Date Completed:	09/20/05
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

J47 **LOUIS SMITH PROPERTY** **CA SLIC** **S106235129**
SE **1545-1547 ALMADEN RD** **CA ENF** **N/A**
1/4-1/2 **SAN JOSE, CA 95112**
0.271 mi.
1432 ft. **Site 3 of 3 in cluster J**

Relative:
Higher

Actual:
122 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	07/01/1993
Global Id:	SL18241662
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.308901
Longitude:	-121.878704
Case Type:	Cleanup Program Site
Case Worker:	UUU
Local Agency:	Not reported
RB Case Number:	43S0183
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SLIC REG 2:

Region:	2
Facility ID:	SL18241662
Facility Status:	Not reported
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	Not reported

LOUIS SMITH PROPERTY (Continued) **S106235129**

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:	237509
Agency Name:	US Cellulose
Place Type:	Manufacturing
Place Subtype:	Manufacturing NEC
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	2819
SIC Desc 1:	Industrial Inorganic Chemicals, NEC
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:	Not reported
Program Category1:	Not reported
Program Category2:	UNREGS
# Of Programs:	Not reported
WDID:	2 438213N01
Reg Measure Id:	162250
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

LOUIS SMITH PROPERTY (Continued) **S106235129**

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):	222523
Region:	2
Order / Resolution Number:	90-162
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	12/12/1990
Adoption/Issuance Date:	Not reported
Achieve Date:	1997-06-18
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 438213N01
Description:	SCR-
Program:	ENFCAO
Latest Milestone Completion Date:	1997-06-18
# 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:	237509
Agency Name:	US Cellulose
Place Type:	Manufacturing
Place Subtype:	Manufacturing NEC
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	2819
SIC Desc 1:	Industrial Inorganic Chemicals, NEC
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported

LOUIS SMITH PROPERTY (Continued) **S106235129**

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:	Not reported
Program Category1:	Not reported
Program Category2:	UNREGS
# Of Programs:	Not reported
WDID:	2 438213N01
Reg Measure Id:	162250
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):	222487
Region:	2
Order / Resolution Number:	97-075
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	06/18/1997
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported

LOUIS SMITH PROPERTY (Continued) **S106235129**

Status:	Historical
Title:	Enforcement - 2 438213N01
Description:	SCR RESCISSION
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:	237509
Agency Name:	US Cellulose
Place Type:	Manufacturing
Place Subtype:	Manufacturing NEC
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	2819
SIC Desc 1:	Industrial Inorganic Chemicals, NEC
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:	Not reported
Program Category1:	Not reported
Program Category2:	UNREGS
# Of Programs:	Not reported
WDID:	2 438213N01
Reg Measure Id:	162250
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported

LOUIS SMITH PROPERTY (Continued) **S106235129**

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):	222192
Region:	2
Order / Resolution Number:	90-036
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	02/21/1990
Adoption/Issuance Date:	Not reported
Achieve Date:	1997-06-18
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 438213N01
Description:	SCR-
Program:	ENFCAO
Latest Milestone Completion Date:	1997-06-18
# 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:	237509
Agency Name:	US Cellulose
Place Type:	Manufacturing
Place Subtype:	Manufacturing NEC
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	2819
SIC Desc 1:	Industrial Inorganic Chemicals, NEC
SIC Code 2:	Not reported

LOUIS SMITH PROPERTY (Continued) **S106235129**

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:	Not reported
Program Category1:	Not reported
Program Category2:	UNREGS
# Of Programs:	Not reported
WDID:	2 438213N01
Reg Measure Id:	162250
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):	222191
Region:	2
Order / Resolution Number:	91-117
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	07/17/1991
Adoption/Issuance Date:	Not reported
Achieve Date:	1997-06-18

LOUIS SMITH PROPERTY (Continued) **S106235129**

Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 438213N01
Description:	SCR-
Program:	ENFCAO
Latest Milestone Completion Date:	1997-06-18
# 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:	237509
Agency Name:	US Cellulose
Place Type:	Manufacturing
Place Subtype:	Manufacturing NEC
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	2819
SIC Desc 1:	Industrial Inorganic Chemicals, NEC
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:	Not reported
Program Category1:	Not reported
Program Category2:	UNREGS
# Of Programs:	Not reported
WDID:	2 438213N01
Reg Measure Id:	162250
Reg Measure Type:	Unregulated
Region:	2

LOUIS SMITH PROPERTY (Continued) **S106235129**

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):	222189
Region:	2
Order / Resolution Number:	92-070
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	06/17/1992
Adoption/Issuance Date:	Not reported
Achieve Date:	1997-06-18
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 438213N01
Description:	SCR-
Program:	ENFCAO
Latest Milestone Completion Date:	1997-06-18
# 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

K48 **ROCKETSHIP SEVEN** **CA SLIC** **S111711564**
East **198 W. ALMA AVENUE** **N/A**
1/4-1/2 **SAN JOSE, CA 95110**
0.285 mi.
1506 ft. **Site 1 of 2 in cluster K**

Relative:
Lower

Actual:
114 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	08/19/2014
Global Id:	T10000003616

ROCKETSHIP SEVEN (Continued) **S111711564**

Lead Agency:	SANTA CLARA COUNTY LOP
Lead Agency Case Number:	07S1E20A01s
Latitude:	37.3134299
Longitude:	-121.877677
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Asbestos - Naturally Occurring Asbestos (NOA), Lead
Site History:	The site is comprised of the following properties: 164, 170 and 198 W. Alma Avenue and 1424 and 1438 Little Orchard Street. This is the southeast corner of the intersection of W. Alma Avenue and Little Orchard Street. It is believed that the property address following re-development will be 198 W. Alma Avenue. All parcels are being combined and redeveloped as a K-5 public elementary school. Sampling reported the presence of lead and naturally occuring asbestos (NOA). The lead appears to be related to debris and lead-based paint used on the structures, which date back to circa 1915. Soil with Lead concentrations exceeding TTLC to be removed from the site. Soil with lead exceeding 80 ppm will be placed in a consolidation cell under the planned parking lot. Impacted soil to be capped with soil and asphalt. NOA concentrations did not exceed hazardous waste levels and will be handled in accordance with the DTSC advisor for schools.

Click here to access the California GeoTracker records for this facility:

K49 **LAUNCH PAD DEVELOPMENT CO** **CA DEED** **S113778205**
East **198 W ALMA AVE** **CA HAZNET** **N/A**
1/4-1/2 **SAN JOSE, CA 95110**
0.285 mi.
1506 ft. **Site 2 of 2 in cluster K**

Relative:
Lower

Actual:
114 ft.

DEED:

Envirostor ID:	T10000003616
Area:	Not reported
Sub Area:	Not reported
Site Type:	SLIC
Status:	COMPLETED - CASE CLOSED
Agency:	SWRCB
Covenant Uploaded:	Y
Deed Date(s):	06/06/2014

HAZNET:

envid:	S113778205
Year:	2012
GEPAID:	CAC002691698
Contact:	LAURA KOZEL
Telephone:	6024781789
Mailing Name:	Not reported
Mailing Address:	420 FLORENCE ST
Mailing City,St,Zip:	PALO ALTO, CA 94301
Gen County:	Santa Clara
TSD EPA ID:	CAD980675276
TSD County:	Kern
Waste Category:	Not reported

LAUNCH PAD DEVELOPMENT CO (Continued) **S113778205**

Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 106.2
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Santa Clara

L50 SSW 1/4-1/2 0.340 mi. 1795 ft. | **PRIVATE RESIDENCE PRIVATE RESIDENCE SAN JOSE, CA 95125** | **CA LUST** | **S110655403 N/A**

Site 1 of 2 in cluster L

Relative: Higher

Actual: 118 ft.

LUST:
Region: STATE
Global Id: T0608502075
Latitude: 37.307568
Longitude: -121.887141
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 09/01/1998
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: All Files are on GeoTracker or in the Local Agency Database
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608502075
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0608502075
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

Status History:
Global Id: T0608502075
Status: Completed - Case Closed
Status Date: 09/01/1998

Global Id: T0608502075

PRIVATE RESIDENCE (Continued) **S110655403**

Status: Open - Case Begin Date
Status Date: 04/15/1997

Global Id: T0608502075
Status: Open - Site Assessment
Status Date: 04/15/1997

Regulatory Activities:
Global Id: T0608502075
Action Type: ENFORCEMENT
Date: 09/01/1998
Action: Closure/No Further Action Letter

Global Id: T0608502075
Action Type: RESPONSE
Date: 09/01/1998
Action: Other Report / Document

Global Id: T0608502075
Action Type: Other
Date: 05/23/1997
Action: Leak Reported

Global Id: T0608502075
Action Type: REMEDIATION
Date: 08/31/1998
Action: Excavation

M51 **DULLY PROPERTY** **CA LUST** **S105512875**
NNE **1016 S ALMADEN AVE** **CA HIST LUST** **N/A**
1/4-1/2 **SAN JOSE, CA 95126**
0.346 mi.
1826 ft. **Site 1 of 2 in cluster M**

Relative:
Lower

Actual:
106 ft.

LUST:
Region: STATE
Global Id: T0608502411
Latitude: 37.318566
Longitude: -121.881928
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 01/30/2004
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: All Files are on GeoTracker or in the Local Agency Database
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608502411
Contact Type: Regional Board Caseworker

DULLY PROPERTY (Continued) **S105512875**

Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0608502411
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

Status History:
Global Id: T0608502411
Status: Completed - Case Closed
Status Date: 01/30/2004

Global Id: T0608502411
Status: Open - Case Begin Date
Status Date: 04/14/1999

Global Id: T0608502411
Status: Open - Site Assessment
Status Date: 04/14/1999

Regulatory Activities:
Global Id: T0608502411
Action Type: RESPONSE
Date: 04/14/2000
Action: Preliminary Site Assessment Report

Global Id: T0608502411
Action Type: RESPONSE
Date: 01/24/2000
Action: Soil and Water Investigation Workplan

Global Id: T0608502411
Action Type: RESPONSE
Date: 09/23/2002
Action: Monitoring Report - Quarterly

Global Id: T0608502411
Action Type: ENFORCEMENT
Date: 07/02/2002
Action: Staff Letter - #38147

Global Id: T0608502411
Action Type: Other
Date: 05/11/1999
Action: Leak Reported

Global Id: T0608502411

DULLY PROPERTY (Continued) **S105512875**

Action Type: ENFORCEMENT
Date: 12/08/1999
Action: Staff Letter - #25735

Global Id: T0608502411
Action Type: ENFORCEMENT
Date: 02/14/2000
Action: Staff Letter - #25737

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 07S1E17Q01f
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: 4/14/1999
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

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 07S1E17Q01F
Date Closed: 01/30/2004
EDR Link ID: 07S1E17Q01F

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 07S1E17Q01
Oversite Agency: SCVWD
Date Listed: 1999-08-19 00:00:00
Closed Date: 2004-01-30 00:00:00

L52 **MONIZ RESIDENCE** **CA LUST** **S103989164**
SSW **1462 HERVEY** **CA HIST LUST** **N/A**
1/4-1/2 **SAN JOSE, CA 95125** **CA HIST CORTESE**
0.347 mi.
1830 ft. **Site 2 of 2 in cluster L**

Relative:
Higher

Actual:
118 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 07S1E20L02f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported

MONIZ RESIDENCE (Continued) **S103989164**

Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 4/15/1997
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

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 07S1E20L02F
Date Closed: 09/01/1998
EDR Link ID: 07S1E20L02F

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 07S1E20L02
Oversite Agency: SCVWD
Date Listed: 1997-07-22 00:00:00
Closed Date: 1998-09-01 00:00:00

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-2260

M53 **ALMADEN AUTO** **CA LUST** **S105193426**
NNE **999 S ALMADEN AVE** **CA HIST LUST** **N/A**
1/4-1/2 **SAN JOSE, CA 95110**
0.348 mi.
1839 ft. **Site 2 of 2 in cluster M**

Relative:
Lower

Actual:
106 ft.

LUST:
Region: STATE
Global Id: T0608512840
Latitude: 37.319075
Longitude: -121.882654
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 02/23/2004
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: All Files are on GeoTracker or in the Local Agency Database
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: T0608512840
Contact Type: Regional Board Caseworker

ALMADEN AUTO (Continued) **S105193426**

Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0608512840
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

Status History:

Global Id:	T0608512840
Status:	Completed - Case Closed
Status Date:	02/23/2004

Global Id:	T0608512840
Status:	Open - Case Begin Date
Status Date:	10/24/2001

Global Id:	T0608512840
Status:	Open - Site Assessment
Status Date:	10/24/2001

Global Id:	T0608512840
Status:	Open - Site Assessment
Status Date:	05/09/2002

Regulatory Activities:

Global Id:	T0608512840
Action Type:	RESPONSE
Date:	02/24/2003
Action:	Monitoring Report - Quarterly

Global Id:	T0608512840
Action Type:	RESPONSE
Date:	09/30/2002
Action:	Soil and Water Investigation Report

Global Id:	T0608512840
Action Type:	RESPONSE
Date:	08/19/2002
Action:	Soil and Water Investigation Workplan

Global Id:	T0608512840
Action Type:	RESPONSE
Date:	07/29/2002
Action:	Preliminary Site Assessment Report

Global Id:	T0608512840
Action Type:	ENFORCEMENT

ALMADEN AUTO (Continued) **S105193426**

Date: 06/18/2002
Action: Staff Letter - #38040

Global Id: T0608512840
Action Type: Other
Date: 12/11/2001
Action: Leak Reported

Global Id: T0608512840
Action Type: ENFORCEMENT
Date: 07/15/2002
Action: Staff Letter - #38206

Global Id: T0608512840
Action Type: ENFORCEMENT
Date: 04/29/2002
Action: Staff Letter - #37549

Global Id: T0608512840
Action Type: ENFORCEMENT
Date: 12/10/2002
Action: Staff Letter - #40506

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 07S1E17Q02f
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: 10/24/2001
Pollution Characterization Began: 5/9/2002
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: 07S1E17Q02F
Date Closed: 02/23/2004
EDR Link ID: 07S1E17Q02F

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 07S1E17Q02
Oversite Agency: SCVWD
Date Listed: 2001-12-19 00:00:00
Closed Date: 2004-02-23 00:00:00

54 NNE 1/4-1/2 0.398 mi. 2100 ft.

T&T MINIMART
150 WILLOW ST
SAN JOSE, CA 95110

CA LUST
CA HIST LUST
CA SWEEPS UST
CA HIST CORTESE
CA SAN JOSE HAZMAT

S103881053
N/A

Relative: Lower

Actual: 106 ft.

LUST:

Region:	STATE
Global Id:	T0608501806
Latitude:	37.31921
Longitude:	-121.880934
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	04/30/1996
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:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608501806
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0608501806
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

Status History:

Global Id:	T0608501806
Status:	Completed - Case Closed
Status Date:	04/30/1996

Global Id:	T0608501806
Status:	Open - Case Begin Date
Status Date:	01/01/1993

Global Id:	T0608501806
Status:	Open - Site Assessment
Status Date:	03/24/1993

T&T MINIMART (Continued) **S103881053**

Regulatory Activities:

Global Id:	T0608501806
Action Type:	RESPONSE
Date:	04/26/1996
Action:	Other Report / Document
Global Id:	T0608501806
Action Type:	ENFORCEMENT
Date:	11/06/1995
Action:	Notice of Responsibility - #39843
Global Id:	T0608501806
Action Type:	Other
Date:	01/01/1993
Action:	Leak Reported
Global Id:	T0608501806
Action Type:	ENFORCEMENT
Date:	04/30/1996
Action:	Closure/No Further Action Letter

Region:	STATE
Global Id:	T0608518361
Latitude:	37.319256503
Longitude:	-121.881123312
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/14/2014
Lead Agency:	SANTA CLARA COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	14-661
LOC Case Number:	07S1E17R02f
File Location:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	MTBE / TBA / Other Fuel Oxygenates, Gasoline
Site History:	in April 2001, the Santa Clara Valley Water District (SCVWD) and the State Water Resources Control Board (SWRCB) requested to re-open the case and perform further investigation at the Site for fuel oxygenates. Investigations conducted between 2002 and 2007. The fueling system was upgraded on December 19 and 21, 2005, 4 soil samples from beneath the former dispensers and 4 soil samples from beneath the former product delivery piping at the site. All analytical results were below laboratory detection limits (ND). Intermittent DPE occured between 2010 and 2012.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608518361
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported

T&T MINIMART (Continued) **S103881053**

Phone Number: Not reported

Status History:

Global Id: T0608518361
Status: Completed - Case Closed
Status Date: 01/14/2014

Global Id: T0608518361
Status: Open - Case Begin Date
Status Date: 08/20/2002

Global Id: T0608518361
Status: Open - Eligible for Closure
Status Date: 05/28/2013

Global Id: T0608518361
Status: Open - Remediation
Status Date: 01/08/2011

Global Id: T0608518361
Status: Open - Site Assessment
Status Date: 06/20/2003

Global Id: T0608518361
Status: Open - Site Assessment
Status Date: 09/25/2003

Global Id: T0608518361
Status: Open - Site Assessment
Status Date: 05/18/2005

Global Id: T0608518361
Status: Open - Verification Monitoring
Status Date: 02/07/2011

Regulatory Activities:

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 10/01/2013
Action: Staff Letter

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 09/28/2011
Action: Staff Letter

Global Id: T0608518361
Action Type: RESPONSE
Date: 05/07/2004
Action: Soil and Water Investigation Workplan

Global Id: T0608518361
Action Type: RESPONSE
Date: 07/30/2008
Action: Monitoring Report - Quarterly

T&T MINIMART (Continued) **S103881053**

Global Id: T0608518361
Action Type: RESPONSE
Date: 01/31/2008
Action: Soil and Water Investigation Report

Global Id: T0608518361
Action Type: RESPONSE
Date: 06/01/2010
Action: CAP/RAP - Other Report

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 11/10/2010
Action: Staff Letter

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 04/21/2010
Action: Staff Letter

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 07/29/2013
Action: Notification - Public Notice of Case Closure

Global Id: T0608518361
Action Type: RESPONSE
Date: 08/20/2003
Action: Soil and Water Investigation Workplan

Global Id: T0608518361
Action Type: RESPONSE
Date: 07/30/2012
Action: Monitoring Report - Quarterly

Global Id: T0608518361
Action Type: RESPONSE
Date: 10/30/2012
Action: Monitoring Report - Quarterly

Global Id: T0608518361
Action Type: RESPONSE
Date: 01/30/2013
Action: Monitoring Report - Quarterly

Global Id: T0608518361
Action Type: RESPONSE
Date: 07/30/2011
Action: Monitoring Report - Quarterly

Global Id: T0608518361
Action Type: RESPONSE
Date: 10/30/2011
Action: Monitoring Report - Quarterly

Global Id: T0608518361
Action Type: RESPONSE

T&T MINIMART (Continued) **S103881053**

Date: 01/30/2012
Action: Monitoring Report - Quarterly

Global Id: T0608518361
Action Type: RESPONSE
Date: 06/24/2009
Action: Correspondence

Global Id: T0608518361
Action Type: RESPONSE
Date: 04/11/2013
Action: Monitoring Report - Quarterly

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 09/18/2007
Action: Staff Letter - #70819

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 05/12/2006
Action: Staff Letter - #60215

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 09/16/2009
Action: Staff Letter

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 04/07/2011
Action: Staff Letter

Global Id: T0608518361
Action Type: RESPONSE
Date: 10/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0608518361
Action Type: RESPONSE
Date: 02/11/2010
Action: CAP/RAP - Feasibility Study Report

Global Id: T0608518361
Action Type: RESPONSE
Date: 05/21/2010
Action: CAP/RAP - Other Report

Global Id: T0608518361
Action Type: RESPONSE
Date: 03/14/2008
Action: Other Report / Document

Global Id: T0608518361
Action Type: RESPONSE
Date: 11/10/2010
Action: Correspondence

T&T MINIMART (Continued) **S103881053**

Global Id: T0608518361
Action Type: RESPONSE
Date: 08/08/2002
Action: Other Workplan

Global Id: T0608518361
Action Type: RESPONSE
Date: 08/01/2002
Action: Soil and Water Investigation Workplan

Global Id: T0608518361
Action Type: RESPONSE
Date: 08/14/2007
Action: Soil and Water Investigation Workplan

Global Id: T0608518361
Action Type: RESPONSE
Date: 03/30/2012
Action: Remedial Progress Report

Global Id: T0608518361
Action Type: RESPONSE
Date: 08/20/2003
Action: Well Installation Workplan

Global Id: T0608518361
Action Type: RESPONSE
Date: 04/28/2006
Action: Other Workplan

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 01/14/2014
Action: Closure/No Further Action Letter

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 06/24/2003
Action: Staff Letter - #41601

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 03/04/2004
Action: Staff Letter - #43340

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 07/19/2004
Action: Warning Letter - #44342

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 05/24/2005
Action: Staff Letter - #50425

Global Id: T0608518361
Action Type: ENFORCEMENT

T&T MINIMART (Continued) **S103881053**

Date: 11/29/2005
Action: Staff Letter - #509211

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 04/27/2009
Action: Staff Letter

Global Id: T0608518361
Action Type: RESPONSE
Date: 01/24/2008
Action: Soil and Water Investigation Report

Global Id: T0608518361
Action Type: RESPONSE
Date: 10/01/2013
Action: Correspondence

Global Id: T0608518361
Action Type: RESPONSE
Date: 01/24/2006
Action: Unauthorized Release Form

Global Id: T0608518361
Action Type: RESPONSE
Date: 04/05/2007
Action: Correspondence

Global Id: T0608518361
Action Type: RESPONSE
Date: 01/03/2014
Action: Well Destruction Report

Global Id: T0608518361
Action Type: RESPONSE
Date: 06/13/2007
Action: Other Report / Document

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 05/01/2013
Action: Staff Letter

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 06/02/2010
Action: Notification - Public Participation Document

Global Id: T0608518361
Action Type: RESPONSE
Date: 04/28/2006
Action: Soil and Water Investigation Workplan

Global Id: T0608518361
Action Type: RESPONSE
Date: 08/14/2007
Action: Soil and Water Investigation Workplan

T&T MINIMART (Continued) **S103881053**

Global Id: T0608518361
Action Type: RESPONSE
Date: 07/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0608518361
Action Type: RESPONSE
Date: 10/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0608518361
Action Type: RESPONSE
Date: 01/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0608518361
Action Type: RESPONSE
Date: 04/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0608518361
Action Type: RESPONSE
Date: 02/28/2011
Action: Remedial Progress Report

Global Id: T0608518361
Action Type: RESPONSE
Date: 05/16/2005
Action: Soil and Water Investigation Workplan

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 07/22/2010
Action: Staff Letter

Global Id: T0608518361
Action Type: Other
Date: 08/22/2002
Action: Leak Reported

Global Id: T0608518361
Action Type: RESPONSE
Date: 04/19/2004
Action: Monitoring Report - Quarterly

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 06/21/2007
Action: Staff Letter - #70126

Global Id: T0608518361
Action Type: RESPONSE
Date: 02/05/2010
Action: CAP/RAP - Feasibility Study Report

Global Id: T0608518361
Action Type: RESPONSE

T&T MINIMART (Continued) **S103881053**

Date: 04/30/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0608518361
Action Type: RESPONSE
Date: 04/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 07/06/2009
Action: Staff Letter

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 06/10/2003
Action: Notice of Responsibility - #41524

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 09/25/2003
Action: Staff Letter - #42230

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 01/21/2005
Action: Staff Letter

Global Id: T0608518361
Action Type: RESPONSE
Date: 05/22/2009
Action: CAP/RAP - Other Report

Global Id: T0608518361
Action Type: RESPONSE
Date: 04/30/2013
Action: Monitoring Report - Quarterly - Regulator Responded

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 01/09/2012
Action: Staff Letter

Global Id: T0608518361
Action Type: RESPONSE
Date: 04/30/2012
Action: Remedial Progress Report

Global Id: T0608518361
Action Type: RESPONSE
Date: 10/30/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0608518361
Action Type: RESPONSE
Date: 04/11/2008
Action: Other Report / Document

T&T MINIMART (Continued) **S103881053**

Global Id: T0608518361
Action Type: RESPONSE
Date: 10/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0608518361
Action Type: RESPONSE
Date: 01/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0608518361
Action Type: RESPONSE
Date: 04/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0608518361
Action Type: RESPONSE
Date: 02/10/2014
Action: Well Destruction Report

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 03/06/2006
Action: Staff Letter - #606030

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 02/14/2008
Action: Staff Letter - #80412

Global Id: T0608518361
Action Type: ENFORCEMENT
Date: 01/21/2009
Action: Staff Letter

Global Id: T0608518361
Action Type: Other
Date: 08/20/2002
Action: Leak Discovery

Global Id: T0608518361
Action Type: RESPONSE
Date: 12/01/2003
Action: Soil and Water Investigation Report

Global Id: T0608518361
Action Type: RESPONSE
Date: 08/26/2005
Action: Soil and Water Investigation Workplan

Global Id: T0608518361
Action Type: RESPONSE
Date: 12/22/2006
Action: Soil and Water Investigation Report

Global Id: T0608518361
Action Type: REMEDIATION

T&T MINIMART (Continued) **S103881053**

Date: 01/11/2010
Action: Other (Use Description Field)

Global Id: T0608518361
Action Type: REMEDIATION
Date: 01/08/2011
Action: Other (Use Description Field)

Global Id: T0608518361
Action Type: REMEDIATION
Date: 02/15/2012
Action: Other (Use Description Field)

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 07S1E17R01f
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: 3/24/1993
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

Region: 2
Facility Id: Not reported
Facility Status: Pollution Characterization
Case Number: 07S1E17R02f
How Discovered: Not reported
Leak Cause: Unknown
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 6/20/2003
Pollution Characterization Began: 9/25/2003
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: 07S1E17R02F
Date Closed: 01/14/2014
EDR Link ID: 07S1E17R02F

Region: SANTA CLARA
SCVWD ID: 07S1E17R01F
Date Closed: 04/30/1996

T&T MINIMART (Continued) **S103881053**

EDR Link ID: 07S1E17R01F

HIST LUST SANTA CLARA:

Region:	SANTA CLARA
Region Code:	2
SCVWD ID:	07S1E17R01
Oversite Agency:	SCVWD
Date Listed:	1994-01-10 00:00:00
Closed Date:	1996-04-30 00:00:00

Region:	SANTA CLARA
Region Code:	2
SCVWD ID:	07S1E17R02
Oversite Agency:	SCCDEH
Date Listed:	2003-05-20 00:00:00
Closed Date:	Not reported

SWEEPS UST:

Status:	Active
Comp Number:	400636
Number:	9
Board Of Equalization:	Not reported
Referral Date:	09-30-92
Action Date:	09-08-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-060-400636-000001
Tank Status:	A
Capacity:	4000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	3

Status:	Active
Comp Number:	400636
Number:	9
Board Of Equalization:	Not reported
Referral Date:	09-30-92
Action Date:	09-08-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-060-400636-000002
Tank Status:	A
Capacity:	4000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	400636
Number:	9
Board Of Equalization:	Not reported

T&T MINIMART (Continued) **S103881053**

Referral Date:	09-30-92
Action Date:	09-08-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-060-400636-000003
Tank Status:	A
Capacity:	6000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	43
Reg By:	LTNKA
Reg Id:	43-1886

SAN JOSE HAZMAT:

Region:	SAN JOSE
File Num:	407698
Class:	Auto Repair

Region:	SAN JOSE
File Num:	400636
Class:	Gasoline Station

55
West
1/4-1/2
0.400 mi.
2114 ft.

R & D LIQUORS
656 WILLOW ST
SAN JOSE, CA 95125

CA LUST **S102435589**
CA HIST LUST **N/A**
CA HIST CORTESE

Relative:
Lower

Actual:
112 ft.

LUST:

Region:	STATE
Global Id:	T0608501948
Latitude:	37.312901
Longitude:	-121.892248
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/30/1996
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:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608501948
Contact Type:	Regional Board Caseworker

R & D LIQUORS (Continued) **S102435589**

Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0608501948
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

Status History:

Global Id:	T0608501948
Status:	Completed - Case Closed
Status Date:	05/30/1996

Global Id:	T0608501948
Status:	Open - Case Begin Date
Status Date:	05/08/1996

Regulatory Activities:

Global Id:	T0608501948
Action Type:	Other
Date:	05/08/1996
Action:	Leak Reported

Global Id:	T0608501948
Action Type:	ENFORCEMENT
Date:	05/30/1996
Action:	Closure/No Further Action Letter

Global Id:	T0608501948
Action Type:	RESPONSE
Date:	05/30/1996
Action:	Other Report / Document

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Case Closed
Case Number:	07S1E20E02f
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

R & D LIQUORS (Continued) **S102435589**

Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 07S1E20E02F
Date Closed: 05/30/1996
EDR Link ID: 07S1E20E02F

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 07S1E20E02
Oversite Agency: SCVWD
Date Listed: 1996-05-30 00:00:00
Closed Date: 1996-05-30 00:00:00

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-2121

56
SE
1/4-1/2
0.401 mi.
2116 ft.

MANTHEY NURSERY **CA ENVIROSTOR** **S107867948**
327 SAN JOSE AVENUE **N/A**
SAN JOSE, CA 95125

Relative:
Higher

Actual:
124 ft.

ENVIROSTOR:
Facility ID: 70000095
Status: Inactive - Needs Evaluation
Status Date: 07/11/2006
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Julie Pettijohn
Division Branch: Cleanup Berkeley
Assembly: 27
Senate: 15
Special Program: EPA - PASI
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: EPA Grant
Latitude: 37.30818
Longitude: -121.8772
APN: 434-25-025
Past Use: NONE
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: 31000-NO
Potential Description: NMA

MANTHEY NURSERY (Continued) **S107867948**

Alias Name: 434-25-025
Alias Type: APN
Alias Name: 70000095
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: 04/18/2006
Comments: This site screening was approved by USEPA on 5/14/2006. No further action is required under CERCLA. However, since no confirmation samples were taken; re-evaluation is needed under DTSC lead.

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

N57 **UNIVERSE PAINT INC** **CA LUST** **S101542576**
SSE **1639 ALMADEN RD** **CA SLIC** **N/A**
1/4-1/2 **SAN JOSE, CA 95120** **CA HIST LUST**
0.437 mi.
2308 ft. **Site 1 of 2 in cluster N**

Relative:
Higher

Actual:
127 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 07S1E20J01f
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: 8/24/1987
Pollution Characterization Began: 6/1/1988
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SLIC REG 2:
Region: 2
Facility ID: 43S0705
Facility Status: Leak being confirmed
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Confirmed: 2/5/1994
Date Prelim Site Assmnt Workplan Submitted: Not reported

UNIVERSE PAINT INC (Continued) **S101542576**

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: 07S1E20J01
Oversite Agency: SCVWD
Date Listed: 1901-01-01 00:00:00
Closed Date: 2002-06-04 00:00:00

N58 **UNIVERSE PAINT COMPANY** **CA LUST** **S101309108**
SSE **1639 ALMADEN RD** **CA HIST CORTESE** **N/A**
1/4-1/2 **SAN JOSE, CA 95125**
0.437 mi.
2308 ft. **Site 2 of 2 in cluster N**

Relative:
Higher

Actual:
127 ft.

LUST:
Region: STATE
Global Id: T0608501777
Latitude: 37.30632
Longitude: -121.8778
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/04/2002
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: All Files are on GeoTracker or in the Local Agency Database
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Other Petroleum
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608501777
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0608501777
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

UNIVERSE PAINT COMPANY (Continued) **S101309108**

Status History:

Global Id:	T0608501777
Status:	Completed - Case Closed
Status Date:	06/04/2002
Global Id:	T0608501777
Status:	Open - Case Begin Date
Status Date:	08/24/1987
Global Id:	T0608501777
Status:	Open - Site Assessment
Status Date:	08/24/1987
Global Id:	T0608501777
Status:	Open - Site Assessment
Status Date:	06/01/1988

Regulatory Activities:

Global Id:	T0608501777
Action Type:	ENFORCEMENT
Date:	06/15/1997
Action:	Staff Letter - #25049
Global Id:	T0608501777
Action Type:	ENFORCEMENT
Date:	02/22/2002
Action:	Staff Letter - #25054
Global Id:	T0608501777
Action Type:	RESPONSE
Date:	07/30/1997
Action:	Monitoring Report - Quarterly
Global Id:	T0608501777
Action Type:	RESPONSE
Date:	04/08/2002
Action:	Other Report / Document
Global Id:	T0608501777
Action Type:	RESPONSE
Date:	04/30/1998
Action:	Soil and Water Investigation Report
Global Id:	T0608501777
Action Type:	ENFORCEMENT
Date:	12/24/1996
Action:	Notice of Responsibility - #39776
Global Id:	T0608501777
Action Type:	ENFORCEMENT
Date:	01/30/1998
Action:	Staff Letter - #25051
Global Id:	T0608501777
Action Type:	Other
Date:	08/23/1988

UNIVERSE PAINT COMPANY (Continued) **S101309108**

Action: Leak Reported

Global Id: T0608501777
Action Type: REMEDIATION
Date: 08/23/1988
Action: Excavation

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 07S1E20J01F
Date Closed: 06/04/2002
EDR Link ID: 07S1E20J01F

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-1850

O59 **PRAXAIR** **CA LUST** **S102439594**
ESE **215 SAN JOSE AV** **CA HIST LUST** **N/A**
1/4-1/2 **SAN JOSE, CA 95125** **CA SWEEPS UST**
0.447 mi. **CA CUPA Listings**
2359 ft. **Site 1 of 3 in cluster O** **CA HIST CORTESE**
CA SAN JOSE HAZMAT

Relative:
Higher

Actual:
121 ft.

LUST:
Region: STATE
Global Id: T0608501473
Latitude: 37.3094578140098
Longitude: -121.875350475311
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/24/1993
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: All Files are on GeoTracker or in the Local Agency Database
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608501473
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

PRAXAIR (Continued) **S102439594**

Global Id: T0608501473
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

Status History:
Global Id: T0608501473
Status: Completed - Case Closed
Status Date: 06/24/1993

Global Id: T0608501473
Status: Open - Case Begin Date
Status Date: 10/23/1989

Global Id: T0608501473
Status: Open - Site Assessment
Status Date: 03/31/1992

Regulatory Activities:
Global Id: T0608501473
Action Type: ENFORCEMENT
Date: 06/24/1993
Action: Closure/No Further Action Letter

Global Id: T0608501473
Action Type: ENFORCEMENT
Date: 03/31/1992
Action: Notice of Responsibility - #39804

Global Id: T0608501473
Action Type: Other
Date: 10/23/1989
Action: Leak Reported

Global Id: T0608501473
Action Type: RESPONSE
Date: 03/15/1992
Action: Other Report / Document

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 07S1E21M01f
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: 3/31/1992

PRAXAIR (Continued) **S102439594**

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

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 07S1E21M01F
Date Closed: 06/24/1993
EDR Link ID: 07S1E21M01F

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 07S1E21M01
Oversite Agency: SCVWD
Date Listed: 1991-03-28 00:00:00
Closed Date: 1993-06-24 00:00:00

SWEEPS UST:
Status: Not reported
Comp Number: 400005
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: 43-060-400005-000001
Tank Status: Not reported
Capacity: 5000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 1

CUPA SANTA CLARA:
Region: SANTA CLARA
PE#: BP05
Program Description: HMBP FACILITY, 16-21 CHEMICALS
Latitude: 37.309651
Longitude: -121.874787

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-1503

SAN JOSE HAZMAT:
Region: SAN JOSE
File Num: 400005
Class: Chemical Warehouse

O60 ESE 1/4-1/2 0.458 mi. 2417 ft.

SAN JOSE RAG CO.
201 SAN JOSE AVE
SAN JOSE, CA 95125

Site 2 of 3 in cluster O

CA LUST
CA HIST UST
CA HIST CORTESE
CA SAN JOSE HAZMAT

S103881086
N/A

Relative: Higher

Actual: 119 ft.

LUST:

Region:	STATE
Global Id:	T0608501185
Latitude:	37.309
Longitude:	-121.8747
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/17/1995
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:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608501185
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0608501185
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

Status History:

Global Id:	T0608501185
Status:	Completed - Case Closed
Status Date:	01/17/1995

Global Id:	T0608501185
Status:	Open - Case Begin Date
Status Date:	09/13/1984

Global Id:	T0608501185
Status:	Open - Site Assessment
Status Date:	11/27/1989

SAN JOSE RAG CO. (Continued) **S103881086**

Regulatory Activities:

Global Id:	T0608501185
Action Type:	ENFORCEMENT
Date:	01/17/1995
Action:	Closure/No Further Action Letter
Global Id:	T0608501185
Action Type:	ENFORCEMENT
Date:	06/01/1992
Action:	Notice of Violation - #39790
Global Id:	T0608501185
Action Type:	Other
Date:	09/13/1984
Action:	Leak Reported
Global Id:	T0608501185
Action Type:	RESPONSE
Date:	06/25/1992
Action:	Other Report / Document
Global Id:	T0608501185
Action Type:	REMEDIATION
Date:	04/02/1986
Action:	Excavation

LUST SANTA CLARA:

Region:	SANTA CLARA
SCVWD ID:	07S1E21E01F
Date Closed:	01/17/1995
EDR Link ID:	07S1E21E01F

HIST UST:

File Number:	0002085B
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002085B.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

SAN JOSE RAG CO. (Continued) **S103881086**

Click here for Geo Tracker PDF:

HIST CORTESE:

Region:	CORTESE
Facility County Code:	43
Reg By:	LTNKA
Reg Id:	43-1198

SAN JOSE HAZMAT:

Region:	SAN JOSE
File Num:	405303
Class:	Auto Wrecking/Misc Simple Facility

O61 **SAME AS ABOVE** **CA LUST** **U001602871**
ESE **201 SAN JOSE AVE** **CA HIST LUST** **N/A**
1/4-1/2 **SAN JOSE, CA 95125** **CA HIST UST**
0.458 mi.
2417 ft. **Site 3 of 3 in cluster O**

Relative:
Higher

Actual:
119 ft.

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Case Closed
Case Number:	07S1E21E01f
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:	11/27/1989
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

HIST LUST SANTA CLARA:

Region:	SANTA CLARA
Region Code:	2
SCVWD ID:	07S1E21E01
Oversite Agency:	SCVWD
Date Listed:	1985-01-01 00:00:00
Closed Date:	1995-01-17 00:00:00

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000010353
Facility Type:	Other
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	4082682508
Owner Name:	SAN JOSE RAG CO.
Owner Address:	201 SAN JOSE AVE
Owner City,St,Zip:	SAN JOSE, CA 95125

SAME AS ABOVE (Continued) **U001602871**

Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000550
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None

---

62 NNE 1/4-1/2 0.469 mi. 2478 ft. **PACIFIC WEST COMMUNITIES** **CA SLIC** **S118672160**
955-987 1ST STREET **N/A**
SAN JOSE, CA 95112

Relative: Lower

Actual: 104 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	02/02/2017
Global Id:	T10000008945
Lead Agency:	SANTA CLARA COUNTY LOP
Lead Agency Case Number:	2016-21s
Latitude:	37.32036
Longitude:	-121.88076
Case Type:	Cleanup Program Site
Case Worker:	AC
Local Agency:	SANTA CLARA COUNTY LOP
RB Case Number:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Two parcels of the subject property were used for auto repair and a printing business. The sites objective is to redevelop the site for residential redevelopment. The RP proposes to evacuate and dispose of shallow contaminated soil (1 ft % 0.5) containing elevated levels of lead, arsenic and motor oil.

Click here to access the California GeoTracker records for this facility:

---

63 ESE 1/4-1/2 0.475 mi. 2506 ft. **FORD WHOLESALE** **CA LUST** **S102430116**
199 SAN JOSE AVE **CA HIST LUST** **N/A**
SAN JOSE, CA 95153 **CA SWEEPS UST**
CA HIST CORTESE

Relative: Higher

Actual: 117 ft.

LUST:

Region:	STATE
Global Id:	T0608501846
Latitude:	37.3101
Longitude:	-121.873393
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	10/16/1998
Lead Agency:	SANTA CLARA COUNTY LOP

FORD WHOLESALE (Continued) **S102430116**

Case Worker:	UST
Local Agency:	SANTA CLARA COUNTY LOP
RB Case Number:	Not reported
LOC Case Number:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
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:	T0608501846
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0608501846
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

Status History:

Global Id:	T0608501846
Status:	Completed - Case Closed
Status Date:	10/16/1998

Global Id:	T0608501846
Status:	Open - Case Begin Date
Status Date:	09/27/1991

Global Id:	T0608501846
Status:	Open - Site Assessment
Status Date:	09/27/1991

Regulatory Activities:

Global Id:	T0608501846
Action Type:	RESPONSE
Date:	10/16/1998
Action:	Other Report / Document

Global Id:	T0608501846
Action Type:	ENFORCEMENT
Date:	02/28/1997
Action:	Notice of Responsibility - #39791

Global Id:	T0608501846
Action Type:	ENFORCEMENT
Date:	01/02/1996

FORD WHOLESALE (Continued) **S102430116**

Action: Staff Letter - #24927

Global Id: T0608501846
Action Type: RESPONSE
Date: 04/01/1996
Action: Soil and Water Investigation Report

Global Id: T0608501846
Action Type: Other
Date: 09/02/1994
Action: Leak Reported

Global Id: T0608501846
Action Type: ENFORCEMENT
Date: 10/16/1998
Action: Closure/No Further Action Letter

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 07S1E21E02f
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: 9/27/1991
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

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 07S1E21E02F
Date Closed: 10/16/1998
EDR Link ID: 07S1E21E02F

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 07S1E21E02
Oversite Agency: SCVWD
Date Listed: 1995-02-23 00:00:00
Closed Date: 1998-10-16 00:00:00

SWEEPS UST:
Status: Not reported
Comp Number: 400545
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported

FORD WHOLESALE (Continued) **S102430116**

Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-060-400545-000001
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	1

HIST CORTESE:

Region:	CORTESE
Facility County Code:	43
Reg By:	LTNKA
Reg Id:	43-2004

64
SE
1/4-1/2
0.490 mi.
2587 ft.

QUALITY PLATING CO.
1680 ALMADEN EXPRESSWAY/H&I
SAN JOSE, CA 95125

CA ENVIROSTOR **S102445615**
CA CUPA Listings **N/A**

Relative:
Higher

Actual:
125 ft.

ENVIROSTOR:

Facility ID:	71002957
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:	27
Senate:	15
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.30679
Longitude:	-121.8765
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAD982011850
Alias Type:	EPA Identification Number
Alias Name:	110002775916
Alias Type:	EPA (FRS #)
Alias Name:	71002957
Alias Type:	Envirostor ID Number

QUALITY PLATING CO. (Continued) **S102445615**

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

CUPA SANTA CLARA:

Region:	SANTA CLARA
PE#:	BP04
Program Description:	HMBP FACILITY, 10-15 CHEMICALS
Latitude:	37.306151
Longitude:	-121.876385
Region:	SANTA CLARA
PE#:	LQ06
Program Description:	GENERATES 5 TO <25 TONS/YR (RCRA LQG)
Latitude:	37.306151
Longitude:	-121.876385
Region:	SANTA CLARA
PE#:	2262
Program Description:	CONDITIONALLY AUTHORIZED (CA)
Latitude:	37.306151
Longitude:	-121.876385

65
SSW
1/2-1
0.581 mi.
3067 ft.

ERNESTO GALARZA ELEMENTARY SCHOOL **CA ENVIROSTOR** **S104735527**
1610 BIRD AVENUE **CA SCH** **N/A**
SAN JOSE, CA 95125

Relative:
Higher

Actual:
122 ft.

ENVIROSTOR:

Facility ID:	43010026
Status:	Certified
Status Date:	10/23/2001
Site Code:	204064
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	7.6
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Northern California Schools & Santa Susana
Assembly:	28

ERNESTO GALARZA ELEMENTARY SCHOOL (Continued) **S104735527**

Senate:	15
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	37.30238
Longitude:	-121.8858
APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	DDE DDT Chlordane Heptachlor epoxide Zinc Cobalt Endosulfan Copper and compounds Vanadium and compounds Nickel Barium and compounds Mercury (elemental * delta-BHC (delta-HCH Lead Dieldrin
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	ERNESTO GALARZA ELEMENTARY SCHOOL
Alias Type:	Alternate Name
Alias Name:	SAN JOSE UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	SAN JOSE USD-ERNESTO GALARZA ELEM. SCHL
Alias Type:	Alternate Name
Alias Name:	SAN JOSE USD/RIVER GLEN RECONSTRUCT./VCA
Alias Type:	Alternate Name
Alias Name:	110021942656
Alias Type:	EPA (FRS #)
Alias Name:	204036
Alias Type:	Project Code (Site Code)
Alias Name:	204064
Alias Type:	Project Code (Site Code)
Alias Name:	43010026
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	11/09/2000
Comments:	DTSC reviewed the request for school construction and approved a 6.13 acre portion of the Ernesto Galarza Elementary School Site. DTSC approved the PEA report, prepared by IT Corporation, dated September 2000, with a further action required determination.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	07/10/2001
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	03/07/2001
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	08/18/2000
Comments:	Not reported

ERNESTO GALARZA ELEMENTARY SCHOOL (Continued) **S104735527**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Partial Site Approval
Completed Date: 12/27/2000
Comments: DTSC issued approval to begin construction on 6.13 acre portion of site. RAW needed for remaining 1.5 acre portion of site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 12/07/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * CEQA
Completed Date: 03/07/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/03/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 10/23/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 12/22/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 06/27/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 10/27/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 11/03/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

ERNESTO GALARZA ELEMENTARY SCHOOL (Continued) **S104735527**

Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	01/03/2002
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

SCH:

Facility ID:	43010026
Site Type:	School Cleanup
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	7.6
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Northern California Schools & Santa Susana
Site Code:	204064
Assembly:	28
Senate:	15
Special Program Status:	Not reported
Status:	Certified
Status Date:	10/23/2001
Restricted Use:	NO
Funding:	School District
Latitude:	37.30238
Longitude:	-121.8858
APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	DDE, DDE, DDT, Chlordane, Heptachlor epoxide, Zinc, Cobalt, Endosulfan, Copper and compounds, Vanadium and compounds, Nickel, Barium and compounds, Mercury (elemental, * delta-BHC (delta-HCH, Lead, Dieldrin
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	ERNESTO GALARZA ELEMENTARY SCHOOL
Alias Type:	Alternate Name
Alias Name:	SAN JOSE UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	SAN JOSE USD-ERNESTO GALARZA ELEM. SCHL
Alias Type:	Alternate Name
Alias Name:	SAN JOSE USD/RIVER GLEN RECONSTRUCT./VCA
Alias Type:	Alternate Name
Alias Name:	110021942656
Alias Type:	EPA (FRS #)
Alias Name:	204036

ERNESTO GALARZA ELEMENTARY SCHOOL (Continued) **S104735527**

Alias Type: Project Code (Site Code)
Alias Name: 204064
Alias Type: Project Code (Site Code)
Alias Name: 43010026
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 11/09/2000
Comments: DTSC reviewed the request for school construction and approved a 6.13 acre portion of the Ernesto Galarza Elementary School Site. DTSC approved the PEA report, prepared by IT Corporation, dated September 2000, with a further action required determination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/10/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 03/07/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 08/18/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Partial Site Approval
Completed Date: 12/27/2000
Comments: DTSC issued approval to begin construction on 6.13 acre portion of site. RAW needed for remaining 1.5 acre portion of site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 12/07/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * CEQA
Completed Date: 03/07/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/03/2002
Comments: Not reported

ERNESTO GALARZA ELEMENTARY SCHOOL (Continued) **S104735527**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 10/23/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 12/22/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 06/27/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 10/27/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 11/03/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/03/2002
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

66
SE
1/2-1
0.606 mi.
3202 ft.

UNIFLEX CIRCUITS, INC.
1782 ANGELA STREET
SAN JOSE, CA 95125

CA ENVIROSTOR **S103993118**
CA CUPA Listings **N/A**
CA SAN JOSE HAZMAT

Relative:
Higher

Actual:
130 ft.

ENVIROSTOR:
Facility ID: 71003375
Status: Inactive - Needs Evaluation
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit

UNIFLEX CIRCUITS, INC. (Continued) **S103993118**

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: 27
Senate: 15
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.30431
Longitude: -121.8769
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAL000172088
Alias Type: EPA Identification Number
Alias Name: 71003375
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

CUPA SANTA CLARA:
Region: SANTA CLARA
PE#: BP02
Program Description: HMBP FACILITY, 4-6 CHEMICALS
Latitude: 37.304692
Longitude: -121.877151

Region: SANTA CLARA
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Latitude: 37.304692
Longitude: -121.877151

Region: SANTA CLARA

UNIFLEX CIRCUITS, INC. (Continued) **S103993118**

PE#: 2261
Program Description: PERMIT BY RULE (PBR)
Latitude: 37.304692
Longitude: -121.877151

SAN JOSE HAZMAT:
Region: SAN JOSE
File Num: 401236
Class: Misc. Complex firms and labs

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67 NNE 1/2-1 0.677 mi. 3573 ft. | **3RD STREET DEVELOPMENT** | **CA ENVIROSTOR** | **S110121724**
1010 SOUTH 3RD STREET | **CA VCP** | **N/A**
SAN JOSE, CA 95112 | **CA NPDES**

Relative: Lower

Actual: 107 ft.

ENVIROSTOR:
Facility ID: 60001210
Status: Certified
Status Date: 05/07/2014
Site Code: 201865
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 0.71
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Henry Chui
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Assembly: 27
Senate: 15
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.32266
Longitude: -121.8766
APN: 47215027
Past Use: DRY CLEANING, MANUFACTURING - OTHER, PAINT/DEPAINT FACILITY, RETAIL - SERVICE STATION, RETAIL - VEHICLES
Potential COC: Asbestos Containing Materials (ACM Lead Barium and compounds Vanadium and compounds
Confirmed COC: Barium and compounds Vanadium and compounds 40001-NO 30013-NO
Potential Description: SOIL
Alias Name: 47215027
Alias Type: APN
Alias Name: 201865
Alias Type: Project Code (Site Code)
Alias Name: 60001210
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/19/2013
Comments: Not reported

3RD STREET DEVELOPMENT (Continued) **S110121724**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/04/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 03/30/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 01/31/2012
Comments: DTSC has approved the Supplemental Subsurface Investigation Report for the 3rd Street Development site. TPH and metals were detected in soil above unrestircted use and that would require a removal action workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 03/29/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 03/06/2012
Comments: DTSC has prepared the Community Profile which describes the community surrounding the site. The report includes the summary of the community survey, the demographics, repository location, and a brief history of the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/17/2014
Comments: The Final Report of Soil Excavation and Removal documents the removal activities that were performed at the Site to removed petroleum-hydrocarbon contaminated soil and groundwater for disposal and off-site treatment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 02/21/2012
Comments: DTSC mailed out the fact sheet to announce the start of the public comment period for the Draft Removal Action Plan. The public comment period is scheduled from February 24 through March 26, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 02/21/2012

3RD STREET DEVELOPMENT (Continued) **S110121724**

Comments: DTSC placed a public notice in the newspaper to announce the start of the public comment period for the Draft Removal Action Plan. The public comment period is scheduled from February 24 through March 26, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 07/31/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/21/2013
Comments: The removal activities has been completed and were successful in meeting the cleanup goals established pusuant to the approved RAW.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 07/11/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 03/29/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 01/21/2014
Comments: DTSC certified that the removal actions have been completed in accordance with the approved Final Removal Action Workplan. The cleanup goals have been achieved for unrestricted use of the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 03/17/2011
Comments: Letter #1

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 01/25/2012
Comments: Demand letter #1

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 03/10/2010
Comments: Global Premier Development, Incorporated signed a voluntary cleanup agreement. It requires the submittal of sampling and analysis workplan to complete the characterization of the site, a site

3RD STREET DEVELOPMENT (Continued) **S110121724**

characterization report with a risk evaluation to determine if further characterization or any required remediation is needed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 02/17/2012
Comments: Demand letter #2.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/03/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 04/28/2011
Comments: Letter #2

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 05/24/2011
Comments: Letter #3

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 07/11/2013
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

VCP:
Facility ID: 60001210
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.71
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Henry Chui
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Site Code: 201865

3RD STREET DEVELOPMENT (Continued) **S110121724**

Assembly:	27
Senate:	15
Special Programs Code:	Not reported
Status:	Certified
Status Date:	05/07/2014
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.32266 / -121.8766
APN:	47215027
Past Use:	DRY CLEANING, MANUFACTURING - OTHER, PAINT/DEPAINT FACILITY, RETAIL - SERVICE STATION, RETAIL - VEHICLES
Potential COC:	40001, 30013, 30067, 30587
Confirmed COC:	30067,30587,40001-NO,30013-NO
Potential Description:	SOIL
Alias Name:	47215027
Alias Type:	APN
Alias Name:	201865
Alias Type:	Project Code (Site Code)
Alias Name:	60001210
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/19/2013
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/04/2012
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Workplan
Completed Date:	03/30/2010
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	01/31/2012
Comments:	DTSC has approved the Supplemental Subsurface Investigation Report for the 3rd Street Development site. TPH and metals were detected in soil above unrestircted use and that would require a removal action workplan.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	03/29/2012
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Community Profile

3RD STREET DEVELOPMENT (Continued) **S110121724**

Completed Date: 03/06/2012
Comments: DTSC has prepared the Community Profile which describes the community surrounding the site. The report includes the summary of the community survey, the demographics, repository location, and a brief history of the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/17/2014
Comments: The Final Report of Soil Excavation and Removal documents the removal activities that were performed at the Site to removed petroleum-hydrocarbon contaminated soil and groundwater for disposal and off-site treatment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 02/21/2012
Comments: DTSC mailed out the fact sheet to announce the start of the public comment period for the Draft Removal Action Plan. The public comment period is scheduled from February 24 through March 26, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 02/21/2012
Comments: DTSC placed a public notice in the newspaper to announce the start of the public comment period for the Draft Removal Action Plan. The public comment period is scheduled from February 24 through March 26, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 07/31/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/21/2013
Comments: The removal activities has been completed and were successful in meeting the cleanup goals established pusuant to the approved RAW.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 07/11/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 03/29/2012
Comments: Not reported

3RD STREET DEVELOPMENT (Continued) **S110121724**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 01/21/2014
Comments: DTSC certified that the removal actions have been completed in accordance with the approved Final Removal Action Workplan. The cleanup goals have been achieved for unrestricted use of the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 03/17/2011
Comments: Letter #1

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 01/25/2012
Comments: Demand letter #1

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 03/10/2010
Comments: Global Premier Development, Incorporated signed a voluntary cleanup agreement. It requires the submittal of sampling and analysis workplan to complete the characterization of the site, a site characterization report with a risk evaluation to determine if further characterization or any required remediation is needed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 02/17/2012
Comments: Demand letter #2.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/03/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 04/28/2011
Comments: Letter #2

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 05/24/2011
Comments: Letter #3

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement

3RD STREET DEVELOPMENT (Continued) **S110121724**

Completed Date:	07/11/2013
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

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	2
Regulatory Measure Id:	440857
Order No:	Not reported
Regulatory Measure Type:	Construction
Place Id:	Not reported
WDID:	2 43C367583
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	1/13/2017
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	8/28/2013
PROCESSED DATE:	9/3/2013
STATUS CODE NAME:	Terminated
STATUS DATE:	1/13/2017
PLACE SIZE:	1
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Paul Nuytten
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	408-549-1302
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	paul@sbibuilders.com
OPERATOR NAME:	Pacific West Communities Inc
OPERATOR ADDRESS:	430 E State St Ste 100
OPERATOR CITY:	Eagle
OPERATOR STATE:	Idaho
OPERATOR ZIP:	83616
OPERATOR CONTACT NAME:	Caleb Roope
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	208-908-4873
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	dons@tpchousing.com
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Pacific West Communities Inc
DEVELOPER ADDRESS:	430 E State St Ste 100

3RD STREET DEVELOPMENT (Continued) **S110121724**

DEVELOPER CITY:	Eagle
DEVELOPER STATE:	Idaho
DEVELOPER ZIP:	83616
DEVELOPER CONTACT NAME:	Caleb Roope
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	N
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	N
CONSTYPE BELOW GROUND IND:	N
CONSTYPE CABLE LINE IND:	N
CONSTYPE COMM LINE IND:	N
CONSTYPE COMMERTIAL IND:	N
CONSTYPE ELECTRICAL LINE IND:	N
CONSTYPE GAS LINE IND:	N
CONSTYPE INDUSTRIAL IND:	N
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	N
CONSTYPE RECONS IND:	N
CONSTYPE RESIDENTIAL IND:	N
CONSTYPE TRANSPORT IND:	N
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	N
CONSTYPE WATER SEWER IND:	N
DIR DISCHARGE USWATER IND:	N
RECEIVING WATER NAME:	creek
CERTIFIER NAME:	Caleb Roope
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	28-AUG-13
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	CAS000002
Facility Status:	Active
Agency Id:	0
Region:	2
Regulatory Measure Id:	440857
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	2 43C367583
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	09/03/2013
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Pacific West Communities Inc
Discharge Address:	430 E State St Ste 100
Discharge City:	Eagle
Discharge State:	Idaho
Discharge Zip:	83616
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported

3RD STREET DEVELOPMENT (Continued) **S110121724**

PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

68 SE 1/2-1 0.679 mi. 3583 ft. | **R & R PROCESSING**
1805 LITTLE ORCHARD STREET #110-112
SAN JOSE, CA 95125 | **CA ENVIROSTOR** | **S110494232**
N/A

Relative: Higher

Actual: 120 ft.

ENVIROSTOR:

Facility ID:	71002737
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:	Not reported
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.30574
Longitude:	-121.8732
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAD981367659
Alias Type:	EPA Identification Number
Alias Name:	110002682179
Alias Type:	EPA (FRS #)
Alias Name:	71002737
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

69 West 1/2-1 0.716 mi. 3782 ft. | **WILLOW GLEN RIGHT OF WAY**
LONUS STREET
SAN JOSE, CA 95126 | **CA ENVIROSTOR** | **S106984032**
CA VCP | **N/A**

Relative: Lower

Actual: 116 ft.

ENVIROSTOR:

Facility ID:	43400003
Status:	Certified
Status Date:	03/06/2013
Site Code:	201607
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	10
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Assembly:	28
Senate:	15
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.31144
Longitude:	-121.8979
APN:	264-11-100, 264-54-067, 264-56-108, 429-01-051, 434-19-046
Past Use:	RAILROAD RIGHT OF WAY
Potential COC:	Arsenic Lead Polynuclear aromatic hydrocarbons (PAHs
Confirmed COC:	Arsenic Lead Polynuclear aromatic hydrocarbons (PAHs
Potential Description:	SOIL
Alias Name:	FRMR WLLW GLEN ROW AKA:RAILS TO TRAILS
Alias Type:	Alternate Name
Alias Name:	Milpitas Hook
Alias Type:	Alternate Name
Alias Name:	264-11-100
Alias Type:	APN
Alias Name:	264-54-067
Alias Type:	APN
Alias Name:	264-56-108
Alias Type:	APN
Alias Name:	429-01-051
Alias Type:	APN
Alias Name:	434-19-046
Alias Type:	APN
Alias Name:	110033620197
Alias Type:	EPA (FRS #)
Alias Name:	201607
Alias Type:	Project Code (Site Code)
Alias Name:	43400003
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/07/2010
Comments:	Not reported

WILLOW GLEN RIGHT OF WAY (Continued) **S106984032**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 07/28/2006
Comments: Public Participation has signed the Community Profile.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/15/2006
Comments: Sampling activities completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/28/2010
Comments: Fact sheet completed by public participation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 08/27/2010
Comments: A notice was published in the San Jose Mercury News to announce the public comment period on the Draft Removal Action Workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/23/2011
Comments: Fieldwork complete, including excavation, backfill, compaction and hydroseeding.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/15/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 04/19/2006
Comments: Remedial Investigation Workplan Addendum approved which moves sampling locations out of areas needing encroachment permits, so as not to delay sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 08/24/2010
Comments: ..

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 04/05/2011
Comments: Revised mailing list approved, work notice will be sent soon.

WILLOW GLEN RIGHT OF WAY (Continued) **S106984032**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 07/26/2011
Comments: Postcard sent updating community that work hours have changed from 7am to 5pm, as approved by the City of San Jose.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Design
Completed Date: 02/23/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/13/2012
Comments: Soil sampling of areas at the edge of the right-of-way where confirmation sampling showed exceedances of the cleanup levels has been completed. Laboratory results are expected soon.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/12/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 07/13/2012
Comments: Remaining areas with residual arsenic above the cleanup level characterized; additional soil removal will proceed soon.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 09/11/2012
Comments: Work Notice completed, which alerts community of excavation to remove remaining patches of soil that were difficult to reach during main excavation last year.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/28/2012
Comments: All planned additional excavation completed in sections A, D, and E.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/29/2012
Comments: Sampling lot adjacent to Section A of the Right-of-Way completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report

WILLOW GLEN RIGHT OF WAY (Continued) **S106984032**

Completed Date: 10/27/2004
Comments: Work done before VCA was sign, no letter needed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 07/21/2005
Comments: VCA signed with Union Pacfic to characterize and cleanup this right-of-way.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 10/04/2010
Comments: NOE signed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 03/30/2006
Comments: Approved RI Workplan for soil sampling along right-of-way.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/27/2006
Comments: Approval of Ri and next step submittal of draft RAW in 60 days.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 11/10/2010
Comments: Final RAW approved by DTSC. The cleanup will involve excavating and disposing approximately 14,000 cubic yards of contaminated soil at a permitted landfill.

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: Certification
Completed Date: 03/06/2013
Comments: DTSC certified the completion of the removal actlion at the Site. The Site has been cleaned up to levels that allow for unrestricted land use and no further action is required.

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

WILLOW GLEN RIGHT OF WAY (Continued) **S106984032**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 43400003
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 10
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Site Code: 201607
Assembly: 28
Senate: 15
Special Programs Code: Voluntary Cleanup Program
Status: Certified
Status Date: 03/06/2013
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.31144 / -121.8979
APN: 264-11-100, 264-54-067, 264-56-108, 429-01-051, 434-19-046
Past Use: RAILROAD RIGHT OF WAY
Potential COC: 30001, 30013, 30019
Confirmed COC: 30001,30013,30019
Potential Description: SOIL
Alias Name: FRMR WLLW GLEN ROW AKA:RAILS TO TRAILS
Alias Type: Alternate Name
Alias Name: Milpitas Hook
Alias Type: Alternate Name
Alias Name: 264-11-100
Alias Type: APN
Alias Name: 264-54-067
Alias Type: APN
Alias Name: 264-56-108
Alias Type: APN
Alias Name: 429-01-051
Alias Type: APN
Alias Name: 434-19-046
Alias Type: APN
Alias Name: 110033620197
Alias Type: EPA (FRS #)
Alias Name: 201607
Alias Type: Project Code (Site Code)
Alias Name: 43400003
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/07/2010
Comments: Not reported

WILLOW GLEN RIGHT OF WAY (Continued) **S106984032**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 07/28/2006
Comments: Public Participation has signed the Community Profile.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/15/2006
Comments: Sampling activities completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/28/2010
Comments: Fact sheet completed by public participation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 08/27/2010
Comments: A notice was published in the San Jose Mercury News to announce the public comment period on the Draft Removal Action Workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/23/2011
Comments: Fieldwork complete, including excavation, backfill, compaction and hydroseeding.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/15/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 04/19/2006
Comments: Remedial Investigation Workplan Addendum approved which moves sampling locations out of areas needing encroachment permits, so as not to delay sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 08/24/2010
Comments: ..

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 04/05/2011
Comments: Revised mailing list approved, work notice will be sent soon.

WILLOW GLEN RIGHT OF WAY (Continued) **S106984032**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 07/26/2011
Comments: Postcard sent updating community that work hours have changed from 7am to 5pm, as approved by the City of San Jose.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Design
Completed Date: 02/23/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/13/2012
Comments: Soil sampling of areas at the edge of the right-of-way where confirmation sampling showed exceedances of the cleanup levels has been completed. Laboratory results are expected soon.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/12/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 07/13/2012
Comments: Remaining areas with residual arsenic above the cleanup level characterized; additional soil removal will proceed soon.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 09/11/2012
Comments: Work Notice completed, which alerts community of excavation to remove remaining patches of soil that were difficult to reach during main excavation last year.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/28/2012
Comments: All planned additional excavation completed in sections A, D, and E.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/29/2012
Comments: Sampling lot adjacent to Section A of the Right-of-Way completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report

WILLOW GLEN RIGHT OF WAY (Continued) **S106984032**

Completed Date: 10/27/2004
Comments: Work done before VCA was sign, no letter needed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 07/21/2005
Comments: VCA signed with Union Pacfic to characterize and cleanup this right-of-way.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 10/04/2010
Comments: NOE signed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 03/30/2006
Comments: Approved RI Workplan for soil sampling along right-of-way.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/27/2006
Comments: Approval of Ri and next step submittal of draft RAW in 60 days.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 11/10/2010
Comments: Final RAW approved by DTSC. The cleanup will involve excavating and disposing approximately 14,000 cubic yards of contaminated soil at a permitted landfill.

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: Certification
Completed Date: 03/06/2013
Comments: DTSC certified the completion of the removal actlion at the Site. The Site has been cleaned up to levels that allow for unrestricted land use and no further action is required.

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

WILLOW GLEN RIGHT OF WAY (Continued) **S106984032**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

P70
East
1/2-1
0.753 mi.
3976 ft.

NORANDA RECYCLING INC
1695 MONTEREY HWY
SAN JOSE, CA 95112

CA HAZNET **S113001526**
CA HWP **N/A**

Site 1 of 2 in cluster P

Relative:
Lower

Actual:
109 ft.

HAZNET:

envid:	S113001526
Year:	2015
GEPAID:	CAD069124717
Contact:	SEJAL CHOKSI
Telephone:	4089984930
Mailing Name:	Not reported
Mailing Address:	1695 MONTEREY HWY
Mailing City,St,Zip:	SAN JOSE, CA 951126113
Gen County:	Santa Clara
TSD EPA ID:	CAD059494310
TSD County:	Santa Clara
Waste Category:	Aqueous solution with metals (< restricted levels and (Alkaline solution (pH >= 12.5) with metals))
Disposal Method:	H070
Tons:	0.2085
Cat Decode:	Aqueous solution with metals (< restricted levels and (Alkaline solution (pH >= 12.5) with metals))
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	S113001526
Year:	2015
GEPAID:	CAD069124717
Contact:	SEJAL CHOKSI
Telephone:	4089984930
Mailing Name:	Not reported
Mailing Address:	1695 MONTEREY HWY
Mailing City,St,Zip:	SAN JOSE, CA 951126113
Gen County:	Santa Clara
TSD EPA ID:	CAD059494310
TSD County:	Santa Clara
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0495
Cat Decode:	Off-specification, aged or surplus organics
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Santa Clara

envid:	S113001526
Year:	2015
GEPAID:	CAD069124717
Contact:	SEJAL CHOKSI
Telephone:	4089984930
Mailing Name:	Not reported
Mailing Address:	1695 MONTEREY HWY
Mailing City,St,Zip:	SAN JOSE, CA 951126113
Gen County:	Santa Clara

NORANDA RECYCLING INC (Continued) **S113001526**

TSD EPA ID:	CAD044429835
TSD County:	Los Angeles
Waste Category:	Waste oil and mixed oil
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.114
Cat Decode:	Waste oil and mixed oil
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Santa Clara

envid:	S113001526
Year:	2015
GEPAID:	CAD069124717
Contact:	SEJAL CHOKSI
Telephone:	4089984930
Mailing Name:	Not reported
Mailing Address:	1695 MONTEREY HWY
Mailing City,St,Zip:	SAN JOSE, CA 951126113
Gen County:	Santa Clara
TSD EPA ID:	Not reported
TSD County:	Not reported
Waste Category:	Not reported
Disposal Method:	Not reported
Tons:	2.675
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Santa Clara

envid:	S113001526
Year:	2015
GEPAID:	CAD069124717
Contact:	SEJAL CHOKSI
Telephone:	4089984930
Mailing Name:	Not reported
Mailing Address:	1695 MONTEREY HWY
Mailing City,St,Zip:	SAN JOSE, CA 951126113
Gen County:	Santa Clara
TSD EPA ID:	NVD980895338
TSD County:	99
Waste Category:	Liquids with cyanides >= 1,000 Mg./L
Disposal Method:	H070
Tons:	5.2125
Cat Decode:	Liquids with cyanides >= 1,000 Mg./L
Method Decode:	Not reported
Facility County:	Santa Clara

Click this hyperlink while viewing on your computer to access
605 additional CA_HAZNET: record(s) in the EDR Site Report.

HWP:

EPA Id:	CAD069124717
Cleanup Status:	OPERATING PERMIT
Latitude:	37.31136
Longitude:	-121.8689
Facility Type:	Permitted - Operating
Facility Size:	Standardized Series A

NORANDA RECYCLING INC (Continued) **S113001526**

Team: LORI KOCH
Supervisor: ELENA ESPADA
Site Code: 200265
Assembly District: 27
Senate District: 15
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: New Operating Permit - PUBLIC COMMENT (END)
Actual Date: 05/26/1994

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: Renewal - With Changes - FINAL PERMIT RENEWAL (EFFECTIVE)
Actual Date: 05/06/2012

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Not reported
Event Description: Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION (EFFECTIVE)
Actual Date: 05/18/2012

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: Renewal - With Changes - TECHNICAL COMPLETE LETTER
Actual Date: 10/20/2011

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Not reported
Event Description: Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date: 02/04/2014

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: Renewal - With Changes - CALL-IN LETTER ISSUED
Actual Date: 04/30/2003

EPA Id: CAD069124717

NORANDA RECYCLING INC (Continued) **S113001526**

Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: New Operating Permit - APPLICATION PART B RECEIVED
Actual Date: 06/03/1991

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: Renewal - With Changes - APPLICATION PART B RECEIVED
Actual Date: 10/31/2003

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: New Operating Permit - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date: 10/30/1991

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: New Operating Permit - FINAL PERMIT (EFFECTIVE)
Actual Date: 11/01/1994

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: Renewal - With Changes - FINAL PERMIT RENEWAL (EXPIRES)
Actual Date: 05/06/2022

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: New Operating Permit - FINAL PART A & PART B RECEIVED
Actual Date: 03/01/1994

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 -

NORANDA RECYCLING INC (Continued) **S113001526**

ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: New Operating Permit - DRAFT PERMIT
Actual Date: 04/11/1994

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: New Operating Permit - RESPONSE TO 1ST NOD RECEIVED
Actual Date: 08/15/1992

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: Renewal - With Changes - DISCLOSURE (CLEARED)
Actual Date: 03/10/2009

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: Renewal - With Changes - PUBLIC COMMENT (BEGIN)
Actual Date: 04/29/2012

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: Renewal - With Changes - INITIAL ADMINISTRATIVE REVIEW COMPLETED
Actual Date: 04/09/2004

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Not reported
Event Description: Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION (EXPIRES)
Actual Date: 05/06/2022

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: Renewal - With Changes - FINAL PERMIT RENEWAL
Actual Date: 04/06/2012

EPA Id: CAD069124717

NORANDA RECYCLING INC (Continued) **S113001526**

Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: Renewal - With Changes - DRAFT PERMIT RENEWAL
Actual Date: 04/29/2012

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: Renewal - With Changes - PUBLIC COMMENT (END)
Actual Date: 06/15/2012

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Not reported
Event Description: Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION (EFFECTIVE)
Actual Date: 09/07/2007

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: New Operating Permit - FINAL PERMIT
Actual Date: 09/26/1994

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Not reported
Event Description: Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date: 05/18/2012

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Not reported
Event Description: Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION (EFFECTIVE)
Actual Date: 07/30/2013

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Not reported
Event Description: Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date: 08/10/2016

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Not reported
Event Description: Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION (EFFECTIVE)
Actual Date: 08/10/2016

EPA Id: CAD069124717

NORANDA RECYCLING INC (Continued) **S113001526**

Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: New Operating Permit - PUBLIC COMMENT (BEGIN)
Actual Date: 04/11/1994

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: Renewal - With Changes - APPLICATION PART A RECEIVED
Actual Date: 10/30/2003

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: Renewal - With Changes - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date: 06/28/2007

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Not reported
Event Description: Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date: 08/20/2007

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: Ball Mill , CONTAIN1 - CYANIDE , CONTAIN2 - ACIDIC , CONTAIN3 - SOLID HAZ , Crucible Furnace , Cyanide Treatment Tank System , TANKSTR3 - ZORBTAN , TANKTR1 - Z4 , TANKTR2 - Z3 , TANKTR3-Z1 , TANKTR4-Z2 , TANKTRT1 - CAUSTIC , TANKTRT2 - ACIDIC , Tray Furnace
Event Description: New Operating Permit - FINAL PERMIT (EXPIRES)
Actual Date: 10/29/2004

Closure:
EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: TANKTR1 - Z4 , TANKTR2 - Z3
Event Description: Closure - RECEIVE CLOSURE CERTIFICATION
Actual Date: 09/06/2013

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: TANKTR1 - Z4 , TANKTR2 - Z3
Event Description: Closure - ISSUE CLOSURE VERIFICATION
Actual Date: 02/04/2014

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: TANKTR1 - Z4 , TANKTR2 - Z3

NORANDA RECYCLING INC (Continued) **S113001526**

Event Description: Closure - CLOSURE PLAN APPROVED
Actual Date: 08/06/2013

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: TANKTR1 - Z4 , TANKTR2 - Z3
Event Description: Closure - CLOSURE PLAN RECEIVED
Actual Date: 03/21/2013

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Unit Names: TANKTR1 - Z4 , TANKTR2 - Z3
Event Description: Closure - CLOSURE NOTICE RECEIVED
Actual Date: 03/21/2013

Alias:
EPA Id: CAD069124717
Facility Type: Permitted - Operating
Alias Type: FRS
Alias: 110016745940

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Alias Type: Project Code (Site Code)
Alias: 200265

EPA Id: CAD069124717
Facility Type: Permitted - Operating
Alias Type: Alternate Name
Alias: Glencore Recycling Inc

Maintenance:
EPA Id: CAD069124717
Title: Fee for Service Notification
Document Type: Correspondence
Received Date: 10/27/2016

P71 **GLENCORE RECYCLING** **SEMS-ARCHIVE** **1000366157**
East **1695 MONTEREY HWY** **CORRACTS** **CAD069124717**
1/2-1 **SAN JOSE, CA 95112** **RCRA-TSDF**
0.753 mi. **RCRA-LQG**
3976 ft. **Site 2 of 2 in cluster P** **CA ENVIROSTOR**
CA SLIC
Relative: **US FIN ASSUR**
Lower **2020 COR ACTION**
CA CUPA Listings
Actual: **CA EMI**
109 ft. **CA Financial Assurance**
CA ICE
WI MANIFEST
CA NPDES

SEMS-ARCHIVE:
Site ID: 901541
EPA ID: CAD069124717
Federal Facility: N

GLENCORE RECYCLING (Continued) **1000366157**

NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Following information was gathered from the prior CERCLIS update completed in 10/2013:
Site ID: 0901541
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: 13285721.00000
Person ID: 13003854.00000

Contact Sequence ID: 13291316.00000
Person ID: 13003858.00000

Contact Sequence ID: 13297174.00000
Person ID: 13004003.00000

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

CORRACTS:

EPA ID: CAD069124717
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19930601
Action: CA050 - RFA Completed
NAICS Code(s): 42393
Recyclable Material Merchant Wholesalers
Original schedule date: 20091118
Schedule end date: Not reported

EPA ID: CAD069124717
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19930601
Action: CA070NO - RFA Determination Of Need For An RFI, RFI is Not Necessary
NAICS Code(s): 42393
Recyclable Material Merchant Wholesalers
Original schedule date: 20091118

GLENCORE RECYCLING (Continued) **1000366157**

Schedule end date: Not reported

EPA ID: CAD069124717
EPA Region: 9
Area Name: INACTIVE DRUM STORAGE AREA
Actual Date: 19960614
Action: CA400 - Date For Remedy Selection (CM Imposed)
NAICS Code(s): 42393
Recyclable Material Merchant Wholesalers
Original schedule date: 19960614
Schedule end date: Not reported

EPA ID: CAD069124717
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19960614
Action: CA200 - RFI Approved
NAICS Code(s): 42393
Recyclable Material Merchant Wholesalers
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD069124717
EPA Region: 9
Area Name: CONCRETE TANKS
Actual Date: 19950517
Action: CA150 - RFI Workplan Approved
NAICS Code(s): 42393
Recyclable Material Merchant Wholesalers
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD069124717
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19980818
Action: CA350 - CMS Approved
NAICS Code(s): 42393
Recyclable Material Merchant Wholesalers
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD069124717
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20111027
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified
NAICS Code(s): 42393
Recyclable Material Merchant Wholesalers
Original schedule date: 20111027
Schedule end date: Not reported

EPA ID: CAD069124717
EPA Region: 9
Area Name: INACTIVE DRUM STORAGE AREA
Actual Date: 19960628

GLENCORE RECYCLING (Continued) **1000366157**

Action: CA400 - Date For Remedy Selection (CM Imposed)
NAICS Code(s): 42393
Recyclable Material Merchant Wholesalers
Original schedule date: 19960628
Schedule end date: Not reported

EPA ID: CAD069124717
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20110930
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified
NAICS Code(s): 42393
Recyclable Material Merchant Wholesalers
Original schedule date: 20111204
Schedule end date: Not reported

EPA ID: CAD069124717
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20110930
Action: CA550RC
NAICS Code(s): 42393
Recyclable Material Merchant Wholesalers
Original schedule date: 20111204
Schedule end date: Not reported

EPA ID: CAD069124717
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20110930
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): 42393
Recyclable Material Merchant Wholesalers
Original schedule date: 20111204
Schedule end date: Not reported

RCRA-TSDF:
Date form received by agency: 02/29/2016
Facility name: GLENCORE RECYCLING
Facility address: 1695 MONTEREY HWY
SAN JOSE, CA 95112
EPA ID: CAD069124717
Mailing address: MONTEREY HWY
SAN JOSE, CA 95112
Contact: JOY L AUSTIN-LANE
Contact address: MONTEREY HWY
SAN JOSE, CA 95112
Contact country: US
Contact telephone: (408) 998-4930
Contact email: JOY.AUSTIN-LANE@GLENCORE.US
EPA Region: 09
Land type: Private
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste

GLENCORE RECYCLING (Continued) **1000366157**

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: PENINSULA DEVELOPERS LLC
Owner/operator address: WASHINGTON AVE, SUITE 250
RICHMOND, CA 94801
Owner/operator country: US
Owner/operator telephone: (510) 215-1515
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 11/16/1964
Owner/Op end date: Not reported

Owner/operator name: GLENCORE RECYCLING
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: 09/13/1985
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: Yes
Transporter of hazardous waste: No
Treater, storer or disposer of HW: Yes
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: Yes
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: A
Accumulated waste on-site: Yes
Generated waste on-site: No

GLENCORE RECYCLING (Continued) **1000366157**

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

. Waste code: 121
. Waste name: 121

. Waste code: 122
. Waste name: 122

. Waste code: 123
. Waste name: 123

. Waste code: 131
. Waste name: 131

. Waste code: 132
. Waste name: 132

. Waste code: 135
. Waste name: 135

. Waste code: 141
. Waste name: 141

. Waste code: 162
. Waste name: 162

. Waste code: 171
. Waste name: 171

. Waste code: 172
. Waste name: 172

. Waste code: 181
. Waste name: 181

. Waste code: 214
. Waste name: 214

. Waste code: 221
. Waste name: 221

. Waste code: 222
. Waste name: 222

. Waste code: 223
. Waste name: 223

GLENCORE RECYCLING (Continued) **1000366157**

. Waste code: 272
. Waste name: 272

. Waste code: 281
. Waste name: 281

. Waste code: 331
. Waste name: 331

. Waste code: 342
. Waste name: 342

. Waste code: 352
. Waste name: 352

. Waste code: 411
. Waste name: 411

. Waste code: 421
. Waste name: 421

. Waste code: 431
. Waste name: 431

. Waste code: 441
. Waste name: 441

. Waste code: 491
. Waste name: 491

. Waste code: 541
. Waste name: 541

. Waste code: 551
. Waste name: 551

. Waste code: 571
. Waste name: 571

. Waste code: 581
. Waste name: 581

. Waste code: 591
. Waste name: 591

. Waste code: 711
. Waste name: 711

. Waste code: 721
. Waste name: 721

. Waste code: 722
. Waste name: 722

. Waste code: 723
. Waste name: 723

GLENCORE RECYCLING (Continued) **1000366157**

. Waste code: 724
. Waste name: 724

. Waste code: 726
. Waste name: 726

. Waste code: 727
. Waste name: 727

. Waste code: 728
. Waste name: 728

. Waste code: 791
. Waste name: 791

. Waste code: 792
. Waste name: 792

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,

GLENCORE RECYCLING (Continued) **1000366157**

CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS 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 F001, 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 NONHALOGENATED 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 NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED 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 NONHALOGENATED 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 NONHALOGENATED 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 IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: F009
. Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: K069
. Waste name: EMISSION CONTROL DUST/SLUDGE FROM SECONDARY LEAD SMELTING.

. Waste code: P029
. Waste name: COPPER CYANIDE (OR) COPPER CYANIDE CU(CN)

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

GLENCORE RECYCLING (Continued) **1000366157**

. Waste code: P098
. Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

. Waste code: P099
. Waste name: ARGENTATE (1-), BIS(CYANO-C)-, POTASSIUM (OR) POTASSIUM SILVER CYANIDE

. Waste code: P104
. Waste name: SILVER CYANIDE (OR) SILVER CYANIDE AG(CN)

. Waste code: P106
. Waste name: SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)

Historical Generators:
Date form received by agency: 03/01/2014
Site name: GLENCORE RECYCLING, INC.
Classification: Large Quantity Generator

. Waste code: 121
. Waste name: 121

. Waste code: 122
. Waste name: 122

. Waste code: 123
. Waste name: 123

. Waste code: 131
. Waste name: 131

. Waste code: 132
. Waste name: 132

. Waste code: 135
. Waste name: 135

. Waste code: 141
. Waste name: 141

. Waste code: 162
. Waste name: 162

. Waste code: 171
. Waste name: 171

. Waste code: 172
. Waste name: 172

. Waste code: 181
. Waste name: 181

. Waste code: 214
. Waste name: 214

. Waste code: 221
. Waste name: 221

. Waste code: 222

GLENCORE RECYCLING (Continued) **1000366157**

. Waste name: 222

. Waste code: 223
. Waste name: 223

. Waste code: 272
. Waste name: 272

. Waste code: 281
. Waste name: 281

. Waste code: 331
. Waste name: 331

. Waste code: 342
. Waste name: 342

. Waste code: 352
. Waste name: 352

. Waste code: 411
. Waste name: 411

. Waste code: 421
. Waste name: 421

. Waste code: 431
. Waste name: 431

. Waste code: 441
. Waste name: 441

. Waste code: 491
. Waste name: 491

. Waste code: 541
. Waste name: 541

. Waste code: 551
. Waste name: 551

. Waste code: 571
. Waste name: 571

. Waste code: 581
. Waste name: 581

. Waste code: 591
. Waste name: 591

. Waste code: 711
. Waste name: 711

. Waste code: 721
. Waste name: 721

. Waste code: 722

GLENCORE RECYCLING (Continued) **1000366157**

. Waste name: 722

. Waste code: 723
. Waste name: 723

. Waste code: 724
. Waste name: 724

. Waste code: 726
. Waste name: 726

. Waste code: 727
. Waste name: 727

. Waste code: 728
. Waste name: 728

. Waste code: 791
. Waste name: 791

. Waste code: 792
. Waste name: 792

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D035

GLENCORE RECYCLING (Continued) **1000366157**

. Waste name: METHYL ETHYL KETONE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS 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 F001, 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 NONHALOGENATED 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 NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED 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 NONHALOGENATED 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 NONHALOGENATED 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 IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: F009
. Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: K069
. Waste name: EMISSION CONTROL DUST/SLUDGE FROM SECONDARY LEAD SMELTING.

GLENCORE RECYCLING (Continued) **1000366157**

. Waste code: P029
. Waste name: COPPER CYANIDE (OR) COPPER CYANIDE CU(CN)

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: P098
. Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

. Waste code: P099
. Waste name: ARGENTATE (1-), BIS(CYANO-C)-, POTASSIUM (OR) POTASSIUM SILVER CYANIDE

. Waste code: P104
. Waste name: SILVER CYANIDE (OR) SILVER CYANIDE AG(CN)

. Waste code: P106
. Waste name: SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)

Date form received by agency: 07/19/2012
Site name: XSTRATA RECYCLING, INC.
Classification: Large Quantity Generator

. Waste code: 121
. Waste name: 121

. Waste code: 122
. Waste name: 122

. Waste code: 123
. Waste name: 123

. Waste code: 131
. Waste name: 131

. Waste code: 132
. Waste name: 132

. Waste code: 135
. Waste name: 135

. Waste code: 141
. Waste name: 141

. Waste code: 162
. Waste name: 162

. Waste code: 171
. Waste name: 171

. Waste code: 172
. Waste name: 172

. Waste code: 181
. Waste name: 181

. Waste code: 272
. Waste name: 272

GLENCORE RECYCLING (Continued) **1000366157**

. Waste code: 281
. Waste name: 281

. Waste code: 331
. Waste name: 331

. Waste code: 342
. Waste name: 342

. Waste code: 343
. Waste name: 343

. Waste code: 352
. Waste name: 352

. Waste code: 411
. Waste name: 411

. Waste code: 421
. Waste name: 421

. Waste code: 431
. Waste name: 431

. Waste code: 441
. Waste name: 441

. Waste code: 491
. Waste name: 491

. Waste code: 541
. Waste name: 541

. Waste code: 551
. Waste name: 551

. Waste code: 571
. Waste name: 571

. Waste code: 581
. Waste name: 581

. Waste code: 591
. Waste name: 591

. Waste code: 711
. Waste name: 711

. Waste code: 722
. Waste name: 722

. Waste code: 723
. Waste name: 723

. Waste code: 724
. Waste name: 724

GLENCORE RECYCLING (Continued) **1000366157**

. Waste code: 726
. Waste name: 726

. Waste code: 727
. Waste name: 727

. Waste code: 728
. Waste name: 728

. Waste code: 791
. Waste name: 791

. Waste code: 792
. Waste name: 792

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS 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 F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003

GLENCORE RECYCLING (Continued) **1000366157**

. Waste name: THE FOLLOWING SPENT NONHALOGENATED 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 NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED 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 NONHALOGENATED 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 NONHALOGENATED 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 IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: F009
. Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: K069
. Waste name: EMISSION CONTROL DUST/SLUDGE FROM SECONDARY LEAD SMELTING.

. Waste code: P015
. Waste name: BERYLLIUM

. Waste code: P029
. Waste name: COPPER CYANIDE (OR) COPPER CYANIDE CU(CN)

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: P098
. Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

. Waste code: P099
. Waste name: ARGENTATE (1-), BIS(CYANO-C)-, POTASSIUM (OR) POTASSIUM SILVER CYANIDE

GLENCORE RECYCLING (Continued) **1000366157**

. Waste code: P104
. Waste name: SILVER CYANIDE (OR) SILVER CYANIDE AG(CN)

Date form received by agency: 06/22/2010
Site name: XSTRATA RECYCLING, INC
Classification: Large Quantity Generator

. Waste code: 121
. Waste name: 121

. Waste code: 122
. Waste name: 122

. Waste code: 123
. Waste name: 123

. Waste code: 131
. Waste name: 131

. Waste code: 132
. Waste name: 132

. Waste code: 135
. Waste name: 135

. Waste code: 141
. Waste name: 141

. Waste code: 162
. Waste name: 162

. Waste code: 171
. Waste name: 171

. Waste code: 172
. Waste name: 172

. Waste code: 181
. Waste name: 181

. Waste code: 272
. Waste name: 272

. Waste code: 281
. Waste name: 281

. Waste code: 331
. Waste name: 331

. Waste code: 342
. Waste name: 342

. Waste code: 343
. Waste name: 343

. Waste code: 352
. Waste name: 352

GLENCORE RECYCLING (Continued) **1000366157**

. Waste code: 411
. Waste name: 411

. Waste code: 421
. Waste name: 421

. Waste code: 431
. Waste name: 431

. Waste code: 441
. Waste name: 441

. Waste code: 491
. Waste name: 491

. Waste code: 541
. Waste name: 541

. Waste code: 551
. Waste name: 551

. Waste code: 571
. Waste name: 571

. Waste code: 581
. Waste name: 581

. Waste code: 591
. Waste name: 591

. Waste code: 711
. Waste name: 711

. Waste code: 722
. Waste name: 722

. Waste code: 723
. Waste name: 723

. Waste code: 724
. Waste name: 724

. Waste code: 726
. Waste name: 726

. Waste code: 727
. Waste name: 727

. Waste code: 728
. Waste name: 728

. Waste code: 791
. Waste name: 791

. Waste code: 792
. Waste name: 792

GLENCORE RECYCLING (Continued) **1000366157**

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS 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 F001, 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 NONHALOGENATED 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 NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED 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

GLENCORE RECYCLING (Continued) **1000366157**

. Waste name: THE FOLLOWING SPENT NONHALOGENATED 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 NONHALOGENATED 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 IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: F009
. Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: K069
. Waste name: EMISSION CONTROL DUST/SLUDGE FROM SECONDARY LEAD SMELTING.

. Waste code: P015
. Waste name: BERYLLIUM

. Waste code: P029
. Waste name: COPPER CYANIDE (OR) COPPER CYANIDE CU(CN)

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: P098
. Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

. Waste code: P099
. Waste name: ARGENTATE (1-), BIS(CYANO-C)-, POTASSIUM (OR) POTASSIUM SILVER CYANIDE

. Waste code: P104
. Waste name: SILVER CYANIDE (OR) SILVER CYANIDE AG(CN)

. Waste code: P121
. Waste name: ZINC CYANIDE (OR) ZINC CYANIDE ZN(CN)2

Date form received by agency: 02/28/2008
Site name: XSTRATA RECYCLING, INC.
Classification: Large Quantity Generator

. Waste code: D001

GLENCORE RECYCLING (Continued) **1000366157**

. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS 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 F001, 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 NONHALOGENATED 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 NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED 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 NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL

GLENCORE RECYCLING (Continued) **1000366157**

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 NONHALOGENATED 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 IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: F009
. Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: K069
. Waste name: EMISSION CONTROL DUST/SLUDGE FROM SECONDARY LEAD SMELTING.

. Waste code: P015
. Waste name: BERYLLIUM

. Waste code: P029
. Waste name: COPPER CYANIDE (OR) COPPER CYANIDE CU(CN)

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: P098
. Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

. Waste code: P099
. Waste name: ARGENTATE (1-), BIS(CYANO-C)-, POTASSIUM (OR) POTASSIUM SILVER CYANIDE

. Waste code: P104
. Waste name: SILVER CYANIDE (OR) SILVER CYANIDE AG(CN)

. Waste code: P106
. Waste name: SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)

. Waste code: P121
. Waste name: ZINC CYANIDE (OR) ZINC CYANIDE ZN(CN)2

Date form received by agency: 03/01/2006
Site name: NORANDA RECYCLING INC.
Classification: Large Quantity Generator

GLENCORE RECYCLING (Continued) **1000366157**

. Waste code: 121
. Waste name: 121

. Waste code: 122
. Waste name: 122

. Waste code: 123
. Waste name: 123

. Waste code: 131
. Waste name: 131

. Waste code: 132
. Waste name: 132

. Waste code: 135
. Waste name: 135

. Waste code: 141
. Waste name: 141

. Waste code: 162
. Waste name: 162

. Waste code: 171
. Waste name: 171

. Waste code: 172
. Waste name: 172

. Waste code: 181
. Waste name: 181

. Waste code: 272
. Waste name: 272

. Waste code: 281
. Waste name: 281

. Waste code: 331
. Waste name: 331

. Waste code: 342
. Waste name: 342

. Waste code: 343
. Waste name: 343

. Waste code: 352
. Waste name: 352

. Waste code: 411
. Waste name: 411

. Waste code: 421
. Waste name: 421

GLENCORE RECYCLING (Continued) **1000366157**

. Waste code: 431
. Waste name: 431

. Waste code: 441
. Waste name: 441

. Waste code: 491
. Waste name: 491

. Waste code: 541
. Waste name: 541

. Waste code: 551
. Waste name: 551

. Waste code: 571
. Waste name: 571

. Waste code: 581
. Waste name: 581

. Waste code: 591
. Waste name: 591

. Waste code: 711
. Waste name: 711

. Waste code: 721
. Waste name: 721

. Waste code: 722
. Waste name: 722

. Waste code: 723
. Waste name: 723

. Waste code: 724
. Waste name: 724

. Waste code: 726
. Waste name: 726

. Waste code: 727
. Waste name: 727

. Waste code: 728
. Waste name: 728

. Waste code: 791
. Waste name: 791

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

GLENCORE RECYCLING (Continued) **1000366157**

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS 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 F001, 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 NONHALOGENATED 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 NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED 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 NONHALOGENATED 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 NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF

GLENCORE RECYCLING (Continued) **1000366157**

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 IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: F009
. Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: K069
. Waste name: EMISSION CONTROL DUST/SLUDGE FROM SECONDARY LEAD SMELTING.

. Waste code: P015
. Waste name: BERYLLIUM

. Waste code: P029
. Waste name: COPPER CYANIDE (OR) COPPER CYANIDE CU(CN)

Date form received by agency: 02/02/2004
Site name: NORANDA RECYCLING INC
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008

GLENCORE RECYCLING (Continued) **1000366157**

. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS 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 F001, 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 NONHALOGENATED 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 NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED 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 NONHALOGENATED 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 NONHALOGENATED 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

GLENCORE RECYCLING (Continued) **1000366157**

ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: F009
. Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: K069
. Waste name: EMISSION CONTROL DUST/SLUDGE FROM SECONDARY LEAD SMELTING.

. Waste code: P015
. Waste name: BERYLLIUM

. Waste code: P029
. Waste name: COPPER CYANIDE (OR) COPPER CYANIDE CU(CN)

Date form received by agency: 08/08/2003
Site name: NORANDA RECYCLING INC
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2,

GLENCORE RECYCLING (Continued) **1000366157**

TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS 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 F001, 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 NONHALOGENATED 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 NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED 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 NONHALOGENATED 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 NONHALOGENATED 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 IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: F009
. Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: K069
. Waste name: EMISSION CONTROL DUST/SLUDGE FROM SECONDARY LEAD SMELTING.

. Waste code: P015
. Waste name: BERYLLIUM

. Waste code: P029
. Waste name: COPPER CYANIDE (OR) COPPER CYANIDE CU(CN)

. Waste code: P030

GLENCORE RECYCLING (Continued) **1000366157**

. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: P098
. Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

. Waste code: P099
. Waste name: ARGENTATE (1-), BIS(CYANO-C)-, POTASSIUM (OR) POTASSIUM SILVER CYANIDE

. Waste code: P104
. Waste name: SILVER CYANIDE (OR) SILVER CYANIDE AG(CN)

. Waste code: P106
. Waste name: SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)

. Waste code: P121
. Waste name: ZINC CYANIDE (OR) ZINC CYANIDE ZN(CN)2

Date form received by agency: 02/27/2002
Site name: MICRO METALLICS CORPORATION
Classification: Large Quantity Generator

. Waste code: 121
. Waste name: 121

. Waste code: 122
. Waste name: 122

. Waste code: 123
. Waste name: 123

. Waste code: 131
. Waste name: 131

. Waste code: 132
. Waste name: 132

. Waste code: 135
. Waste name: 135

. Waste code: 141
. Waste name: 141

. Waste code: 162
. Waste name: 162

. Waste code: 171
. Waste name: 171

. Waste code: 172
. Waste name: 172

. Waste code: 181
. Waste name: 181

. Waste code: 272
. Waste name: 272

GLENCORE RECYCLING (Continued) **1000366157**

. Waste code: 281
. Waste name: 281

. Waste code: 331
. Waste name: 331

. Waste code: 342
. Waste name: 342

. Waste code: 352
. Waste name: 352

. Waste code: 411
. Waste name: 411

. Waste code: 421
. Waste name: 421

. Waste code: 431
. Waste name: 431

. Waste code: 441
. Waste name: 441

. Waste code: 491
. Waste name: 491

. Waste code: 541
. Waste name: 541

. Waste code: 551
. Waste name: 551

. Waste code: 571
. Waste name: 571

. Waste code: 581
. Waste name: 581

. Waste code: 591
. Waste name: 591

. Waste code: 711
. Waste name: 711

. Waste code: 721
. Waste name: 721

. Waste code: 722
. Waste name: 722

. Waste code: 723
. Waste name: 723

. Waste code: 724
. Waste name: 724

GLENCORE RECYCLING (Continued) **1000366157**

. Waste code: 726
. Waste name: 726

. Waste code: 727
. Waste name: 727

. Waste code: 728
. Waste name: 728

. Waste code: 791
. Waste name: 791

. Waste code: 792
. Waste name: 792

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS 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 F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND

GLENCORE RECYCLING (Continued) **1000366157**

SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED 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 NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED 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 NONHALOGENATED 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 NONHALOGENATED 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 IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: F009
. Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: K069
. Waste name: EMISSION CONTROL DUST/SLUDGE FROM SECONDARY LEAD SMELTING.

. Waste code: P015
. Waste name: BERYLLIUM

. Waste code: P029
. Waste name: COPPER CYANIDE (OR) COPPER CYANIDE CU(CN)

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: P098
. Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

GLENCORE RECYCLING (Continued) **1000366157**

. Waste code: P099
. Waste name: ARGENTATE (1-), BIS(CYANO-C)-, POTASSIUM (OR) POTASSIUM SILVER CYANIDE

. Waste code: P104
. Waste name: SILVER CYANIDE (OR) SILVER CYANIDE AG(CN)

. Waste code: P106
. Waste name: SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)

. Waste code: P121
. Waste name: ZINC CYANIDE (OR) ZINC CYANIDE ZN(CN)2

Date form received by agency: 10/12/2000
Site name: MICRO METALLICS CORP.
Classification: Large Quantity Generator

Date form received by agency: 04/15/1999
Site name: MICRO METALLICS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: MICRO METALLICS CORP
Classification: Large Quantity Generator

Date form received by agency: 02/29/1996
Site name: MICRO METALLICS CORP
Classification: Large Quantity Generator

Date form received by agency: 03/31/1994
Site name: MICRO METALLICS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 02/28/1992
Site name: MICRO METALLICS CORP. (DIV OF
Classification: Large Quantity Generator

Date form received by agency: 05/01/1990
Site name: MICRO METALLICS CORP
Classification: Large Quantity Generator

Date form received by agency: 08/15/1980
Site name: MICRO METALLICS CORP
Classification: Not a generator, verified

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:
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): 208174.3

GLENCORE RECYCLING (Continued) **1000366157**

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): 195192.7

Waste code: D004
Waste name: ARSENIC
Amount (Lbs): 208174.3

Waste code: D006
Waste name: CADMIUM
Amount (Lbs): 12981.7

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 41033.7

Waste code: D008
Waste name: LEAD
Amount (Lbs): 41107

Waste code: D011
Waste name: SILVER
Amount (Lbs): 41987.8

Waste code: F007
Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS
Amount (Lbs): 126467.9

Waste code: F009
Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS WHERE CYANIDES ARE USED IN THE PROCESS.
Amount (Lbs): 68724.8

Corrective Action Summary:

Event date: 06/01/1993
Event: RFA Completed

Event date: 06/01/1993
Event: RFA Completed, Assessment was an RFA.

Event date: 06/01/1993
Event: RFA Determination Of Need For An RFI, RFI is Not Necessary;

Event date: 12/23/1994
Event: RFI Workplan Received

Event date: 01/01/1995
Event: RFI Imposition

Event date: 05/04/1995
Event: RFI Workplan Received

GLENCORE RECYCLING (Continued) **1000366157**

Event date: 05/17/1995
Event: RFI Workplan Approved

Event date: 06/14/1996
Event: Date For Remedy Selection (CM Imposed)

Event date: 06/14/1996
Event: RFI Approved

Event date: 06/28/1996
Event: Date For Remedy Selection (CM Imposed)

Event date: 07/31/1996
Event: RFI Report Received

Event date: 05/15/1997
Event: CA Prioritization, Facility or area was assigned a medium corrective action priority.

Event date: 06/30/1997
Event: CMS Workplan Received

Event date: 02/06/1998
Event: CMS Report Received

Event date: 08/18/1998
Event: CMS Approved

Event date: 10/08/1998
Event: Corrective Action Process Terminated, No Further Action

Event date: 09/30/2011
Event: Igration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

Event date: 09/30/2011
Event: Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

Event date: 09/30/2011
Event: CA550RC

Event date: 09/30/2011
Event: CA550RC

GLENCORE RECYCLING (Continued) **1000366157**

Event date: 09/30/2011
Event: Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

Event date: 10/27/2011
Event: Igration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 03/23/2016
Date achieved compliance: 10/17/2016
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/23/2016
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: 03/23/2016
Date achieved compliance: 05/19/2016
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/23/2016
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: Universal Waste - Small Quantity Handlers
Date violation determined: 02/29/2012
Date achieved compliance: 05/01/2012
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported

GLENCORE RECYCLING (Continued) **1000366157**

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 - Pre-transport
Date violation determined: 02/29/2012
Date achieved compliance: 05/01/2012
Violation lead agency: EPA
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: TSD IS-Container Use and Management
Date violation determined: 02/29/2012
Date achieved compliance: 05/01/2012
Violation lead agency: EPA
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: Listing - Criteria
Date violation determined: 06/21/2011
Date achieved compliance: 07/28/2011
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/29/2011
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: State Statute or Regulation
Date violation determined: 06/21/2011
Date achieved compliance: 07/28/2011
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/29/2011
Enf. disposition status: Not reported

GLENCORE RECYCLING (Continued) **1000366157**

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: 06/21/2011
Date achieved compliance: 07/28/2011
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/29/2011
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: 06/21/2011
Date achieved compliance: 07/28/2011
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/29/2011
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 - Tank System Standards
Date violation determined: 06/21/2011
Date achieved compliance: 07/28/2011
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/29/2011
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: 04/13/2009
Date achieved compliance: 05/13/2009
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/13/2009
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

GLENCORE RECYCLING (Continued) **1000366157**

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: State Statute or Regulation
Date violation determined: 09/30/2008
Date achieved compliance: 10/16/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/16/2008
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 - Financial Requirements
Date violation determined: 07/05/2007
Date achieved compliance: 04/17/2008
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 03/23/2009
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 64678
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 07/05/2007
Date achieved compliance: 04/17/2008
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 06/13/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 94806
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 07/05/2007
Date achieved compliance: 04/17/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/27/2007
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

GLENCORE RECYCLING (Continued) **1000366157**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 09/13/2004
Date achieved compliance: 11/25/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/14/2004
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: 10/10/2000
Date achieved compliance: 12/21/2000
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/16/2000
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: 01/14/1999
Date achieved compliance: 02/23/1999
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/21/1999
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: F - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 04/05/1996
Date achieved compliance: 11/13/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/08/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

GLENCORE RECYCLING (Continued) **1000366157**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 04/05/1996
Date achieved compliance: 11/13/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/08/1996
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: F - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 03/11/1994
Date achieved compliance: 06/14/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/11/1994
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: F - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 03/11/1994
Date achieved compliance: 06/14/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/11/1994
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: F - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 03/11/1994
Date achieved compliance: 06/14/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/11/1994
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

GLENCORE RECYCLING (Continued) **1000366157**

Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 03/11/1994
Date achieved compliance: 06/14/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/11/1994
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: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 03/11/1994
Date achieved compliance: 06/14/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/11/1994
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 - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/24/1992
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: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/24/1992
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

GLENCORE RECYCLING (Continued) **1000366157**

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/23/1990
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: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 11/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 199850
Paid penalty amount: 199850

Regulation violated: FR - 262.30-34.C
Area of violation: Generators - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/24/1992
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: FR - 268.7
Area of violation: LDR - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/24/1992
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: FR - 264.30-37.C

GLENCORE RECYCLING (Continued) **1000366157**

Area of violation: TSD - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/23/1990
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 - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/23/1990
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 - 262.30-34.C
Area of violation: Generators - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 11/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 199850
Paid penalty amount: 199850

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/23/1990
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 - 264.10-18.B
Area of violation: TSD - General

GLENCORE RECYCLING (Continued) **1000366157**

Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/24/1992
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: FR - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 11/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 199850
Paid penalty amount: 199850

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 11/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 199850
Paid penalty amount: 199850

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 11/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 199850
Paid penalty amount: 199850

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 01/10/1990

GLENCORE RECYCLING (Continued) **1000366157**

Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 11/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 199850
Paid penalty amount: 199850

Regulation violated: FR - 262.30-34.C
Area of violation: Generators - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/23/1990
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 - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/23/1990
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 - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/24/1992
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: FR - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993

GLENCORE RECYCLING (Continued) **1000366157**

Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 11/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 199850
Paid penalty amount: 199850

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/24/1992
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: FR - 270
Area of violation: TSD - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/24/1992
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: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/24/1992
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: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State

GLENCORE RECYCLING (Continued) **1000366157**

Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/23/1990
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 - 270
Area of violation: TSD - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/23/1990
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 - 270
Area of violation: TSD - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 11/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 199850
Paid penalty amount: 199850

Regulation violated: FR - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/23/1990
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 - 268 ALL
Area of violation: LDR - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY

GLENCORE RECYCLING (Continued) **1000366157**

Enforcement action date: 11/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 199850
Paid penalty amount: 199850

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 11/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 199850
Paid penalty amount: 199850

Regulation violated: FR - 264.30-37.C
Area of violation: TSD - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 11/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 199850
Paid penalty amount: 199850

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/24/1992
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: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/23/1990

GLENCORE RECYCLING (Continued) **1000366157**

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 - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 11/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 199850
Paid penalty amount: 199850

Regulation violated: FR - 264.30-37.C
Area of violation: TSD - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/24/1992
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: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/24/1992
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: FR - 268.7
Area of violation: LDR - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/23/1990
Enf. disposition status: Not reported

GLENCORE RECYCLING (Continued) **1000366157**

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 - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 01/10/1990
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/23/1990
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 - 264.30-37.C
Area of violation: TSD - General
Date violation determined: 12/14/1987
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/24/1987
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

Regulation violated: FR - 262.30-34.C
Area of violation: Generators - General
Date violation determined: 12/14/1987
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 11/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 199850
Paid penalty amount: 199850

Regulation violated: FR - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 12/14/1987
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/24/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

GLENCORE RECYCLING (Continued) **1000366157**

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 12/14/1987
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/24/1992
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: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 12/14/1987
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/24/1992
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: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 12/14/1987
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 11/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 199850
Paid penalty amount: 199850

Regulation violated: FR - 264.30-37.C
Area of violation: TSD - General
Date violation determined: 12/14/1987
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 11/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

GLENCORE RECYCLING (Continued) **1000366157**

Proposed penalty amount: Not reported
Final penalty amount: 199850
Paid penalty amount: 199850

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 12/14/1987
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 11/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 199850
Paid penalty amount: 199850

Regulation violated: FR - 262.30-34.C
Area of violation: Generators - General
Date violation determined: 12/14/1987
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/24/1987
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

Regulation violated: FR - 262.30-34.C
Area of violation: Generators - General
Date violation determined: 12/14/1987
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/24/1992
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: FR - 270
Area of violation: TSD - General
Date violation determined: 12/14/1987
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 11/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

GLENCORE RECYCLING (Continued) **1000366157**

Final penalty amount: 199850
Paid penalty amount: 199850

Regulation violated: FR - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 12/14/1987
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 11/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 199850
Paid penalty amount: 199850

Regulation violated: FR - 264.30-37.C
Area of violation: TSD - General
Date violation determined: 12/14/1987
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/24/1992
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: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 12/14/1987
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/24/1992
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: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 12/14/1987
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/24/1987
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

GLENCORE RECYCLING (Continued) **1000366157**

Paid penalty amount: Not reported

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 12/14/1987
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/24/1987
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

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 12/14/1987
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/24/1992
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: FR - 270
Area of violation: TSD - General
Date violation determined: 12/14/1987
Date achieved compliance: 02/26/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/24/1987
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

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 07/14/1986
Date achieved compliance: 06/30/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/10/1987
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

GLENCORE RECYCLING (Continued) **1000366157**

Regulation violated:	FR - 262.10-12.A
Area of violation:	Generators - General
Date violation determined:	11/05/1985
Date achieved compliance:	06/30/1987
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	03/15/1986
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 - FEA
Area of violation:	Formal Enforcement Agreement or Order
Date violation determined:	11/05/1985
Date achieved compliance:	06/30/1987
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	03/15/1986
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:	03/21/1984
Date achieved compliance:	11/05/1985
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:	05/31/2016
Evaluation:	FINANCIAL RECORD REVIEW
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State

Evaluation date:	03/23/2016
Evaluation:	FOCUSED COMPLIANCE INSPECTION
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State

Evaluation date:	03/23/2016
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE

GLENCORE RECYCLING (Continued) **1000366157**

Area of violation: Generators - General
Date achieved compliance: 10/17/2016
Evaluation lead agency: State

Evaluation date: 03/23/2016
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Manifest/Records/Reporting
Date achieved compliance: 05/19/2016
Evaluation lead agency: State

Evaluation date: 06/04/2015
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/10/2015
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/24/2014
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/12/2013
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/10/2013
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/29/2012
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Universal Waste - Small Quantity Handlers
Date achieved compliance: 05/01/2012
Evaluation lead agency: EPA

Evaluation date: 02/29/2012
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Container Use and Management
Date achieved compliance: 05/01/2012
Evaluation lead agency: EPA

Evaluation date: 02/29/2012
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 05/01/2012
Evaluation lead agency: EPA

GLENCORE RECYCLING (Continued) **1000366157**

Evaluation date: 11/04/2011
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/21/2011
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Listing - Criteria
Date achieved compliance: 07/28/2011
Evaluation lead agency: State

Evaluation date: 06/21/2011
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Tank System Standards
Date achieved compliance: 07/28/2011
Evaluation lead agency: State

Evaluation date: 06/21/2011
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: State Statute or Regulation
Date achieved compliance: 07/28/2011
Evaluation lead agency: State

Evaluation date: 06/21/2011
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Container Use and Management
Date achieved compliance: 07/28/2011
Evaluation lead agency: State

Evaluation date: 06/21/2011
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Manifest/Records/Reporting
Date achieved compliance: 07/28/2011
Evaluation lead agency: State

Evaluation date: 04/13/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 05/13/2009
Evaluation lead agency: State

Evaluation date: 11/06/2008
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/30/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 10/16/2008
Evaluation lead agency: State

Evaluation date: 04/17/2008
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported

GLENCORE RECYCLING (Continued) **1000366157**

Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/05/2007
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 04/17/2008
Evaluation lead agency: State

Evaluation date: 07/05/2007
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/16/2007
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/16/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/26/2006
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 02/15/2005
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/27/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/24/2005
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/13/2004
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 11/25/2004
Evaluation lead agency: State

GLENCORE RECYCLING (Continued) **1000366157**

Evaluation date: 01/29/2004
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/10/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General Facility Standards
Date achieved compliance: 12/21/2000
Evaluation lead agency: State

Evaluation date: 07/27/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/14/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General Facility Standards
Date achieved compliance: 02/23/1999
Evaluation lead agency: State

Evaluation date: 11/19/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/04/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 11/13/1997
Evaluation lead agency: State

Evaluation date: 01/24/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 06/14/1994
Evaluation lead agency: State

Evaluation date: 01/24/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 06/14/1994
Evaluation lead agency: State

Evaluation date: 01/24/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 06/14/1994
Evaluation lead agency: State

Evaluation date: 02/18/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported

GLENCORE RECYCLING (Continued) **1000366157**

Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 11/29/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 02/26/1993
Evaluation lead agency: State

Evaluation date: 11/29/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 02/26/1993
Evaluation lead agency: State

Evaluation date: 11/29/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 02/26/1993
Evaluation lead agency: State

Evaluation date: 11/29/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 02/26/1993
Evaluation lead agency: State

Evaluation date: 10/08/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 02/26/1993
Evaluation lead agency: State

Evaluation date: 10/08/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 02/26/1993
Evaluation lead agency: State

Evaluation date: 07/14/1986
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 06/30/1987
Evaluation lead agency: State

Evaluation date: 11/05/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Formal Enforcement Agreement or Order
Date achieved compliance: 06/30/1987
Evaluation lead agency: State

Evaluation date: 11/05/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 06/30/1987
Evaluation lead agency: State

GLENCORE RECYCLING (Continued) **1000366157**

Evaluation date: 07/26/1984
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/21/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 11/05/1985
Evaluation lead agency: State

ENVIROSTOR:
Facility ID: 80001655
Status: No Further Action
Status Date: 10/08/1998
Site Code: 200265
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 0.01
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: WM
Program Manager: Not reported
Supervisor: Edward Nieto
Division Branch: Office of Permitting
Assembly: 27
Senate: 15
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.31136
Longitude: -121.8689
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD069124717
Alias Type: EPA Identification Number
Alias Name: 110016745940
Alias Type: EPA (FRS #)
Alias Name: 200265
Alias Type: Project Code (Site Code)
Alias Name: 80001655
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * CA Process is Terminated
Completed Date: 10/08/1998
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: INACTIVE DRUM STORAGE AREA
Completed Document Type: Remedy Selection and Statement of Basis

GLENCORE RECYCLING (Continued) **1000366157**

Completed Date: 06/14/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed
Completed Date: 09/30/2011
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: INACTIVE DRUM STORAGE AREA
Completed Document Type: Remedy Selection and Statement of Basis
Completed Date: 06/28/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Historical Operating Permit Authority
Completed Date: 05/17/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Historical Operating Permit Authority
Completed Date: 11/01/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled
Completed Date: 09/30/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 09/30/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 06/01/1993
Comments: The original RFA was completed in June 1993. Since that date, all corrective action has been completed.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: CONCRETE TANKS
Completed Document Type: RFI Workplan
Completed Date: 05/17/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measures Study Report
Completed Date: 08/18/1998
Comments: Not reported

GLENCORE RECYCLING (Continued) **1000366157**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	RFI Report
Completed Date:	06/14/1996
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	RCRA Facility Assessment Report
Completed Date:	06/01/1993
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

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	06/07/2016
Global Id:	T10000009004
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.31061
Longitude:	-121.86943
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	2189
File Location:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern:	Cyanide
Site History:	Micro Metallics operated as an electronic, scrap metal recycling center. On October 29, 1981, ponded rainwater was pumped from a processing area into an unpaved area. Upon realization that the discharged water contained cyanide, the Regional Water Quality Control Board was notified of the release. Micro Metallics took steps to conceptualize the lateral and vertical extent of the release and remediate contamination. In this process, 230 cubic yards of contaminated soil was removed in February and May of 1982. Monitoring wells were installed and sampled regularly showing a decline in contamination, below maximum contaminant levels. A new occupant is currently at the site, Xstrata, they conduct the same operations as the former Micro Metallics.

Click here to access the California GeoTracker records for this facility:

US FIN ASSUR:

EPA ID:	CAD069124717
Provider:	THE BANK OF NOVA SCOTIA

GLENCORE RECYCLING (Continued) **1000366157**

EPA region:	9
County:	Not reported
Mechanism type:	LETTER OF CREDIT
Mechanism ID:	9685380085
Cost estimate:	$530,000.00
Face value:	$530,000.00
Effective date:	2/10/2010

EPA ID:	CAD069124717
Provider:	CHUBB CUSTOM INS.
EPA region:	9
County:	Not reported
Mechanism type:	INSURANCE
Mechanism ID:	37312526
Cost estimate:	$2,000,000.00
Face value:	$2,000,000.00
Effective date:	4/21/2010

2020 COR ACTION:

EPA ID:	CAD069124717
Region:	9
Action:	Not reported

CUPA SANTA CLARA:

Region:	SANTA CLARA
PE#:	LQ06
Program Description:	GENERATES 5 TO <25 TONS/YR (RCRA LQG)
Latitude:	Not reported
Longitude:	Not reported

Region:	SANTA CLARA
PE#:	BP04
Program Description:	HMBP FACILITY, 10-15 CHEMICALS
Latitude:	Not reported
Longitude:	Not reported

EMI:

Year:	1990
County Code:	43
Air Basin:	SF
Facility ID:	1732
Air District Name:	BA
SIC Code:	3341
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:	2
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	43

GLENCORE RECYCLING (Continued) **1000366157**

Air Basin:	SF
Facility ID:	1732
Air District Name:	BA
SIC Code:	3341
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:	1
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1996
County Code:	43
Air Basin:	SF
Facility ID:	1732
Air District Name:	BA
SIC Code:	3341
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:	3
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	3
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1997
County Code:	43
Air Basin:	SF
Facility ID:	1732
Air District Name:	BA
SIC Code:	3341
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:	3
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	3
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1998
County Code:	43
Air Basin:	SF
Facility ID:	1732
Air District Name:	BA
SIC Code:	3314
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported

GLENCORE RECYCLING (Continued) **1000366157**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	8
Reactive Organic Gases Tons/Yr:	7
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1999
County Code:	43
Air Basin:	SF
Facility ID:	1732
Air District Name:	BA
SIC Code:	5093
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:	1
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2000
County Code:	43
Air Basin:	SF
Facility ID:	1732
Air District Name:	BA
SIC Code:	5093
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:	1
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2001
County Code:	43
Air Basin:	SF
Facility ID:	1732
Air District Name:	BA
SIC Code:	5093
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:	1
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0

GLENCORE RECYCLING (Continued) **1000366157**

Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 2002
County Code: 43
Air Basin: SF
Facility ID: 1732
Air District Name: BA
SIC Code: 5093
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: 1
NOX - Oxides of Nitrogen Tons/Yr: 1
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 2003
County Code: 43
Air Basin: SF
Facility ID: 1732
Air District Name: BA
SIC Code: 5093
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
Reactive Organic Gases Tons/Yr: 4
Carbon Monoxide Emissions Tons/Yr: 1
NOX - Oxides of Nitrogen Tons/Yr: 1
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 2004
County Code: 43
Air Basin: SF
Facility ID: 1732
Air District Name: BA
SIC Code: 5093
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: 4.745
Reactive Organic Gases Tons/Yr: 4.041579
Carbon Monoxide Emissions Tons/Yr: 1.129
NOX - Oxides of Nitrogen Tons/Yr: 0.609
SOX - Oxides of Sulphur Tons/Yr: 0.006
Particulate Matter Tons/Yr: 0.04
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0.028

Year: 2005
County Code: 43
Air Basin: SF

GLENCORE RECYCLING (Continued) **1000366157**

Facility ID:	1732
Air District Name:	BA
SIC Code:	5093
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:	.325
Reactive Organic Gases Tons/Yr:	.3011644
Carbon Monoxide Emissions Tons/Yr:	1.23
NOX - Oxides of Nitrogen Tons/Yr:	.592
SOX - Oxides of Sulphur Tons/Yr:	.005
Particulate Matter Tons/Yr:	.044
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.0308

Year:	2006
County Code:	43
Air Basin:	SF
Facility ID:	18627
Air District Name:	BA
SIC Code:	5093
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:	8.185
Reactive Organic Gases Tons/Yr:	6.962055
Carbon Monoxide Emissions Tons/Yr:	1.324
NOX - Oxides of Nitrogen Tons/Yr:	.609
SOX - Oxides of Sulphur Tons/Yr:	.006
Particulate Matter Tons/Yr:	.048
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.0336

Year:	2007
County Code:	43
Air Basin:	SF
Facility ID:	18627
Air District Name:	BA
SIC Code:	5093
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:	8.222
Reactive Organic Gases Tons/Yr:	6.9806062
Carbon Monoxide Emissions Tons/Yr:	1.51
NOX - Oxides of Nitrogen Tons/Yr:	1.381
SOX - Oxides of Sulphur Tons/Yr:	.011
Particulate Matter Tons/Yr:	.05
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.035

Year:	2008
County Code:	43
Air Basin:	SF
Facility ID:	18627
Air District Name:	BA
SIC Code:	5093
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported

GLENCORE RECYCLING (Continued) **1000366157**

Total Organic Hydrocarbon Gases Tons/Yr:	8.289
Reactive Organic Gases Tons/Yr:	7.0457323
Carbon Monoxide Emissions Tons/Yr:	1.806
NOX - Oxides of Nitrogen Tons/Yr:	1.432
SOX - Oxides of Sulphur Tons/Yr:	.01
Particulate Matter Tons/Yr:	.064
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.0448

Year:	2009
County Code:	43
Air Basin:	SF
Facility ID:	18627
Air District Name:	BA
SIC Code:	5093
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:	8.2949999999999999
Reactive Organic Gases Tons/Yr:	7.0512158999999999
Carbon Monoxide Emissions Tons/Yr:	1.835
NOX - Oxides of Nitrogen Tons/Yr:	1.45
SOX - Oxides of Sulphur Tons/Yr:	0.01
Particulate Matter Tons/Yr:	6.6000000000000003E-2
Part. Matter 10 Micrometers and Smllr Tons/Yr:	4.6199999999999998E-2

Year:	2010
County Code:	43
Air Basin:	SF
Facility ID:	18627
Air District Name:	BA
SIC Code:	5093
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:	8.2750000000000004
Reactive Organic Gases Tons/Yr:	7.0219643999999999
Carbon Monoxide Emissions Tons/Yr:	1.7330000000000001
NOX - Oxides of Nitrogen Tons/Yr:	1.845
SOX - Oxides of Sulphur Tons/Yr:	0.012
Particulate Matter Tons/Yr:	8.2857142857142796E-2
Part. Matter 10 Micrometers and Smllr Tons/Yr:	5.8000000000000003E-2

Year:	2011
County Code:	43
Air Basin:	SF
Facility ID:	18627
Air District Name:	BA
SIC Code:	5093
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:	8.353
Reactive Organic Gases Tons/Yr:	7.0493891
Carbon Monoxide Emissions Tons/Yr:	2.133
NOX - Oxides of Nitrogen Tons/Yr:	1.704
SOX - Oxides of Sulphur Tons/Yr:	0.015
Particulate Matter Tons/Yr:	0

GLENCORE RECYCLING (Continued) **1000366157**

Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year:	2012
County Code:	43
Air Basin:	SF
Facility ID:	18627
Air District Name:	BA
SIC Code:	5093
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:	8.353
Reactive Organic Gases Tons/Yr:	7.0493891
Carbon Monoxide Emissions Tons/Yr:	2.134
NOX - Oxides of Nitrogen Tons/Yr:	1.661
SOX - Oxides of Sulphur Tons/Yr:	0.015
Particulate Matter Tons/Yr:	0.08873015873
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.079

Year:	2013
County Code:	43
Air Basin:	SF
Facility ID:	18627
Air District Name:	BA
SIC Code:	5093
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:	8.382
Reactive Organic Gases Tons/Yr:	7.0773724
Carbon Monoxide Emissions Tons/Yr:	2.275
NOX - Oxides of Nitrogen Tons/Yr:	1.427
SOX - Oxides of Sulphur Tons/Yr:	0.014
Particulate Matter Tons/Yr:	0.135
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.084

Year:	2014
County Code:	43
Air Basin:	SF
Facility ID:	18627
Air District Name:	BA
SIC Code:	5093
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:	8.42606812
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	2.492578821
NOX - Oxides of Nitrogen Tons/Yr:	1.597395478
SOX - Oxides of Sulphur Tons/Yr:	0.015486603
Particulate Matter Tons/Yr:	0.148245862
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.093987696

Year:	2015
County Code:	43
Air Basin:	SF
Facility ID:	18627

GLENCORE RECYCLING (Continued) **1000366157**

Air District Name:	BA
SIC Code:	5093
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:	8.452411916
Reactive Organic Gases Tons/Yr:	8.441626137
Carbon Monoxide Emissions Tons/Yr:	2.623685292
NOX - Oxides of Nitrogen Tons/Yr:	1.40980897
SOX - Oxides of Sulphur Tons/Yr:	0.015216333
Particulate Matter Tons/Yr:	0.156216687
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.099031116

CA Financial Assurance 1:

EPA ID Number:	CAD069124717
Sudden Amount1:	$2,000,000.00
Non Sudden Amount1:	Not reported
Closure Mechanism:	LOC
Closure Amount:	$600,000.00
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 and M Mechanism Type:	Not reported
O and M Amount:	Not reported

ICE:

Envirostor ID:	3000043
EPA ID:	CAD069124717
Site Type:	INSPECTION
Facility Status:	No Action

Enforcement:

Action Type:	Final Administrative Settlement (310)
Action Date:	03/23/2009
Action Type:	Enforcement Order Issued (210)
Action Date:	06/13/2008

Inspection:

Action Type:	Financial Records Review - Treatment, Storage and Disposal
Action Date:	09/13/2004
Violation Class:	Class 2
RTC Date:	11/25/2004
Action Type:	Compliance Evaluation Inspection - Standardized Permit
Action Date:	07/27/1999
Violation Class:	No Violations
RTC Date:	Not reported
Action Type:	Compliance Evaluation Inspection - Standardized Permit
Action Date:	01/27/2005

GLENCORE RECYCLING (Continued) **1000366157**

Violation Class: No Violations
RTC Date: Not reported

Action Type: Focused Compliance Inspection - Universal Waste Electronics Recycler
Action Date: 01/24/2005
Violation Class: No Violations
RTC Date: Not reported

Action Type: Focused Compliance Inspection - Universal Waste Electronics Recycler
Action Date: 05/16/2007
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Standardized Permit
Action Date: 06/21/2011
Violation Class: Minor
RTC Date: 07/28/2011

Action Type: Compliance Evaluation Inspection - Standardized Permit
Action Date: 01/14/1999
Violation Class: Minor
RTC Date: 02/23/1999

Action Type: Focused Compliance Inspection - Universal Waste Electronics Recycler
Action Date: 01/29/2004
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Standardized Permit
Action Date: 10/10/2000
Violation Class: Class 2
RTC Date: 12/21/2000

Action Type: Focused Compliance Inspection - Universal Waste Electronics Recycler
Action Date: 06/21/2011
Violation Class: Class 2, Minor
RTC Date: 07/28/2011

Action Type: Financial Records Review - Standardized Permit
Action Date: 11/04/2011
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Standardized Permit
Action Date: 12/12/2013
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Universal Waste Electronics Recycler
Action Date: 04/10/2013
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Standardized Permit
Action Date: 02/24/2014
Violation Class: No Violations
RTC Date: Not reported

GLENCORE RECYCLING (Continued) **1000366157**

Action Type: Financial Records Review - Universal Waste Electronics Recycler
Action Date: 06/04/2015
Violation Class: No Violations
RTC Date: Not reported

Action Type: Focused Compliance Inspection - Universal Waste Electronics Recycler
Action Date: 03/10/2015
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Standardized Permit
Action Date: 05/31/2016
Violation Class: No Violations
RTC Date: Not reported

Action Type: Focused Compliance Inspection - Universal Waste Electronics Recycler
Action Date: 03/23/2016
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Standardized Permit
Action Date: 03/23/2016
Violation Class: Class 2
RTC Date: 10/17/2016

Action Type: Compliance Evaluation Inspection - Standardized Permit
Action Date: 09/30/2008
Violation Class: Minor
RTC Date: 10/16/2008

Action Type: Financial Records Review - Standardized Permit
Action Date: 11/06/2008
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Universal Waste Electronics Recycler
Action Date: 07/05/2007
Violation Class: Class 1
RTC Date: 04/17/2008

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 05/16/2007
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Standardized Permit
Action Date: 02/15/2005
Violation Class: No Violations
RTC Date: Not reported

WI MANIFEST:
Year: 2005
EPA ID: CAD069124717
FID: 0
ACT Code: 209
ACT Status: A

GLENCORE RECYCLING (Continued) **1000366157**

ACT Code 1:	209
ACT Name:	HW TSD (Out-of-State)
Contact Title:	ENV MGR
Contact Name:	Not reported
Contact Address:	1695 MONTEREY HWY
Contact City/State/Zip:	SAN JOSE, CA 95112
Contact Telephone:	4089984930
Contact EMail Address:	Not reported

NPDES:

Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	2
Regulatory Measure Id:	183836
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	2 43I006535
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:	Xstrata Recycling Inc
Discharge Address:	1695 Monterey Hwy
Discharge City:	San Jose
Discharge State:	California
Discharge Zip:	95112
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported

GLENCORE RECYCLING (Continued) **1000366157**

DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	2
Regulatory Measure Id:	183836
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	2 43I006535
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	4/27/1992
STATUS CODE NAME:	Active
STATUS DATE:	4/27/1992
PLACE SIZE:	2
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Joy AustinLane
FACILITY CONTACT TITLE:	Not reported

GLENCORE RECYCLING (Continued) **1000366157**

FACILITY CONTACT PHONE:	408-998-4930
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	joy.austin-lane@glencore.us
OPERATOR NAME:	Xstrata Recycling Inc
OPERATOR ADDRESS:	1695 Monterey Hwy
OPERATOR CITY:	San Jose
OPERATOR STATE:	California
OPERATOR ZIP:	95112
OPERATOR CONTACT NAME:	Joy AustinLane
OPERATOR CONTACT TITLE:	EHS Coordinator
OPERATOR CONTACT PHONE:	408-998-4930
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	joy.austin-lane@glencore.us
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	408-998-4930
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	N
RECEIVING WATER NAME:	Guadalupe River
CERTIFIER NAME:	Mark TenBrink
CERTIFIER TITLE:	General Manager
CERTIFICATION DATE:	10-APR-15
PRIMARY SIC:	5093-Scrap and Waste Materials
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

72
SE
1/2-1
0.778 mi.
4106 ft.

Relative:
Higher

Actual:
133 ft.

VIASYSTEMS TECHNOLOGIES CORP LLC
335 TURTLE CREEK COURT
SAN JOSE, CA 95125

RCRA-LQG **1000141855**
CA ENVIROSTOR **CAT080013584**
ICIS
FINDS
ECHO
CA CUPA Listings
CA EMI
CA SAN JOSE HAZMAT

RCRA-LQG:

Date form received by agency:	03/01/2016
Facility name:	VIASYSTEMS TECHNOLOGIES CORP., LLC
Facility address:	335 TURTLE CREEK COURT SAN JOSE, CA 95125
EPA ID:	CAT080013584
Mailing address:	TURTLE CREEK COURT SAN JOSE, CA 95125
Contact:	SONIA TENA-KELLINS
Contact address:	TURTLE CREEK COURT SAN JOSE, CA 95125
Contact country:	US
Contact telephone:	(408) 938-7287
Contact email:	SONIA.TENA.KELLINS@TTM.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:	JAMES RANDO
Owner/operator address:	STONE AVENUE #1 SAN JOSE, CA 95126
Owner/operator country:	US
Owner/operator telephone:	(408) 293-4717
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/2015
Owner/Op end date:	Not reported
Owner/operator name:	VIASYSTEMS TECHNOLOGIES CORP., LLC
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:	03/02/1998
Owner/Op end date:	Not reported

VIASYSTEMS TECHNOLOGIES CORP LLC (Continued) **1000141855**

Owner/operator name: DEAN-SCHOBORG
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

. Waste code: 132
. Waste name: 132

. Waste code: 171
. Waste name: 171

. Waste code: 181
. Waste name: 181

. Waste code: 214
. Waste name: 214

. Waste code: 221
. Waste name: 221

. Waste code: 331
. Waste name: 331

. Waste code: 352
. Waste name: 352

. Waste code: 792
. Waste name: 792

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

VIASYSTEMS TECHNOLOGIES CORP LLC (Continued) **1000141855**

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D008
. Waste name: LEAD

. 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 NONHALOGENATED 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 NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED 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 NONHALOGENATED 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 NONHALOGENATED 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.

Historical Generators:
Date form received by agency: 06/03/2015
Site name: VIASYSTEMS TECHNOLOGIES CORPORATION LLC
Classification: Large Quantity Generator

. Waste code: 132
. Waste name: 132

. Waste code: 171
. Waste name: 171

. Waste code: 221

VIASYSTEMS TECHNOLOGIES CORP LLC (Continued) **1000141855**

. Waste name: 221

. Waste code: 331
. Waste name: 331

. Waste code: 352
. Waste name: 352

. Waste code: 792
. Waste name: 792

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D008
. Waste name: LEAD

. 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.

Date form received by agency: 03/01/2014
Site name: VIASYSTEMS CORPORATION
Classification: Large Quantity Generator

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D011
. Waste name: SILVER

. 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

VIASYSTEMS TECHNOLOGIES CORP LLC (Continued) **1000141855**

PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 05/27/2010
Site name: MERIX - SAN JOSE
Classification: Large Quantity Generator

. Waste code: 132
. Waste name: 132

. Waste code: 171
. Waste name: 171

. Waste code: 181
. Waste name: 181

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. 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.

Date form received by agency: 02/20/2008
Site name: MERIX SAN JOSE DBA DATE CIRCUIT SYSTEMS
Classification: Large Quantity Generator

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: F006

VIASYSTEMS TECHNOLOGIES CORP LLC (Continued) **1000141855**

. 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: F008
. Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Date form received by agency: 02/27/2006
Site name: DATA CIRCUIT SYSTEMS
Classification: Large Quantity Generator

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D008
. Waste name: LEAD

. 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.

Date form received by agency: 01/22/2004
Site name: DATA CIRCUIT SYSTEMS INC
Classification: Not a generator, verified

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D008
. Waste name: LEAD

. 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.

Date form received by agency: 10/12/2000
Site name: DATA CIRCUIT SYSTEMS
Classification: Large Quantity Generator

VIASYSTEMS TECHNOLOGIES CORP LLC (Continued) **1000141855**

Date form received by agency: 04/15/1999
Site name: DATA CIRCUIT SYSTEMS
Classification: Large Quantity Generator

Date form received by agency: 01/29/1998
Site name: DATA CIRCUIT SYSTS
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: DATA CIRCUIT SYSTS
Classification: Large Quantity Generator

Date form received by agency: 02/08/1996
Site name: DATA CIRCUIT SYSTEMS
Classification: Large Quantity Generator

Date form received by agency: 03/10/1994
Site name: DATA CIRCUIT SYSTEMS INC
Classification: Large Quantity Generator

Date form received by agency: 02/27/1992
Site name: DATA CIRCUIT SYSTEMS, INC.
Classification: Large Quantity Generator

Date form received by agency: 09/04/1990
Site name: DATA-CIRCUIT-SYSTEMS
Classification: Large Quantity Generator

Date form received by agency: 12/02/1980
Site name: DATA CIRCUIT SYSTS
Classification: Large Quantity Generator

Date form received by agency: 12/02/1980
Site name: DATA CIRCUIT SYSTS
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 06/09/2004
Date achieved compliance: 07/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/09/2004
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 - 262.41
Area of violation: Generators - Records/Reporting
Date violation determined: 01/07/2004
Date achieved compliance: 02/24/2004
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE

VIASYSTEMS TECHNOLOGIES CORP LLC (Continued) **1000141855**

Enforcement action date: 02/24/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.41
Area of violation: Generators - Records/Reporting
Date violation determined: 01/07/2004
Date achieved compliance: 02/24/2004
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 02/24/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
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: 04/04/1995
Date achieved compliance: 04/04/2000
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: 10/05/1993
Date achieved compliance: 11/09/1993
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: 06/09/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 07/20/2004
Evaluation lead agency: State Contractor/Grantee

VIASYSTEMS TECHNOLOGIES CORP LLC (Continued) **1000141855**

Evaluation date: 02/24/2004
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 01/07/2004
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - Records/Reporting
Date achieved compliance: 02/24/2004
Evaluation lead agency: EPA

Evaluation date: 01/07/2004
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 04/04/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/04/2000
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 10/05/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 11/09/1993
Evaluation lead agency: State Contractor/Grantee

ENVIROSTOR:
Facility ID: 71003531
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: 27
Senate: 15
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.30310
Longitude: -121.8744
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAT080013584

VIASYSTEMS TECHNOLOGIES CORP LLC (Continued) **1000141855**

Alias Type: EPA Identification Number
Alias Name: 110000770906
Alias Type: EPA (FRS #)
Alias Name: 71003531
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

ICIS:
Enforcement Action ID: 09-2004-0045
FRS ID: 110000770906
Action Name: Data Circuit Systems
Facility Name: VIASYSTEMS TECHNOLOGIES CORP LLC
Facility Address: 335 TURTLE CREEK COURT
SAN JOSE, CA 95125-1316
Enforcement Action Type: RCRA 3008A AO For Comp And/Or Penalty - Subtitle C Expedited Settlement Program
Facility County: SANTA CLARA
Program System Acronym: RCRAINFO
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 3008AE
Facility SIC Code: Not reported
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.30276
Longitude in Decimal Degrees: -121.87427
Permit Type Desc: Not reported
Program System Acronym: CAT080013584
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Facility Name: VIASYSTEMS CORP
Address: 335 TURTLE CREEK COURT
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: VIASYSTEMS CORP
Address: 335 TURTLE CREEK COURT
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported

VIASYSTEMS TECHNOLOGIES CORP LLC (Continued) **1000141855**

SIC Code: Not reported

Facility Name: VIASYSTEMS CORP
Address: 335 TURTLE CREEK COURT
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: VIASYSTEMS CORP
Address: 335 TURTLE CREEK COURT
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: VIASYSTEMS CORP
Address: 335 TURTLE CREEK COURT
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: VIASYSTEMS CORP
Address: 335 TURTLE CREEK COURT
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: VIASYSTEMS CORP
Address: 335 TURTLE CREEK COURT
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: VIASYSTEMS CORP
Address: 335 TURTLE CREEK COURT
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: VIASYSTEMS CORP
Address: 335 TURTLE CREEK COURT
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: VIASYSTEMS CORP
Address: 335 TURTLE CREEK COURT
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

VIASYSTEMS TECHNOLOGIES CORP LLC (Continued) **1000141855**

FINDS:

Registry ID: 110000770906

Environmental Interest/Information System
TSCA SUBMITTER

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.

HAZARDOUS AIR POLLUTANT MAJOR

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

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000141855
Registry ID: 110000770906
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110000770906

CUPA SANTA CLARA:
Region: SANTA CLARA
PE#: LQ08
Program Description: GENERATES 50 TO <250 TONS/YR (RCRA LQG)
Latitude: 37.303054
Longitude: -121.874478

Region: SANTA CLARA
PE#: 2261
Program Description: PERMIT BY RULE (PBR)
Latitude: 37.303054
Longitude: -121.874478

Region: SANTA CLARA
PE#: 2261
Program Description: PERMIT BY RULE (PBR)
Latitude: 37.303054

VIASYSTEMS TECHNOLOGIES CORP LLC (Continued) **1000141855**

Longitude:	-121.874478
Region:	SANTA CLARA
PE#:	BP06
Program Description:	HMBP FACILITY, 22+ CHEMICALS
Latitude:	37.303054
Longitude:	-121.874478

EMI:

Year:	2012
County Code:	43
Air Basin:	SF
Facility ID:	1163
Air District Name:	BA
SIC Code:	3672
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:	8.807
Reactive Organic Gases Tons/Yr:	7.7098066
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 and Smllr Tons/Yr:	0

Year:	2013
County Code:	43
Air Basin:	SF
Facility ID:	1163
Air District Name:	BA
SIC Code:	3672
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:	7.715
Reactive Organic Gases Tons/Yr:	6.8440767
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 and Smllr Tons/Yr:	0

Year:	2014
County Code:	43
Air Basin:	SF
Facility ID:	1163
Air District Name:	BA
SIC Code:	3672
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:	13.5145644
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	9.7042e-005
NOX - Oxides of Nitrogen Tons/Yr:	5.082e-006
SOX - Oxides of Sulphur Tons/Yr:	7e-009

VIASYSTEMS TECHNOLOGIES CORP LLC (Continued) **1000141855**

Particulate Matter Tons/Yr:	1.2e-007
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.2e-007

Year:	2015
County Code:	43
Air Basin:	SF
Facility ID:	1163
Air District Name:	BA
SIC Code:	3672
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:	17.072491671
Reactive Organic Gases Tons/Yr:	17.068465876
Carbon Monoxide Emissions Tons/Yr:	0.0238504
NOX - Oxides of Nitrogen Tons/Yr:	0.00124894
SOX - Oxides of Sulphur Tons/Yr:	1.676e-006
Particulate Matter Tons/Yr:	2.9493e-005
Part. Matter 10 Micrometers and Smllr Tons/Yr:	2.9493e-005

SAN JOSE HAZMAT:

Region:	SAN JOSE
File Num:	405886
Class:	Metal Plating and Fabrication

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73 West 1/2-1 0.934 mi. 4929 ft. | **RIVER GLEN K-8 AT BROADWAY CENTER**
1088 BROADWAY AVENUE
SAN JOSE, CA 95125 | **CA ENVIROSTOR** **S118756961**
CA SCH **N/A**

Relative: Higher

Actual: 120 ft.

ENVIROSTOR:

Facility ID:	43820005
Status:	No Action Required
Status Date:	06/19/2000
Site Code:	204038
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	4.6
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Charles Ridenour
Division Branch:	Northern California Schools & Santa Susana
Assembly:	28
Senate:	15
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	37.311
Longitude:	-121.9012
APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	NONE SPECIFIED

RIVER GLEN K-8 AT BROADWAY CENTER (Continued) **S118756961**

Potential Description: NMA
Alias Name: RIVER GLEN K-8 AT BROADWAY CENTER
Alias Type: Alternate Name
Alias Name: SAN JOSE UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: SAN JOSE USD-RIVER GLEN K-8 @ BRDWY/CDE
Alias Type: Alternate Name
Alias Name: 204038
Alias Type: Project Code (Site Code)
Alias Name: 43820005
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/30/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 07/13/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 07/14/2000
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

SCH:

Facility ID: 43820005
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 4.6
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Charles Ridenour
Division Branch: Northern California Schools & Santa Susana
Site Code: 204038
Assembly: 28

RIVER GLEN K-8 AT BROADWAY CENTER (Continued) **S118756961**

Senate:	15
Special Program Status:	Not reported
Status:	No Action Required
Status Date:	06/19/2000
Restricted Use:	NO
Funding:	School District
Latitude:	37.311
Longitude:	-121.9012
APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	NONE SPECIFIED, No Contaminants found
Confirmed COC:	NONE SPECIFIED
Potential Description:	NMA
Alias Name:	RIVER GLEN K-8 AT BROADWAY CENTER
Alias Type:	Alternate Name
Alias Name:	SAN JOSE UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	SAN JOSE USD-RIVER GLEN K-8 @ BRDWY/CDE
Alias Type:	Alternate Name
Alias Name:	204038
Alias Type:	Project Code (Site Code)
Alias Name:	43820005
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	01/30/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	07/13/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	07/14/2000
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

74 ESE 1/2-1 0.972 mi. 5133 ft.

PEPPER LANE
1931 MONTEREY HWY
SAN JOSE, CA 95112

CA RESPONSE
CA ENVIROSTOR
CA LUST
CA HIST LUST
CA HIST CORTESE

S104541920
N/A

Relative: Lower

Actual: 113 ft.

RESPONSE:

Facility ID:	43200020
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	24.869
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Site Code:	201243
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	27
Senate:	15
Special Program Status:	Prospective Purchaser Program
Status:	No Further Action
Status Date:	08/08/2000
Restricted Use:	NO
Funding:	Responsible Party
Latitude:	37.30722
Longitude:	-121.8652
APN:	455 04 011
Past Use:	MANUFACTURING - CHEMICALS
Potential COC :	Asbestos Containing Materials (ACM Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs
Confirmed COC:	Asbestos Containing Materials (ACM Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs
Potential Description:	SOIL
Alias Name:	PEPPER LANE
Alias Type:	Alternate Name
Alias Name:	Stauffer Chemicals
Alias Type:	Alternate Name
Alias Name:	455 04 011
Alias Type:	APN
Alias Name:	110033610536
Alias Type:	EPA (FRS #)
Alias Name:	201243
Alias Type:	Project Code (Site Code)
Alias Name:	43200020
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	10/15/1999
Comments:	Agreement signed with Opus West for review of existing documents and a workplan for remedial activities.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Consultation
Completed Date:	08/02/2000

PEPPER LANE (Continued) **S104541920**

Comments: Only received one comment during the comment period for the PPA from Stauffer management Company indicating that they uprchased the proeprty in 1973 and sold the property "as is" to Regency Monarch Development Corporation in 1985. Regency Monarch is obligated to idemnify Stauffer for any claims relating to environmental probvlems or hazardous materials. Stauffer and its successor corporations reserve their rights to contest any liability connected to the Site. DTSC did ot receive any other comments which would cause the agreement to be amended. Therefore, with this clarification, DTSC considers the PPA final.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Prospective Purchaser Agreement
Completed Date: 05/30/2000
Comments: Signed PPA with 1931 Monterey, L.L.C. that provided for cleanup of the property to unrestricted land use standards.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/30/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/16/2008
Comments: No Further Action required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 12/23/2004
Comments: DTSC staff researched, inspected and wrote report to document that existing site conditions conform to the land use conditions of the Prospectlve Purchaser Agreement.

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: 43200020
Status: No Further Action
Status Date: 08/08/2000
Site Code: 201243
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 24.869
NPL: NO

PEPPER LANE (Continued) **S104541920**

Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Assembly: 27
Senate: 15
Special Program: Prospective Purchaser Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.30722
Longitude: -121.8652
APN: 455 04 011
Past Use: MANUFACTURING - CHEMICALS
Potential COC: Asbestos Containing Materials (ACM Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs
Confirmed COC: Asbestos Containing Materials (ACM Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs
Potential Description: SOIL
Alias Name: PEPPER LANE
Alias Type: Alternate Name
Alias Name: Stauffer Chemicals
Alias Type: Alternate Name
Alias Name: 455 04 011
Alias Type: APN
Alias Name: 110033610536
Alias Type: EPA (FRS #)
Alias Name: 201243
Alias Type: Project Code (Site Code)
Alias Name: 43200020
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 10/15/1999
Comments: Agreement signed with Opus West for review of existing documents and a workplan for remedial activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Consultation
Completed Date: 08/02/2000
Comments: Only received one comment during the comment period for the PPA from Stauffer management Company indicating that they uprchased the proeprty in 1973 and sold the property "as is" to Regency Monarch Development Corporation in 1985. Regency Monarch is obligated to idemnify Stauffer for any claims relating to environmental probvlems or hazardous materials. Stauffer and its successor corporations reserve their rights to contest any liability connected to the Site. DTSC did ot receive any other comments which would cause the agreement to be amended. Therefore, with this clarification, DTSC considers the PPA final.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

PEPPER LANE (Continued) **S104541920**

Completed Document Type: Prospective Purchaser Agreement
Completed Date: 05/30/2000
Comments: Signed PPA with 1931 Monterey, L.L.C. that provided for cleanup of the property to unrestricted land use standards.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/30/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/16/2008
Comments: No Further Action required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 12/23/2004
Comments: DTSC staff researched, inspected and wrote report to document that existing site conditions conform to the land use conditions of the Prospectlve Purchaser Agreement.

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

LUST:
Region: STATE
Global Id: T0608501374
Latitude: 37.307608
Longitude: -121.864283
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 02/18/1992
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker: UUU
Local Agency: SANTA CLARA COUNTY LOP
RB Case Number: 43-1399
LOC Case Number: Not reported
File Location: Not reported
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: T0608501374

PEPPER LANE (Continued) **S104541920**

Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0608501374
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

Status History:
Global Id: T0608501374
Status: Completed - Case Closed
Status Date: 02/18/1992

Global Id: T0608501374
Status: Open - Case Begin Date
Status Date: 02/18/1985

Regulatory Activities:
Global Id: T0608501374
Action Type: RESPONSE
Date: 01/30/1985
Action: Correspondence

Global Id: T0608501374
Action Type: RESPONSE
Date: 02/08/1985
Action: Correspondence

Global Id: T0608501374
Action Type: RESPONSE
Date: 01/22/1985
Action: Unauthorized Release Form

Global Id: T0608501374
Action Type: RESPONSE
Date: 01/17/1985
Action: Other Report / Document

Global Id: T0608501374
Action Type: RESPONSE
Date: 06/10/1988
Action: Correspondence

Global Id: T0608501374
Action Type: RESPONSE
Date: 04/04/1985
Action: Correspondence

PEPPER LANE (Continued) **S104541920**

Global Id: T0608501374
Action Type: RESPONSE
Date: 05/20/2004
Action: Verbal Communication

Global Id: T0608501374
Action Type: Other
Date: 02/18/1985
Action: Leak Stopped

Global Id: T0608501374
Action Type: Other
Date: 02/18/1985
Action: Leak Reported

Global Id: T0608501374
Action Type: Other
Date: 02/18/1985
Action: Leak Discovery

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 07S1E21K01f
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

Region: 2
Facility Id: 43-1399
Facility Status: Case Closed
Case Number: 43-1399
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
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

LUST SANTA CLARA:
Region: SANTA CLARA

PEPPER LANE (Continued) **S104541920**

SCVWD ID: 07S1E21K01F
Date Closed: 01/01/1985
EDR Link ID: 07S1E21K01F

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 07S1E21K01
Oversite Agency: SCVWD
Date Listed: 1988-07-08 00:00:00
Closed Date: 1985-01-01 00:00:00

HIST CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-1399

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SAN JOSE	1003878546	PACIFIC AIRMOTIVE	SAN JOSE ARPT	95110	SEMS-ARCHIVE

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: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/16/2017
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: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/16/2017
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
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

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: 04/05/2017	Source: EPA
Date Data Arrived at EDR: 04/21/2017	Telephone: N/A
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 07/07/2017
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/16/2017
	Data Release Frequency: Quarterly

Federal CERCLIS list

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: 11/07/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/05/2017	Telephone: 703-603-8704
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 07/07/2017
Number of Days to Update: 92	Next Scheduled EDR Contact: 10/16/2017
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list 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). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/07/2017	Source: EPA
Date Data Arrived at EDR: 04/19/2017	Telephone: 800-424-9346
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 07/21/2017
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/30/2017
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS 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 the 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. The 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 potential NPL site.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/28/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/11/2017
Next Scheduled EDR Contact: 10/09/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 08/11/2017
Next Scheduled EDR Contact: 10/09/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 08/11/2017
Next Scheduled EDR Contact: 10/09/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 08/11/2017
Next Scheduled EDR Contact: 10/09/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 08/11/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

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: 12/28/2016
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 93

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/10/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Varies

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: 02/13/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 101

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 02/13/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 101

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/28/2017
Next Scheduled EDR Contact: 10/09/2017
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: 07/31/2017
Date Data Arrived at EDR: 08/01/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 14

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/01/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes 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: 07/31/2017
Date Data Arrived at EDR: 08/01/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 14

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/01/2017
Next Scheduled EDR Contact: 11/13/2017
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 inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 76

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

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
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

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
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
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
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
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
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

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
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
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
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
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
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
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
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 Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
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
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
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.

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

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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
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: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/28/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Semi-Annually

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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
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: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Quarterly

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: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Quarterly

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: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
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: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
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: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
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.

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.

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

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/14/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/12/2017
Date Data Arrived at EDR: 03/16/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 57

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
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: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 06/21/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Quarterly

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: 01/14/2017
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

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: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Quarterly

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: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
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: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/28/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Semi-Annually

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: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Semi-Annually

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: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

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: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Quarterly

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: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/27/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
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: 07/31/2017
Date Data Arrived at EDR: 08/01/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 14

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/01/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 01/03/2017
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 57

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/28/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Varies

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: 03/02/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/20/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

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: 08/03/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 05/30/2017
Date Data Arrived at EDR: 05/31/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 76

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/10/2017
Next Scheduled EDR Contact: 11/27/2017
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: 08/01/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Varies

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: 07/24/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: No Update Planned

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

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 08/10/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/09/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 93

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: No Update Planned

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
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
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: 07/31/2017
Date Data Arrived at EDR: 08/01/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 14

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/01/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Quarterly

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: 12/31/2016
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 54

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 08/14/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Varies

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
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

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: 02/09/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 93

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

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
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
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: 03/09/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 67

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
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
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 45

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

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.

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: 07/26/2017
Next Scheduled EDR Contact: 11/08/2017
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: 06/05/2017
Date Data Arrived at EDR: 06/06/2017
Date Made Active in Reports: 08/10/2017
Number of Days to Update: 65

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 06/06/2017
Next Scheduled EDR Contact: 09/18/2017
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: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 37

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/28/2017
Next Scheduled EDR Contact: 10/09/2017
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: 12/06/2016
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 105

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/26/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
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
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 08/11/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Varies

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.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/24/2017
Next Scheduled EDR Contact: 06/05/2017
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
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/12/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Semi-Annually

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: 07/14/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: N/A

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: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/19/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Varies

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: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 08/11/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Quarterly

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
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 08/07/2017
Next Scheduled EDR Contact: 11/20/2017
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: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Varies

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.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/21/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: Every 4 Years

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: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/26/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Annually

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.

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: 07/28/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Annually

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: 06/09/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Annually

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: 02/01/2017
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/24/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

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
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 08/08/2017
Next Scheduled EDR Contact: 11/20/2017
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: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
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: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 07/28/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Quarterly

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: 05/19/2017
Next Scheduled EDR Contact: 09/04/2017
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: 05/19/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

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: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 08/01/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant 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: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
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: 07/28/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

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: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/12/2017
Next Scheduled EDR Contact: 10/16/2017
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

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/01/2017
Next Scheduled EDR Contact: 11/13/2017
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: 09/30/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 77

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/21/2017
Next Scheduled EDR Contact: 10/09/2017
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: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/26/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Biennially

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: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/11/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Varies

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: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 12/05/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 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
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 08/11/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 08/11/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Annually

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: 02/08/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 38

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 21

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
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: 04/04/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 35

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/19/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 07/17/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 79

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

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
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 64

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/28/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Quarterly

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: 03/09/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 42

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 07/13/2017
Next Scheduled EDR Contact: 09/18/2017
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: 12/31/2015
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 147

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/23/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: Varies

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: 05/01/2017
Date Data Arrived at EDR: 05/03/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 104

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 06/05/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 67

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 10/30/2017
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: 05/16/2017
Date Data Arrived at EDR: 05/19/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 88

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 08/10/2017
Next Scheduled EDR Contact: 11/27/2017
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. This database begins with calendar year 1993.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 10/12/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 64

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/12/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
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 [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

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: 04/11/2017
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 04/26/2017
Number of Days to Update: 13

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/12/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
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: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 86

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 06/06/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/15/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 107

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 12/06/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 87

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

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: 12/16/2016
Date Data Arrived at EDR: 12/22/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 70

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/16/2017
Next Scheduled EDR Contact: 10/02/2017
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: 01/20/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water board?s review found that more than one-third of the region?s active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/14/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

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
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/27/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Varies

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 Hist Auto: 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 Hist Cleaner: 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

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

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
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

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
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
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: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 31

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 21

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 06/20/2017
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 49

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 06/16/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 04/25/2017
Date Data Arrived at EDR: 04/27/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 104

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/27/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 02/23/2017
Date Data Arrived at EDR: 02/24/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 77

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 11/20/2017
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: 05/26/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 07/27/2017
Number of Days to Update: 58

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/31/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 05/02/2017
Date Data Arrived at EDR: 05/04/2017
Date Made Active in Reports: 08/04/2017
Number of Days to Update: 92

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 06/19/2017
Date Data Arrived at EDR: 06/20/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 50

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/31/2017
Next Scheduled EDR Contact: 11/13/2017
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: 06/30/2017
Date Data Arrived at EDR: 07/05/2017
Date Made Active in Reports: 08/04/2017
Number of Days to Update: 30

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 03/20/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 57

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 04/24/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/04/2017
Number of Days to Update: 101

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 06/08/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 08/04/2017
Number of Days to Update: 56

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 81

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 11/20/2017
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: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 71

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 05/09/2017
Date Data Arrived at EDR: 05/11/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 90

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/17/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/13/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/04/2017
Number of Days to Update: 101

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
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: 06/16/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 66

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/17/2017
Date Data Arrived at EDR: 04/18/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 14

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/18/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/13/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 68

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/17/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/17/2017
Date Data Arrived at EDR: 01/18/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 112

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/13/2017
Next Scheduled EDR Contact: 10/30/2017
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: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/10/2017
Date Data Arrived at EDR: 01/13/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 110

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/23/2017
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.

Date of Government Version: 06/01/2017
Date Data Arrived at EDR: 06/02/2017
Date Made Active in Reports: 08/04/2017
Number of Days to Update: 63

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/23/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 83

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 07/13/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 02/21/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 76

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/08/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/22/2017
Date Data Arrived at EDR: 06/23/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 47

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
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: 03/15/2017
Date Data Arrived at EDR: 03/16/2017
Date Made Active in Reports: 05/09/2017
Number of Days to Update: 54

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 05/08/2017
Date Data Arrived at EDR: 05/09/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 92

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 70

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/07/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 11/04/2016
Date Data Arrived at EDR: 11/11/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 73

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/07/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/07/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 85

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/09/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 06/19/2017
Date Data Arrived at EDR: 07/05/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 35

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/18/2017
Date Data Arrived at EDR: 04/20/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 1

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/19/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/19/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 98

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/19/2017
Next Scheduled EDR Contact: 10/02/2017
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: 02/06/2017
Date Data Arrived at EDR: 04/04/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 127

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/06/2017
Next Scheduled EDR Contact: 10/16/2017
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: 11/08/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 56

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/06/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 105

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Varies

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.

Date of Government Version: 12/09/2016
Date Data Arrived at EDR: 12/13/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 80

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 08/07/2017
Next Scheduled EDR Contact: 11/20/2017
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: 06/05/2017
Date Data Arrived at EDR: 06/07/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 69

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Quarterly

Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
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: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite 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: 08/07/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Quarterly

Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 02/28/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 62

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 08/07/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 03/21/2017
Date Data Arrived at EDR: 03/23/2017
Date Made Active in Reports: 05/09/2017
Number of Days to Update: 47

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/16/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/05/2017
Date Data Arrived at EDR: 06/16/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 54

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
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: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 33

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 14

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
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: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/23/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 89

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/07/2017
Next Scheduled EDR Contact: 09/04/2017
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: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 05/04/2017
Date Data Arrived at EDR: 05/08/2017
Date Made Active in Reports: 07/27/2017
Number of Days to Update: 80

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2016
Date Data Arrived at EDR: 12/21/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 1

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 47

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 06/27/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 43

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/21/2017
Next Scheduled EDR Contact: 10/09/2017
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: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 55

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/21/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 05/10/2017
Date Data Arrived at EDR: 05/16/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 85

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/17/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Varies

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 35

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA Facility List
Cupa facilities

Date of Government Version: 05/01/2017
Date Data Arrived at EDR: 05/08/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 93

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 04/24/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

TULARE COUNTY:

CUPA Facility List
Cupa program facilities

Date of Government Version: 01/05/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 104

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 04/27/2017
Date Data Arrived at EDR: 04/27/2017
Date Made Active in Reports: 08/10/2017
Number of Days to Update: 105

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

VENTURA COUNTY:

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: 12/27/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 103

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/24/2017
Next Scheduled EDR Contact: 11/08/2017
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
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/16/2017
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
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/10/2017
Next Scheduled EDR Contact: 11/27/2017
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: 09/26/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 89

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/24/2017
Next Scheduled EDR Contact: 11/08/2017
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: 02/27/2017
Date Data Arrived at EDR: 03/15/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/13/2017
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: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 07/27/2017
Number of Days to Update: 107

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/10/2017
Next Scheduled EDR Contact: 10/23/2017
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: 01/30/2017
Date Data Arrived at EDR: 02/01/2017
Date Made Active in Reports: 02/13/2017
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 07/22/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 123

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/17/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 07/14/2017
Number of Days to Update: 92

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/12/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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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 was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

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.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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APPENDIX C – HISTORICAL AERIAL PHOTOGRAPHS AND TOPOGRAPHIC MAPS

Phase I ESA
1197 Lick Avenue
San Jose, CA 95110

Inquiry Number: 4293140.9
May 14, 2015

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography May 14, 2015

Target Property:

1197 Lick Avenue

San Jose, CA 95110

Year	***Scale***	***Details***	***Source***
1939	Aerial Photograph. Scale: 1"=500'	Flight Year: 1939	USGS
1948	Aerial Photograph. Scale: 1"=500'	Flight Year: 1948	USGS
1950	Aerial Photograph. Scale: 1"=500'	Flight Year: 1950	USGS
1956	Aerial Photograph. Scale: 1"=500'	Flight Year: 1956	USGS
1974	Aerial Photograph. Scale: 1"=500'	Flight Year: 1974	USGS
1982	Aerial Photograph. Scale: 1"=500'	Flight Year: 1982	USGS
1993	Aerial Photograph. Scale: 1"=500'	Flight Year: 1993 Best Copy Available from original source	USGS
1998	Aerial Photograph. Scale: 1"=500'	/DOQQ - acquisition dates: 1998	USGS/DOQQ
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP

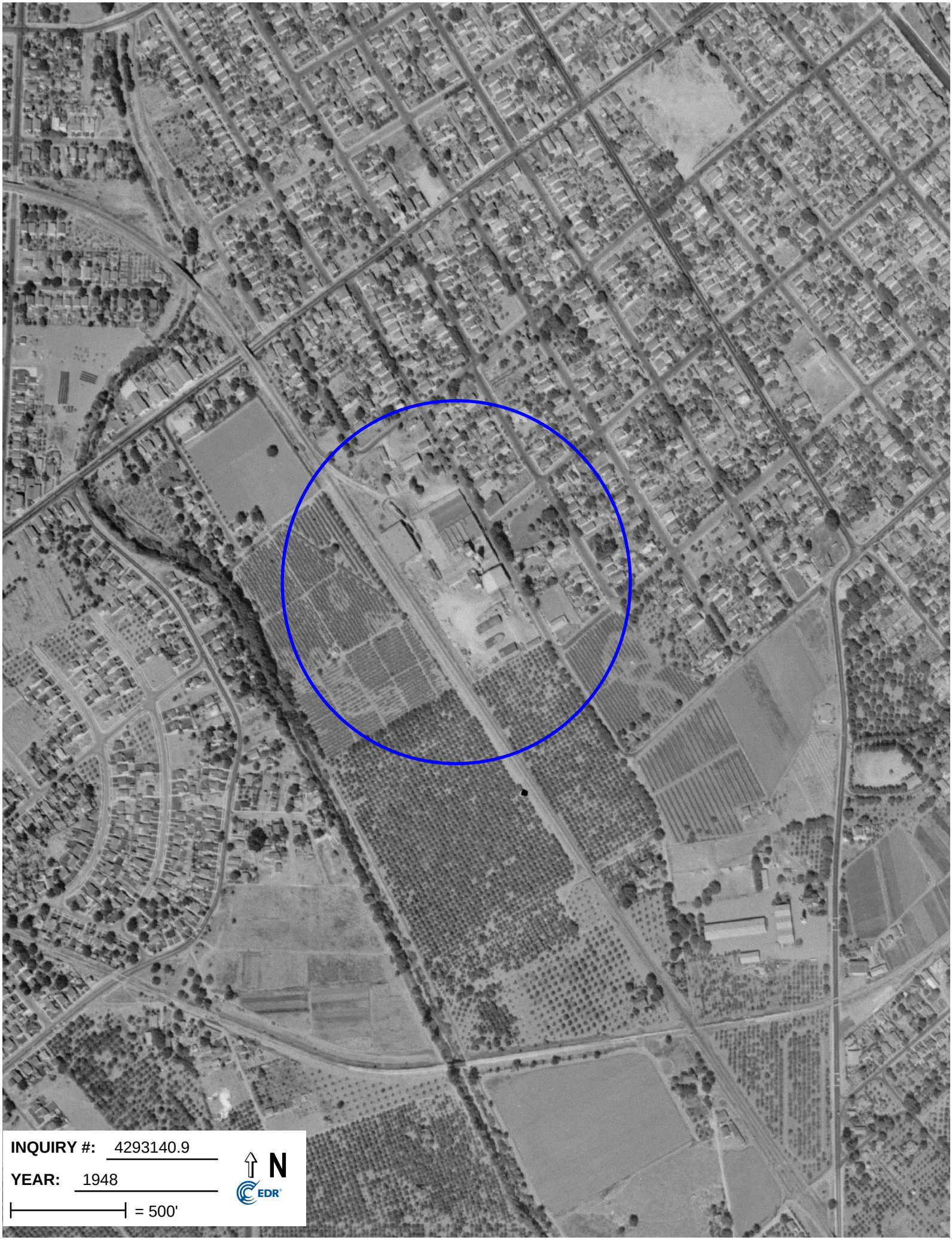
INQUIRY #: 4293140.9

YEAR: 1939

= 500'

N

EDR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EDR

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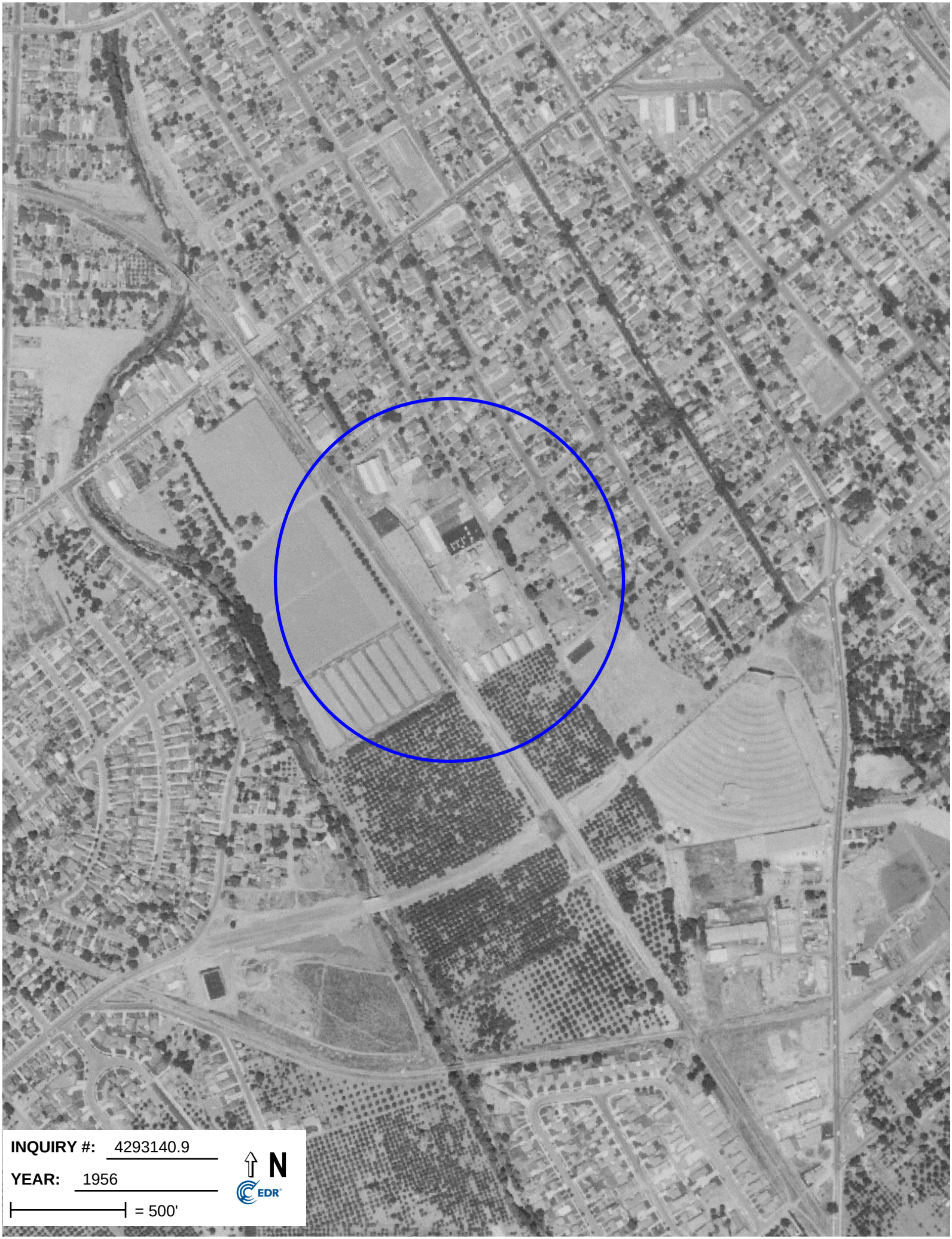
EDR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YEAR: 1956
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EDR

INQUIRY #: 3349877.5
YEAR: 1965
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EDR Environmental Data Resources Inc

PACIFIC AERIAL SURVEYS
A Division of PHOTO SCIENCE Geospatial Solutions
AV385-07-07 08-22-70

PACIFIC AERIAL SURVEYS
A Division of PHOTO SCIENCE Geospatial Solutions
AV1006-13-16 08-11-71

INQUIRY #: 4293140.9
YEAR: 1974
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EDR

PACIFIC AERIAL SURVEYS
A Division of PHOTO SCIENCE Geospatial Solutions
AV1138-14-19 04-28-74

PACIFIC AERIAL SURVEYS
A Division of PHOTO SCIENCE Geospatial Solutions
AV1277-14-17 10-13-76

PACIFIC AERIAL SURVEYS
A Division of PHOTO SCIENCE Geospatial Solutions
AV1905-13-19 07-23-80

INQUIRY #: 4293140.9
YEAR: 1982
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EDR

PACIFIC AERIAL SURVEYS
A Division of PHOTO SCIENCE Geospatial Solutions
AV2485-14-20 07-01-84

PACIFIC AERIAL SURVEYS
A Division of PHOTO SCIENCE Geospatial Solutions
AV3324-13-19 06-28-88

PACIFIC AERIAL SURVEYS
A Division of PHOTO SCIENCE Geospatial Solutions
AV4230-127-70 07-20-92

INQUIRY #: 4293140.9
YEAR: 1993
= 500'
N
EDR

PACIFIC AERIAL SURVEYS
A Division of PHOTO SCIENCE Geospatial Solutions
AV5200-28-80 08-09-96

Note: This photo appears to be incorrectly dated based on the absence of the child care center built in 1995.

PACIFIC AERIAL SURVEYS
A Division of PHOTO SCIENCE Geospatial Solutions
AV6100-127-75 06-29-99

PACIFIC AERIAL SURVEYS
A Division of PHOTO SCIENCE Geospatial Solutions
KAV9010-111-16 03-25-05

INQUIRY #: 4293140.9
YEAR: 2005
= 500'
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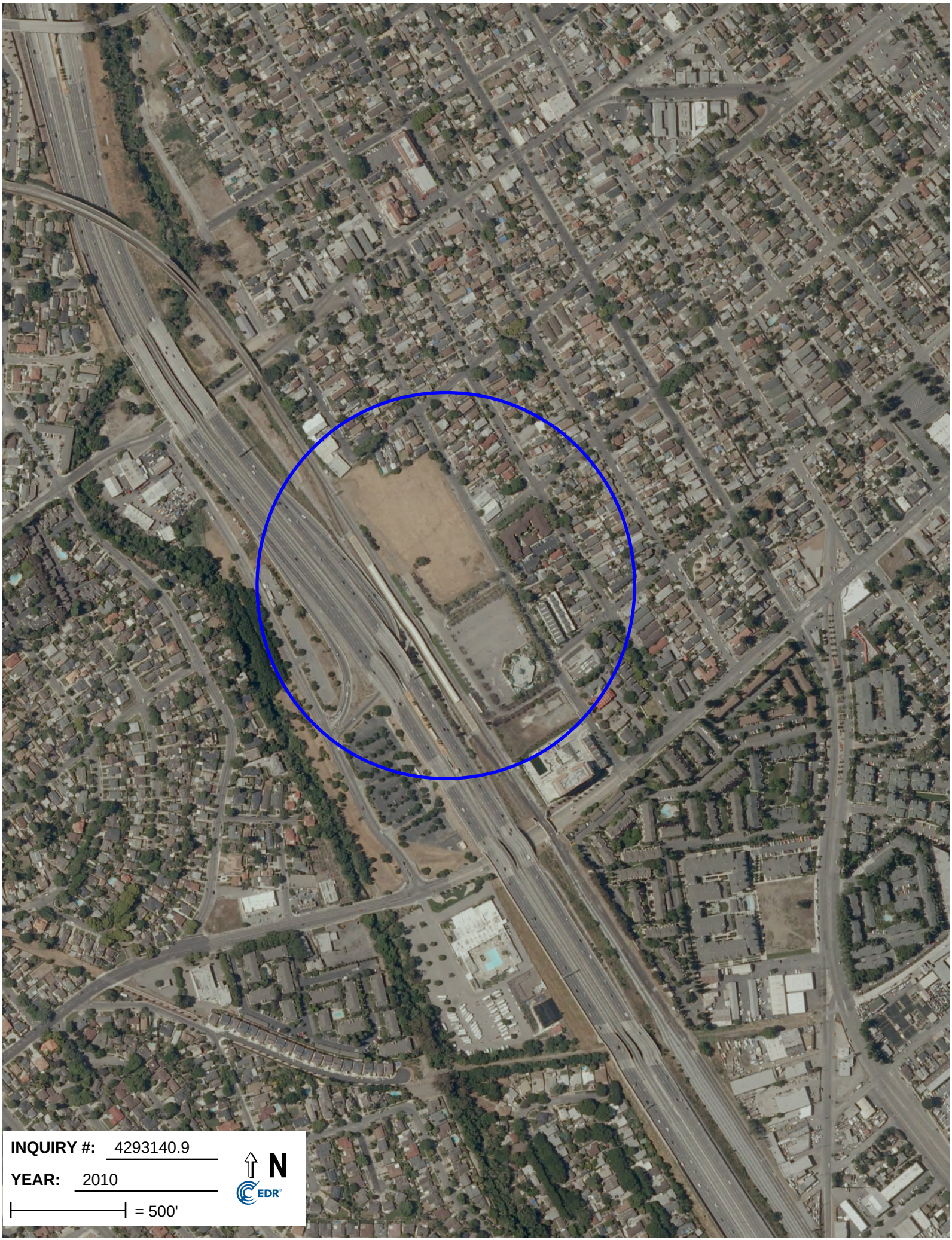
EDR

INQUIRY #: 4293140.9
YEAR: 2009
= 500'
N
EDR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EDR

INQUIRY #: 4293140.9
YEAR: 2012
= 500'
N
EDR

Phase I ESA
1197 Lick Avenue
San Jose, CA 95110

Inquiry Number: 4293140.3
May 13, 2015

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

5/13/15

Site Name:	**Client Name:**
Phase I ESA	Cornerstone Earth Group
1197 Lick Avenue	1259 Oakmead Parkway
San Jose, CA 95110	Sunnyvale, CA 94085
EDR Inquiry # 4293140.3	Contact: Stason Foster

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Certified Sanborn Results:

Site Name:	Phase I ESA
Address:	1197 Lick Avenue
City, State, Zip:	San Jose, CA 95110
Cross Street:	
P.O. #	118-67-1
Project:	Lick Ave, San Jose
Certification #	065E-4C39-A0AD

Maps Provided:

1966

1956

1950

1915

Sanborn® Library search results
Certification # 065E-4C39-A0AD

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1966 Source Sheets

Volume 2, Sheet 199b

1956 Source Sheets

Volume 2, Sheet 199b

Volume 2, Sheet 199c

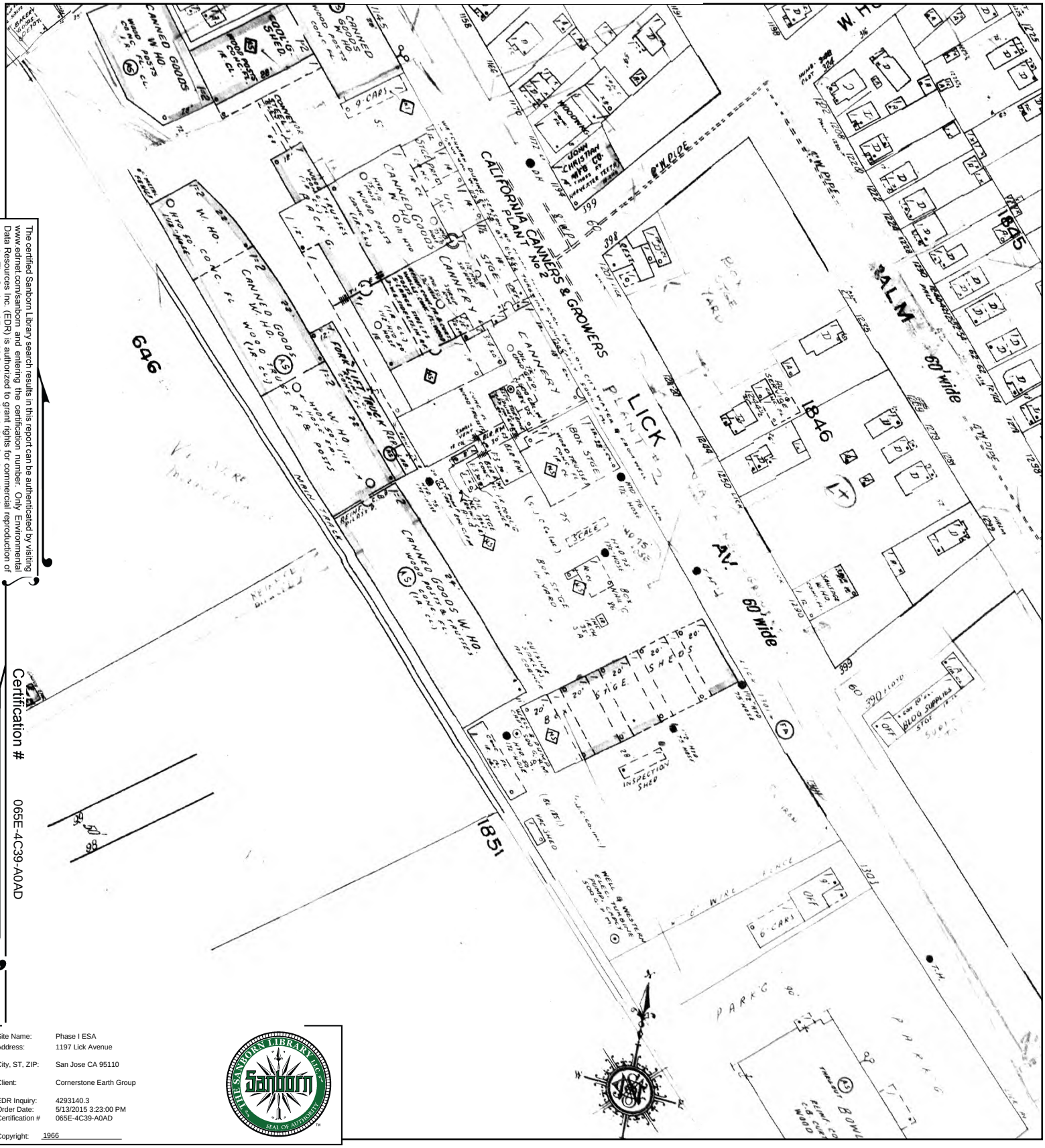
1950 Source Sheets

Volume 2, Sheet 201

1915 Source Sheets

Volume 2, Sheet 201

1966 Certified Sanborn Map



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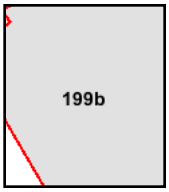
Certification # 065E-4C39-A0AD

Site Name:	Phase I ESA
Address:	1197 Lick Avenue
City, ST, ZIP:	San Jose CA 95110
Client:	Cornerstone Earth Group
EDR Inquiry:	4293140.3
Order Date:	5/13/2015 3:23:00 PM
Certification #	065E-4C39-A0AD
Copyright:	1966

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

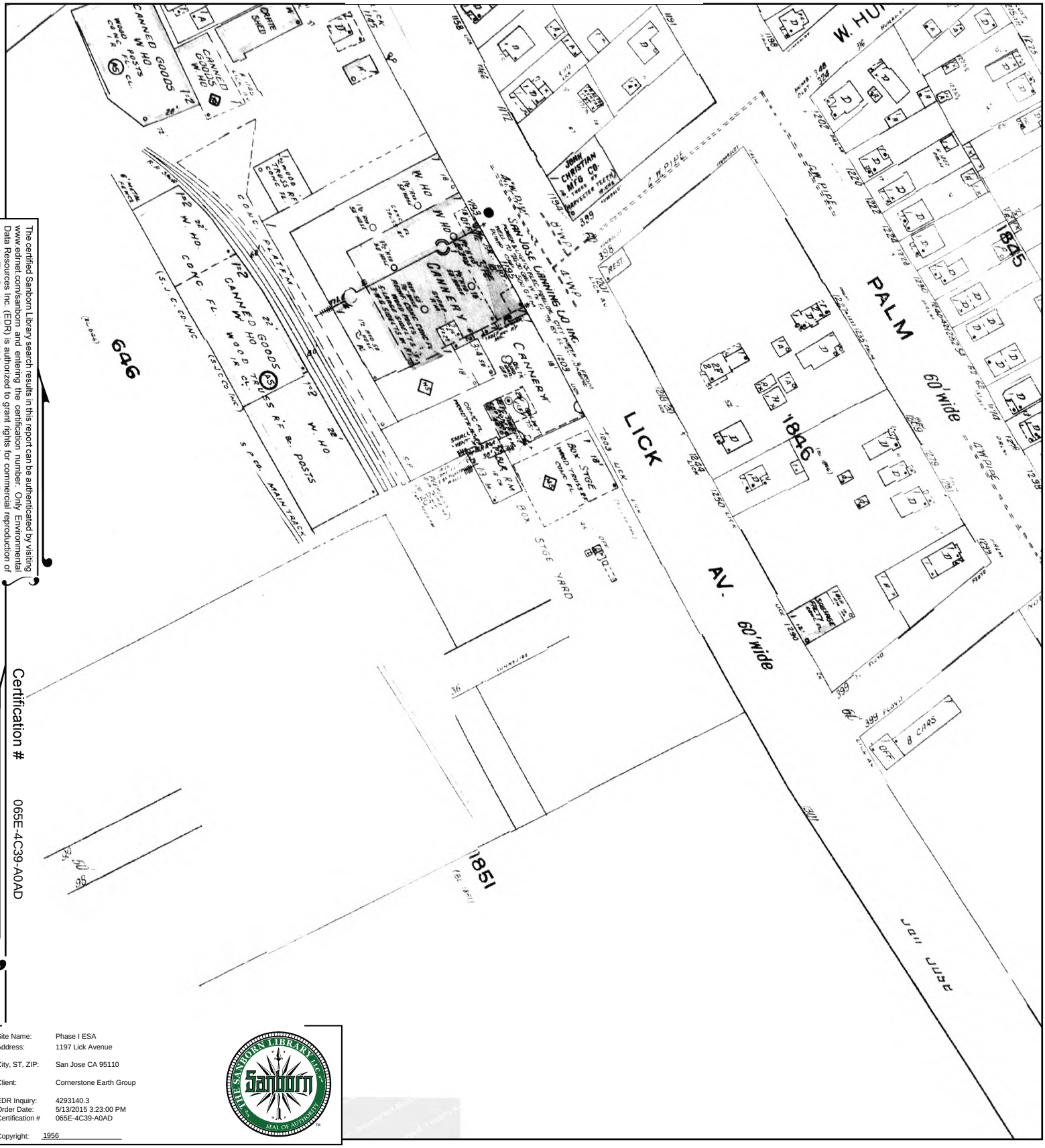
0 Feet 150 300 600



Volume 2, Sheet 199b

N

1956 Certified Sanborn Map



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Site Name:	Phase I ESA
Address:	1197 Lick Avenue
City, ST, ZIP:	San Jose CA 95110
Client:	Cornerstone Earth Group
EDR Inquiry:	4293140.3
Order Date:	5/13/2015 3:23:00 PM
Certification #	065E-4C39-A0AD
Copyright:	1956

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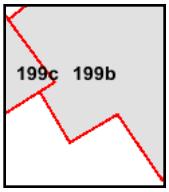
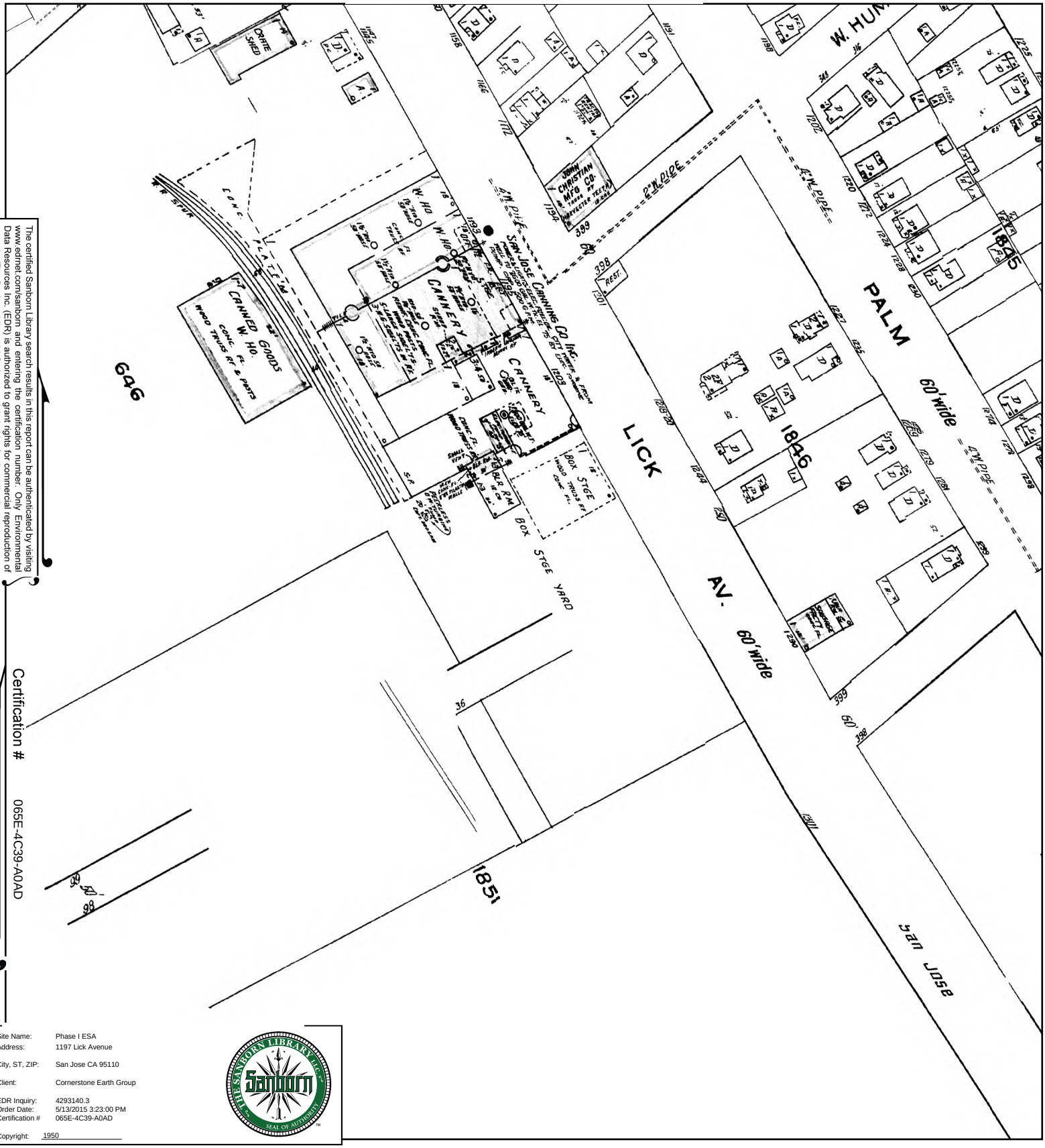


Volume 2, Sheet 199b
Volume 2, Sheet 199c

0 Feet 150 300 600

N

1950 Certified Sanborn Map



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Certification # 065E-4C39-A0AD

Site Name:	Phase I ESA
Address:	1197 Lick Avenue
City, ST, ZIP:	San Jose CA 95110
Client:	Cornerstone Earth Group
EDR Inquiry:	4293140.3
Order Date:	5/13/2015 3:23:00 PM
Certification #	065E-4C39-A0AD
Copyright:	1950

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Outlined areas indicate map sheets within the collection.

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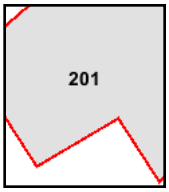
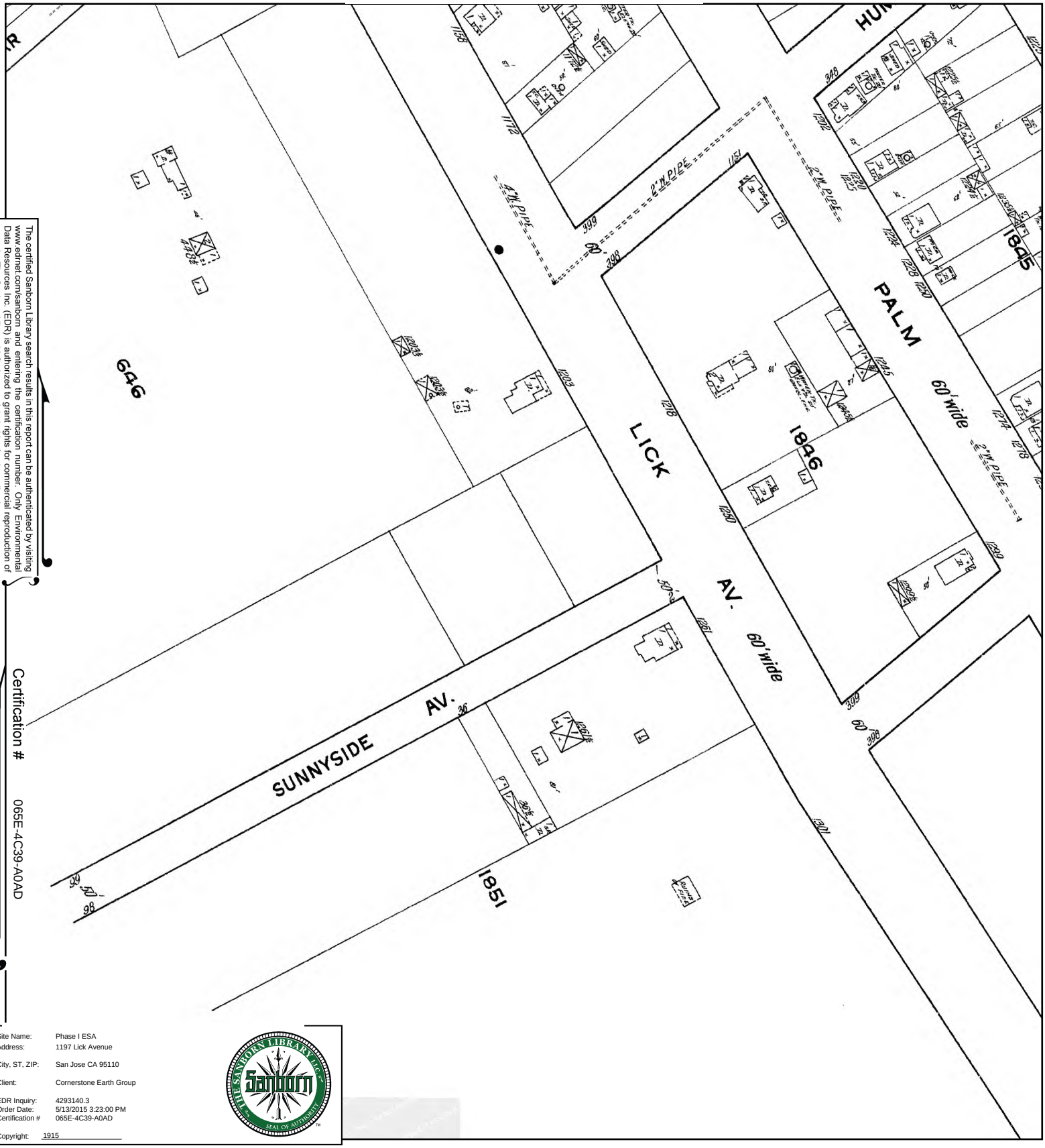


Volume 2, Sheet 201

N

1915 Certified Sanborn Map



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Certification # 065E-4C39-A0AD

Site Name:	Phase I ESA
Address:	1197 Lick Avenue
City, ST, ZIP:	San Jose CA 95110
Client:	Cornerstone Earth Group
EDR Inquiry:	4293140.3
Order Date:	5/13/2015 3:23:00 PM
Certification #	065E-4C39-A0AD
Copyright:	1915

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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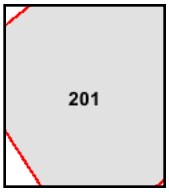
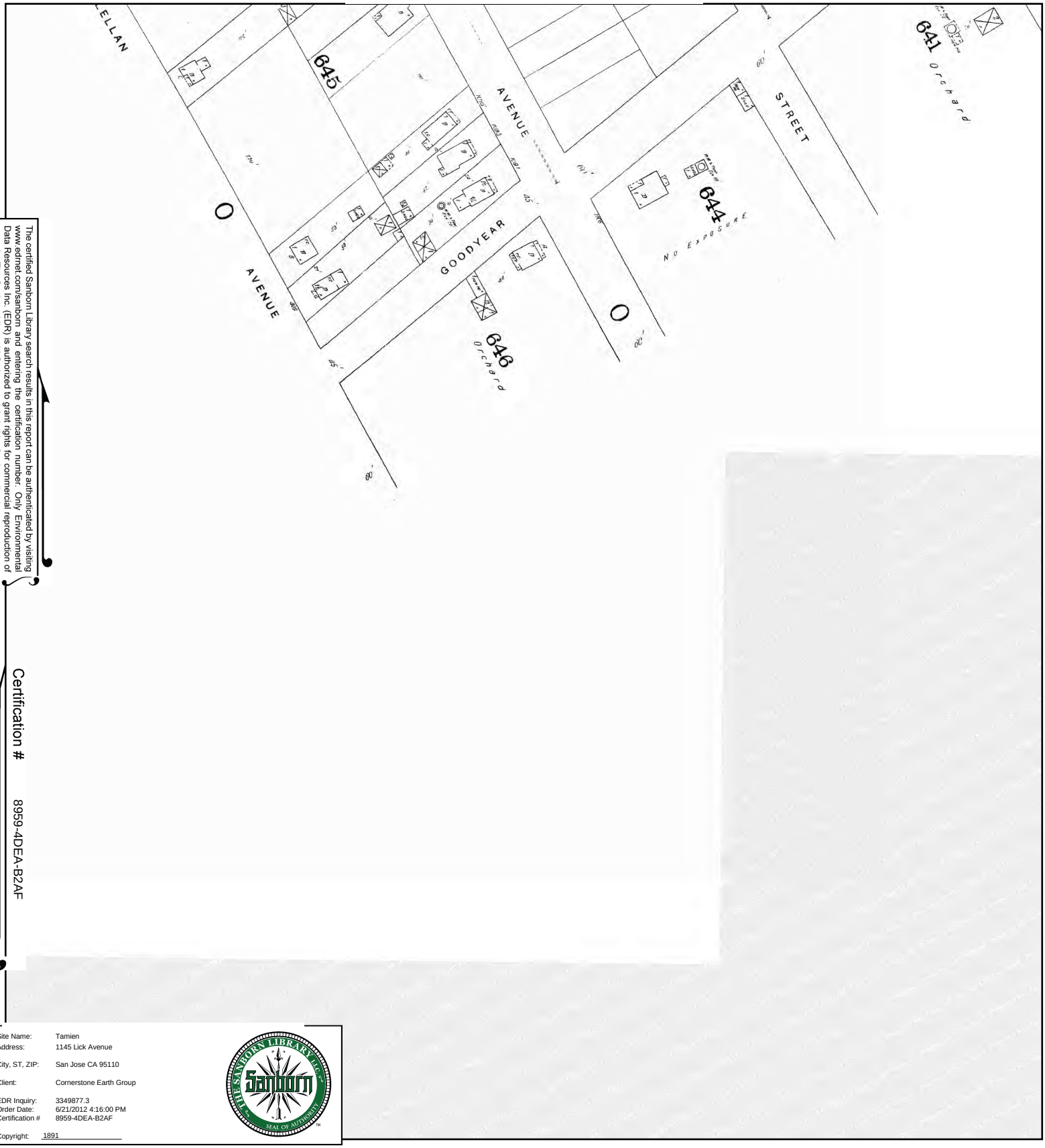


Volume 2, Sheet 201

N

1891 Certified Sanborn Map



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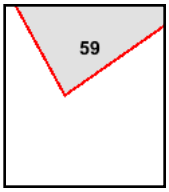
Certification # 8959-4DEA-B2AF

Site Name:	Tamien
Address:	1145 Lick Avenue
City, ST, ZIP:	San Jose CA 95110
Client:	Cornerstone Earth Group
EDR Inquiry:	3349877.3
Order Date:	6/21/2012 4:16:00 PM
Certification #	8959-4DEA-B2AF
Copyright:	1891

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



Volume 2, Sheet 59

0 Feet 150 300 600

N

Phase I ESA
1197 Lick Avenue
San Jose, CA 95110

Inquiry Number: 4293140.4
May 13, 2015

EDR Historical Topographic Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
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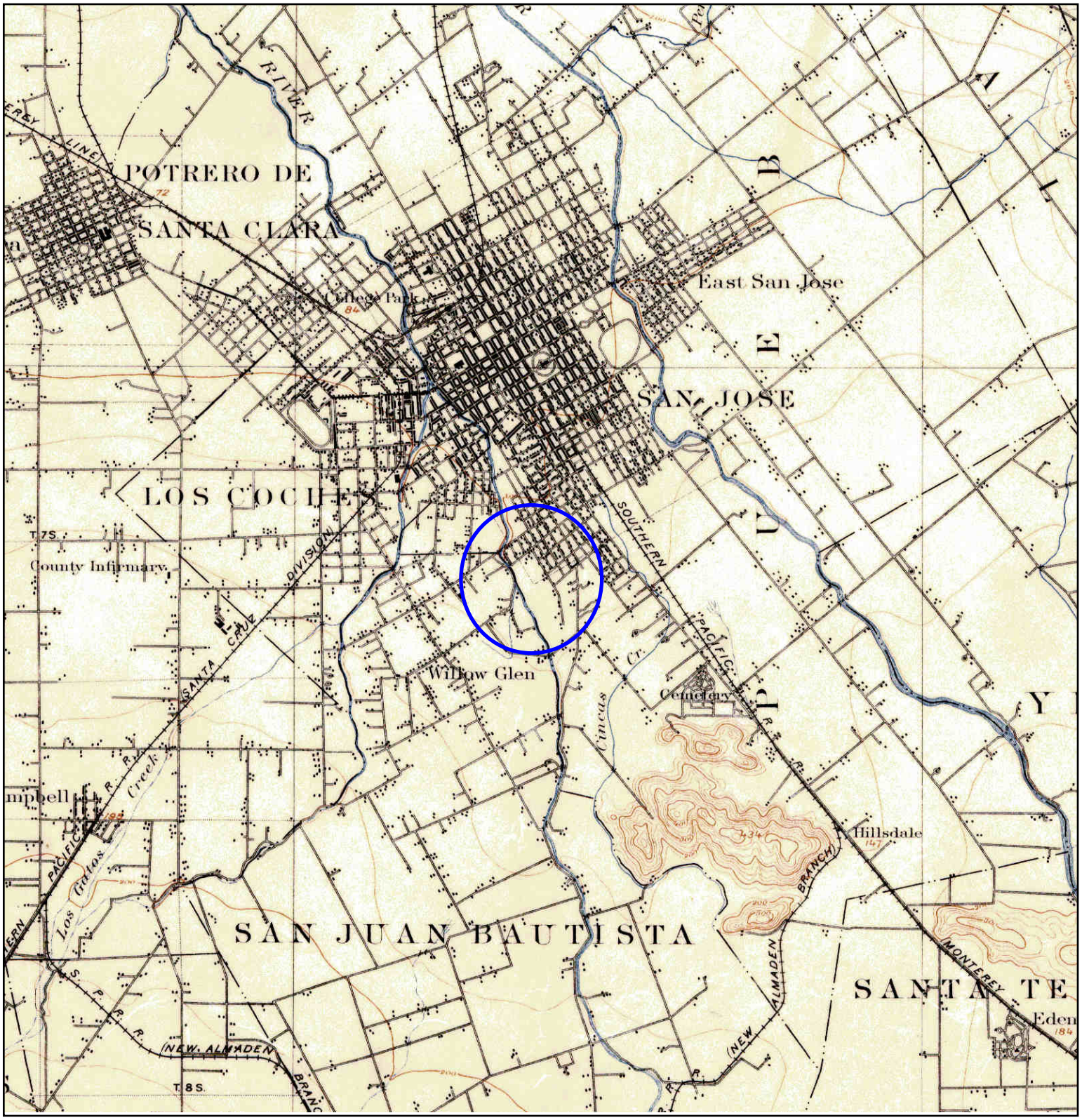
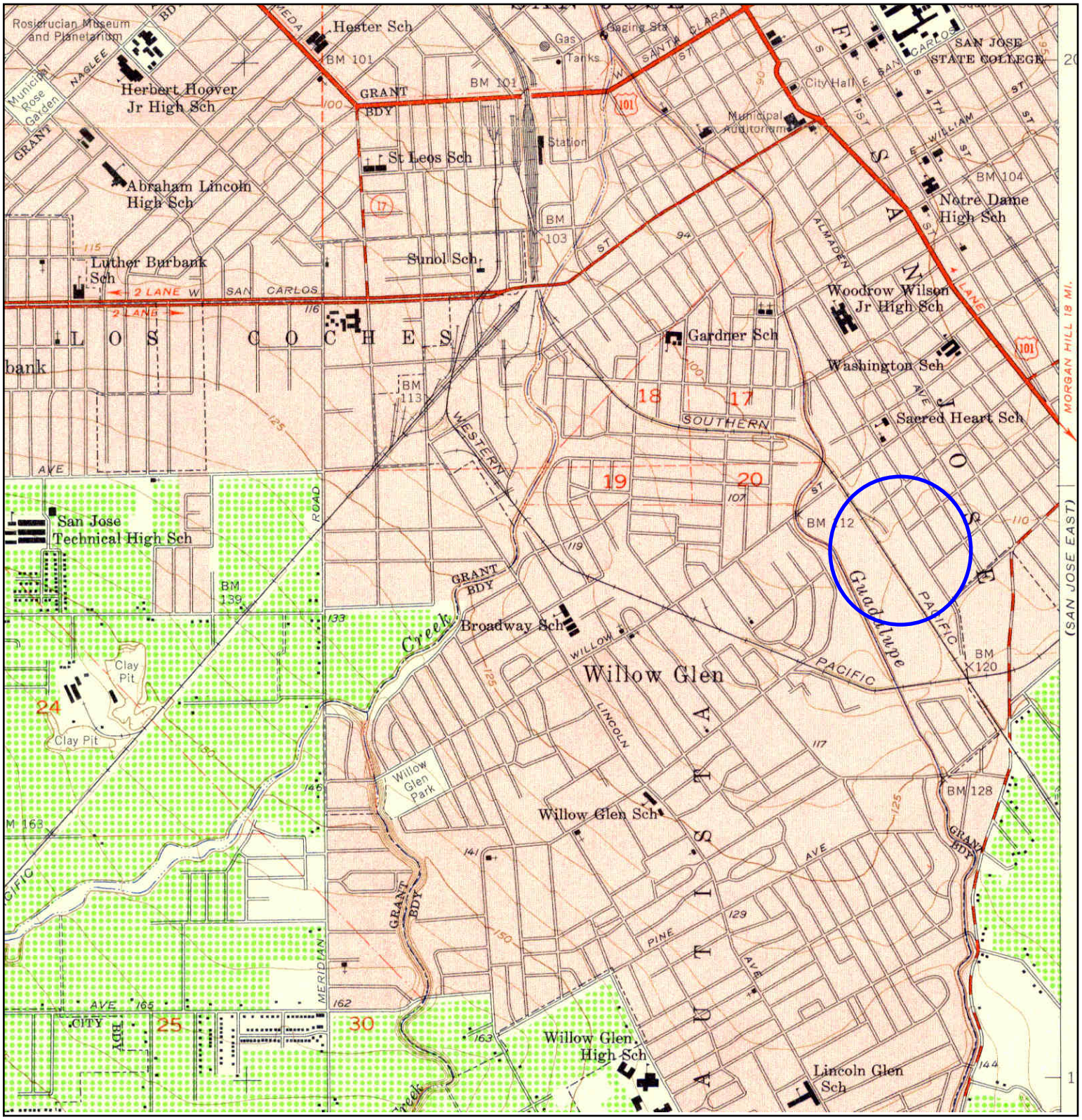
Historical Topographic Map



N	TARGET QUAD NAME: SAN JOSE MAP YEAR: 1899 SERIES: 15 SCALE: 1:62500	SITE NAME: Phase I ESA ADDRESS: 1197 Lick Avenue San Jose, CA 95110 LAT/LONG: 37.3129 / -121.8838	CLIENT: Cornerstone Earth Group CONTACT: Stason Foster INQUIRY#: 4293140.4 RESEARCH DATE: 05/13/2015

Historical Topographic Map



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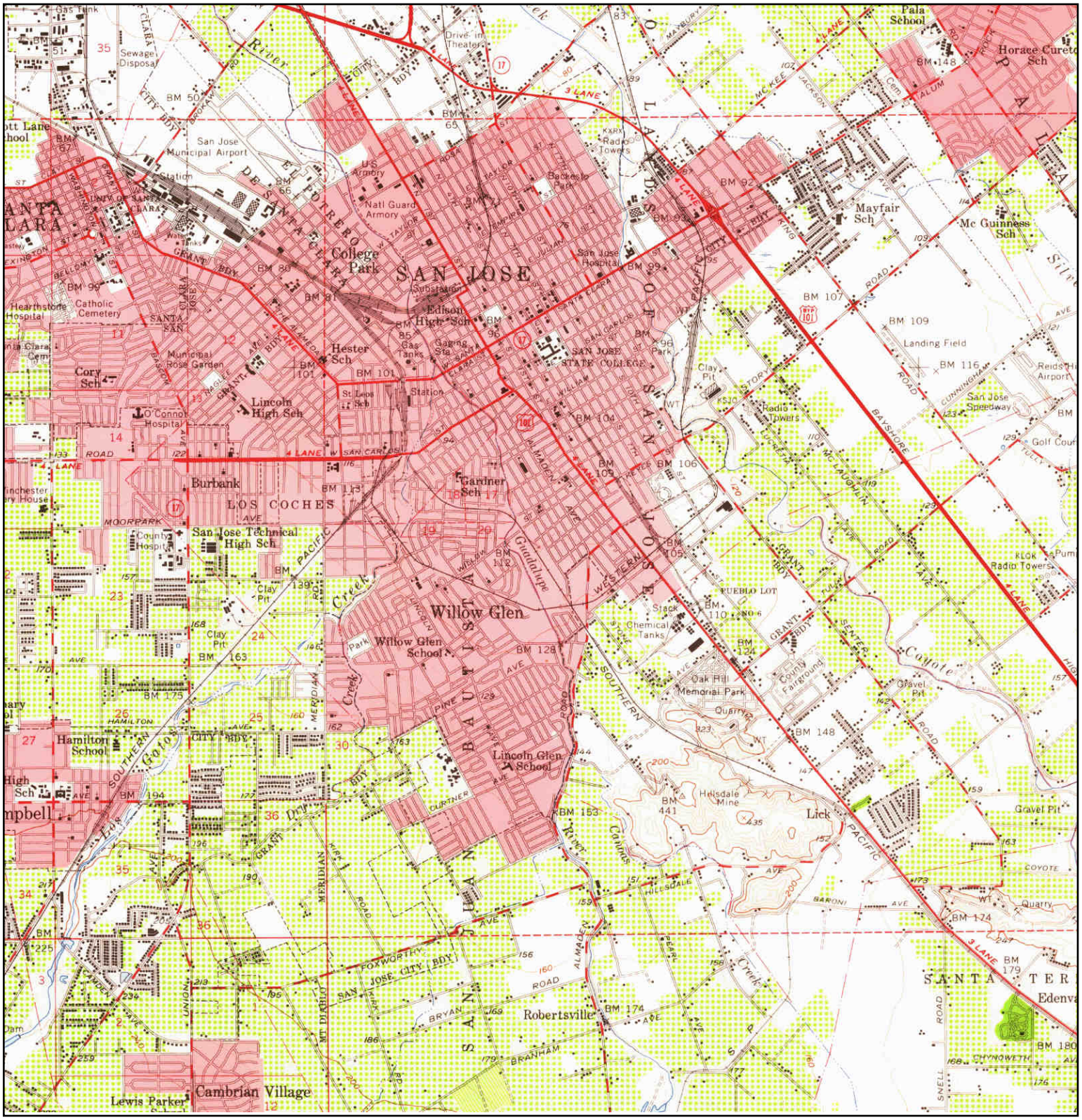

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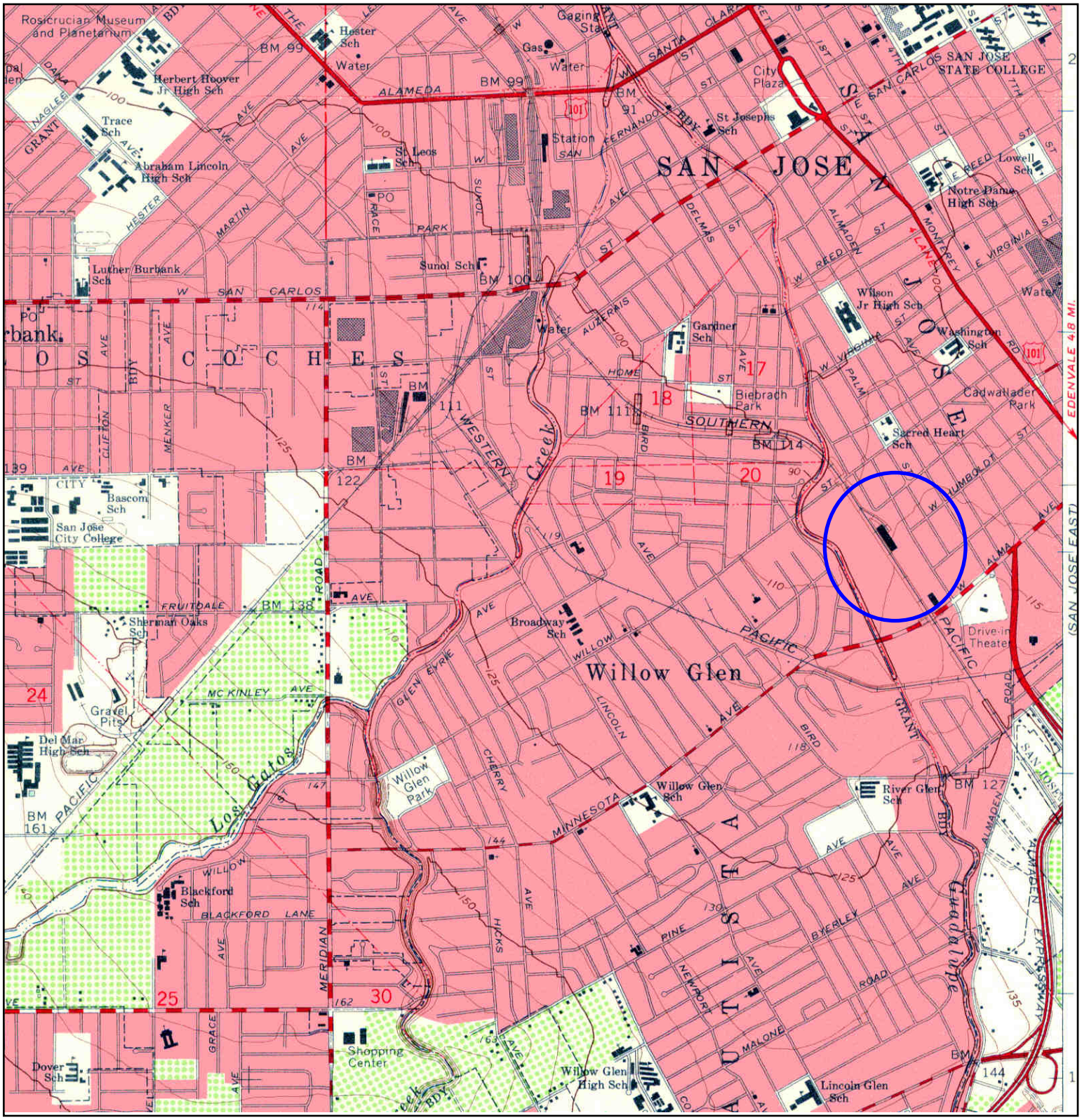

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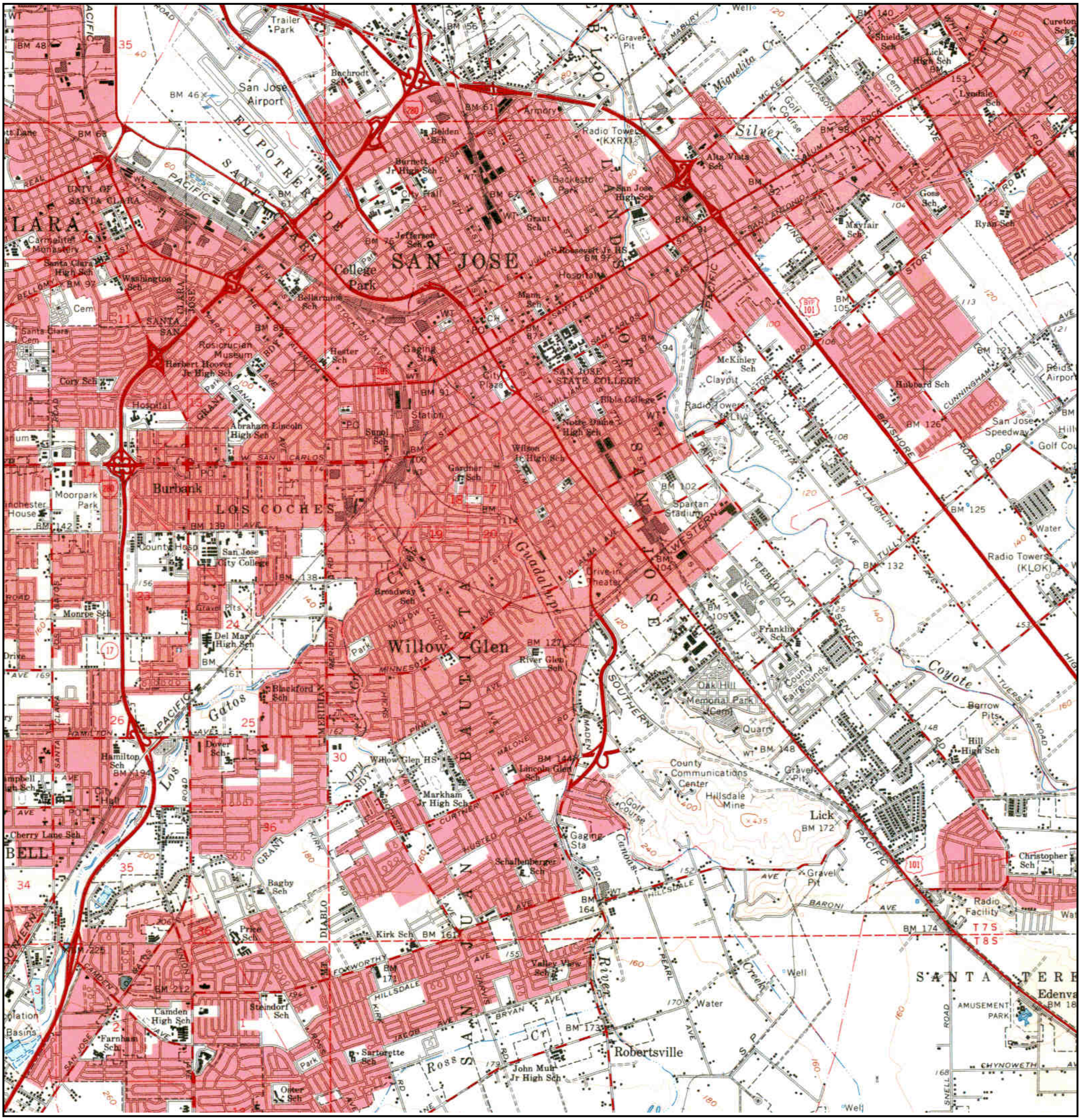
Historical Topographic Map



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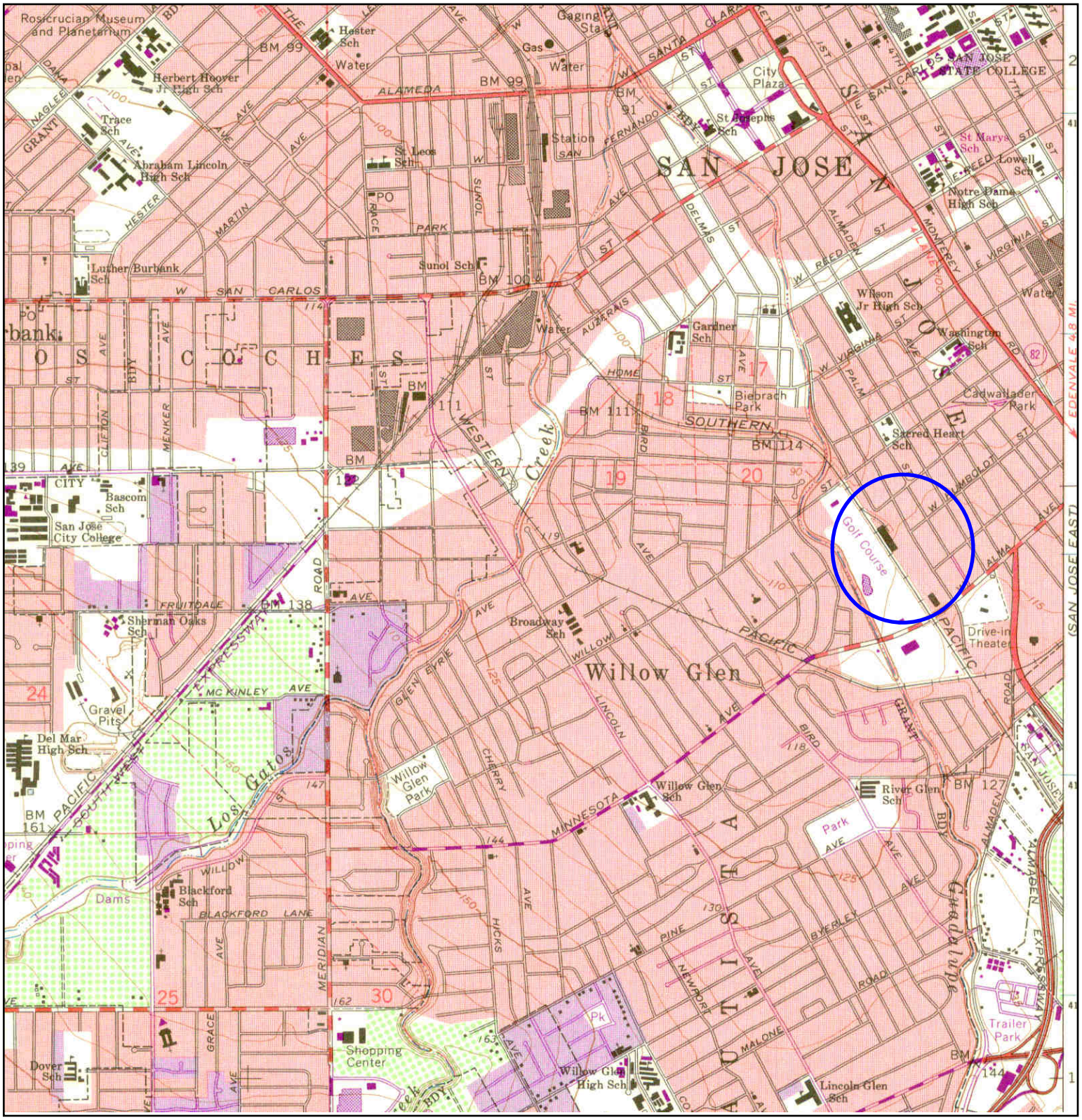
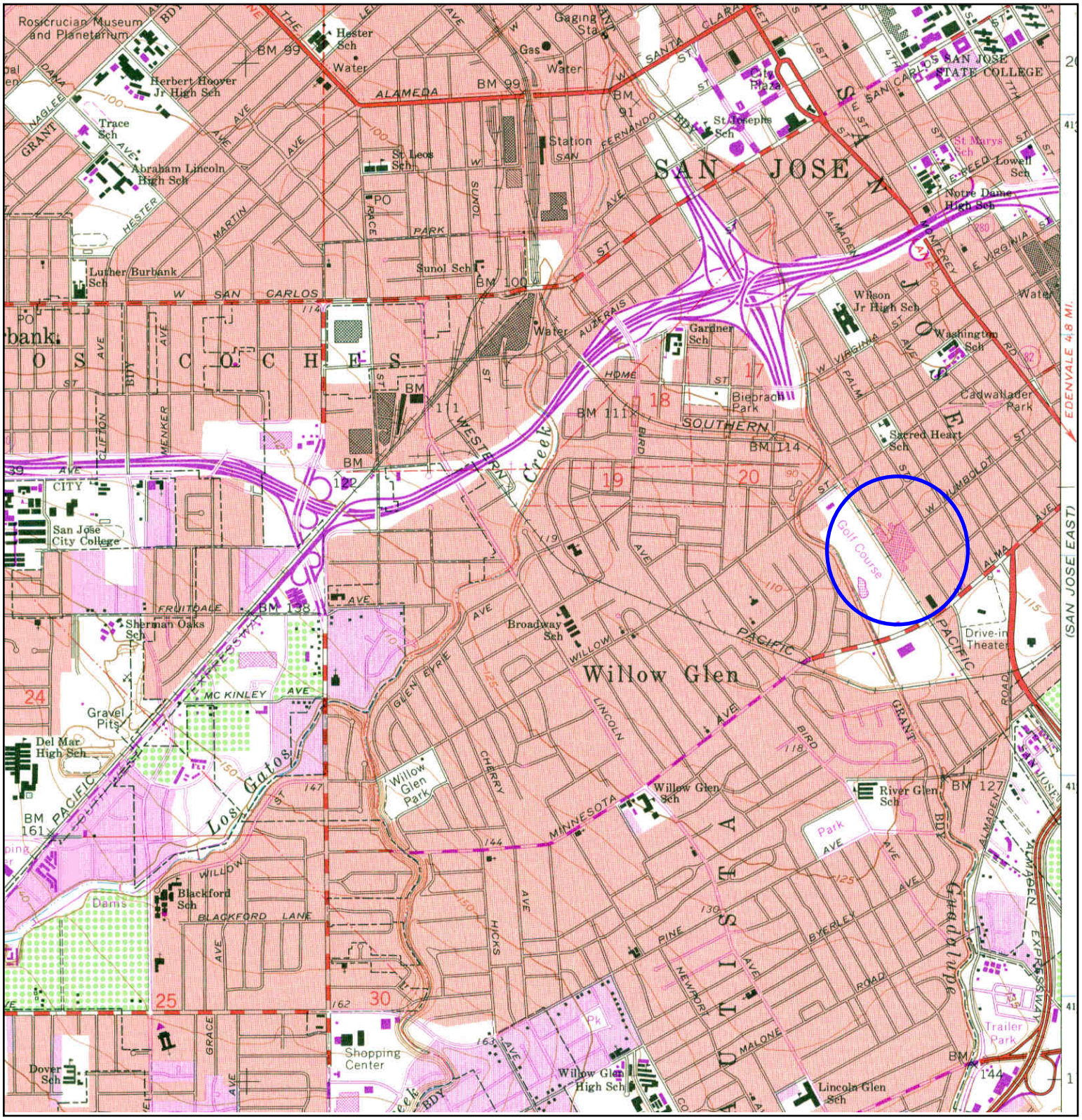
Historical Topographic Map



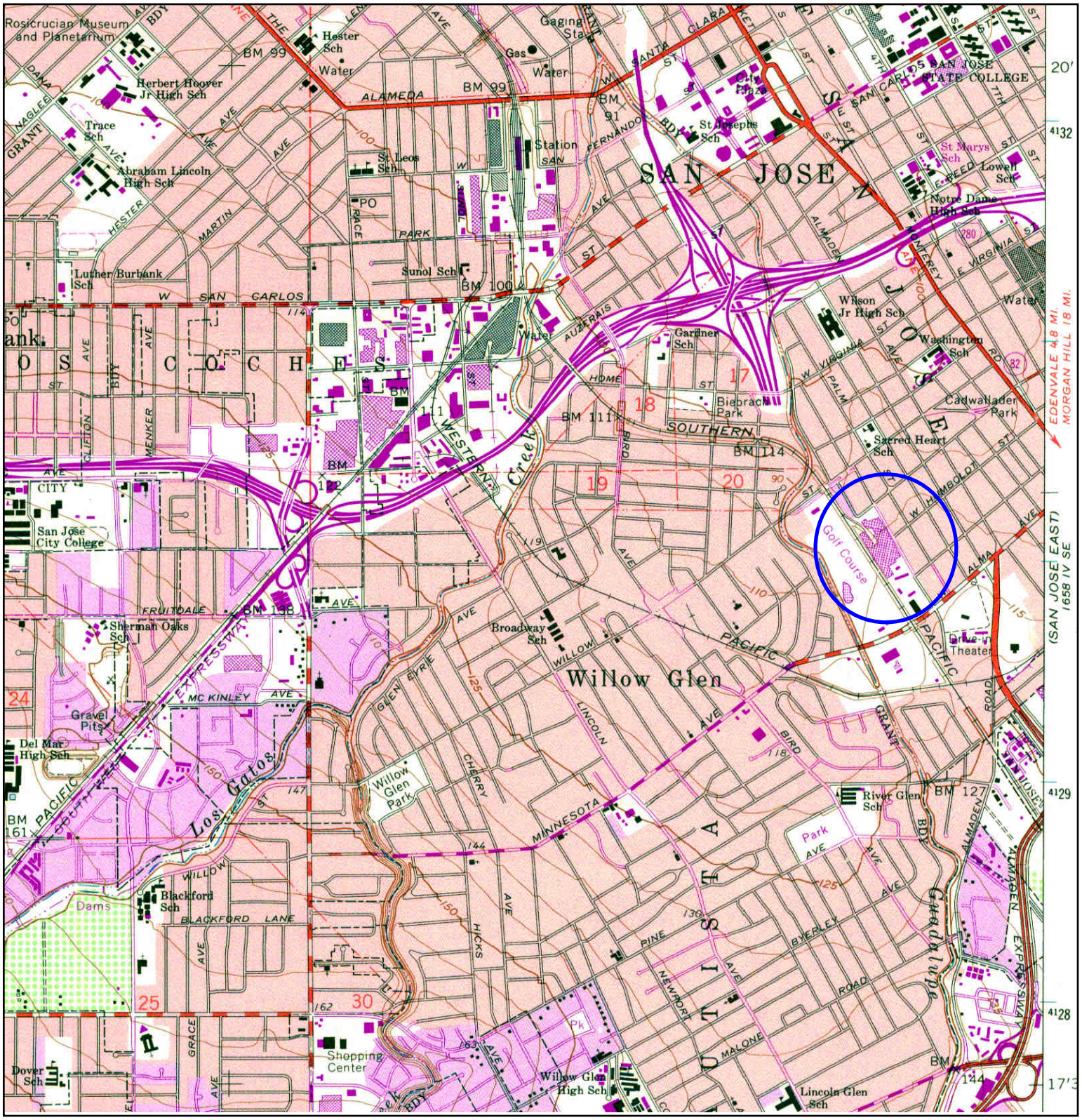
N	TARGET QUAD NAME: SAN JOSE WEST MAP YEAR: 1968 PHOTOREVISED FROM :1961 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Phase I ESA ADDRESS: 1197 Lick Avenue San Jose, CA 95110 LAT/LONG: 37.3129 / -121.8838	CLIENT: Cornerstone Earth Group CONTACT: Stason Foster INQUIRY#: 4293140.4 RESEARCH DATE: 05/13/2015

Historical Topographic Map



N	TARGET QUAD NAME: SAN JOSE WEST MAP YEAR: 1973 PHOTOREVISED FROM :1961 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Phase I ESA ADDRESS: 1197 Lick Avenue San Jose, CA 95110 LAT/LONG: 37.3129 / -121.8838	CLIENT: Cornerstone Earth Group CONTACT: Stason Foster INQUIRY#: 4293140.4 RESEARCH DATE: 05/13/2015

Historical Topographic Map



N	TARGET QUAD NAME: SAN JOSE WEST MAP YEAR: 1980 PHOTOREVISED FROM :1961 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Phase I ESA ADDRESS: 1197 Lick Avenue San Jose, CA 95110 LAT/LONG: 37.3129 / -121.8838	CLIENT: Cornerstone Earth Group CONTACT: Stason Foster INQUIRY#: 4293140.4 RESEARCH DATE: 05/13/2015

APPENDIX D – LOCAL STREET DIRECTORY SEARCH RESULTS

Phase I ESA

1197 Lick Avenue
San Jose, CA 95110

Inquiry Number: 4293140.5
May 13, 2015

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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SECTION

Executive Summary

Findings

City Directory Images

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1922 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2013	Cole Information Services	X	X	X	-
2008	Cole Information Services	X	X	X	-
2006	Haines Company, Inc.	X	X	X	-
2001	Haines Company, Inc.	-	X	X	-
2000	Haines & Company	X	X	X	-
1996	Pacific Bell	X	X	X	-
1991	PACIFIC BELL WHITE PAGES	-	X	X	-
1986	Pacific Bell	-	X	X	-
	Pacific Bell	X	X	X	-
1985	Pacific Bell	-	X	X	-
	Pacific Bell	X	X	X	-
1982	Pacific Telephone	-	X	X	-
1980	Pacific Telephone	-	X	X	-
1978	R. L. Polk & Co.	-	-	-	-
1975	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1974	R. L. Polk Co.	-	-	-	-
1970	R. L. Polk & Co.	-	X	X	-
	R. L. Polk & Co.	X	X	X	-
1968	R. L. Polk Co.	-	-	-	-
1966	R. L. Polk & Co.	-	X	X	-
	R. L. Polk & Co.	X	X	X	-
1965	R. L. Polk Co.	-	-	-	-
1964	R. L. Polk & Co.	-	-	-	-
1963	Pacific Telephone	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1963	Pacific Telephone	X	X	X	-
1962	R. L. Polk & Co.	-	-	-	-
1960	R. L. Polk Co.	-	X	X	-
	R. L. Polk Co.	X	X	X	-
1957	Pacific Telephone	-	X	X	-
	R. L. Polk Co.	-	X	X	-
1955	R. L. Polk Co.	-	X	X	-
	R. L. Polk Co.	X	X	X	-
1950	R. L. Polk & Co.	-	X	X	-
	R. L. Polk & Co.	X	X	X	-
1946	R. L. Polk Co.	-	-	-	-
1945	R. L. Polk Co.	-	X	X	-
	R. L. Polk Co.	X	X	X	-
1942	R.L. Polk	-	-	-	-
1940	R. L. Polk & Co.	-	X	X	-
	R. L. Polk & Co.	X	X	X	-
1936	R. L. Polk Co.	-	-	-	-
1935	R. L. Polk & Co. of California	-	X	X	-
	R. L. Polk & Co. of California	X	X	X	-
1931	R. L. Polk Co.	-	-	-	-
1930	R. L. Polk & Co. of California	-	X	X	-
	R. L. Polk & Co. of California	X	X	X	-
1926	R. L. Polk Co.	-	-	-	-
1925	R. L. Polk Co. of California	-	X	X	-
	R. L. Polk Co. of California	X	X	X	-
1922	R. L. Polk Co.	-	X	X	-
	R. L. Polk Co.	X	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	***Type***	***Findings***
see notes	Client Entered	
1161 Lick Ave	Client Entered	
1301 Lick Ave	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

1197 Lick Avenue
San Jose, CA 95110

FINDINGS DETAIL

Target Property research detail.

Lick Ave

1161 Lick Ave

Year	Uses	Source

LICK AVE

1181 LICK AVE

Year	Uses	Source
2000	NO CURRENT LISTING	Haines & Company
1986	ODay Wm A	Pacific Bell
	Odd Ball Tire Warehouse	Pacific Bell
1985	ODD-BALL TIRE WAREHOUSE	Pacific Bell

1193 LICK AVE

Year	Uses	Source
2000	NO CURRENT LISTING	Haines & Company
1986	Bonner Anodize	Pacific Bell
	Future Market Distributors	Pacific Bell
	Southbay Racing	Pacific Bell
	T&G Distributors	Pacific Bell
	Wood Clasics	Pacific Bell
1985	DIVERSIFIED FINANCIAL SERVICES	Pacific Bell
	FUTURE MARKET DISTRIBUTORS	Pacific Bell
	P D Q ANODIZING	Pacific Bell
	SOUTHBAY RACING	Pacific Bell
	SUMMERS KEVIN TIRE MOUNTING	Pacific Bell
	T&G DISTRIBUTORS	Pacific Bell
	WOOD CLASICS	Pacific Bell
1975	California Canners & Growers Plant	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	California Canners & Growers Plant	R. L. Polk & Co.
1966	CALIFORNIA CANNERS & GROWERS PLANT 2 CANNERS	R. L. Polk & Co.
1963	Employment Office	Pacific Telephone
	Main Office	Pacific Telephone
	Receiving Department	Pacific Telephone
	San Jose Canning Co	Pacific Telephone
1960	San Jose Canning Co	R. L. Polk Co.
1955	San Jose Canning Co	R. L. Polk Co.
1950	San Jose Canning Co	R. L. Polk & Co.
1945	San Jose Canning Co	R. L. Polk Co.
1940	S J Canning Co	R. L. Polk & Co.
1935	San Jose Canning Co Inc	R. L. Polk & Co. of California

1195 LICK AVE

Year	Uses	Source
2000	NO CURRENT LISTING	Haines & Company
1986	A One Custom Cabinets	Pacific Bell
	BARNARDS CUSTOM CABINET SHOP	Pacific Bell
	CUPBOARD SHOPPE THE	Pacific Bell
	Just Woods	Pacific Bell
	Sierra Cabinets Inc	Pacific Bell
1985	BARNARD S CUSTOM CABINET SHOP	Pacific Bell
	CUPBOARD SHOPPE THE	Pacific Bell
	FAMILY TRADITION PONYS	Pacific Bell
	WESTBEND HARDWOODS INC	Pacific Bell

1197 LICK AVE

Year	Uses	Source
2013	TAMIEN CHILD CARE CENTER	Cole Information Services
2008	TAMIEN CHILD CARE CENTER	Cole Information Services
2006	CARE CENTER	Haines Company, Inc.
	TAMIENCHILD	Haines Company, Inc.
2000	TAMIEN CHILD CARE CENTER	Haines & Company
1996	TAMIEN CHILD CARE CENTER	Pacific Bell

1201 LICK AVE

Year	Uses	Source
2000	NO CURRENT LISTING	Haines & Company
1986	Piano Workshop The	Pacific Bell

FINDINGS

Year	Uses	Source
1985	PIANO WORKSHOP THE	Pacific Bell

1211 LICK AVE

Year	Uses	Source
1986	D & M Body Shop	Pacific Bell

1219 LICK AVE

Year	Uses	Source
2000	NO CURRENT LISTING	Haines & Company
1986	Barry Craft Enterprises	Pacific Bell
	Hansen Design	Pacific Bell
1985	GUARANTEED PRECISION	Pacific Bell

1221 LICK AVE

Year	Uses	Source
1986	D & Bingo Supplies	Pacific Bell
	Grannis Dick Associates	Pacific Bell
	Toy Registry Of America	Pacific Bell

1245 LICK AVE

Year	Uses	Source
1986	American Tank & Trailer Repair	Pacific Bell
	PERRYS AUTO REPAIR	Pacific Bell
	Sundance Cabinets	Pacific Bell
1985	AMERICAN TANK & TRAILER REPAIR	Pacific Bell

1251 LICK AVE

Year	Uses	Source
2000	NO CURRENT LISTING	Haines & Company

1261 LICK AVE

Year	Uses	Source
1930	Vacant	R. L. Polk & Co. of California
	W Humboldt San Jose Canning Co Inc	R. L. Polk & Co. of California

1271 LICK AVE

Year	Uses	Source
2000	NO CURRENT LISTING	Haines & Company
1986	JKAuto Body	Pacific Bell
1985	PERRY S AUTO REPAIR	Pacific Bell

FINDINGS

1275 LICK AVE

Year	Uses	Source
1986	Fiberglass Unlimited	Pacific Bell
1985	FIBERGLASS UNLIMITED	Pacific Bell

1281 LICK AVE

Year	Uses	Source
1986	All VW Shop	Pacific Bell
	For Your Body Only	Pacific Bell
	TRIUMPHS ONLY	Pacific Bell
1985	FOR YOUR BODY ONLY	Pacific Bell
	RKE RACING	Pacific Bell
	TRIUMPHS ONLY	Pacific Bell

1291 LICK AVE

Year	Uses	Source
2000	NO CURRENT LISTING	Haines & Company
1986	Arcon Concrete	Pacific Bell

Lick Ave

1301 Lick Ave

Year	Uses	Source

LICK ST

1261 LICK ST

Year	Uses	Source
1925	Montalbano Angelo	R. L. Polk Co. of California
1922	Vacant	R. L. Polk Co.

see notes

see notes

Year	Uses	Source

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

FLOYD

390 FLOYD

Year	Uses	Source
1957	Eckstrom Leonard Calif Dry Wall Taping Co	R. L. Polk Co.

FLOYD AVE

379 FLOYD AVE

Year	Uses	Source
1957	Paden DO	R. L. Polk Co.

FLOYD ST

344 FLOYD ST

Year	Uses	Source
2006	JIMENEZArddo J	Haines Company, Inc.
2000	APARTMENTS	Haines & Company
	FLORES Rosa	Haines & Company
	GREEN Stanley	Haines & Company
	LIZARDE Guadalupe	Haines & Company
	LOPEZ Roman C	Haines & Company
	LUNA Maria Guadalupe	Haines & Company
1991	CELAYA DEBRA	PACIFIC BELL WHITE PAGES
	Celaya Debra	PACIFIC BELL WHITE PAGES
1986	Junkeer Karen & T J	Pacific Bell
1985	JUNKEER KAREN & TJ	Pacific Bell
1980	Hurtado Jesus	Pacific Telephone
1975	CAUDILLO LYDIA	Pacific Telephone
	NOWTON FANNIE	Pacific Telephone
	Apartments	Pacific Telephone
	lCarboni L	Pacific Telephone
	Malato J	Pacific Telephone
	Scardina L	Pacific Telephone
	FRAZER LUPE	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	Apartments	R. L. Polk & Co.
	Diaz Charles	R. L. Polk & Co.
	No Return	R. L. Polk & Co.
	Vacant	R. L. Polk & Co.
	Newton Fannie Mrs	R. L. Polk & Co.
1966	APARTMENTS	R. L. Polk & Co.
	TREVINO ROBT	R. L. Polk & Co.
	BEESON J C	R. L. Polk & Co.
	DRYBREAD DONNA M	R. L. Polk & Co.
	AZURE RAYMOND J	R. L. Polk & Co.
1963	Brisbin Dennis E	Pacific Telephone
1960	Apartments	R. L. Polk Co.
	Potter Alfred C	R. L. Polk Co.
	Renfroe Henry S	R. L. Polk Co.
	Martin Estelle Y	R. L. Polk Co.
	Venezio Jack V	R. L. Polk Co.
	Street continued	R. L. Polk Co.

390 FLOYD ST

Year	Uses	Source
2013	WATER CLARITY PLUMBING INC	Cole Information Services
2008	WATER CLARITY PLUMBING INC	Cole Information Services
2000	CA DRYWALL CO	Haines & Company
	ECKSTROM Roger	Haines & Company
1996	CALIF DRYWALL CO	Pacific Bell
1986	Calif Drywall Co	Pacific Bell
1985	CALIF DRYWALL CO	Pacific Bell
1980	Moreno Co	Pacific Telephone
	Calif Drywall Co	Pacific Telephone
1975	California Dry Wall Co	Pacific Telephone
	CALIF DRYWALL CO	Pacific Telephone
1970	California Dry Wall Taping Co contrs	R. L. Polk & Co.
1966	CALIFORNIA DRY WALL TAPING CO CONTRS	R. L. Polk & Co.
1963	Calif Dry Wall Taping Co	Pacific Telephone
1960	California Dry Wall Taping Co contrs	R. L. Polk Co.
1957	Calif Dry Wall Taping Co	R. L. Polk Co.
	ECKSTROM LEONARD CALIFF DRY WALL TAPING CO	Pacific Telephone
	CALIF DRY WA TAPING CO	Pacific Telephone

FINDINGS

GOODYEAR

360 GOODYEAR

Year	Uses	Source
1963	Tacci Sal	Pacific Telephone
1957	Jenkins Jas D	R. L. Polk Co.

364 GOODYEAR

Year	Uses	Source
1963	Cressio Ronald	Pacific Telephone

395 GOODYEAR

Year	Uses	Source
1963	Garozzo Sebastiano	Pacific Telephone
	BLACK TOP MAINTENANCE CO	Pacific Telephone

444 GOODYEAR

Year	Uses	Source
1957	Brown Merle D	R. L. Polk Co.

445 GOODYEAR

Year	Uses	Source
1963	Garner John	Pacific Telephone
	Garner Lois	Pacific Telephone

447 GOODYEAR

Year	Uses	Source
1957	Simons Raymond	R. L. Polk Co.

448 GOODYEAR

Year	Uses	Source
1957	Ferrero Jake	R. L. Polk Co.

449 GOODYEAR

Year	Uses	Source
1957	Beaudikofer Bob	R. L. Polk Co.

452 GOODYEAR

Year	Uses	Source
1957	Powell M L	R. L. Polk Co.

FINDINGS

GOODYEAR ST

360 GOODYEAR ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	NO CURRENT LISTING	Haines & Company
1985	SAUCEDA RAY	Pacific Bell
1975	No Return	Pacific Telephone
1970	Vacant	R. L. Polk & Co.
1966	TACCI SALVATORE S	R. L. Polk & Co.
1960	Jenkins Donald	R. L. Polk Co.
	Jenkins Donald	R. L. Polk Co.

362 GOODYEAR ST

Year	Uses	Source
1960	Nelson Lester A	R. L. Polk Co.
	San Jose House Movers	R. L. Polk Co.
	Kelley Howard L jr	R. L. Polk Co.

364 GOODYEAR ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	NO CURRENT LISTING	Haines & Company
1985	HUYNH THANH	Pacific Bell
1975	Hereford Curtis L	Pacific Telephone
1970	Hereford Curtis L	R. L. Polk & Co.
1966	LAMBERT THOS F	R. L. Polk & Co.
1957	NELSON LESTER	Pacific Telephone

395 GOODYEAR ST

Year	Uses	Source
2006	RAFAEL Jesus	Haines Company, Inc.
2000	GAROZZOSebastfaiw	Haines & Company
1996	Garozzo Sebastlano	Pacific Bell
1991	Garozzo Sebastiano	PACIFIC BELL WHITE PAGES
	GAROZZO SEBASTIANO	PACIFIC BELL WHITE PAGES
1986	Garozzo Sebastiano	Pacific Bell
1985	GAROZZO SEBASTIANO	Pacific Bell
1980	Garozzo Sebastiano	Pacific Telephone
1975	Garozzo Sebastino	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	BLACK TOP MAINTENANCE CO	Pacific Telephone
	GAROZZO SEBASTIANO	Pacific Telephone
1970	Garozzo Sebastino	R. L. Polk & Co.
1966	GAROZZO SEBASTINO	R. L. Polk & Co.
1960	Carozza Sebastino	R. L. Polk Co.
1955	Carrillo Joe	R. L. Polk Co.
1950	Edwards PFC Mrs	R. L. Polk & Co.
1945	Edwards F C Mrs	R. L. Polk Co.
1940	Scamborini Anna Mrs	R. L. Polk & Co.
1935	Scamborini Angelina Mrs	R. L. Polk & Co. of California

412 GOODYEAR ST

Year	Uses	Source
1945	Mercurio J A	R. L. Polk Co.

418 GOODYEAR ST

Year	Uses	Source
1945	Spooner J P	R. L. Polk Co.
1940	Sacco John	R. L. Polk & Co.

425 GOODYEAR ST

Year	Uses	Source
1925	Cassetti Jos	R. L. Polk Co. of California
1922	Cassetti Jos	R. L. Polk Co.
	Bica Mariano	R. L. Polk Co.

426 GOODYEAR ST

Year	Uses	Source
1925	Bica Vito	R. L. Polk Co. of California

444 GOODYEAR ST

Year	Uses	Source
2006	FLORES Victor Ivan	Haines Company, Inc.
	CARRILLO Ruben	Haines Company, Inc.
2000	FLORES Vcor Ivan	Haines & Company
	CARRILl ORuben	Haines & Company
1980	Hernandez Remiio	Pacific Telephone
1975	Ppwell Dean H	Pacific Telephone
1970	Carrillo Joseph	R. L. Polk & Co.
1966	CARRILLO JOSEPH	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1960	Vacant	R. L. Polk Co.
1955	Beall Walter	R. L. Polk Co.

445 GOODYEAR ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	NO CURRENT LISTING	Haines & Company
1986	Gonzales Guillermo	Pacific Bell
1985	GONZALES GUILLERMO	Pacific Bell
1975	Vacant	Pacific Telephone
1970	Vacant	R. L. Polk & Co.
1966	GUAAJARDO JORJE	R. L. Polk & Co.
1960	Marilli Nino	R. L. Polk Co.
1957	OPULENCIA FREDERICK R	Pacific Telephone
1955	Opulencia Fredk	R. L. Polk Co.

447 GOODYEAR ST

Year	Uses	Source
2006	Isabel	Haines Company, Inc.
	FREGOSO Maria	Haines Company, Inc.
2000	NO CURRENT LISTING	Haines & Company
1975	Vacant	Pacific Telephone
1970	Tinaco Manuel	R. L. Polk & Co.
1966	VACANT	R. L. Polk & Co.
1960	Kyne Gary	R. L. Polk Co.
1957	SIMONS RAYMOND	Pacific Telephone
1955	Thull Floyd J	R. L. Polk Co.

448 GOODYEAR ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	HADFIELOWaoer	Haines & Company
1975	Diaz Mondo	Pacific Telephone
1970	Vacant	R. L. Polk & Co.
1966	RING BERTHA MRS	R. L. Polk & Co.
1960	Ferrero Jacob	R. L. Polk Co.
1955	Ferrero Jacob	R. L. Polk Co.
1950	Manning MM Mrs	R. L. Polk & Co.

449 GOODYEAR ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	SHEHYI	Haines & Company
1975	Aldana Eli J Jr	Pacific Telephone
	PEREZ PAUL A	Pacific Telephone
1970	Tafoya Audrey Mrs	R. L. Polk & Co.
1966	TAFOYA AUDREY MRS	R. L. Polk & Co.
1960	Holsinger Ruth M	R. L. Polk Co.
1957	BEAUDIKOFER BOB	Pacific Telephone
1955	Beaudikofer Robt	R. L. Polk Co.

452 GOODYEAR ST

Year	Uses	Source
2008	LOGON PRO LANDSCAPE MANAGEMENT	Cole Information Services
2006	GONZALES Daniel	Haines Company, Inc.
2000	GONZALESDanrri	Haines & Company
1975	Powell Jerry L	Pacific Telephone
	JOE S PAINTING	Pacific Telephone
1970	Powell Johnnie Mrs	R. L. Polk & Co.
1966	LOVETT RAY	R. L. Polk & Co.
	POWELL JOHNNY V MRS	R. L. Polk & Co.
1960	Powell Carl L	R. L. Polk Co.
1957	POWELL M L	Pacific Telephone
1955	Powell Carl	R. L. Polk Co.
1950	Juliano L J	R. L. Polk & Co.

HUMBOLDT ST W

301 HUMBOLDT ST W

Year	Uses	Source
2000	NO CURRENT LISTING	Haines & Company

316 HUMBOLDT ST W

Year	Uses	Source
2000	GONZALEZTeresa	Haines & Company
1975	Gonzalez Juventino	Pacific Telephone
1970	Vacant	R. L. Polk & Co.
1966	VACANT	R. L. Polk & Co.
1960	Riveria Carmen Mrs	R. L. Polk Co.

FINDINGS

Year	Uses	Source
1955	Caveria Carmen Mrs	R. L. Polk Co.
1950	Orlando Lena Mrs	R. L. Polk & Co.
1945	Orlando Lana Mrs	R. L. Polk Co.
1940	Canizzaro Thos	R. L. Polk & Co.
1935	Orlando J G o	R. L. Polk & Co. of California

324 HUMBOLDT ST W

Year	Uses	Source
2000	LAGUNA Maria R	Haines & Company
1975	Ybarra Alex	Pacific Telephone
1970	Ybarra Alex	R. L. Polk & Co.
1966	BALCAZAR VIRGIL C	R. L. Polk & Co.
1960	Tanda John M	R. L. Polk Co.
1955	Tanda John M	R. L. Polk Co.
1950	Pileggi Jos	R. L. Polk & Co.
1945	Geraci P L	R. L. Polk Co.
1940	Orlando Rosalie Mrs	R. L. Polk & Co.
1935	Orlando Gaetano o	R. L. Polk & Co. of California
1930	Orlando J J	R. L. Polk & Co. of California
1925	Orlando Gaetano	R. L. Polk Co. of California
1922	Orlando Gaetano	R. L. Polk Co.

328 HUMBOLDT ST W

Year	Uses	Source
1940	Martin L C	R. L. Polk & Co.
1935	Martin L C o	R. L. Polk & Co. of California
1930	Martin L C o	R. L. Polk & Co. of California
1925	Martin L C	R. L. Polk Co. of California
1922	Martin L C	R. L. Polk Co.

Lick Av

1085 Lick Av

Year	Uses	Source
1957	Ranicadore I San Jose Canning Co	R. L. Polk Co.

FINDINGS

LICK AVE

1076 LICK AVE

Year	Uses	Source
1975	MORILLA DEBBIE	Pacific Telephone

1078 LICK AVE

Year	Uses	Source
2006	TORResjullo	Haines Company, Inc.
1975	Mercado Joanne	Pacific Telephone
	MERCADO JOANNE	Pacific Telephone
1970	Ragonesi Sharon	R. L. Polk & Co.
1966	VACANT	R. L. Polk & Co.
1963	Ryan Pat Mrs	Pacific Telephone
	Ryan Denis	Pacific Telephone
1960	Lines Harry E	R. L. Polk Co.

1080 LICK AVE

Year	Uses	Source
2006	MUNOZ Gerardo	Haines Company, Inc.
	TORRES Emilia	Haines Company, Inc.
2000	VILIATORO Gregoria	Haines & Company
1975	GUARDADO JOHNNY IOS	Pacific Telephone
	Vacant	Pacific Telephone
1970	Brown Harold D	R. L. Polk & Co.
1966	BAN JOE	R. L. Polk & Co.
1963	Keys J H	Pacific Telephone
1960	Keys Jean H Mrs	R. L. Polk Co.

1086 LICK AVE

Year	Uses	Source
2006	a RIVAS Adolfo	Haines Company, Inc.
2000	GAROZZO Sebastiano	Haines & Company
1975	Tornabene Louis E	Pacific Telephone
	TORNABENE LOUIS E JR	Pacific Telephone
1970	Du Going A Garozzo	R. L. Polk & Co.
1966	RAGONESI ANTHONY	R. L. Polk & Co.
1963	Morgan Harold J	Pacific Telephone
1960	Da Prato John	R. L. Polk Co.
1957	Da Prato Lino	R. L. Polk Co.

FINDINGS

Year	Uses	Source
1957	DA PRATO LINO	Pacific Telephone
1955	Desco Mari	R. L. Polk Co.

1089 LICK AVE

Year	Uses	Source
2006	PATINO Manuel	Haines Company, Inc.
	MACIAS David	Haines Company, Inc.
	PACHECO Elizabeth	Haines Company, Inc.
2000	MACIAS Eliodoro	Haines & Company
1991	PEREZ JOSE	PACIFIC BELL WHITE PAGES
	Perez Jose	PACIFIC BELL WHITE PAGES
1980	Macias David	Pacific Telephone
1975	MACIAZ DAVID	Pacific Telephone
	Maciaz David	Pacific Telephone
1970	Giardone Josephine	R. L. Polk & Co.
	Hall Sandy	R. L. Polk & Co.
1966	GIADONE JOSEPHNNE MRS	R. L. Polk & Co.
1963	Giadone Luca	Pacific Telephone
1960	Gladone Lucas	R. L. Polk Co.
1957	Giadone Luca	R. L. Polk Co.
	GIADONE LUCA	Pacific Telephone
1955	Giadone Lucas	R. L. Polk Co.
1950	Giadone Lucas	R. L. Polk & Co.
1945	Giadone Lucas	R. L. Polk Co.
1940	Gladone Lucas	R. L. Polk & Co.
1935	Giadone Lucas	R. L. Polk & Co. of California
1930	Marden Bert	R. L. Polk & Co. of California

1091 LICK AVE

Year	Uses	Source
2006	a ZEPEDARuby	Haines Company, Inc.
2000	MONAHAN Stuart	Haines & Company
1975	Magana Juan P	Pacific Telephone
	MAQANA JUAN	Pacific Telephone
1970	Magana Juan P	R. L. Polk & Co.
1966	SILVA MARY E MRS	R. L. Polk & Co.
	DALGADO JOHN R	R. L. Polk & Co.
1963	Silva Mary Mrs	Pacific Telephone
1960	Silva Mary E Mrs	R. L. Polk Co.

FINDINGS

Year	Uses	Source
1955	Silva Mary E Mrs	R. L. Polk Co.
1950	Silva M E Mrs	R. L. Polk & Co.
1945	Silva M E Mrs	R. L. Polk Co.
1940	Silva Mary Mrs	R. L. Polk & Co.
1935	Persson Nicklas o	R. L. Polk & Co. of California
1930	Persson Nich o	R. L. Polk & Co. of California

1096 LICK AVE

Year	Uses	Source
2006	SABALSAAnnra	Haines Company, Inc.
	CRUZ Juan S	Haines Company, Inc.
	a CANALESJuan	Haines Company, Inc.
2000	GAROZZO Sabastiano	Haines & Company
1975	Ragonessi Fred	Pacific Telephone
1970	Ragonesi Alfio J	R. L. Polk & Co.
1966	RAGONESI ALFIO J	R. L. Polk & Co.
1963	Ragonesi Fred	Pacific Telephone
1960	Ragonesi Alfio J	R. L. Polk Co.
1957	Capps David Mrs	R. L. Polk Co.
	CAPPS DAVID MRS	Pacific Telephone
1955	Vacant	R. L. Polk Co.
1950	Agnoletti Raymond	R. L. Polk & Co.
1945	Call Philip	R. L. Polk Co.
1940	Bilognia Jos	R. L. Polk & Co.
1935	Rancadore Marco o	R. L. Polk & Co. of California
1930	Rancadore Marco o	R. L. Polk & Co. of California

1101 LICK AVE

Year	Uses	Source
1960	Beall Robt L	R. L. Polk Co.
1955	Fulton Homer W	R. L. Polk Co.
1950	Cavallaro Dominic	R. L. Polk & Co.
1945	Boone W R	R. L. Polk Co.
1940	Del Gado Josephine Mrs	R. L. Polk & Co.
1935	Heinsen G A o	R. L. Polk & Co. of California
1930	Heinsen G A o	R. L. Polk & Co. of California

FINDINGS

1102 LICK AVE

Year	Uses	Source
2000	GUNDEL Alli	Haines & Company
1975	Lo Bue Ignazia Mrs	Pacific Telephone
	LO BUE IGNAZIA	Pacific Telephone
1970	Lo Bue Ignazia Mrs	R. L. Polk & Co.
1966	LO SUE INASSIA MRS	R. L. Polk & Co.
1963	Lo Bue Ignazia	Pacific Telephone
	Lo Bue Ignazia	Pacific Telephone
1960	Lo Bue Vito	R. L. Polk Co.
1957	Lo Bue Vito r	R. L. Polk Co.
	LO BUE VITO R	Pacific Telephone
1955	Lo Bue Vito	R. L. Polk Co.
1950	Lo Bue Vito	R. L. Polk & Co.
1945	Lo Bue Vito	R. L. Polk Co.
1940	Lo Bue Vito	R. L. Polk & Co.
1935	Lo Bue Vito o	R. L. Polk & Co. of California

1103 LICK AVE

Year	Uses	Source
2006	HERNANDEZJ	Haines Company, Inc.
2000	HERNANDEZ R	Haines & Company
1991	ANAYA MARIA	PACIFIC BELL WHITE PAGES
	Anaya Maria	PACIFIC BELL WHITE PAGES

1106 LICK AVE

Year	Uses	Source
2006	SPERAYRobed	Haines Company, Inc.
2000	SPERAY Robert	Haines & Company
	SPERAY Robert	Haines & Company
1991	Skinner Marvin Jr	PACIFIC BELL WHITE PAGES
	Speray Robert	PACIFIC BELL WHITE PAGES
	Speray Robert	PACIFIC BELL WHITE PAGES
	SKINNER MARVIN JR	PACIFIC BELL WHITE PAGES
	SPERAY ROBERT	PACIFIC BELL WHITE PAGES
	SPERAY ROBERT	PACIFIC BELL WHITE PAGES
1986	Lemke Al	Pacific Bell
1985	SPERAY ROBERT	Pacific Bell
1975	Wasserman Allan W	Pacific Telephone
	s Bartlett Diana	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	BARTLETT DIANA	Pacific Telephone
1970	Davis Jerry R	R. L. Polk & Co.
	Lomrnabene Lewis	R. L. Polk & Co.
1966	FREER CHARLES L	R. L. Polk & Co.
	1/2 VALLELUNGA AUGUSTINE S	R. L. Polk & Co.
1963	Freer Alberta Mrs	Pacific Telephone
	Freer Chas L	Pacific Telephone
	Freer Ken	Pacific Telephone
1960	Roncone Ralph	R. L. Polk Co.
	1/2 Giammusso Joseph	R. L. Polk Co.
1957	Roncone Raiph	R. L. Polk Co.
	RONCONE RAIPL	Pacific Telephone
1955	Racone Ralph	R. L. Polk Co.
	1/2 Drew Ronald S	R. L. Polk Co.
1950	Panzica Devito	R. L. Polk & Co.
	1/2 Vacant	R. L. Polk & Co.
1945	Lombardo Jos	R. L. Polk Co.
	1/2 La Rocca P J	R. L. Polk Co.
1940	Panzica Ignazio	R. L. Polk & Co.
	1/2 Vacant	R. L. Polk & Co.

1106 1/2 LICK AVE

Year	Uses	Source
1985	LEMKE AL	Pacific Bell

1109 LICK AVE

Year	Uses	Source
2006	a CARRILLO Del Ia	Haines Company, Inc.
2000	CARRILLO Delia	Haines & Company
1975	Schulther James	Pacific Telephone
1970	Janoff Robt N	R. L. Polk & Co.
1966	DEVICH WAYNE L	R. L. Polk & Co.
1960	Bailey Anna R Mrs	R. L. Polk Co.
1957	BELL DARYL	Pacific Telephone
1955	Kranker John	R. L. Polk Co.

1112 LICK AVE

Year	Uses	Source
2006	a GINN Daniel	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2000	FAENZA Ian	Haines & Company
	GINN Daniel	Haines & Company
1975	Romero Virgil	Pacific Telephone
1970	Torres Bill Mrs	R. L. Polk & Co.
1966	MELIGNANO THOS	R. L. Polk & Co.
1963	Franzone Peter	Pacific Telephone
1960	Franzone Peter	R. L. Polk Co.
1957	Franzone Peter r	R. L. Polk Co.
	FRANZONE PETER R	Pacific Telephone
1955	Franzone Peter	R. L. Polk Co.
1950	Prazone Peter	R. L. Polk & Co.
1945	Signorelli Nick	R. L. Polk Co.
1940	Mogliogio Anthony	R. L. Polk & Co.
1935	Colletta A H	R. L. Polk & Co. of California
	Colletta Frank	R. L. Polk & Co. of California

1116 LICK AVE

Year	Uses	Source
2006	a MARQUEZ Elias	Haines Company, Inc.
2000	MARQUEZ Elias	Haines & Company
1996	Marquez Elias	Pacific Bell
1991	Marquez Elias	PACIFIC BELL WHITE PAGES
	MARQUEZ ELIAS	PACIFIC BELL WHITE PAGES
1975	Martinez Nicholas Jr	Pacific Telephone
1970	Martinez Nicholas Jr	R. L. Polk & Co.
1966	MARTINEZ JUAN	R. L. Polk & Co.
1963	Martinez Juan	Pacific Telephone
1960	Rossi Ernest V	R. L. Polk Co.
1955	Parks Joe	R. L. Polk Co.
1950	Bova Tony	R. L. Polk & Co.
1945	Mirto Jos	R. L. Polk Co.
1940	Musladin John	R. L. Polk & Co.
1935	Merto Jos o	R. L. Polk & Co. of California
1930	Flores Jos	R. L. Polk & Co. of California
	Flores Jos jr	R. L. Polk & Co. of California

1135 LICK AVE

Year	Uses	Source
2006	a GOMEZ Anthony	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2000	GOMEZ Anthony	Haines & Company
1975	Roncone Ralph	Pacific Telephone
1970	Roncone Ralph	R. L. Polk & Co.
1966	RANCONE RALPH	R. L. Polk & Co.
1963	Roncone Ralph	Pacific Telephone
1960	Serra Luigi	R. L. Polk Co.
1955	Baxter Clarence E	R. L. Polk Co.
1950	Ferrara Geo	R. L. Polk & Co.

1141 LICK AVE

Year	Uses	Source
2000	NO CURRENT LISTING	Haines & Company
1986	ALMADEN LUMBER CO	Pacific Bell

1145 LICK AVE

Year	Uses	Source
1957	Wills Richard W	R. L. Polk Co.
1955	Wills Richd W	R. L. Polk Co.
1950	Wills R W	R. L. Polk & Co.
1945	Vacant	R. L. Polk Co.
1940	DAsaro Louis	R. L. Polk & Co.

1150 LICK AVE

Year	Uses	Source
2006	e ANGELLId Ia	Haines Company, Inc.
2000	ANGEL Lidia	Haines & Company
1975	Guerrero Ruth Mrs	Pacific Telephone
1970	Guerrero Ruth Mrs	R. L. Polk & Co.
1966	GUERRERO ROSE MRS	R. L. Polk & Co.
1960	Guererro Nasario	R. L. Polk Co.
1957	GUERRERO NASARIO R	Pacific Telephone
1955	Molina Lino	R. L. Polk Co.
1950	Guerrero N R	R. L. Polk & Co.
1945	Nazario Guerrero	R. L. Polk Co.
1940	Izor R J	R. L. Polk & Co.
1935	Izor Richd	R. L. Polk & Co. of California
1930	Izor Richd	R. L. Polk & Co. of California

FINDINGS

1156 LICK AVE

Year	Uses	Source
1940	Gullo S M	R. L. Polk & Co.

1158 LICK AVE

Year	Uses	Source
2006	a ALMANZAManuel	Haines Company, Inc.
2000	ALMANZA Manuel	Haines & Company
1975	Almanza Manuel P	Pacific Telephone
1970	Lo Presto Constantino J	R. L. Polk & Co.
1966	LO PRESTO CONSTANTINO J	R. L. Polk & Co.
1963	Lo Presto C J	Pacific Telephone
1960	Lo Presto Constantino J	R. L. Polk Co.
1957	Lo Presto C J r	R. L. Polk Co.
	LO PRESTO C J R	Pacific Telephone
1955	Lo Presto Costantino J	R. L. Polk Co.
1950	Lo Presto C J	R. L. Polk & Co.
1945	Lo Presto C J	R. L. Polk Co.
1940	Corral Louisa Mrs	R. L. Polk & Co.
1935	Gullo L M o	R. L. Polk & Co. of California
1930	Gullo L M	R. L. Polk & Co. of California

1166 LICK AVE

Year	Uses	Source
2006	a VILLEGAS Hector	Haines Company, Inc.
	CORSAJose	Haines Company, Inc.
2000	VILLEGAS Hector	Haines & Company
1986	Campa C	Pacific Bell
1985	CAMPA C	Pacific Bell
1980	Campa Rod V	Pacific Telephone
1975	Campa Rodrigo V	Pacific Telephone
	CAMPA ROD V	Pacific Telephone
1970	Campa Rodrigo V	R. L. Polk & Co.
1966	LAMM WILLIE	R. L. Polk & Co.
	ESQUER JOSE L	R. L. Polk & Co.
	CAMPA RODRIGO V	R. L. Polk & Co.
1963	Campa Rod V	Pacific Telephone
1960	Campa Rodredo V	R. L. Polk Co.
1957	NORMAN J M L	Pacific Telephone
1955	Norman Jas M	R. L. Polk Co.

FINDINGS

Year	Uses	Source
1950	Howlin V G	R. L. Polk & Co.
1945	Tudder M M	R. L. Polk Co.

1170 LICK AVE

Year	Uses	Source
2006	J&M DETAIL	Haines Company, Inc.
	a SORCI Peter	Haines Company, Inc.
2000	SORCI Peter	Haines & Company
	J & M DETAIL & TRIM	Haines & Company
1996	J & M DETAIL & TRIM	Pacific Bell
1991	ORTIZ AUTO DETAILING	PACIFIC BELL WHITE PAGES
	Ortiz Auto Detailing	PACIFIC BELL WHITE PAGES
1975	Alvacado Salvador	Pacific Telephone
	Esquer Amelia Mrs	Pacific Telephone
1970	Esquer Jose L	R. L. Polk & Co.
	Aguilar Anthony	R. L. Polk & Co.
1963	Ramirez Alex	Pacific Telephone
1960	Rodriguez John	R. L. Polk Co.
	Espinoza Frank	R. L. Polk Co.
1955	Sanchez Rudy	R. L. Polk Co.

1172 LICK AVE

Year	Uses	Source
2006	SORCI AUTO SALES	Haines Company, Inc.
2000	G T CAR CONNECTION W	Haines & Company
	SORCI AUTO SALES	Haines & Company
	SORCI Peter	Haines & Company
1996	G T CAR CONNECTION	Pacific Bell
	A SORCI AUTO SALES	Pacific Bell
1991	SORCI AUTO SALES	PACIFIC BELL WHITE PAGES
	Sorci Auto Sales	PACIFIC BELL WHITE PAGES
1986	JM Detail & Trim Shop	Pacific Bell
	Sorci Auto Sales	Pacific Bell
1985	A & F FRAME & BODY REPAIR SHOP	Pacific Bell
	JM DETAIL & TRIM SHOP	Pacific Bell
	SORCI AUTO SALES	Pacific Bell
1980	Sorci Automotive	Pacific Telephone
1975	Selco Heating & Sheet Metal	Pacific Telephone
1970	Vacant	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1966	SANTACROCE BROS CABINET SHOP CABT MKRS	R. L. Polk & Co.
1963	AGNOLETTI LEON UPHOLSTERING	Pacific Telephone
1960	Thomas Metal Products mfrs	R. L. Polk Co.
1957	Thomas Metal Products	R. L. Polk Co.
	THOMAS METAL PRODUCTS	Pacific Telephone
1955	Nazzisi Nick	R. L. Polk Co.
1950	Fink Mae	R. L. Polk & Co.
	Fink R W	R. L. Polk & Co.
1945	Caserta F S	R. L. Polk Co.
1940	Caserta Jos	R. L. Polk & Co.
1935	Caserta Jos o	R. L. Polk & Co. of California
1930	Cassetti Jos	R. L. Polk & Co. of California

1194 LICK AVE

Year	Uses	Source
2013	WEST COAST MARBLE GRANITE	Cole Information Services
	WEST COAST MARBLE GRANITE	Cole Information Services
2008	WEST COAST MARBLE & GRANITE	Cole Information Services
	WEST COAST MARBLE & GRANITE	Cole Information Services
2006	& GRANITE	Haines Company, Inc.
	WESTCSTMARBLE	Haines Company, Inc.
2000	BARNES BROS CONSTRUCTION	Haines & Company
	CHRISTIAN Elroy	Haines & Company
	WEST CST MARBLE & GRANITE	Haines & Company
1996	WEST COAST MARBLE & GRANITE	Pacific Bell
	BARNES BROS CONSTRUCTION	Pacific Bell
1986	Christian John Manufacturing Co	Pacific Bell
1985	CHRISTIAN JOHN MANUFACTURING CO	Pacific Bell
1980	CHRISTIAN JOHN MANUFACTURING CO	Pacific Telephone
1975	CHRISTIAN JOHN MANUFACTURING CO	Pacific Telephone
	Christian John Mfg Co agri implmnt	Pacific Telephone
1970	Christian John Mfg Co agrl implmnt	R. L. Polk & Co.
1966	CHRISTIAN JOHN MFG CO AGRL IMPLMNT	R. L. Polk & Co.
1963	Christian John Mfg Co	Pacific Telephone
1960	Christian John Mfg Corp agrl impit mfrs	R. L. Polk Co.
1957	Christian John Mfg Co	R. L. Polk Co.

FINDINGS

Year	Uses	Source
1957	CHRISTIAN JOHN MFG CO	Pacific Telephone
1955	Christian John Mfg Co agrl impl mfr	R. L. Polk Co.
1950	Christian John Mfg Co wldrs	R. L. Polk & Co.
1945	Christian John Mfg Co Widrs	R. L. Polk Co.
1940	Christian John Mfg Co welder	R. L. Polk & Co.
1935	Christian John Mfg Co harvester teeth N mfrs	R. L. Polk & Co. of California
1930	Christian John Mfg Co harvester teeth mfrs	R. L. Polk & Co. of California

1200 LICK AVE

Year	Uses	Source
2013	PALM COURT SENIOR HOMES	Cole Information Services
2008	PALM COURT SENIOR HOMES LLP	Cole Information Services
	LORETTA GAIL PHELPS	Cole Information Services
2006	ROMERO Ana F	Haines Company, Inc.
	SANDHU G	Haines Company, Inc.
	SHORTY Janice	Haines Company, Inc.
	SINGH Atamlj It	Haines Company, Inc.
	WELLMAN Richard M	Haines Company, Inc.
	XUPaul Bao Xi	Haines Company, Inc.
	8	Haines Company, Inc.
	PALMCTSRAPTS	Haines Company, Inc.
	AGUARISTI Maria	Haines Company, Inc.
	ALONZO Jose	Haines Company, Inc.
	BROWDEN Icylena	Haines Company, Inc.
	CHURCH Rosslinda F	Haines Company, Inc.
	FITCH Merver	Haines Company, Inc.
	FORDW	Haines Company, Inc.
	GRAHAM W	Haines Company, Inc.
	LETO E Louis	Haines Company, Inc.
	MACKEY Herman	Haines Company, Inc.
	MARTINEZ Esther	Haines Company, Inc.
	MINASAKANIAN	Haines Company, Inc.
	Carmen	Haines Company, Inc.
	NGUYEN Hoang	Haines Company, Inc.
	Thanh	Haines Company, Inc.
	PALM COURT	Haines Company, Inc.
	SENIOR HOMES	Haines Company, Inc.
	PALOMINO Virginia	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2006	REID Ruby	Haines Company, Inc.
	RODRIGUEZ S	Haines Company, Inc.
2000	PALM COURT SENIOR HOMES	Haines & Company

1202 LICK AVE

Year	Uses	Source
1975	Vacant	Pacific Telephone
1970	Vacant	R. L. Polk & Co.
1966	VACANT	R. L. Polk & Co.
	REAR FIORETTI POMPI D	R. L. Polk & Co.
1963	Fioretti Don	Pacific Telephone
	Fioretti Katherine	Pacific Telephone
1960	Vacant	R. L. Polk Co.
1955	Vacant	R. L. Polk Co.
1950	Vacant	R. L. Polk & Co.
1940	Vacant	R. L. Polk & Co.
1935	Vacant	R. L. Polk & Co. of California
1930	Garnella Domonic confr	R. L. Polk & Co. of California

1208 LICK AVE

Year	Uses	Source
1945	Moglioio Lena restr	R. L. Polk Co.

1212 LICK AVE

Year	Uses	Source
2000	NO CURRENT LISTING	Haines & Company
1986	I Harolds Body Shop	Pacific Bell
	Cooks Truck Body Manufacturing	Pacific Bell
	Harold Lucky Loe Bail Bonds	Pacific Bell

1218 LICK AVE

Year	Uses	Source
1955	Acosta Roy	R. L. Polk Co.
1950	Oropeza Gregorio	R. L. Polk & Co.
	Carrillo Gabino	R. L. Polk & Co.
1945	Orepeza Gregoria	R. L. Polk Co.
	Carillo Garvina	R. L. Polk Co.
1940	Cagno Albino	R. L. Polk & Co.
	Signorelli Nick	R. L. Polk & Co.
1935	Tursso A R	R. L. Polk & Co. of California

FINDINGS

Year	Uses	Source
1930	Stevens Chas	R. L. Polk & Co. of California

1244 LICK AVE

Year	Uses	Source
2013	VERTEX PRECISION MACHINING	Cole Information Services
2008	VERTEX PRECISION MACHINING	Cole Information Services
2006	RAMIREZAnltenio	Haines Company, Inc.
	VERTEX PRECISION	Haines Company, Inc.
	MACHINING	Haines Company, Inc.
2000	RAMIREZ Antonio	Haines & Company
1986	Ton Rra Precision Machining	Pacific Bell
	Ramirel Antonio A	Pacific Bell
1985	RAMIREL ANTONIO A	Pacific Bell
1975	MICRO-CHROME & LAPPING CO	Pacific Telephone
	Brown Jack	Pacific Telephone
1970	Vacant	R. L. Polk & Co.
1966	RUSSO THOS J	R. L. Polk & Co.
1960	Lugos Auto Upholstery Cleaning	R. L. Polk Co.
	Lugo Eladio	R. L. Polk Co.
1957	tlugo E	R. L. Polk Co.
	Lufthansa Germnan Airlines	R. L. Polk Co.
	LUGO E	Pacific Telephone
1955	Velarde Wm	R. L. Polk Co.
1950	Monico Carl	R. L. Polk & Co.
1945	Monica Carl	R. L. Polk Co.
1940	Pappas Theo	R. L. Polk & Co.
1935	Vierra A M	R. L. Polk & Co. of California
1930	Potter Andw	R. L. Polk & Co. of California
	Verser A D Mrs	R. L. Polk & Co. of California

1250 LICK AVE

Year	Uses	Source
2006	HERNANDEZJowe	Haines Company, Inc.
2000	NO CURRENT LISTING	Haines & Company
1991	MANNINA JOE	PACIFIC BELL WHITE PAGES
	Mannina Joe	PACIFIC BELL WHITE PAGES
1986	Mannina Joe	Pacific Bell
1985	MANNINA JOE	Pacific Bell
1980	Mannina Joe	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	Minnina Joseph	Pacific Telephone
	MINNINA JOE	Pacific Telephone
1970	Minnina Joseph	R. L. Polk & Co.
1966	MANNINA JOSEPH	R. L. Polk & Co.
1963	Minnina Joe	Pacific Telephone
1960	Mannina Joe	R. L. Polk Co.
1955	Mannina Cosimo	R. L. Polk Co.
1950	Mannina Salvatore	R. L. Polk & Co.
1945	Mannina Salvatore	R. L. Polk Co.
1940	Weldon M G	R. L. Polk & Co.
1935	Weldon M G o	R. L. Polk & Co. of California
1930	Vierra A W o	R. L. Polk & Co. of California

1256 LICK AVE

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.

1268 LICK AVE

Year	Uses	Source
2006	FOFANAAbdoulaye	Haines Company, Inc.

1290 LICK AVE

Year	Uses	Source
2000	LUCK ICE CREAM	Haines & Company
	PREVITERA John	Haines & Company
	SANDHU Satwant	Haines & Company
1996	LICK ICE CREAM	Pacific Bell
1991	CIRCUS ICE CRE AM CO	PACIFIC BELL WHITE PAGES
	GAY	PACIFIC BELL WHITE PAGES
	CIRCUS ICE CREAM CO	PACIFIC BELL WHITE PAGES
	Gay	PACIFIC BELL WHITE PAGES
	Cream Co	PACIFIC BELL WHITE PAGES
1986	CIRCUS ICE CREAM CO	Pacific Bell
	Gay	Pacific Bell
	See Circus Ice Cream Co	Pacific Bell
1985	CIRCUS ICE CREAM CO	Pacific Bell
	GAY 90 S ICE CREAM COMPANY SEE CIRCUS ICE CREAM CO	Pacific Bell
1980	GAY	Pacific Telephone
1975	Will Mech Vending Repair	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	BANALES AUTO REPAIRING & TOWING	Pacific Telephone
1970	Vacant	R. L. Polk & Co.
1966	PURETA SAUSAGE CO SR	R. L. Polk & Co.
1963	Pureta Sausage Co	Pacific Telephone
1960	Pureta Sausage Co br	R. L. Polk Co.
1957	Pureta Sausage Co	R. L. Polk Co.
	PURETA SAUSAGE CO	Pacific Telephone
1955	Pureta Sausage Co whse	R. L. Polk Co.
1950	Pureta Sausage Co	R. L. Polk & Co.

1300 LICK AVE

Year	Uses	Source
1957	Rizzo Dominic	R. L. Polk Co.

1303 LICK AVE

Year	Uses	Source
2000	SPRIG ELECTRIC	Haines & Company
1996	SPRIG ELECTRIC	Pacific Bell
1991	SPRIG ELECTRIC	PACIFIC BELL WHITE PAGES
	Sprig Electric	PACIFIC BELL WHITE PAGES
1986	Sprig Electric	Pacific Bell
1985	SPRIG ELECTRIC	Pacific Bell
1980	Sprig Electric	Pacific Telephone
1975	Lo Bue L Farms	Pacific Telephone
	CARALLL CARLO F RIEST	Pacific Telephone
	LO BUE L FARMS	Pacific Telephone
	LO BUE S PLAZA OFFICE	Pacific Telephone
	LO BUE S PLAZA SHOPPING CENTER WHITE & STORY RD	Pacific Telephone
1970	Lo Bues Plaze Ofc	R. L. Polk & Co.
	Lo Bue L Farms	R. L. Polk & Co.
1966	LO BUE PACKING & LO SUE FARMS FRUIT PKRS	R. L. Polk & Co.
1963	Lo Bue Farms see Lo Bue Packng Co	Pacific Telephone
	Lo Bue Packing Co	Pacific Telephone
	Lo Bue Sal L Lo Bue Packing Co	Pacific Telephone
	Lo Bue Victor J Lo Bue Packng Co	Pacific Telephone
	Lo Bue Farms see Lo Bue Packng Co	Pacific Telephone
	Lo Bue Packing Co	Pacific Telephone
	Lo Bue Victor J Lo Bue Packng Co	Pacific Telephone

Year	Uses	Source
1963	Lo Bue Sal L Lo Bue Packing Co	Pacific Telephone

LICK ST

1080 LICK ST

Year	Uses	Source
1925	Rancadore Marco	R. L. Polk Co. of California

1089 LICK ST

Year	Uses	Source
1925	Pasopa Saml	R. L. Polk Co. of California
1922	Cacioppo Salvatore	R. L. Polk Co.

1091 LICK ST

Year	Uses	Source
1925	Persson Nicholas	R. L. Polk Co. of California
1922	Persson Nicholas	R. L. Polk Co.

1095 LICK ST

Year	Uses	Source
1925	Marchese Jos	R. L. Polk Co. of California
1922	Marchese Jos	R. L. Polk Co.

1101 LICK ST

Year	Uses	Source
1925	Heinsen G A	R. L. Polk Co. of California
1922	Heinsen G A	R. L. Polk Co.

1106 LICK ST

Year	Uses	Source
1925	Riccobuono Salvatore	R. L. Polk Co. of California
1922	Saso Michael	R. L. Polk Co.
	Tomasello Anthony	R. L. Polk Co.

1116 LICK ST

Year	Uses	Source
1925	Fratangelo Antonio	R. L. Polk Co. of California
1922	Fratangelo Antonio	R. L. Polk Co.

FINDINGS

1150 LICK ST

Year	Uses	Source
1925	Scurame Antone	R. L. Polk Co. of California

1158 LICK ST

Year	Uses	Source
1925	Gullo Lorenzo	R. L. Polk Co. of California
1922	Gullo Lorenzo	R. L. Polk Co.

1172 LICK ST

Year	Uses	Source
1925	Mirto Jos	R. L. Polk Co. of California
1922	Lomonto Santo	R. L. Polk Co.

1218 LICK ST

Year	Uses	Source
1925	Martin N S	R. L. Polk Co. of California
1922	Martin N S	R. L. Polk Co.
	Oberg E H	R. L. Polk Co.

1244 LICK ST

Year	Uses	Source
1925	Verser T C	R. L. Polk Co. of California

1250 LICK ST

Year	Uses	Source
1925	Brannan L R	R. L. Polk Co. of California
1922	Verser T C	R. L. Polk Co.

LOCUST

1149 LOCUST

Year	Uses	Source
1963	Turturici Ignatius	Pacific Telephone

1162 LOCUST

Year	Uses	Source
1957	Reyes Emma	R. L. Polk Co.

1164 LOCUST

Year	Uses	Source
1957	DAmico Fred	R. L. Polk Co.

FINDINGS

1178 LOCUST

Year	Uses	Source
1963	Larussa Tony Mrs	Pacific Telephone
	Imbornone Mary Mrs	Pacific Telephone
1957	Imbornone Wm Mrs	R. L. Polk Co.

1189 LOCUST

Year	Uses	Source
1963	La Rocca Josephine	Pacific Telephone

1196 LOCUST

Year	Uses	Source
1957	Bothelio Lorene	R. L. Polk Co.

1197 LOCUST

Year	Uses	Source
1963	La Fiesta Products	Pacific Telephone
1957	Cluff Marvin W	R. L. Polk Co.

1220 LOCUST

Year	Uses	Source
1980	Pancardo Marcos M	Pacific Telephone
1963	Pancardo Marcos M	Pacific Telephone

1225 LOCUST

Year	Uses	Source
1957	La Mantia Josephine	R. L. Polk Co.

1232 LOCUST

Year	Uses	Source
1963	Brancato Phillip J	Pacific Telephone

1234 LOCUST

Year	Uses	Source
1957	Walker Zellmrna	R. L. Polk Co.

1235 LOCUST

Year	Uses	Source
1963	Alongi Tony	Pacific Telephone
1957	Alongi Tony r	R. L. Polk Co.

FINDINGS

LOCUST DR

1149 LOCUST DR

Year	Uses	Source
1957	TURTURICI IGNATIUS R	Pacific Telephone

1164 LOCUST DR

Year	Uses	Source
1957	DAMICO FRED	Pacific Telephone

1197 LOCUST DR

Year	Uses	Source
1957	CLUFF MARVIN W	Pacific Telephone

1225 LOCUST DR

Year	Uses	Source
1991	CABALLERO ANTONIO BARRAGAN	PACIFIC BELL WHITE PAGES
1957	MAZZONE LOUIS R	Pacific Telephone

1234 LOCUST DR

Year	Uses	Source
1957	WALKER ZEL IMA	Pacific Telephone

1239 LOCUST DR

Year	Uses	Source
1957	LOV NIC R	Pacific Telephone

LOCUST ST

1148 LOCUST ST

Year	Uses	Source
2006	MARTINEZ May	Haines Company, Inc.
2000	AMEZCUA Valerie A	Haines & Company
1986	A louny Rosa Mrs	Pacific Bell
1985	A LOUNY ROSA MRS	Pacific Bell
1980	Ailouny Rosa Mrs	Pacific Telephone
1975	Ajlouny Rosa Mrs	Pacific Telephone
	AJLOUNY ROSA MRS	Pacific Telephone
1970	Deleon Umberto	R. L. Polk & Co.
1966	GONZALES BEATRICE MRS	R. L. Polk & Co.
1963	Keller Douglas A	Pacific Telephone

FINDINGS

Year	Uses	Source
1960	Roos John H	R. L. Polk Co.

1149 LOCUST ST

Year	Uses	Source
2006	e GARCIAAlfonso	Haines Company, Inc.
2000	PEREZ Bobby	Haines & Company
	MARTINEZ Patricia	Haines & Company
1996	Revelez Rebecca	Pacific Bell
1975	Turturici Ignatius	Pacific Telephone
	TURTURIC IGNATIUS	Pacific Telephone
1970	Turturici Ignatius	R. L. Polk & Co.
1966	TURTURICI IGNATIUS	R. L. Polk & Co.
1963	Turturici Anthony R	Pacific Telephone
1960	Turturici Ignatius	R. L. Polk Co.
1957	Turturici Ignatiu Ls r	R. L. Polk Co.
1955	Turturici Ignatius	R. L. Polk Co.
1950	Turturici Ignacio	R. L. Polk & Co.
1945	Turturici Ignacio	R. L. Polk Co.
1940	Turturici Ignatio	R. L. Polk & Co.
1925	Titus C R	R. L. Polk Co. of California
1922	Lockhart J P	R. L. Polk Co.

1154 LOCUST ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1970	Mills Westly	R. L. Polk & Co.
1966	VACANT	R. L. Polk & Co.
1960	Arace Luigino	R. L. Polk Co.
1955	Russo Horatio	R. L. Polk Co.

1156 LOCUST ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	NO CURRENT LISTING	Haines & Company
1985	MARTINEZ HOMER	Pacific Bell
1980	Gutierrez Sergio	Pacific Telephone
1975	BERNIAL MAT	Pacific Telephone
	Vacant	Pacific Telephone
1970	Zuniga James P	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1966	ZUNIGA JAMES P	R. L. Polk & Co.
1963	Landucci Donald R	Pacific Telephone
1960	Russo Joseph A	R. L. Polk Co.

1162 LOCUST ST

Year	Uses	Source
2006	e REYES Gerarda	Haines Company, Inc.
2000	REYES Gerarda	Haines & Company
1975	Reyes Blas	Pacific Telephone
1970	Reyes Bias	R. L. Polk & Co.
1966	REYES BLAS	R. L. Polk & Co.
1963	Reyes Lucy	Pacific Telephone
1960	Reyes Blas	R. L. Polk Co.
1955	Garcia Bonefacio	R. L. Polk Co.
1950	Mignano Francisco	R. L. Polk & Co.
1945	Mignano Frank	R. L. Polk Co.
1940	Mignano	R. L. Polk & Co.

1164 LOCUST ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1975	Vargas Ormando	Pacific Telephone
1970	Vacant	R. L. Polk & Co.
1966	MAMONE ROSE MRS	R. L. Polk & Co.
1960	Mamone Rose Mrs	R. L. Polk Co.
	DAmico Fred J	R. L. Polk Co.
1955	DAmico Alf	R. L. Polk Co.
	Mamone Jos	R. L. Polk Co.
1950	Gill A D	R. L. Polk & Co.
1945	Fanara Ignacio	R. L. Polk Co.
1940	Randazzo Vita Mrs	R. L. Polk & Co.
1925	Mignano Frank	R. L. Polk Co. of California

1165 LOCUST ST

Year	Uses	Source
2006	e SORCEMary	Haines Company, Inc.
2000	SORCE Mary	Haines & Company
1985	SORCE JOE	Pacific Bell
1975	Sorce Joe	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	SORCE JOE	Pacific Telephone
1970	Sorce Joe	R. L. Polk & Co.
1966	SORCE JOE	R. L. Polk & Co.
1963	Sorce Joe	Pacific Telephone
1960	Sorce Joe	R. L. Polk Co.
1955	Godwin Wm	R. L. Polk Co.
1950	Godwin W O	R. L. Polk & Co.
1945	Godwin W O	R. L. Polk Co.
1940	Roelling Emma Mrs	R. L. Polk & Co.
1925	Roelling Mrs Emma	R. L. Polk Co. of California

1166 LOCUST ST

Year	Uses	Source
2006	Francisco	Haines Company, Inc.
	CASTREJON	Haines Company, Inc.
2000	SANCHEZ Luis	Haines & Company
1985	MUNOZ M	Pacific Bell
1980	So J	Pacific Telephone
1975	Atman J G	Pacific Telephone
1970	Battistella Mario J Jr	R. L. Polk & Co.
1966	BATTISTELLA MARIO J JR	R. L. Polk & Co.
1963	Battistella Mario Jr	Pacific Telephone
1960	Venturini Frank E	R. L. Polk Co.
1955	Venturini Frank E	R. L. Polk Co.
1950	Venturini F E	R. L. Polk & Co.
1945	Venturrini F E	R. L. Polk Co.
1940	Venturrini Enrico	R. L. Polk & Co.
1925	Bone Gaspare	R. L. Polk Co. of California
1922	Bono Gaspare	R. L. Polk Co.

1167 LOCUST ST

Year	Uses	Source
1960	Valle Eddie Y	R. L. Polk Co.
1955	Habl Judy Mrs	R. L. Polk Co.
1950	Soldano Chas	R. L. Polk & Co.
1945	Azevedo M A	R. L. Polk Co.
1940	La Corte Jack	R. L. Polk & Co.

FINDINGS

1169 LOCUST ST

Year	Uses	Source
2006	LEDEZMAJasus	Haines Company, Inc.
2000	NO CURRENT LISTING	Haines & Company
1980	Owens Ron	Pacific Telephone
1975	LOOG PAT	Pacific Telephone
	Hutchenson T	Pacific Telephone

1171 LOCUST ST

Year	Uses	Source
2006	PRIVETTE Frankldn	Haines Company, Inc.
2000	FLAHARTY Kevin R	Haines & Company
	SHEETS David	Haines & Company
1975	Gonzales Juan	Pacific Telephone

1175 LOCUST ST

Year	Uses	Source
2006	SARA Doolln	Haines Company, Inc.
2000	BARAJAS Ernelinda	Haines & Company
1975	Panzia A	Pacific Telephone
1970	Trecheme Paul G	R. L. Polk & Co.
1966	DONZELLA FRANK	R. L. Polk & Co.

1177 LOCUST ST

Year	Uses	Source
2006	e DELGADOMaminc Ino	Haines Company, Inc.
2000	DELGADO Maximino	Haines & Company
1985	LOPEZ JOSE I	Pacific Bell
1975	Kato Lu Uie	Pacific Telephone
	ELLIS TOM	Pacific Telephone
1970	Squires Lucille	R. L. Polk & Co.
1966	SQUARE LUCILLE	R. L. Polk & Co.

1178 LOCUST ST

Year	Uses	Source
2006	a TRANHan	Haines Company, Inc.
2000	TRAN Han	Haines & Company
1996	tran Han	Pacific Bell
1986	Palm Richard	Pacific Bell
1985	PALM RICHARD	Pacific Bell
1980	Fon Its Marc & Angela	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	Buttell Anthony H	Pacific Telephone
1970	Imbornone Mary Mrs	R. L. Polk & Co.
1966	LARUSSA MARY MRS	R. L. Polk & Co.
1960	Larussa Mary Mrs	R. L. Polk Co.
1955	Imbornone W	R. L. Polk Co.
	Larussa Mary Mrs	R. L. Polk Co.

1189 LOCUST ST

Year	Uses	Source
2006	LARDOCCA Josephine	Haines Company, Inc.
2000	LAROCCA Josephine	Haines & Company
1975	La Rocca Josephine J	Pacific Telephone
1970	La Rocca Josephine J	R. L. Polk & Co.
1966	LA ROCCA JOSEPHINE J	R. L. Polk & Co.
1960	La Rocca Saml	R. L. Polk Co.
1957	La Rocca Josephine r	R. L. Polk Co.
	Larocca J J r	R. L. Polk Co.
	LA ROCCA JOSEPHINE R	Pacific Telephone
1955	La Rocca Saml	R. L. Polk Co.
1950	La Rocca Saml	R. L. Polk & Co.
1945	La Rocca Saml	R. L. Polk Co.
1940	Zitto Jas	R. L. Polk & Co.
1925	Zito Jas	R. L. Polk Co. of California
1922	Vincent C H	R. L. Polk Co.

1190 LOCUST ST

Year	Uses	Source
2006	e SCHNAIDTLaveme	Haines Company, Inc.
2000	ADACHI Susan	Haines & Company
	ADACHI Craig Y	Haines & Company
1996	Adachi Craig & Susan	Pacific Bell
1985	LUCAS LARRY & KAREN	Pacific Bell
1975	Kloven G H	Pacific Telephone
	KLOVEN G H	Pacific Telephone
1970	Vacant	R. L. Polk & Co.
1966	MODERN SHOE REPAIR	R. L. Polk & Co.
	RANDAZZO VITO	R. L. Polk & Co.
1960	Randazzo Vito	R. L. Polk Co.
	Modern Shoe Repair	R. L. Polk Co.

FINDINGS

Year	Uses	Source
1957	Randazzo Vito r	R. L. Polk Co.
	RANDAZZO VITO R	Pacific Telephone
1955	Randazzo Vito shoe repr	R. L. Polk Co.
1950	Randazzo Vito shoe repr	R. L. Polk & Co.
1945	Randazzo Vito	R. L. Polk Co.
1940	Randazzo Vito	R. L. Polk & Co.
1925	Petavine Geo	R. L. Polk Co. of California
1922	Cannella Saml	R. L. Polk Co.

1196 LOCUST ST

Year	Uses	Source
2006	e LAROCCA Michael	Haines Company, Inc.
2000	LAROCCA Josephine	Haines & Company
1986	Coughran Vera A	Pacific Bell
1975	Squires Lucille	Pacific Telephone
1970	No Return	R. L. Polk & Co.
1966	BOWEN ELENORE C MRS	R. L. Polk & Co.
1963	Bowen Elenore	Pacific Telephone
1960	Greenlee Carl W	R. L. Polk Co.
1955	La Rocca Philip S	R. L. Polk Co.
1950	La Rocca P S	R. L. Polk & Co.
1945	Sardegna A J	R. L. Polk Co.
1940	Mignano Chas	R. L. Polk & Co.
1925	Vacant	R. L. Polk Co. of California

1197 LOCUST ST

Year	Uses	Source
2013	SUNNYS QUICK STOP	Cole Information Services
2008	YOLANDAS MARKET NUMERO DOS	Cole Information Services
	ARTEAGAS JUMPERS	Cole Information Services
2006	YOLANDAS	Haines Company, Inc.
	MARKET NUMERO	Haines Company, Inc.
2000	GONZALEZ Ismael	Haines & Company
	LA FRONTERA	Haines & Company
1996	LA FRONTERA	Pacific Bell
1991	LA FRONTERA	PACIFIC BELL WHITE PAGES
	La Frontera	PACIFIC BELL WHITE PAGES
1985	TASTEE SANDWICH CO	Pacific Bell
1975	TASTEE SANDWICH CO	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	Tastee Sandwich Co	Pacific Telephone
1970	La Fiesta Products spices whol	R. L. Polk & Co.
	Snacks Phil S	R. L. Polk & Co.
1966	LA FIESTA PRODUCTS SPICES WHOL	R. L. Polk & Co.
	SNACKS PHIL S	R. L. Polk & Co.
1963	Douglas Louis	Pacific Telephone
	Douglas Cheyerale	Pacific Telephone
	Douglas Doris	Pacific Telephone
1960	La Fiesta Products spices whol	R. L. Polk Co.
	Cluff Marvin W	R. L. Polk Co.
1955	North Chas	R. L. Polk Co.
	Giorno A V	R. L. Polk Co.
1950	Ferla A J gro	R. L. Polk & Co.
1945	Vacant	R. L. Polk Co.
1940	Giamo Chas gro	R. L. Polk & Co.
1925	Cannello Saml	R. L. Polk Co. of California

1204 LOCUST ST

Year	Uses	Source
2006	BELLUOMINI Dennis	Haines Company, Inc.
2000	MAGELKY Bernie	Haines & Company
	LOPEZ Luis A	Haines & Company
1975	Fanara Vita Mrs	Pacific Telephone
1970	Fanara Nachez	R. L. Polk & Co.
1966	FANARA NACHEZ	R. L. Polk & Co.
1960	Tanara Nachez	R. L. Polk Co.
1955	Tanara Nachez	R. L. Polk Co.
1950	Fanara Ignatious	R. L. Polk & Co.

1205 LOCUST ST

Year	Uses	Source
2006	SAIZ Guadalupe	Haines Company, Inc.
2000	SAIZ Guadalupe	Haines & Company
1975	SAIZ ESTEBAN	Pacific Telephone
	Saiz Esteban	Pacific Telephone
1970	Saiz Esteban	R. L. Polk & Co.
1960	Cusimano Mary Mrs	R. L. Polk Co.
1955	Cusimano Mary Mrs	R. L. Polk Co.
1950	Cusimano Mary	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1945	Souza A M	R. L. Polk Co.
1940	Sousa Anthony	R. L. Polk & Co.
1925	Arzarlone Frank	R. L. Polk Co. of California
1922	Cosimano Jas	R. L. Polk Co.

1206 LOCUST ST

Year	Uses	Source
2000	TELLO Juan	Haines & Company
1945	Anastasi Jos	R. L. Polk Co.

1208 LOCUST ST

Year	Uses	Source
2006	CASTREJON COslena	Haines Company, Inc.
	RIVERA Francisco	Haines Company, Inc.

1210 LOCUST ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	NO CURRENT LISTING	Haines & Company

1215 LOCUST ST

Year	Uses	Source
2006	HERNANDEZ Lourdes	Haines Company, Inc.
	OCHOA Rogelia	Haines Company, Inc.
2000	OCHOA Rogelia	Haines & Company
1975	Dunn Sal	Pacific Telephone
	PAREDEZ RAMONA B	Pacific Telephone
1970	Crispi Frank A	R. L. Polk & Co.
1966	CRISPI FRANK A	R. L. Polk & Co.
1960	Garcia Albert	R. L. Polk Co.

1220 LOCUST ST

Year	Uses	Source
2006	e GONZALEZ Celia	Haines Company, Inc.
2000	GONZALEZ Celia	Haines & Company
1996	Gonzalez Celia	Pacific Bell
1986	Pancardo Marcos M	Pacific Bell
1985	BAEZR SOCORRO	Pacific Bell
	PANCARDO MARCOS M	Pacific Bell
1975	CAMPOS FERNANDO S	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	PANCARDO MARCOS M	Pacific Telephone
	Campos Femando S	Pacific Telephone
1970	Pancardo Marcos M	R. L. Polk & Co.
1966	PANCARDO MARCOS M	R. L. Polk & Co.
1960	Pancardo Marcos	R. L. Polk Co.
1957	Ardagna Marco r	R. L. Polk Co.
	ARDAGNA MARCO R	Pacific Telephone
1955	Ardagna Marco	R. L. Polk Co.
1950	Ardagna Marco	R. L. Polk & Co.
1945	Ardagna Marco	R. L. Polk Co.
1940	Clottu L A Mrs	R. L. Polk & Co.
1925	Clottu E A	R. L. Polk Co. of California
1922	Clottu E A	R. L. Polk Co.

1225 LOCUST ST

Year	Uses	Source
2006	e BARRAGAN Adela	Haines Company, Inc.
	CABALLERO	Haines Company, Inc.
	Barragan Antonio	Haines Company, Inc.
	CONTRERAS Ubaldo	Haines Company, Inc.
2000	BARRAGAN Adeta	Haines & Company
	PEDOZA Maria Guadalupe	Haines & Company
1991	Caballero Antonio Barragan	PACIFIC BELL WHITE PAGES
1986	Caballero Antonio Barragan	Pacific Bell
1985	CABALLERO ANTONIO BARRAGAN	Pacific Bell
1980	Caballero Antonio Barragan	Pacific Telephone
1975	Martinez Adolph V	Pacific Telephone
1970	Martinez Adolph V	R. L. Polk & Co.
1966	MARTINEZ ADOLPH V	R. L. Polk & Co.
1963	Martinez Adolfo	Pacific Telephone
	Martinez Ynocenta	Pacific Telephone
1960	Mazzone Nicholas R	R. L. Polk Co.
1955	Mazzone Nicholas R	R. L. Polk Co.
1950	Lamantia F F	R. L. Polk & Co.
1945	Lamantia Frank	R. L. Polk Co.
1940	Lamantia Frank	R. L. Polk & Co.
1925	Lamentier Frank	R. L. Polk Co. of California
1922	Lamentier Frank	R. L. Polk Co.

FINDINGS

1226 LOCUST ST

Year	Uses	Source
2006	e ZARATE Alejandro	Haines Company, Inc.
2000	MORREALE Carmine	Haines & Company
1975	Ardagna Martha Mrs	Pacific Telephone
	ARDAGNA M	Pacific Telephone
1970	Ardagna Martha Mrs	R. L. Polk & Co.
1966	ARDAGNA MARTHA MRS	R. L. Polk & Co.
1963	Ardagna Martha	Pacific Telephone
1960	Ardagna Martha Mrs	R. L. Polk Co.

1229 LOCUST ST

Year	Uses	Source
2008	SALLY REZA	Cole Information Services
2006	e REZA Rafael	Haines Company, Inc.
2000	REZA Rafael	Haines & Company
1996	Reza Rafael	Pacific Bell
1986	Reza Rafael	Pacific Bell
1985	REZA RAFAEL	Pacific Bell
1975	CARRASCO FRANK MRS	Pacific Telephone
	Carrasco Victoria Mrs	Pacific Telephone
1970	Carrasco Frank	R. L. Polk & Co.
1966	CARRASCO FRANK	R. L. Polk & Co.
1960	Finke Gerald H	R. L. Polk Co.
1957	CARRAZCO FRANK C R	Pacific Telephone
1955	Carrasco Frank	R. L. Polk Co.
1950	Carrasco Prank	R. L. Polk & Co.

1232 LOCUST ST

Year	Uses	Source
2006	e TORNERO Miguel	Haines Company, Inc.
2000	HERNANDEZ Sara	Haines & Company
	PEREZ Jesus M	Haines & Company
1991	HEMANDEZ RICHARD	PACIFIC BELL WHITE PAGES
	Hemandez Richard	PACIFIC BELL WHITE PAGES
1985	CASTILLO ANDRES	Pacific Bell
	SOSA ANASTACIO	Pacific Bell
1980	Sanchez Abel R	Pacific Telephone
1975	Avalare Q	Pacific Telephone
	HERNANDEZ ROSENDO	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	Brancato Phillip J	R. L. Polk & Co.
1966	BRANCATO PHILLIP J	R. L. Polk & Co.
1960	Brancato Philip J	R. L. Polk Co.
1955	Brancato Philip	R. L. Polk Co.
1950	Brancato Philip	R. L. Polk & Co.
1945	Brancato Philip	R. L. Polk Co.
1940	Brancato Philip	R. L. Polk & Co.
1925	Brangato Philip	R. L. Polk Co. of California
1922	Fanara Ignatius	R. L. Polk Co.

1233 LOCUST ST

Year	Uses	Source
2006	e ADAMS Melan Ie	Haines Company, Inc.
2000	CANO Manuel	Haines & Company
1985	LACOVIELLO JOHN	Pacific Bell
1980	Iacoviello John	Pacific Telephone
	IACOMINI CONSTRUCTION CO INC	Pacific Telephone
1975	Amato Joe	Pacific Telephone
1970	Amato Joe	R. L. Polk & Co.
1966	AMATO JOE	R. L. Polk & Co.
1960	Amato Joe	R. L. Polk Co.
1957	Amato Joe r	R. L. Polk Co.
	AMATO JOE R	Pacific Telephone
1955	Amato Joe	R. L. Polk Co.
1950	Amato Joe	R. L. Polk & Co.
1945	Amato Jos	R. L. Polk Co.
1940	Amato Jos	R. L. Polk & Co.
1925	Kyes Mrs Carrie	R. L. Polk Co. of California
1922	Kyes Eugene	R. L. Polk Co.

1234 LOCUST ST

Year	Uses	Source
2006	& SELLERS Robert	Haines Company, Inc.
2000	SELLERS Robert	Haines & Company
1991	LEMUS EDDIE	PACIFIC BELL WHITE PAGES
	Lemus Eddie	PACIFIC BELL WHITE PAGES
1980	Galaviz Maria	Pacific Telephone
1975	Pacheco Francisco	Pacific Telephone
1970	Vacant	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1966	OPACHECO FRANCISCO	R. L. Polk & Co.
1960	Bruton Paul L	R. L. Polk Co.
1955	Walker Zellma	R. L. Polk Co.
1950	Brancato G J	R. L. Polk & Co.
1945	Barcelona Russell	R. L. Polk Co.
1940	Barcelona Russell	R. L. Polk & Co.
1925	Germonia Antone	R. L. Polk Co. of California
1922	Brangato Philip	R. L. Polk Co.

1235 LOCUST ST

Year	Uses	Source
2006	o GRIBBLE Roger	Haines Company, Inc.
2000	GRIBBLE Roger	Haines & Company
1986	Gribble W R	Pacific Bell
1985	GRIBBLE W R	Pacific Bell
1975	ALONGI TONY	Pacific Telephone
	Alongi Mary Mrs	Pacific Telephone
1970	Alongi Mary Mrs	R. L. Polk & Co.
1966	ALONGI MARY MRS	R. L. Polk & Co.
1960	Alongi Mary Mrs	R. L. Polk Co.
1957	ALONGI TONY R	Pacific Telephone
1955	Alongi Mary Mrs	R. L. Polk Co.
1950	Volpi Jos	R. L. Polk & Co.
1945	Alongi Antonio	R. L. Polk Co.
1940	Alongi Antonio	R. L. Polk & Co.
1925	Alongi Tony	R. L. Polk Co. of California
1922	Romani Enrico	R. L. Polk Co.

1236 LOCUST ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	GARCIAGONZALEZ R	Haines & Company
1991	Lemus Arody O	PACIFIC BELL WHITE PAGES

1239 LOCUST ST

Year	Uses	Source
2006	MUNOZ Maria	Haines Company, Inc.
2000	MUNOZ Abel	Haines & Company
	RUANO Salvador	Haines & Company

FINDINGS

Year	Uses	Source
1996	1 Carmiona Martin	Pacific Bell
1991	Munoz Guadalupe	PACIFIC BELL WHITE PAGES
	Rodrlguez Salvador	PACIFIC BELL WHITE PAGES
	MUNOZ GUADALUPE	PACIFIC BELL WHITE PAGES
	RODRLGUEZ SALVADOR	PACIFIC BELL WHITE PAGES
1986	Munoz Guadalupe	Pacific Bell
1985	MUNOZ GUADALUPE	Pacific Bell
1975	Gonzales Pasquale	Pacific Telephone
	GONZALES PASCUAL	Pacific Telephone
1970	Di Giorgio Patricia Mrs	R. L. Polk & Co.
1966	DI GIORGIO PATRICIA MRS	R. L. Polk & Co.
1963	Lovoi Nick	Pacific Telephone
1960	Lovoi Natale	R. L. Polk Co.
1957	Lovoi Nick r	R. L. Polk Co.
1955	Lovoi Natale	R. L. Polk Co.
1950	Delgado Nevis	R. L. Polk & Co.
1945	Frusto M E	R. L. Polk Co.
	Parrino Vincent	R. L. Polk Co.
1940	Barron Macanria Mrs	R. L. Polk & Co.
1925	Forsythe Mrs Priscilla	R. L. Polk Co. of California
1922	Forsythe Mrs Priscilla	R. L. Polk Co.

LOCUST ST S

1149 LOCUST ST S

Year	Uses	Source
1935	Turturici Ignatius o	R. L. Polk & Co. of California
1930	Turturici Ignatius	R. L. Polk & Co. of California
	Turturici Jos o	R. L. Polk & Co. of California

1162 LOCUST ST S

Year	Uses	Source
1935	Migano Frank o	R. L. Polk & Co. of California
1930	Mignano Frank	R. L. Polk & Co. of California

1164 LOCUST ST S

Year	Uses	Source
1935	Randazzo Jos o	R. L. Polk & Co. of California
1930	Randazzo Vita Mrs	R. L. Polk & Co. of California

FINDINGS

1165 LOCUST ST S

Year	Uses	Source
1935	Roelling Emma Mrs o	R. L. Polk & Co. of California
1930	Roelling Emma Mrs	R. L. Polk & Co. of California

1166 LOCUST ST S

Year	Uses	Source
1935	Venturrini Enrico	R. L. Polk & Co. of California
1930	Tedesco Peter	R. L. Polk & Co. of California

1167 LOCUST ST S

Year	Uses	Source
1935	Patellaro Peter o	R. L. Polk & Co. of California
1930	Patellaro Peter	R. L. Polk & Co. of California

1189 LOCUST ST S

Year	Uses	Source
1935	Zito Jas o	R. L. Polk & Co. of California
1930	Zito Jas o	R. L. Polk & Co. of California

1190 LOCUST ST S

Year	Uses	Source
1935	Randazzo Vito shoe repr o	R. L. Polk & Co. of California
1930	Randazzo Victor shoe repr	R. L. Polk & Co. of California

1196 LOCUST ST S

Year	Uses	Source
1935	Randazzo Dominic	R. L. Polk & Co. of California
1930	Vacant	R. L. Polk & Co. of California

1197 LOCUST ST S

Year	Uses	Source
1935	Lintini Jos gro	R. L. Polk & Co. of California
1930	Cannella Salvadore gro	R. L. Polk & Co. of California

1205 LOCUST ST S

Year	Uses	Source
1935	Souza Anthony	R. L. Polk & Co. of California
1930	Cusimano Mary Mrs o	R. L. Polk & Co. of California

FINDINGS

1220 LOCUST ST S

Year	Uses	Source
1935	Clotter L A Mrs o	R. L. Polk & Co. of California
1930	Clottu E A	R. L. Polk & Co. of California

1225 LOCUST ST S

Year	Uses	Source
1935	Lamantia Frank o	R. L. Polk & Co. of California
1930	Lamentia Frank o	R. L. Polk & Co. of California

1232 LOCUST ST S

Year	Uses	Source
1935	Brancato Philip o	R. L. Polk & Co. of California
1930	Brancato Philip	R. L. Polk & Co. of California

1233 LOCUST ST S

Year	Uses	Source
1935	Kyes Carrie Mrs o	R. L. Polk & Co. of California
1930	Kyes Carrie Mrs o	R. L. Polk & Co. of California

1234 LOCUST ST S

Year	Uses	Source
1935	De Carlo Jos	R. L. Polk & Co. of California
1930	Davi Salvatore	R. L. Polk & Co. of California

1235 LOCUST ST S

Year	Uses	Source
1935	Alonzi Antonio o	R. L. Polk & Co. of California
1930	Alongi Antonio o	R. L. Polk & Co. of California

1239 LOCUST ST S

Year	Uses	Source
1935	Vacant	R. L. Polk & Co. of California
1930	Vacant	R. L. Polk & Co. of California

LOIS AVE

1259 LOIS AVE

Year	Uses	Source
2001	BROOKEJ	Haines Company, Inc.
	BROOKEMArhur	Haines Company, Inc.

FINDINGS

PALM

1104 PALM

Year	Uses	Source
1957	ANDERSON KEITH ABCO SALES	Pacific Telephone
	Abco Sales	R. L. Polk Co.
	Anderson I Keith Abco Sales	R. L. Polk Co.

1108 PALM

Year	Uses	Source
1980	Dagata Josephine Mrs	Pacific Telephone
1963	Dagata Josephine Mrs	Pacific Telephone
1957	Dagata Josephine Mrs	R. L. Polk Co.

1111 PALM

Year	Uses	Source
1986	Taormino Philip	Pacific Bell
1963	Taormino Philip	Pacific Telephone
1957	Taormino Philip r	R. L. Polk Co.

1114 PALM

Year	Uses	Source
1980	Francce Joe	Pacific Telephone
1963	De Francisco Andrew	Pacific Telephone

1116 PALM

Year	Uses	Source
1986	Hanson Greg	Pacific Bell
1963	Samabor Norman	Pacific Telephone
	Samabor Mary Lou	Pacific Telephone

1122 PALM

Year	Uses	Source
1986	Key Luther T	Pacific Bell
1980	Key Luther T	Pacific Telephone
1963	Lamantia Mary	Pacific Telephone
1957	Lamantia Jim	R. L. Polk Co.

1123 PALM

Year	Uses	Source
1991	Blackketter Dean J	PACIFIC BELL WHITE PAGES

FINDINGS

Year	Uses	Source
1991	Joaquin James	PACIFIC BELL WHITE PAGES
1986	Nunes John L	Pacific Bell
	Nunes Therapy Equipment Co	Pacific Bell
1980	Nunes John L	Pacific Telephone
	Nones Therapy Equipment Co	Pacific Telephone

1130 PALM

Year	Uses	Source
1980	Peralta Bruno	Pacific Telephone
1963	Aldridge Thos	Pacific Telephone
1957	Kriz Henry	R. L. Polk Co.
	Krivohlavek Frank B	R. L. Polk Co.

1132 PALM

Year	Uses	Source
1986	Chavez Jose Louis	Pacific Bell
1963	Shumate Elaine J	Pacific Telephone
1957	Shumnate Elaine J	R. L. Polk Co.

1140 PALM

Year	Uses	Source
1963	Campus Peter	Pacific Telephone
1957	Campus Peter	R. L. Polk Co.

1145 PALM

Year	Uses	Source
1991	Dini Dino	PACIFIC BELL WHITE PAGES
1986	Dini Dino	Pacific Bell
1980	Dini Din D	Pacific Telephone
1963	Dini Dino	Pacific Telephone
1957	Dimn Dino	R. L. Polk Co.

1147 PALM

Year	Uses	Source
1991	Fazio M &S	PACIFIC BELL WHITE PAGES
1980	Rubio Marie	Pacific Telephone
1963	Signorelli Nick	Pacific Telephone

FINDINGS

1148 PALM

Year	Uses	Source
1986	Demaria Gus	Pacific Bell
1980	Demaria Gus	Pacific Telephone
1963	Demaria Gus	Pacific Telephone
1957	Demaria Gus r	R. L. Polk Co.

1149 PALM

Year	Uses	Source
1991	Garcia Dora	PACIFIC BELL WHITE PAGES
1980	Claus Juanita C	Pacific Telephone
1963	Claus Juanita	Pacific Telephone

1161 PALM

Year	Uses	Source
1980	Pereira Adam	Pacific Telephone
1963	Colburn Chas	Pacific Telephone

1163 PALM

Year	Uses	Source
1963	Malech Lucille	Pacific Telephone

1175 PALM

Year	Uses	Source
1991	Gonzalez Hely	PACIFIC BELL WHITE PAGES
1980	Gutierrez Trini	Pacific Telephone

1179 PALM

Year	Uses	Source
1986	Cornejo Tomes	Pacific Bell
1980	Gutierrez Fred	Pacific Telephone
1963	Profit Patricia	Pacific Telephone

1180 PALM

Year	Uses	Source
1963	Domenici Richard M	Pacific Telephone
1957	Domenici Richard M s	R. L. Polk Co.

1186 PALM

Year	Uses	Source
1980	Smith Barry E	Pacific Telephone

FINDINGS

1191 PALM

Year	Uses	Source
1963	Gullo Frank	Pacific Telephone
1957	Gullo Frank r	R. L. Polk Co.

1194 PALM

Year	Uses	Source
1980	Valdivia Vktor	Pacific Telephone

1198 PALM

Year	Uses	Source
1991	Cruz Ralph	PACIFIC BELL WHITE PAGES
1963	Sisneros Manuel	Pacific Telephone

1220 PALM

Year	Uses	Source
1963	Passafume Minnie	Pacific Telephone
1957	Passafume Minnie	R. L. Polk Co.

1222 PALM

Year	Uses	Source
1957	Ramirez Librado	R. L. Polk Co.

1224 PALM

Year	Uses	Source
1963	Meli Salvatore	Pacific Telephone
1957	Meli Salvatore	R. L. Polk Co.

1228 PALM

Year	Uses	Source
1963	Oliveri J R	Pacific Telephone

1230 PALM

Year	Uses	Source
1963	Roach Wm W	Pacific Telephone
1957	Rubino Jean	R. L. Polk Co.

1235 PALM

Year	Uses	Source
1986	Guzman Hector D	Pacific Bell
1980	Guzman Hector D	Pacific Telephone
1963	Carbone Chas S	Pacific Telephone

FINDINGS

Year	Uses	Source
1957	Cartbe Chas S r	R. L. Polk Co.

1240 PALM

Year	Uses	Source
1963	Falcone David J	Pacific Telephone

1242 PALM

Year	Uses	Source
1980	Zagata D M	Pacific Telephone
1963	Morrill Kay	Pacific Telephone
	Morrill Jas	Pacific Telephone

1247 PALM

Year	Uses	Source
1980	Gilzow Belinda	Pacific Telephone
1963	Trillo Anthony J	Pacific Telephone
	Trillo Dianne	Pacific Telephone

1249 PALM

Year	Uses	Source
1991	Quinones Francisco J	PACIFIC BELL WHITE PAGES
1963	Lacavalla Mario P	Pacific Telephone

1252 PALM

Year	Uses	Source
1980	Key Johnny H	Pacific Telephone
1957	Tuminia Angelo L	R. L. Polk Co.

1255 PALM

Year	Uses	Source
1991	Gonzales Francisco M	PACIFIC BELL WHITE PAGES
1986	Morenro Senobio	Pacific Bell

1257 PALM

Year	Uses	Source
1991	Hurtado A	PACIFIC BELL WHITE PAGES
1986	Marquez Esther	Pacific Bell
1963	Garcia Randy	Pacific Telephone

FINDINGS

1262 PALM

Year	Uses	Source
1991	Blttner Vernon A	PACIFIC BELL WHITE PAGES
	BITTNER SUSAN ALCARAZd DS	PACIFIC BELL WHITE PAGES
1986	Bittner Vernon A	Pacific Bell
1980	Eddy Denice	Pacific Telephone
1963	Key Luther T	Pacific Telephone
1957	Harrimnan Barbara Mrs	R. L. Polk Co.
	Harriman Jas	R. L. Polk Co.

1263 PALM

Year	Uses	Source
1963	Baker Lonnie K	Pacific Telephone

1264 PALM

Year	Uses	Source
1986	Ramos Jesse F	Pacific Bell
1957	Reynolds Melvin P	R. L. Polk Co.

1269 PALM

Year	Uses	Source
1991	Silveira Manuel	PACIFIC BELL WHITE PAGES
1986	Silveira Manuel	Pacific Bell
1980	Silveira Manuel	Pacific Telephone
1963	Hogg Margaret	Pacific Telephone
	Barge Mike	Pacific Telephone
1957	Barge Mike r	R. L. Polk Co.

1274 PALM

Year	Uses	Source
1991	Robles Munoz Celso	PACIFIC BELL WHITE PAGES
1986	Martinez Ernesto	Pacific Bell
1980	Martinez Ernesto	Pacific Telephone
	Martinez S R	Pacific Telephone
1963	Carauddo Dorothy	Pacific Telephone

1278 PALM

Year	Uses	Source
1963	Bellizzi G J	Pacific Telephone
	Bellizzi Jerilyn Lee	Pacific Telephone
1957	Bellizzi G J r	R. L. Polk Co.

1279 PALM

Year	Uses	Source
1963	De Vuono Sam	Pacific Telephone
1957	De Vuono Samni r	R. L. Polk Co.

1281 PALM

Year	Uses	Source
1957	Failla Joe r	R. L. Polk Co.
	Filippone Jennie	R. L. Polk Co.

1285 PALM

Year	Uses	Source
1991	Piazza Nancy	PACIFIC BELL WHITE PAGES

1287 PALM

Year	Uses	Source
1980	Tonys Mobile Auto Repair	Pacific Telephone

1298 PALM

Year	Uses	Source
1986	Gonzales Ruben T	Pacific Bell
1980	Dominguez Jess D Sr	Pacific Telephone
1963	Dominguez Jess D	Pacific Telephone
1957	Dominguez Jess D	R. L. Polk Co.

1299 PALM

Year	Uses	Source
1963	Kinsworthy Edith Mrs	Pacific Telephone
	Kinsworthy Mack O	Pacific Telephone
1957	Estavillo Eddie	R. L. Polk Co.

1305 PALM

Year	Uses	Source
1991	Klmura Keven	PACIFIC BELL WHITE PAGES
	Kimura Kenneth M M	PACIFIC BELL WHITE PAGES

PALM ARC

1216 PALM ARC

Year	Uses	Source
1982	Ramirez eonard R	Pacific Telephone

FINDINGS

PALM AVE

1120 PALM AVE

Year	Uses	Source
1986	FLEMING DENNIS	Pacific Bell
	Fleming Dennis	Pacific Bell
1982	Helfrich John F	Pacific Telephone

1129 PALM AVE

Year	Uses	Source
1986	FRANZEN RALPH & JUDY	Pacific Bell
	Franzen Ralph & Judy	Pacific Bell
1982	Franzen Ralph & Judy	Pacific Telephone

1130 PALM AVE

Year	Uses	Source
1986	Hite David & Janae	Pacific Bell
	HITE DAVID & JANAE	Pacific Bell

1136 PALM AVE

Year	Uses	Source
1982	Dunning Jay	Pacific Telephone

1146 PALM AVE

Year	Uses	Source
1982	Martinez R C	Pacific Telephone

1206 PALM AVE

Year	Uses	Source
1986	KEEFH ERIN	Pacific Bell
	Keefh Erin	Pacific Bell
	Arnold James	Pacific Bell
	ARNOLD JAMES	Pacific Bell
1982	Hicks George	Pacific Telephone

1216 PALM AVE

Year	Uses	Source
1986	RAMIREZ LEONARD R	Pacific Bell
	Ramirez Leonard R	Pacific Bell

FINDINGS

PALM CT

1104 PALM CT

Year	Uses	Source
1957	AUBREY BILL ABCO SALES	Pacific Telephone

1175 PALM CT

Year	Uses	Source
1957	DE FRANCISCO ANDREW R	Pacific Telephone

1198 PALM CT

Year	Uses	Source
1957	GRIFFITH F R	Pacific Telephone

PALM DR

1140 PALM DR

Year	Uses	Source
1975	DEMARLA GUS	Pacific Telephone

1274 PALM DR

Year	Uses	Source
1975	MARTINEZ ERNESTO	Pacific Telephone

PALM ST

1104 PALM ST

Year	Uses	Source
2006	ESQUIVELMargadta	Haines Company, Inc.
	a RIVERA Rodolo	Haines Company, Inc.
2000	RAPISARDA Dominie	Haines & Company
1975	Harris Gary R	Pacific Telephone
	MALDONADO TERESA	Pacific Telephone
1970	Keith Donald W	R. L. Polk & Co.
1966	NGIN STEPH M	R. L. Polk & Co.
1960	Vahtra Ulo	R. L. Polk Co.
1955	Broom Wm	R. L. Polk Co.

1108 PALM ST

Year	Uses	Source
2006	a AQUINDE Edgar	Haines Company, Inc.
2000	AQUINDE Edgar	Haines & Company

FINDINGS

Year	Uses	Source
1975	Dagata Salvatore	Pacific Telephone
1970	Dagata Salvatore	R. L. Polk & Co.
1960	Dagata Salvatore	R. L. Polk Co.

1111 PALM ST

Year	Uses	Source
2013	EYE SPY	Cole Information Services
2006	a OPAL Gaelano	Haines Company, Inc.
	EYESPY	Haines Company, Inc.
2000	LONARDO Gaetano	Haines & Company
1985	TAORMINO PHILIP	Pacific Bell
1975	Taormino Phillip	Pacific Telephone
1970	Taormino Phillip	R. L. Polk & Co.
1966	TAORMINO PHILLIP	R. L. Polk & Co.
1960	Taormino Phillip CY D	R. L. Polk Co.
1955	Lomontia Jim CY	R. L. Polk Co.
1950	Taormino Philip	R. L. Polk & Co.
1945	Taormino Philip	R. L. Polk Co.
1940	Taormino Philip	R. L. Polk & Co.
1935	Taormino Philip o	R. L. Polk & Co. of California

1114 PALM ST

Year	Uses	Source
2006	e MUZZIOJohn	Haines Company, Inc.
2000	MUZZIO John	Haines & Company
1975	De Francisco Andrew	Pacific Telephone
1970	De Francisco Andrew	R. L. Polk & Co.
1966	DE FRANCISCO ANDREW	R. L. Polk & Co.

1116 PALM ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	NO CURRENT LISTING	Haines & Company
1985	HANSON GREG	Pacific Bell
1975	Mc Donald John	Pacific Telephone
1970	Vacant	R. L. Polk & Co.
1966	KEMNITZ WILLIS	R. L. Polk & Co.

FINDINGS

1122 PALM ST

Year	Uses	Source
2006	a SEARSJohn	Haines Company, Inc.
2000	SEARS John	Haines & Company
1985	KEY LUTHER T	Pacific Bell
1975	Lamantia Mary	Pacific Telephone
1970	Vacant	R. L. Polk & Co.
1966	LAMANTIA MARY MRS	R. L. Polk & Co.
1960	Lamantia Mary Mrs	R. L. Polk Co.
1955	Lomontia Jim	R. L. Polk Co.

1123 PALM ST

Year	Uses	Source
2006	a LONARDO Gaetano	Haines Company, Inc.
	COXL 2D	Haines Company, Inc.
2000	LONARDO Geetano	Haines & Company
1991	BLACKKETTER DEAN J	PACIFIC BELL WHITE PAGES
	JOAQUIN JAMES	PACIFIC BELL WHITE PAGES
1985	NUNES THERAPY EQUIPMENT CO	Pacific Bell
	NUNES JOHN L	Pacific Bell
1975	NUNES JOHN L	Pacific Telephone
	phys & hosp sups	Pacific Telephone
	Nunes John	Pacific Telephone
	Paramont Health Equipment Co	Pacific Telephone
1970	Nunes John	R. L. Polk & Co.
	Co phys & hosp sups	R. L. Polk & Co.
	Nunes Therapy Engineering & Equipment	R. L. Polk & Co.
1966	NUNES JOHN	R. L. Polk & Co.
1960	Reck Eliz M Mrs	R. L. Polk Co.

1130 PALM ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	NO CURRENT LISTING	Haines & Company
1996	Marquez Ricardo	Pacific Bell
1975	Aldridge Dorothy E Mrs	Pacific Telephone
1970	Aldridge Dorothy E Mrs	R. L. Polk & Co.
1966	ALDRIDGE THOS	R. L. Polk & Co.
1960	Aldridge Thos y	R. L. Polk Co.
1955	Kriczy Henry	R. L. Polk Co.

FINDINGS

1132 PALM ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	NO CURRENT LISTING	Haines & Company
1985	CHAVEZ JOSE-LOUIS	Pacific Bell
1975	Mairose Agnes M Mrs	Pacific Telephone
1970	Mairose Agnes M Mrs	R. L. Polk & Co.
1966	SHUMATE MARVIN T	R. L. Polk & Co.
1960	Shumate Marvin T	R. L. Polk Co.
1955	Riggs Jas E	R. L. Polk Co.

1140 PALM ST

Year	Uses	Source
2013	LINEAR TECH STRIPING	Cole Information Services
2006	MARQUEZ Antonio	Haines Company, Inc.
2000	REVELEZ Rebecca	Haines & Company
	DELREAL Belinda	Haines & Company
1996	Rodriguez Gabriel	Pacific Bell
1985	DEMARIA GUS	Pacific Bell
1975	Campus Peter	Pacific Telephone
1970	Campus Peter	R. L. Polk & Co.
1966	CAMPUS PETER	R. L. Polk & Co.
1960	Campus Peter	R. L. Polk Co.
1957	CAMPUS PETER	Pacific Telephone
1955	Campus Pectr	R. L. Polk Co.
1950	Campus Peter	R. L. Polk & Co.

1145 PALM ST

Year	Uses	Source
2006	a DINI Dio	Haines Company, Inc.
2000	DINI Dino	Haines & Company
1996	Dini Dino	Pacific Bell
1991	DINI DINO	PACIFIC BELL WHITE PAGES
1985	DINI DINO	Pacific Bell
1975	Dini Dominic	Pacific Telephone
1970	Dini Dominic	R. L. Polk & Co.
1966	DINI DOMINIC	R. L. Polk & Co.
1960	Dini Dominic	R. L. Polk Co.
1957	DINI DINO	Pacific Telephone
1955	Diai Dominic	R. L. Polk Co.

FINDINGS

Year	Uses	Source
1950	Dini Dominic	R. L. Polk & Co.
1945	Dini Domenic	R. L. Polk Co.
1940	Dini Dominic	R. L. Polk & Co.
1935	Dini Dominic o	R. L. Polk & Co. of California
1930	Dini Domenic	R. L. Polk & Co. of California
1925	Lapiccole Rosaria	R. L. Polk Co. of California
1922	Lopiccole Rossido	R. L. Polk Co.

1147 PALM ST

Year	Uses	Source
2008	SHEILA MUNOZ TAX SERVICE	Cole Information Services
2006	a RYAN Kelly	Haines Company, Inc.
	HURLSm Ith	Haines Company, Inc.
	TORRES Connie	Haines Company, Inc.
	CARTAGENA Gioda	Haines Company, Inc.
	DELGADO Bonnte	Haines Company, Inc.
2000	MUNOZ Peter	Haines & Company
1991	FAZIO M &S	PACIFIC BELL WHITE PAGES
1975	Pantson T	Pacific Telephone
	BATTISTELLA RON	Pacific Telephone
1970	Vacant	R. L. Polk & Co.
1966	SIGNORELLI NICK	R. L. Polk & Co.
1960	Signorelli Nick	R. L. Polk Co.
1955	Signorelli Nick	R. L. Polk Co.
1950	Battistella Mario	R. L. Polk & Co.
1945	Battistella Mario trucking	R. L. Polk Co.
1940	Battistella Mario	R. L. Polk & Co.
1935	Ricco John	R. L. Polk & Co. of California
1930	Delmastro Angelo	R. L. Polk & Co. of California
1925	Sanfilippo Saml	R. L. Polk Co. of California
1922	Orlando F D	R. L. Polk Co.

1148 PALM ST

Year	Uses	Source
2006	BEVAN Warren	Haines Company, Inc.
	SANDOVAL Marcele	Haines Company, Inc.
2000	BEVAN Warren	Haines & Company
1975	Di Maria Augustino	Pacific Telephone
1970	De Maria Augustino	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1966	DE MARIA AUGUSTINO	R. L. Polk & Co.
1960	De Maria Augustino trucking	R. L. Polk Co.
1957	DEMARIA GUS R	Pacific Telephone
1955	De Maria Augustino	R. L. Polk Co.
1950	De Maria Augusttino trucking	R. L. Polk & Co.
1945	De Maria Augustino trucking	R. L. Polk Co.
1940	De Maria Augustino trucking	R. L. Polk & Co.
1935	De Mario Augustino trucking o	R. L. Polk & Co. of California
1930	De Maria Gus o	R. L. Polk & Co. of California

1149 PALM ST

Year	Uses	Source
2006	a MEJIAJose	Haines Company, Inc.
	GUTIERREZVictor	Haines Company, Inc.
2000	TERRA Qunton	Haines & Company
	TERRA Evelyn	Haines & Company
	MEJIA Jose	Haines & Company
	DERHERNANDEZ Maria	Haines & Company
1991	GARCIA DORA	PACIFIC BELL WHITE PAGES
1975	CLAUS PETER L	Pacific Telephone
	Claus Juanita C Mrs	Pacific Telephone
1970	Claus Juanita C Mrs	R. L. Polk & Co.
1966	1/2 VACANT	R. L. Polk & Co.
	CLAUS JUANITA C MRS MRS	R. L. Polk & Co.
1960	1/2 Mona Bonaface	R. L. Polk Co.
	Claus Alois	R. L. Polk Co.
1955	1/2 Vacant	R. L. Polk Co.
	Claus Aloids	R. L. Polk Co.
1950	Claus Alois	R. L. Polk & Co.
1945	Smith C R	R. L. Polk Co.
1940	Passantino F J	R. L. Polk & Co.
1935	Matusich Saml	R. L. Polk & Co. of California
1930	Passatino Jos	R. L. Polk & Co. of California
1925	Passantino Jos	R. L. Polk Co. of California
1922	Passantino Jos	R. L. Polk Co.

1161 PALM ST

Year	Uses	Source
1975	Mock Larry	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	HUNTER EVERETT GJR	Pacific Telephone
1970	No Return	R. L. Polk & Co.
1966	NO RETURN	R. L. Polk & Co.

1163 PALM ST

Year	Uses	Source
2006	HURTADOA	Haines Company, Inc.
2000	HURTADO A	Haines & Company
1975	Melot Matthew	Pacific Telephone
	MOCK LARRY	Pacific Telephone
1970	Malech Lucille	R. L. Polk & Co.
1966	MALECH LUCILLE	R. L. Polk & Co.

1175 PALM ST

Year	Uses	Source
2006	a GUTIERREZ Ruth	Haines Company, Inc.
2000	GUTIERREZ Ruth	Haines & Company
1991	GONZALEZ HELY	PACIFIC BELL WHITE PAGES
1975	Gutierrez Trinl	Pacific Telephone
	GUTIERREZ TRINI	Pacific Telephone
1970	Gutierrez Trini	R. L. Polk & Co.
1966	BARBEE CHARLES	R. L. Polk & Co.
1960	De Francesco Andrew	R. L. Polk Co.
1955	De Frncesco Andrew	R. L. Polk Co.
1950	De Francesco Andw	R. L. Polk & Co.
1945	De Francesco Andw	R. L. Polk Co.
1940	Fichera Angelo	R. L. Polk & Co.
1935	Vacant	R. L. Polk & Co. of California
1930	Passatino F J	R. L. Polk & Co. of California
1925	Inman C B	R. L. Polk Co. of California
	Lucas Antone	R. L. Polk Co. of California
1922	Lucas Antone	R. L. Polk Co.

1179 PALM ST

Year	Uses	Source
2006	KUMAR Surinder	Haines Company, Inc.
	a VALLEJO Amalia	Haines Company, Inc.
	KUMARS	Haines Company, Inc.
2000	VALLEJO Amalla	Haines & Company

FINDINGS

Year	Uses	Source
1985	DIAS MARK S	Pacific Bell
1975	Tomabene Jack	Pacific Telephone
	RICHBOURG MICHAEL	Pacific Telephone
1970	Hallomon Edw E	R. L. Polk & Co.
1966	PROFIT PATRICIA MRS	R. L. Polk & Co.

1180 PALM ST

Year	Uses	Source
2006	a GARCIA Cynthie	Haines Company, Inc.
2000	GONZALEZ Rosa	Haines & Company
	HERNANDEZ Estela	Haines & Company
1975	Domenici Richd M	Pacific Telephone
	DOMENICI RICHARD M	Pacific Telephone
1970	Domenici Richd M	R. L. Polk & Co.
1966	DOMENICI RICHD M	R. L. Polk & Co.
1960	Domenici Richd M	R. L. Polk Co.
1955	Domcmnici Richd M	R. L. Polk Co.
1950	Domenici R M	R. L. Polk & Co.
1945	Domenici R M	R. L. Polk Co.
1940	Domenici R M	R. L. Polk & Co.
1935	Domenici R M o	R. L. Polk & Co. of California
1930	Domenici R M	R. L. Polk & Co. of California
1925	Domenici Richd	R. L. Polk Co. of California

1181 PALM ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	INIGUEZ Antonio	Haines & Company
1985	MARTIN STEPHEN	Pacific Bell
1975	Chauarria Victor	Pacific Telephone
	HARRIS C J	Pacific Telephone
1970	No Return	R. L. Polk & Co.
1966	DU MOND CURTIS W	R. L. Polk & Co.

1186 PALM ST

Year	Uses	Source
2006	JUAREZ Connie	Haines Company, Inc.
2000	SMITH Carol	Haines & Company
1985	JACOBS TRACY A	Pacific Bell

FINDINGS

Year	Uses	Source
1985	SMITH CAROL NEAL	Pacific Bell
1975	SMITH BARRY E	Pacific Telephone
	Smith Berry E	Pacific Telephone
1970	Lonero Peter	R. L. Polk & Co.
1966	VACANT	R. L. Polk & Co.
1960	Cottone Mathew	R. L. Polk Co.
1957	COTTONE MATTHEW	Pacific Telephone
1955	Catoni Matthew	R. L. Polk Co.
1950	Catoni Matthew	R. L. Polk & Co.
1945	Catoni Matthew	R. L. Polk Co.
1940	Catoni Frank	R. L. Polk & Co.

1190 PALM ST

Year	Uses	Source
1960	Vacant	R. L. Polk Co.

1191 PALM ST

Year	Uses	Source
2006	a GULLO Anthony	Haines Company, Inc.
2000	GULLO Anthony	Haines & Company
	MAURER Ronal	Haines & Company
1996	Maurer Ronald	Pacific Bell
1975	Gullo Frank P	Pacific Telephone
1970	Gullo Frank P	R. L. Polk & Co.
1966	GULLO FRANK P	R. L. Polk & Co.
1960	Gullo Frank P	R. L. Polk Co.
1957	GULLO FRANK R	Pacific Telephone
1955	Gullo Frank	R. L. Polk Co.
1950	Gullo Frank	R. L. Polk & Co.
1945	Gullo Frank	R. L. Polk Co.
1940	Gullo F M	R. L. Polk & Co.

1192 PALM ST

Year	Uses	Source
2006	MORAMaria G	Haines Company, Inc.
2000	NO CURRENT LISTING	Haines & Company
1996	Gonzalez Nicolas	Pacific Bell
1975	No Return	Pacific Telephone
1970	Kleinhany Arnold	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1966	SPAETH KATHLEEN MRS	R. L. Polk & Co.

1194 PALM ST

Year	Uses	Source
2006	LEDEZZMAJose	Haines Company, Inc.
	CATANIA Anth Dony	Haines Company, Inc.
2000	CATANIA Anthony	Haines & Company
1975	Edwards David	Pacific Telephone
1970	Williams Cecil L Jr	R. L. Polk & Co.
1966	HARMS BURTON L	R. L. Polk & Co.

1198 PALM ST

Year	Uses	Source
2006	a ADUILARLLucia	Haines Company, Inc.
2000	AGUILAR Raul	Haines & Company
1991	CRUZ RALPH	PACIFIC BELL WHITE PAGES
1975	Aguilar Lucinia Mrs	Pacific Telephone
1970	Aguilar Raul	R. L. Polk & Co.
1966	RODRIGUEZ MANUEL	R. L. Polk & Co.
1960	Barren Anthony T	R. L. Polk Co.
1955	Griffith Frank	R. L. Polk Co.
1950	Rodriguez Marcelo	R. L. Polk & Co.
1945	Rodriguez Marcelo	R. L. Polk Co.
1940	Nelson R R	R. L. Polk & Co.
1935	Vacant	R. L. Polk & Co. of California
1930	Sanfilippo Carl	R. L. Polk & Co. of California
1925	Sanfilippo Carl	R. L. Polk Co. of California

1208 PALM ST

Year	Uses	Source
2006	DEFLORES Cela	Haines Company, Inc.
2000	LAGUNA Jose	Haines & Company
1975	Laguna Jose	Pacific Telephone
1970	Navarez Enaeteria Mrs	R. L. Polk & Co.
1966	NAVAREZ ENAETERIA MRS	R. L. Polk & Co.
1960	Guerra Mike J	R. L. Polk Co.

1220 PALM ST

Year	Uses	Source
2006	RYANKe 8y	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2000	ACHAY Paul	Haines & Company
	BYAN Kelly	Haines & Company
1975	Passafume Carmen J	Pacific Telephone
1970	Passafume Carmen J	R. L. Polk & Co.
1966	PASSAFUME CARMEN J	R. L. Polk & Co.
1960	Passafume Carmen J	R. L. Polk Co.
1957	PASSAFUME MINNIE	Pacific Telephone
1955	Passafume Minnie F Mrs	R. L. Polk Co.
1950	Passafume C J	R. L. Polk & Co.
1945	Passafume C J	R. L. Polk Co.
1940	Passafuime C J	R. L. Polk & Co.
1935	Margherita Carmelo	R. L. Polk & Co. of California
1930	Passafiume Gaetano o	R. L. Polk & Co. of California
1925	Passafuine Gaetano	R. L. Polk Co. of California
1922	Passafuime Gaitano	R. L. Polk Co.

1222 PALM ST

Year	Uses	Source
2006	a VEYNADeba	Haines Company, Inc.
2000	VEYNA Delia	Haines & Company
1975	Ramirez Phillie Mrs	Pacific Telephone
1970	Ramirez Phillie Mrs	R. L. Polk & Co.
1966	RAMIREZ PHILLIE MRS	R. L. Polk & Co.
1960	Ramirez Librado CY	R. L. Polk Co.
1955	Ramircz Librado	R. L. Polk Co.
1950	Gemette J J	R. L. Polk & Co.
1945	Musladin J J	R. L. Polk Co.
1940	Bono Louis	R. L. Polk & Co.
1935	Bono Louis	R. L. Polk & Co. of California
1930	Bono Louis	R. L. Polk & Co. of California
1925	Bono Louis	R. L. Polk Co. of California
1922	Bono Louis	R. L. Polk Co.

1224 PALM ST

Year	Uses	Source
2006	a GONZALEZAda Ibevto	Haines Company, Inc.
2000	CRUZ Tarcllia	Haines & Company
	DIAZOLA Cruz Martin	Haines & Company
	ROMERO Hector	Haines & Company

FINDINGS

Year	Uses	Source
1975	Salvatori Meli	Pacific Telephone
1970	Salvatori Meli	R. L. Polk & Co.
1966	MELI SALVADORE	R. L. Polk & Co.
1960	Meli Salvadore	R. L. Polk Co.
1957	MELI SALVATORE	Pacific Telephone
1955	Mcli Silvadore	R. L. Polk Co.
1950	Biao Mary Mrs	R. L. Polk & Co.
1945	Baio Mary Mrs	R. L. Polk Co.
1940	Baiu Angelo	R. L. Polk & Co.
1935	Baiu Angelo o	R. L. Polk & Co. of California
1930	Paoli Fedele	R. L. Polk & Co. of California
1925	Paoli Fedele	R. L. Polk Co. of California
1922	Paoli Fidele	R. L. Polk Co.

1227 PALM ST

Year	Uses	Source
1955	Vacant	R. L. Polk Co.
1950	Bowden E T	R. L. Polk & Co.
1945	Antolin Alex	R. L. Polk Co.
1940	Fanara Ignacio	R. L. Polk & Co.
1930	Mignano Domonic o	R. L. Polk & Co. of California

1228 PALM ST

Year	Uses	Source
2000	CARVAJAL Armando	Haines & Company
1975	Carvajal Vicente	Pacific Telephone
1970	Oliveri Claudia F Mrs	R. L. Polk & Co.
1966	OLIVERI CLAUDIA F MRS	R. L. Polk & Co.
1960	Oliveri Jos R	R. L. Polk Co.
1957	OLIVERI J R	Pacific Telephone
1955	Olivcri Jos R	R. L. Polk Co.
1945	Crisafulli Salvadore	R. L. Polk Co.
1940	Mazzuca Peter	R. L. Polk & Co.
	Mazzuca Louis	R. L. Polk & Co.
1935	Fanara Ignacio o	R. L. Polk & Co. of California
1930	Fanara Ignacio o	R. L. Polk & Co. of California
1925	Fanara Ignacio	R. L. Polk Co. of California
1922	Ferrante Gaetano	R. L. Polk Co.

FINDINGS

1229 PALM ST

Year	Uses	Source
2006	ACEVES Paricia	Haines Company, Inc.

1230 PALM ST

Year	Uses	Source
2006	ANSLLO Gabriel	Haines Company, Inc.
2000	ANGULO Gabriel B	Haines & Company
1975	Garcia Faye	Pacific Telephone
1970	Roach Wm W	R. L. Polk & Co.
1966	ROACH WM W	R. L. Polk & Co.
1960	Crain Fred M CY	R. L. Polk Co.
1955	Preader Milton A	R. L. Polk Co.
1950	De Maria J D	R. L. Polk & Co.
1945	Bica Mariano	R. L. Polk Co.
1940	Butera Salvatore	R. L. Polk & Co.
1935	Cortapassi Hugo	R. L. Polk & Co. of California
1930	Di Mario Aug	R. L. Polk & Co. of California
1925	Demaria Gus	R. L. Polk Co. of California
1922	Demaria Gus	R. L. Polk Co.

1235 PALM ST

Year	Uses	Source
2000	GUZMAN Hector	Haines & Company
1985	GUZMAN HECTOR D	Pacific Bell
1975	Carbone Rose M Mrs	Pacific Telephone
1970	Carbone Rose M Mrs	R. L. Polk & Co.
1966	CARBONE CHARLES S	R. L. Polk & Co.
1960	Carbone Chas S	R. L. Polk Co.
1957	CARTBO ME CAS S R	Pacific Telephone
1955	Carbouc Chas S	R. L. Polk Co.
1950	Morris J F	R. L. Polk & Co.

1240 PALM ST

Year	Uses	Source
2006	a MORANA ga I	Haines Company, Inc.
2000	MORAN Angel	Haines & Company
1975	Mendoza Richd L	Pacific Telephone
1970	Heisler Victor J	R. L. Polk & Co.
1966	HUIZAR RICHD	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1960	Lang Shirley L Mrs CY	R. L. Polk Co.
1955	Russo Mathew	R. L. Polk Co.

1242 PALM ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	NO CURRENT LISTING	Haines & Company
1975	Severn Thos J	Pacific Telephone
	HORTON BILLIE	Pacific Telephone
1970	Vacant	R. L. Polk & Co.
1966	CAMACHO FRANK J JR	R. L. Polk & Co.
1960	Ladd Warren H	R. L. Polk Co.

1247 PALM ST

Year	Uses	Source
2006	a QUI NONES Ratde	Haines Company, Inc.
2000	QUINONES Matilde	Haines & Company
1996	Quinones Matilde	Pacific Bell
1975	BARENS EDWARD R	Pacific Telephone
	Navarrette Cecile	Pacific Telephone
1970	Baule Arno	R. L. Polk & Co.
1966	HUXTABLE WALLY	R. L. Polk & Co.

1249 PALM ST

Year	Uses	Source
2006	CKUINONES Diosc Ki	Haines Company, Inc.
	COVARUBI Rosa	Haines Company, Inc.
2000	QUINONES Francisco O	Haines & Company
1991	QUINONES FRANCISCO J	PACIFIC BELL WHITE PAGES
1975	CORRALES DOUG	Pacific Telephone
	Reyes Paul	Pacific Telephone
1970	Burnett Arth J	R. L. Polk & Co.
1966	EATON DAVID	R. L. Polk & Co.

1251 PALM ST

Year	Uses	Source
2006	HERNANDEZ Jose	Haines Company, Inc.

FINDINGS

1252 PALM ST

Year	Uses	Source
2006	a AGUILARGerartdo	Haines Company, Inc.
1975	Webster Richd L	Pacific Telephone
1970	Cunningham John W	R. L. Polk & Co.
1966	NAVAREZ CINDY L	R. L. Polk & Co.
1960	Bellizzi G J	R. L. Polk Co.
1957	TUMILNIA ANGELO L	Pacific Telephone
1955	Hicikty Otto	R. L. Polk Co.

1254 PALM ST

Year	Uses	Source
2006	LUCATEROAmsida	Haines Company, Inc.
2000	NO CURRENT LISTING	Haines & Company
1975	No Return	Pacific Telephone
1970	Dwyer Edmand	R. L. Polk & Co.
1966	WELLS MARLINM	R. L. Polk & Co.
1960	Gutierrez Vera J	R. L. Polk Co.
1955	Propes Raymond H	R. L. Polk Co.

1255 PALM ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	ROSALES Rogelio R	Haines & Company
1991	GONZALES FRANCISCO M	PACIFIC BELL WHITE PAGES
1985	MORENO MIGUEL	Pacific Bell
1975	Dahl Ruth Mrs	Pacific Telephone
	CAMARENA RAMON	Pacific Telephone
1970	No Return	R. L. Polk & Co.
1966	PRESTON WOODROW G	R. L. Polk & Co.

1257 PALM ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	NO CURRENT LISTING	Haines & Company
1996	Hurtado A	Pacific Bell
1991	HURTADO A	PACIFIC BELL WHITE PAGES
1985	MARQUEZ ESTHER	Pacific Bell
1975	Atekio Frank	Pacific Telephone
	ATENCIO FRANK E	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	Vacant	R. L. Polk & Co.
1966	ORSBORN KATH MRS	R. L. Polk & Co.

1262 PALM ST

Year	Uses	Source
2006	HANNEGregg	Haines Company, Inc.
2000	BLACY Jeanette	Haines & Company
1985	BITTNER VERNON A	Pacific Bell
1975	Key Luther T	Pacific Telephone
	KEY LUTHER T	Pacific Telephone
1970	Key Luther T	R. L. Polk & Co.
1966	KEY LUTHER T	R. L. Polk & Co.
1960	Webb Carlos B	R. L. Polk Co.
1957	HAWIMAN BARBARA MRS	Pacific Telephone
1955	Weber Donald	R. L. Polk Co.

1264 PALM ST

Year	Uses	Source
2006	GARCLAPati da	Haines Company, Inc.
2000	JIMENEZ Valentin R	Haines & Company
1996	Garcia Patino Patricia E	Pacific Bell
1985	RAMOS JESSE F	Pacific Bell
1975	Vacant	Pacific Telephone
1970	Sims Thos B	R. L. Polk & Co.
1966	RODRIGUEZ CASIMIRA MRS	R. L. Polk & Co.
1960	Irby Howard	R. L. Polk Co.
1955	Fraser Gerald	R. L. Polk Co.

1267 PALM ST

Year	Uses	Source
1975	Sanchez Florencio	Pacific Telephone
1970	Johnson Deane	R. L. Polk & Co.
1966	JOHNSON DEANE	R. L. Polk & Co.

1269 PALM ST

Year	Uses	Source
2006	ANORADE Porfitda	Haines Company, Inc.
	a JURADOJose	Haines Company, Inc.
2000	SILVEIRA Manuel	Haines & Company
1996	Silveira Manuel	Pacific Bell

FINDINGS

Year	Uses	Source
1991	SILVEIRA MANUEL	PACIFIC BELL WHITE PAGES
1985	SILVEIRA MANUEL	Pacific Bell
1975	SILVEIRA MANUEL	Pacific Telephone
	SANCHEZ MARGARET	Pacific Telephone
	Silveira Manuel	Pacific Telephone
1970	Silveira Manuel	R. L. Polk & Co.
1966	SILVEIRA MANUEL	R. L. Polk & Co.
1960	Hogg Margt Mrs	R. L. Polk Co.
	Barge Michl	R. L. Polk Co.
1957	BARGE MIKE R	Pacific Telephone
1955	Barge Micehl	R. L. Polk Co.
1950	Barge Michl	R. L. Polk & Co.
1945	Barge Michl	R. L. Polk Co.
1940	Baziuk Ludwig	R. L. Polk & Co.
1935	Vacant	R. L. Polk & Co. of California
1930	Vacant	R. L. Polk & Co. of California
1925	Vacant	R. L. Polk Co. of California

1274 PALM ST

Year	Uses	Source
2006	LOPEZ Joseph	Haines Company, Inc.
2000	LOPEZ Joseph	Haines & Company
1991	ROBLES MUNOZ CELSO	PACIFIC BELL WHITE PAGES
1985	MARTINEZ ERNESTO	Pacific Bell
1975	Martinez Ernest M	Pacific Telephone
1970	Martinez Ernest M	R. L. Polk & Co.
1966	MARTINEZ ERNEST M	R. L. Polk & Co.
1960	Carauddo Steve S	R. L. Polk Co.
1957	C ROE R	Pacific Telephone
1955	Curauddo Steve S	R. L. Polk Co.
1950	Carauddo S S	R. L. Polk & Co.
1945	Campbell J S	R. L. Polk Co.
1940	Hembree J S	R. L. Polk & Co.
1935	Hembree J S	R. L. Polk & Co. of California
1930	Vacant	R. L. Polk & Co. of California
1925	Ganci Jos	R. L. Polk Co. of California
1922	Garcia Jos	R. L. Polk Co.

FINDINGS

1278 PALM ST

Year	Uses	Source
2006	a MEJIAHertherio	Haines Company, Inc.
2000	MEJIA Heriberto	Haines & Company
	PARODOMEDINA Jesus	Haines & Company
1996	Romero Arthur S	Pacific Bell
1975	Bellizzi Jerry G	Pacific Telephone
1970	Bellizzi Jerry G	R. L. Polk & Co.
1966	BELLIZZI JERRY G	R. L. Polk & Co.
1957	BELLIZZI G J R	Pacific Telephone
1955	Bellizi Jerry G	R. L. Polk Co.
1950	Bellizzi J G	R. L. Polk & Co.
1945	Ryerson E L	R. L. Polk Co.
1940	Carrauddo Genevieve	R. L. Polk & Co.
1935	Ganci Rose Mrs o	R. L. Polk & Co. of California
1930	Ganci Rose Mrs o	R. L. Polk & Co. of California
1925	Ganci Mrs Rose	R. L. Polk Co. of California
1922	Ganci Constancio	R. L. Polk Co.

1279 PALM ST

Year	Uses	Source
2006	a LELAND Robert	Haines Company, Inc.
2000	LELAND Betty	Haines & Company
1975	De Vuono Sam	Pacific Telephone
1970	De Vuono Sam	R. L. Polk & Co.
1966	DE VUONO SAM	R. L. Polk & Co.
1960	De Vuono Saml A	R. L. Polk Co.
1957	DE VUONO SAM R	Pacific Telephone
1955	De Vuono Sam A	R. L. Polk Co.
1950	De Voni S A	R. L. Polk & Co.
1945	De Voni S A	R. L. Polk Co.
1940	Romeo Dominic	R. L. Polk & Co.
1935	Markham H P o	R. L. Polk & Co. of California
1930	Markham H P	R. L. Polk & Co. of California

1281 PALM ST

Year	Uses	Source
2000	HERNANDEZ Jose	Haines & Company
1975	Marcus Wm	Pacific Telephone
1970	No Return	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1966	HERNANDEZ JOE	R. L. Polk & Co.
1960	Failla Jos	R. L. Polk Co.
1957	FAILLA JOE R	Pacific Telephone
1955	Fallia Jos	R. L. Polk Co.
1950	Failla Jos	R. L. Polk & Co.
1945	Failla Jos	R. L. Polk Co.
1940	Monico Carl	R. L. Polk & Co.
1935	Christian E L o	R. L. Polk & Co. of California
1930	Christian E L o	R. L. Polk & Co. of California
1925	Christian E L	R. L. Polk Co. of California

1285 PALM ST

Year	Uses	Source
2000	FAMA Thomas	Haines & Company
	PIAZZA Nancy	Haines & Company
1996	DES Piazza Nancy	Pacific Bell
1991	PIAZZA NANCY	PACIFIC BELL WHITE PAGES
1985	PIAZZA NANCY	Pacific Bell
1975	Piazza Joseph F	Pacific Telephone
1970	Piazza Joseph F	R. L. Polk & Co.
1966	PIAZZA JOSEPH	R. L. Polk & Co.

1286 PALM ST

Year	Uses	Source
2006	TAMAYO Gabr Eil	Haines Company, Inc.

1287 PALM ST

Year	Uses	Source
2006	TAMAYO Macto	Haines Company, Inc.
2000	NO CURRENT LISTING	Haines & Company
1975	OMalley Donald	Pacific Telephone
1970	Ramsay Louis	R. L. Polk & Co.
1966	CARNO REBECCA MRS	R. L. Polk & Co.

1298 PALM ST

Year	Uses	Source
2006	a PERERA Robertco	Haines Company, Inc.
	B AJOKUKfester U	Haines Company, Inc.
2000	PEREIRA Roberto	Haines & Company
	ALMANZA Mike	Haines & Company

FINDINGS

Year	Uses	Source
1975	Cara Victoria	Pacific Telephone
1970	Dominguez Jess	R. L. Polk & Co.
1966	LOPEZ HENRY	R. L. Polk & Co.
1960	Dominguez Jess D	R. L. Polk Co.
1957	DAMLNGUEZ JESS D	Pacific Telephone
1955	Dominguez Jess D	R. L. Polk Co.
1950	Dominguez J D	R. L. Polk & Co.
1945	Domenici Dusolina Mrs	R. L. Polk Co.
1940	Domenici Dunsolina Mrs	R. L. Polk & Co.
1935	Domenici Dunsolina Mrs o	R. L. Polk & Co. of California
1930	Domenici Lazzaro	R. L. Polk & Co. of California
1925	Domenici Lazzaro	R. L. Polk Co. of California
1922	Domenici Lazzaro	R. L. Polk Co.

1299 PALM ST

Year	Uses	Source
2006	SANCHEZ Prancis	Haines Company, Inc.
	ANDERSON Donald	Haines Company, Inc.
2000	MCLAIN Terence	Haines & Company
1975	LOONEY S	Pacific Telephone
	Looney Shirley Mrs	Pacific Telephone
	/ Hubbard S	Pacific Telephone
1970	/ Frazier Robt W	R. L. Polk & Co.
	Butler Chuck	R. L. Polk & Co.
1966	ANTHONY LINDELL	R. L. Polk & Co.
1960	Urrey Irvin D	R. L. Polk Co.
1957	ESTAVILLO EDDIE	Pacific Telephone
1955	Ferla Alf J	R. L. Polk Co.
1950	Spina J S	R. L. Polk & Co.
1945	Spina J S	R. L. Polk Co.
1940	Christian Florence Mrs	R. L. Polk & Co.
1935	Christian Florence Mrs	R. L. Polk & Co. of California
1930	Christian C W o	R. L. Polk & Co. of California
1925	Christian C W	R. L. Polk Co. of California
1922	Christian C W	R. L. Polk Co.

1301 PALM ST

Year	Uses	Source
2006	a REEDKathlew	Haines Company, Inc.

Year	Uses	Source
2000	REED Kathleen	Haines & Company

1303 PALM ST

Year	Uses	Source
2006	WESTRL	Haines Company, Inc.
2000	TORREZ Jack	Haines & Company

1305 PALM ST

Year	Uses	Source
2006	AGUINIGACarios	Haines Company, Inc.
2000	KIMURA Kevin	Haines & Company
1996	Kimura Kevin	Pacific Bell
1991	KLMURA KEVEN	PACIFIC BELL WHITE PAGES

1307 PALM ST

Year	Uses	Source
2006	OCHUAAmy	Haines Company, Inc.
2000	HUDSON Ailsa	Haines & Company

W HUMBOLDT ST

301 W HUMBOLDT ST

Year	Uses	Source
1975	TORRES MARY	Pacific Telephone

316 W HUMBOLDT ST

Year	Uses	Source
2006	a GONZALEZ Dav Id	Haines Company, Inc.
1986	Gonzalez Juvlntino	Pacific Bell
1985	GONZALEZ JUVINTINO	Pacific Bell
1980	Gonzalez Juvintino	Pacific Telephone
1975	GONZALEZ JUVINTINO	Pacific Telephone

324 W HUMBOLDT ST

Year	Uses	Source
2006	LAGUNA Martha	Haines Company, Inc.
1991	Laguna Antonio R	PACIFIC BELL WHITE PAGES
	LAGUNA ANTONIO R	PACIFIC BELL WHITE PAGES
1986	Laguna Antonio R	Pacific Bell
1985	LAGUNA ANTONIO R	Pacific Bell
1980	Laguna Antonio R	Pacific Telephone

FINDINGS

Year	Uses	Source
1957	TANDA JOHN M	Pacific Telephone

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
1197 Lick Avenue	2001, 1991, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1962, 1957, 1946, 1942, 1936, 1931, 1926

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
1076 LICK AVE	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1078 LICK AVE	2013, 2008, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1962, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1080 LICK AVE	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1962, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1080 LICK ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1922
1085 Lick Av	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1086 LICK AVE	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1962, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1089 LICK AVE	2013, 2008, 2001, 1996, 1986, 1985, 1982, 1978, 1974, 1968, 1965, 1964, 1962, 1946, 1942, 1936, 1931, 1926, 1925, 1922
1089 LICK ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926
1091 LICK AVE	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1962, 1957, 1946, 1942, 1936, 1931, 1926, 1925, 1922
1091 LICK ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926
1095 LICK ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926
1096 LICK AVE	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1962, 1946, 1942, 1936, 1931, 1926, 1925, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1101 LICK AVE	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1957, 1946, 1942, 1936, 1931, 1926, 1925, 1922
1101 LICK ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926
1102 LICK AVE	2013, 2008, 2006, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1962, 1946, 1942, 1936, 1931, 1930, 1926, 1925, 1922
1103 LICK AVE	2013, 2008, 2001, 1996, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1104 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1104 PALM CT	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1104 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1106 1/2 LICK AVE	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1106 LICK AVE	2013, 2008, 2001, 1996, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1962, 1946, 1942, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1106 LICK ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926
1108 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1108 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1966, 1965, 1964, 1963, 1962, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1109 LICK AVE	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1111 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1111 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1946, 1942, 1936, 1931, 1930, 1926, 1925, 1922
1111 PALM ST	2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1112 LICK AVE	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1962, 1946, 1942, 1936, 1931, 1930, 1926, 1925, 1922
1114 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1114 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1116 LICK AVE	2013, 2008, 2001, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1962, 1957, 1946, 1942, 1936, 1931, 1926, 1925, 1922
1116 LICK ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926
1116 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1116 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1120 PALM AVE	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1985, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1122 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1122 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1123 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1123 PALM ST	2013, 2008, 2001, 1996, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1129 PALM AVE	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1985, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1130 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1130 PALM AVE	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1130 PALM ST	2013, 2008, 2001, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1132 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1132 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1135 LICK AVE	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1962, 1957, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1136 PALM AVE	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1140 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1140 PALM DR	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1140 PALM ST	2013, 2008, 2001, 1991, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1140 PALM ST	2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1141 LICK AVE	2013, 2008, 2006, 2001, 1996, 1991, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1145 LICK AVE	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1946, 1942, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1145 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1145 PALM ST	2013, 2008, 2001, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1942, 1936, 1931, 1926
1146 PALM AVE	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1147 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1986, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1147 PALM ST	2013, 2008, 2001, 1996, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1946, 1942, 1936, 1931, 1926
1147 PALM ST	2013, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1148 LOCUST ST	2013, 2008, 2001, 1996, 1991, 1982, 1978, 1974, 1968, 1965, 1964, 1962, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1148 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1148 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1942, 1936, 1931, 1926, 1925, 1922
1149 LOCUST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1149 LOCUST DR	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1149 LOCUST ST	2013, 2008, 2001, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1962, 1946, 1942, 1936, 1935, 1931, 1930, 1926

FINDINGS

Address Researched	Address Not Identified in Research Source
1149 LOCUST ST S	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1931, 1926, 1925, 1922
1149 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1986, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1149 PALM ST	2013, 2008, 2001, 1996, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1946, 1942, 1936, 1931, 1926
1150 LICK AVE	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1942, 1936, 1931, 1926, 1925, 1922
1150 LICK ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1922
1154 LOCUST ST	2013, 2008, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1156 LICK AVE	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1156 LOCUST ST	2013, 2008, 2001, 1996, 1991, 1986, 1982, 1978, 1974, 1968, 1965, 1964, 1962, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1158 LICK AVE	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1962, 1946, 1942, 1936, 1931, 1926, 1925, 1922
1158 LICK ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926
1161 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1161 PALM ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1162 LOCUST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1162 LOCUST ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1962, 1957, 1946, 1942, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1162 LOCUST ST S	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1931, 1926, 1925, 1922
1163 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1163 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1164 LOCUST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1164 LOCUST DR	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1164 LOCUST ST	2013, 2008, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1946, 1942, 1936, 1935, 1931, 1930, 1926, 1922
1164 LOCUST ST S	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1931, 1926, 1925, 1922
1165 LOCUST ST	2013, 2008, 2001, 1996, 1991, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1962, 1957, 1946, 1942, 1936, 1935, 1931, 1930, 1926, 1922
1165 LOCUST ST S	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1931, 1926, 1925, 1922
1166 LICK AVE	2013, 2008, 2001, 1996, 1991, 1982, 1978, 1974, 1968, 1965, 1964, 1962, 1946, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1166 LOCUST ST	2013, 2008, 2001, 1996, 1991, 1986, 1982, 1978, 1974, 1968, 1965, 1964, 1962, 1957, 1946, 1942, 1936, 1935, 1931, 1930, 1926
1166 LOCUST ST S	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1931, 1926, 1925, 1922
1167 LOCUST ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1957, 1946, 1942, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1167 LOCUST ST S	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1931, 1926, 1925, 1922
1169 LOCUST ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1978, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1170 LICK AVE	2013, 2008, 2001, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1966, 1965, 1964, 1962, 1957, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1171 LOCUST ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1172 LICK AVE	2013, 2008, 2001, 1982, 1978, 1974, 1968, 1965, 1964, 1962, 1946, 1942, 1936, 1931, 1926, 1925, 1922
1172 LICK ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926
1175 LOCUST ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1175 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1986, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1175 PALM CT	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1175 PALM ST	2013, 2008, 2001, 1996, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1946, 1942, 1936, 1931, 1926

FINDINGS

Address Researched	Address Not Identified in Research Source
1177 LOCUST ST	2013, 2008, 2001, 1996, 1991, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1178 LOCUST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1178 LOCUST ST	2013, 2008, 2001, 1991, 1982, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1179 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1179 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1180 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1180 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1946, 1942, 1936, 1931, 1926, 1922
1181 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1186 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1186 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1942, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1189 LOCUST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1189 LOCUST ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1942, 1936, 1935, 1931, 1930, 1926
1189 LOCUST ST S	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1931, 1926, 1925, 1922
1190 LOCUST ST	2013, 2008, 2001, 1991, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1942, 1936, 1935, 1931, 1930, 1926
1190 LOCUST ST S	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1931, 1926, 1925, 1922
1190 PALM ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1191 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1191 PALM ST	2013, 2008, 2001, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1942, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1192 PALM ST	2013, 2008, 2001, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1194 LICK AVE	2013, 2008, 2001, 1991, 1982, 1978, 1974, 1968, 1965, 1964, 1962, 1946, 1942, 1936, 1931, 1926, 1925, 1922
1194 LICK AVE	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1194 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1194 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1196 LOCUST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1196 LOCUST ST	2013, 2008, 2001, 1996, 1991, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1962, 1957, 1946, 1942, 1936, 1935, 1931, 1930, 1926, 1922
1196 LOCUST ST S	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1931, 1926, 1925, 1922
1197 LOCUST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1197 LOCUST DR	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1197 LOCUST ST	2013, 2008, 2001, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1962, 1957, 1946, 1942, 1936, 1935, 1931, 1930, 1926, 1922
1197 LOCUST ST	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1197 LOCUST ST S	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1931, 1926, 1925, 1922
1198 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1198 PALM CT	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1198 PALM ST	2013, 2008, 2001, 1996, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1946, 1942, 1936, 1931, 1926, 1922
1200 LICK AVE	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1200 LICK AVE	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1202 LICK AVE	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1962, 1957, 1946, 1945, 1942, 1936, 1931, 1926, 1925, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1204 LOCUST ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1205 LOCUST ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1966, 1965, 1964, 1963, 1962, 1957, 1946, 1942, 1936, 1935, 1931, 1930, 1926
1205 LOCUST ST S	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1931, 1926, 1925, 1922
1206 LOCUST ST	2013, 2008, 2006, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1206 PALM AVE	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1985, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1208 LICK AVE	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1208 LOCUST ST	2013, 2008, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1208 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1210 LOCUST ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1212 LICK AVE	2013, 2008, 2006, 2001, 1996, 1991, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1215 LOCUST ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1216 PALM ARC	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1216 PALM AVE	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1218 LICK AVE	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1946, 1942, 1936, 1931, 1926, 1925, 1922
1218 LICK ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926
1220 LOCUST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1220 LOCUST ST	2013, 2008, 2001, 1991, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1942, 1936, 1935, 1931, 1930, 1926
1220 LOCUST ST S	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1931, 1926, 1925, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1220 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1220 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1942, 1936, 1931, 1926
1222 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1222 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1946, 1942, 1936, 1931, 1926
1224 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1224 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1942, 1936, 1931, 1926
1225 LOCUST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1225 LOCUST DR	2013, 2008, 2006, 2001, 2000, 1996, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1225 LOCUST ST	2013, 2008, 2001, 1996, 1982, 1978, 1974, 1968, 1965, 1964, 1962, 1957, 1946, 1942, 1936, 1935, 1931, 1930, 1926
1225 LOCUST ST S	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1931, 1926, 1925, 1922
1226 LOCUST ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1962, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1227 PALM ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1946, 1942, 1936, 1935, 1931, 1926, 1925, 1922
1228 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1228 PALM ST	2013, 2008, 2006, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1950, 1946, 1942, 1936, 1931, 1926
1229 LOCUST ST	2013, 2008, 2001, 1991, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1229 LOCUST ST	2013, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1229 PALM ST	2013, 2008, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1230 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1230 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1946, 1942, 1936, 1931, 1926

FINDINGS

Address Researched	Address Not Identified in Research Source
1232 LOCUST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1232 LOCUST ST	2013, 2008, 2001, 1996, 1986, 1982, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1946, 1942, 1936, 1935, 1931, 1930, 1926
1232 LOCUST ST S	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1931, 1926, 1925, 1922
1233 LOCUST ST	2013, 2008, 2001, 1996, 1991, 1986, 1982, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1942, 1936, 1935, 1931, 1930, 1926
1233 LOCUST ST S	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1931, 1926, 1925, 1922
1234 LOCUST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1234 LOCUST DR	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1234 LOCUST ST	2013, 2008, 2001, 1996, 1986, 1985, 1982, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1946, 1942, 1936, 1935, 1931, 1930, 1926
1234 LOCUST ST S	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1931, 1926, 1925, 1922
1235 LOCUST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1235 LOCUST ST	2013, 2008, 2001, 1996, 1991, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1942, 1936, 1935, 1931, 1930, 1926
1235 LOCUST ST S	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1931, 1926, 1925, 1922
1235 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1235 PALM ST	2013, 2008, 2006, 2001, 1996, 1991, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1236 LOCUST ST	2013, 2008, 2001, 1996, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1239 LOCUST DR	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1239 LOCUST ST	2013, 2008, 2001, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1962, 1946, 1942, 1936, 1935, 1931, 1930, 1926
1239 LOCUST ST S	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1931, 1926, 1925, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1240 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1240 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1242 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1242 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1244 LICK AVE	2013, 2008, 2001, 1996, 1991, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1942, 1936, 1931, 1926, 1925, 1922
1244 LICK AVE	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1244 LICK ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1922
1247 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1247 PALM ST	2013, 2008, 2001, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1249 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1249 PALM ST	2013, 2008, 2001, 1996, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1250 LICK AVE	2013, 2008, 2001, 1996, 1982, 1978, 1974, 1968, 1965, 1964, 1962, 1957, 1946, 1942, 1936, 1931, 1926, 1925, 1922
1250 LICK ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926
1251 PALM ST	2013, 2008, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1252 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1252 PALM ST	2013, 2008, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1254 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1255 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1255 PALM ST	2013, 2008, 2001, 1996, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1256 LICK AVE	2013, 2008, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1257 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1257 PALM ST	2013, 2008, 2001, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1259 LOIS AVE	2013, 2008, 2006, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1262 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1262 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1263 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1264 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1264 PALM ST	2013, 2008, 2001, 1991, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1267 PALM ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1268 LICK AVE	2013, 2008, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1269 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1269 PALM ST	2013, 2008, 2001, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1942, 1936, 1931, 1926, 1922
1274 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1274 PALM DR	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1274 PALM ST	2013, 2008, 2001, 1996, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1942, 1936, 1931, 1926
1278 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1278 PALM ST	2013, 2008, 2001, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1960, 1946, 1942, 1936, 1931, 1926
1279 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1279 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1942, 1936, 1931, 1926, 1925, 1922
1281 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1281 PALM ST	2013, 2008, 2006, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1942, 1936, 1931, 1926, 1922
1285 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1285 PALM ST	2013, 2008, 2006, 2001, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1286 PALM ST	2013, 2008, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1287 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1287 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1290 LICK AVE	2013, 2008, 2006, 2001, 1982, 1978, 1974, 1968, 1965, 1964, 1962, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1298 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1298 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1942, 1936, 1931, 1926
1299 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1299 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1942, 1936, 1931, 1926
1300 LICK AVE	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1301 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1303 LICK AVE	2013, 2008, 2006, 2001, 1982, 1978, 1974, 1968, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1303 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1305 PALM	2013, 2008, 2006, 2001, 2000, 1996, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1305 PALM ST	2013, 2008, 2001, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
1307 PALM ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
301 HUMBOLDT ST W	2013, 2008, 2006, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
301 W HUMBOLDT ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
316 HUMBOLDT ST W	2013, 2008, 2006, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1946, 1942, 1936, 1931, 1930, 1926, 1925, 1922
316 W HUMBOLDT ST	2013, 2008, 2001, 2000, 1996, 1991, 1982, 1978, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
324 HUMBOLDT ST W	2013, 2008, 2006, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1946, 1942, 1936, 1931, 1926
324 W HUMBOLDT ST	2013, 2008, 2001, 2000, 1996, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
328 HUMBOLDT ST W	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1936, 1931, 1926
344 FLOYD ST	2013, 2008, 2001, 1996, 1982, 1978, 1974, 1968, 1965, 1964, 1962, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
360 GOODYEAR	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
360 GOODYEAR ST	2013, 2008, 2001, 1996, 1991, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
362 GOODYEAR ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
364 GOODYEAR	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
364 GOODYEAR ST	2013, 2008, 2001, 1996, 1991, 1986, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
379 FLOYD AVE	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
390 FLOYD	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922

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Address Researched	Address Not Identified in Research Source
390 FLOYD ST	2013, 2008, 2006, 2001, 1991, 1982, 1978, 1974, 1968, 1965, 1964, 1962, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
390 FLOYD ST	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
395 GOODYEAR	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
395 GOODYEAR ST	2013, 2008, 2001, 1982, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1946, 1942, 1936, 1931, 1930, 1926, 1925, 1922
412 GOODYEAR ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
418 GOODYEAR ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1942, 1936, 1935, 1931, 1930, 1926, 1925, 1922
425 GOODYEAR ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926
426 GOODYEAR ST	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1922
444 GOODYEAR	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
444 GOODYEAR ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
445 GOODYEAR	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
445 GOODYEAR ST	2013, 2008, 2001, 1996, 1991, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
447 GOODYEAR	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
447 GOODYEAR ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
448 GOODYEAR	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
448 GOODYEAR ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1957, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
449 GOODYEAR	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
449 GOODYEAR ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
452 GOODYEAR	2013, 2008, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
452 GOODYEAR ST	2013, 2008, 2001, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1968, 1965, 1964, 1963, 1962, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
452 GOODYEAR ST	2013, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922

APPENDIX E – QUESTIONNAIRE

CORNERSTONE
EARTH GROUP

General Environmental Questionnaire

Cornerstone Earth Group is performing a Phase I environmental site assessment (ESA). The purpose of the ESA is to evaluate current and historic uses of the property that may have involved the use, generation, or storage of hazardous materials. Please respond to these questions to the best of your knowledge.

Return the completed, signed questionnaire by fax at (408) 245-4620 or by mail to the address below. Alternatively, a scanned copy can be emailed to sfoster@cornerstoneearth.com. The completed questionnaire will be attached to the ESA report. Thank you for your assistance and timely response.

GENERAL PROPERTY INFORMATION

1) **Site Address(es) and Assessor's Parcel Number(s):** Please list all current and former addresses. Some sites have multiple addresses; all are needed, even if they are not in current use.

Address(es)	APN Number(s)
1197 Lick Avenue	434-13-041

2) **Property Size:** ~ 7 acres (Sq. Ft. or Acres [circle one])

3) **Current site owner(s) and purchase date:**

Current Owner Name	Year Purchased
Santa Clara County Transit District	1989

4) **Previous site owner(s) and dates of ownership:**

Prior Owner Name	Year Purchased	Year Sold

CORNERSTONE EARTH GROUP

STRUCTURES AND OCCUPANTS

5) Please describe all on-site buildings:

Building Size (sq. ft)	Building Use	Date of Construction
9,604 ft	Childcare Facility	Oct. 1994
800 ft	P-Trac Modular	N/A

Potable Water Source (*e.g.*, city or other water agency, on-site well, etc.): City

Sewage Disposal System (*e.g.*, city sewer, septic tank, etc.): City

Heating/Cooling System and Fuel Source (*e.g.*, electric, natural gas, fuel oil, etc.): Electric

6) Current site tenant(s), site use, and years of occupancy:

Tenant	Site Use	Years of Occupancy (*e.g.*, From 1995 to 2007)
Tamien Child Care Center		1995-present
Teralink/Parsons Construction Staging Area		2013-present

7) Prior site tenant(s), site use, and years of occupancy:

Tenant	Site Use	Years of Occupancy (*e.g.*, From 1975 to 1983)

CORNERSTONE EARTH GROUP

OTHER SITE FEATURES AND INFORMATION

8) Please indicate if you are aware of any of the following structures, features, or activities currently or formerly at the site.

Structure/Feature	Yes	No	Do Not Know
Aboveground Storage Tanks (ASTs)		X	
Agricultural fields		X	
Agricultural or drinking water supply wells		X	
Air emission control systems		X	
Areas where garbage or other wastes have been disposed on-site	X		
Boilers		X	
Chemical mixing or processing activities		X	
Chemical storage areas		X	
Current or former drainage ditches, ponds, or streams		X	
Dry cleaning equipment		X	
Dry wells		X	
Elevators		X	
Emergency generators			X
Equipment maintenance or repair areas		X	
Fill materials placed on-site (*i.e.*, fill used to build up the site elevation to current level)		X	
Ground water monitoring wells		X	X
Ground water or soil remediation systems			X
Hydraulic lifts		X	
Incinerators		X	
Manufacturing machinery		X	
Medical Waste		X	
Oil or gas wells		X	
Petroleum pipelines		X	
Railroad lines		X	
Septic tanks		X	
Stockpiles of soil or debris	X		
Storage sheds	X	X	
Sumps, clarifiers, oil/water separators, or similar structures		X	
Transformers		X	
Underground Storage Tanks (USTs)		X	
Vapor or dust control hoods and ducting		X	
Waste burning areas (i.e. burn pit) or ash disposal area		X	

If you checked yes to any of the above, please provide additional information here or attach to this questionnaire.

- Garbage Facility for childcare Center (dumpsters next to bldg.)
- Field has soil

9) Please indicate if, to your knowledge, any of the following documents exist:

Document	Yes	No	Do Not Know
Environmental site assessments	X		
Environmental permits or violation notices			X
Underground or above ground storage tank documents/permits			X
Geotechnical reports or hydrogeologic studies	X		
Risk assessments			X
Hazardous materials management plans or chemical inventories		X	
Safety/emergency response plans or spill prevention plans		X	
Compliance audits or community right-to-know plans		X	
Asbestos or lead based paint surveys		X	

If you checked yes to any of the above, please indicate the location of the documents.
Can copies be provided? Yes X No _____

10) Have significant quantities of hazardous materials been used, stored, or generated on-site?
Yes _____ No X

If so, please list types and quantities and where these materials are or were located.

11) Are you aware of commonly known or reasonably ascertainable information about the site that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, do you know of past uses of the site, specific chemicals that were or are present at the site, have knowledge of spills or other chemical releases at the site, or any environmental cleanups at the site.
Yes _____ No X

If so, please briefly describe below, including whether reports documenting the activities are available for review by Cornerstone Earth Group.

12) Are you aware of any environmental cleanup liens against the site that are filed or recorded under federal, tribal, state, or local law?
Yes _____ No X

13) Are you aware of any activity or use limitations (UALs), such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law?

Yes X No ____

If so, please briefly describe below.

Preserved Area for reburied remains.

14) Are you aware of 1) any pending, threatened or past litigation, or administrative proceedings relevant to hazardous substances or petroleum products at the site, or 2) any notices from any governmental entity regarding possible violations of environmental laws or possible liability related to hazardous substances or petroleum products?

Yes ____ No X

If so, please briefly describe below.

15) Completed by:

Name (print)	Signature	Company	Date
Jennifer Recci	JR	VTA	5/14/15

EXHIBIT "A"

LEGAL DESCRIPTION

That certain real property situated in the City of San Jose, Santa Clara County, State of California, being a portion of Parcel One as described in the Final Order of Condemnation recorded on March 23, 1989 in Book K903, pages 2059 through 2061 inclusive, Official Records of said County, said real property being described as follows:

A strip of land, 10.00 feet in width, lying 5.00 feet each side of the following described centerline:

Commencing at the intersection of the southeasterly line of Goodyear Street, 45.00 feet wide, as shown on the map of Tract No. 6846 filed in Book 470 of Maps, at Page 24 in the Recorder's Office of said County, with the northeasterly line of the Southern Pacific Transportation Company right of way, 100.00 feet wide, as shown on Record of Survey filed on May 30, 2001 in Book 740 of Maps, at Page 4 in the Recorder's Office of said County; thence along the northeasterly line of said Southern Pacific Transportation right of way South 33°12'30" East 491.32 feet; thence leaving last said line North 56°48'04" East 67.26 feet to the **POINT OF BEGINNING;** thence South 32°03'11" East 160.00 feet.

The vertical limits of the above-described parcel shall be contained between an elevation of 94.00 feet and 107.00 feet being referenced from the Santa Clara Valley Water District benchmark number "BM830"; a 2" (5cm) aluminum disc stamped 'Cross Land Surveying PLS 3242 CSJ BM6' located at the northwest corner of Willow St. and Locust St. in San Jose and having a NAVD88 elevation of 106.66 feet.

The area of the above-described parcel is 1,600 square feet (0.037 acres) more or less, and contains a volume of 20,800 cubic feet (770 cubic yards) more or less.

The true location of this preserved area is to be determined by the actual location of the reburied remains.

The information shown is based on a combination of record and measured data. See the attached drawing, Exhibit B, which is hereby made a part of this description.

End of Description

Scott A. Bryant

Scott A. Bryant, PLS 7228
Expires 12/31/2008

LICENSED LAND SURVEYOR
SCOTT A. BRYANT
Exp. 12/31/08
No. 7228
STATE OF CALIFORNIA

P:\6SCV010419\Survey\legals\Tamien Reburial Site-Legal-final.doc

APPENDIX F – PRIOR REPORTS

September 18, 1997

Mr. Ray Hybarger
Santa Clara Valley Transportation Authority
3331 North First Street
San Jose, CA 95134-1906

Dear Mr. Hybarger:

Subject: Fuel Leak Site Case Closure—Santa Clara Valley Transportation Authority—Tamien Station, 1193 Lick Avenue, San Jose, CA 95110; Case No. 12-019

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Santa Clara Valley Water District is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

If you have any questions, please call Ms. Adele Shepherd at the Camden Office, (408) 927-0710, extension 2639. Thank you.

Sincerely,

ORIGINAL SIGNED BY

James S. Crowley, P.E.
Special Programs Engineer
Leaking Underground Storage Tank Oversight Program

Enclosures:
1. Case Closure Letter
2. Case Closure Summary

cc: Mr. John West (w/enc)
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

Mr. Dan Firth
Hazardous Materials Division
San Jose Fire Department
4 North Second Street, Suite 1100
San Jose, CA 95113-1305

Mr. Dave Deaner
Division of Clean Water Programs
Underground Storage Tank Cleanup Fund
State Water Resources Control Board
P.O. Box 944212
Sacramento, CA 94244-2120

J. Crowley, A. Shepherd (w/orig enc), Database (w/enc)

AS:lcg:FL9482fx

September 18, 1997

Mr. Ray Hybarger
Santa Clara Valley Transportation Authority
3331 North First Street
San Jose, CA 95134-1906

Dear Mr. Hybarger:

Subject: Fuel Leak Site Case Closure—Santa Clara Valley Transportation Authority—Tamien Station, 1193 Lick Avenue, San Jose, CA 95110; Case No. 12-019

This letter confirms the completion of a site investigation and remedial action for the underground storage tank(s) formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

ORIGINAL SIGNED BY

James S. Crowley, P.E.
Special Programs Engineer
Leaking Underground Storage Tank Oversight Program

FL9482fx

Santa Clara Valley Water District

CASE CLOSURE SUMMARY
LEAKING UNDERGROUND FUEL STORAGE TANK PROGRAM

I. AGENCY INFORMATION

Date: September 15, 1997

Agency Name: Santa Clara Valley Water District	Address: 5750 Almaden Expressway
City/State/Zip: San Jose, CA 95118	Phone: (408) 265-2600
Responsible Staff Person: Adele R. Shepherd	Title: Water Quality Specialist

II. CASE INFORMATION

Site Facility Name: Santa Clara Valley Transportation Authority—Tamien Station		
Site Facility Address: 1193 Lick Avenue, San Jose, CA 95110		
RB LUSTIS Case No.: —	Local Case No.: 07S1E20B01f	LOP Case No.: 12-019
URF Filing Date: 06/10/92	SWEEPS No.: —	APN: 434-13-034

Responsible Parties	Addresses	Phone Number
Mr. Ray Hybarger Santa Clara Valley Transportation Authority	3331 North First Street San Jose, CA 95134-1906	(408) 321-5834

Tank I.D. No	Size in Gallons	Contents	Closed In-Place/Removed?	Date
—	One at 500	Gasoline	Removed	12/27/89
—	One at 18,000	Bunker fuel oil	Removed	12/27/89
—	Three sumps	—	Removed	12/89
Piping			Not reported	—

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Up to 420 parts per million (ppm) Total Petroleum Hydrocarbons as Gasoline (TPHG) and 6.9 ppm Benzene in soils beneath former gasoline tank.		
Site characterization complete? Yes	Date Approved By Oversight Agency: 11/08/90	
Monitoring wells installed? Yes	Number: 7	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 12′	Lowest Depth: 23′	Flow Direction: North northwest to north northeast
Most Sensitive Current Use: Potential drinking water supply		
Summary of Production Wells in Vicinity: There is one inactive well approximately 800 feet east of the subject site. The purpose of the well is unknown. However, there is no pump associated with this well according to information in Santa Clara Valley Water District records. The well has been inactive since 1965; the reason is unknown. This well does not appear to pose as a potential receptor to residual pollution at the subject site.		
Are drinking water wells affected? No	Aquifer Name: Santa Clara Valley Basin	
Is surface water affected? No	Nearest SW Name: Guadalupe River ≈800 feet west	
Off-Site Beneficial Use Impacts (Addresses/Locations): None reported		
Reports on file? Yes	Where are reports filed? Santa Clara Valley Water District	

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	One at 18,000 gallons One at 500 gallons	Disposed to H&H Shipping, San Francisco, CA	02/02/90
Piping	Not reported	—	—
Free Product	—	—	—
Soil	≈900 cubic yards	Aerated and used on site	1990
Groundwater	1,850 gallons	Transported to H&H Shipping, San Francisco, CA	02/02/90
Barrels	—	—	—

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS—BEFORE AND AFTER CLEANUP
(Please see Attachments 3 and 4 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)		Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After		Before	After	Before	After
TPH (Gas)	420	2,600	7,900	480	Xylene	81	10	600	9.7
TPH (Diesel)	ND	NA	NA	NA	Ethylbenzene	15	1.9	400	18
Benzene	6.9	2.7	1,000	21	Oil & Grease	425	NA	NA	NA
Toluene	40	6.6	110	1	Heavy Metals	350[1]	NA	17[2]	NA
Other (8010)	0.11 1,2DCA	NA	NA	NA	MTBE	NA	NA	ND	ND

Description of Interim Remediation Activities: May 1987 exploratory soil and groundwater sampling and analyses were performed near tanks, sumps, an anodizing plant, and a paint shop yard. Up to 350 ppm lead was indicated near ground surface at the anodizing plant. The Soluble Threshold Limit Concentration (STLC) for this sample was 12 milligrams per liter (mg/l) The hazardous STLC for lead is 5 mg/l. Analytical results for petroleum hydrocarbon pollution in soil and grab groundwater samples indicated no significant concentrations near sumps, heating oil tank, or gasoline tank. Much of the site was excavated due to the presence of an American indian burial ground and due to subsequent construction activities.

December 1989 tanks and sumps were removed. Analytical results for soil samples from beneath both tanks indicated less than detectable pollution beneath the former fuel oil tank and up to 420 ppm TPHG and up to 6.9 ppm Benzene near former gasoline tank. Soil was overexcavated near the gasoline tank to final excavation limits of 30 feet by 30 feet by 18 feet. Analytical results for confirmatory soil samples were nondetect. A total of 900 cubic yards of soil and 1,850 gallons of groundwater were removed from the excavation. Groundwater monitoring wells were installed around the former gasoline tank June 1990.

Quarterly groundwater monitoring was initiated June 1990 and has continued since. Two additional wells were installed September 1994. Quarterly monitoring has continued through the first quarter 1997 and groundwater pollution levels have attenuated to below levels of regulatory concern.

No other work has been performed at the site.

[1]Lead; the STLC for this sample was 12 mg/l The hazardous STLC for lead is 5 mg/l.
[2]Chromium

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Santa Clara Valley Water District staff does not make specific determinations concerning public health risk. However, it does not appear that the release would present a risk to human health.		
Site Management Requirements: None		
Should corrective action be reviewed if land use changes? No		
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 7
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances: None.

Conclusion: Underground storage tanks and sumps were removed from the site in 1989. Soil pollution of significance was indicated beneath the gasoline tank. Soils were overexcavated to groundwater, wells installed, and groundwater monitoring conducted. Pollution levels have attenuated to below levels of regulatory concern Santa Clara Valley Water District staff recommends this case for closure.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Adele R. Shepherd	Title: Water Quality Specialist
Signature: Adele R. Shepherd	Date: 9/15/97
Approved by: James S. Crowley, P.E.	Title: Associate Civil Engineer
Signature: [illegible]	Date: 9/17/97

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Kevin Graves	Title: Associate Water Resources Control Engineer
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB:
Signature:	Date:

Attachments:

1. Site Vicinity Map
2. Site Plan
3. Groundwater Analytical Results
4. Soil Analytical Results

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Santa Clara Valley Water District staff does not make specific determinations concerning public health risk. However, it does not appear that the release would present a risk to human health.		
Site Management Requirements: None		
Should corrective action be reviewed if land use changes? No		
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 7
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances: None.

Conclusion: Underground storage tanks and sumps were removed from the site in 1989. Soil pollution of significance was indicated beneath the gasoline tank. Soils were overexcavated to groundwater, wells installed, and groundwater monitoring conducted. Pollution levels have attenuated to below levels of regulatory concern. Santa Clara Valley Water District staff recommends this case for closure.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Adele R. Shepherd	Title: Water Quality Specialist
Signature: Adele R. Shepherd	Date: 9/15/97
Approved by: James S. Crowley, P.E.	Title: Associate Civil Engineer
Signature: James S. Crowley	Date: 9/17/97

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

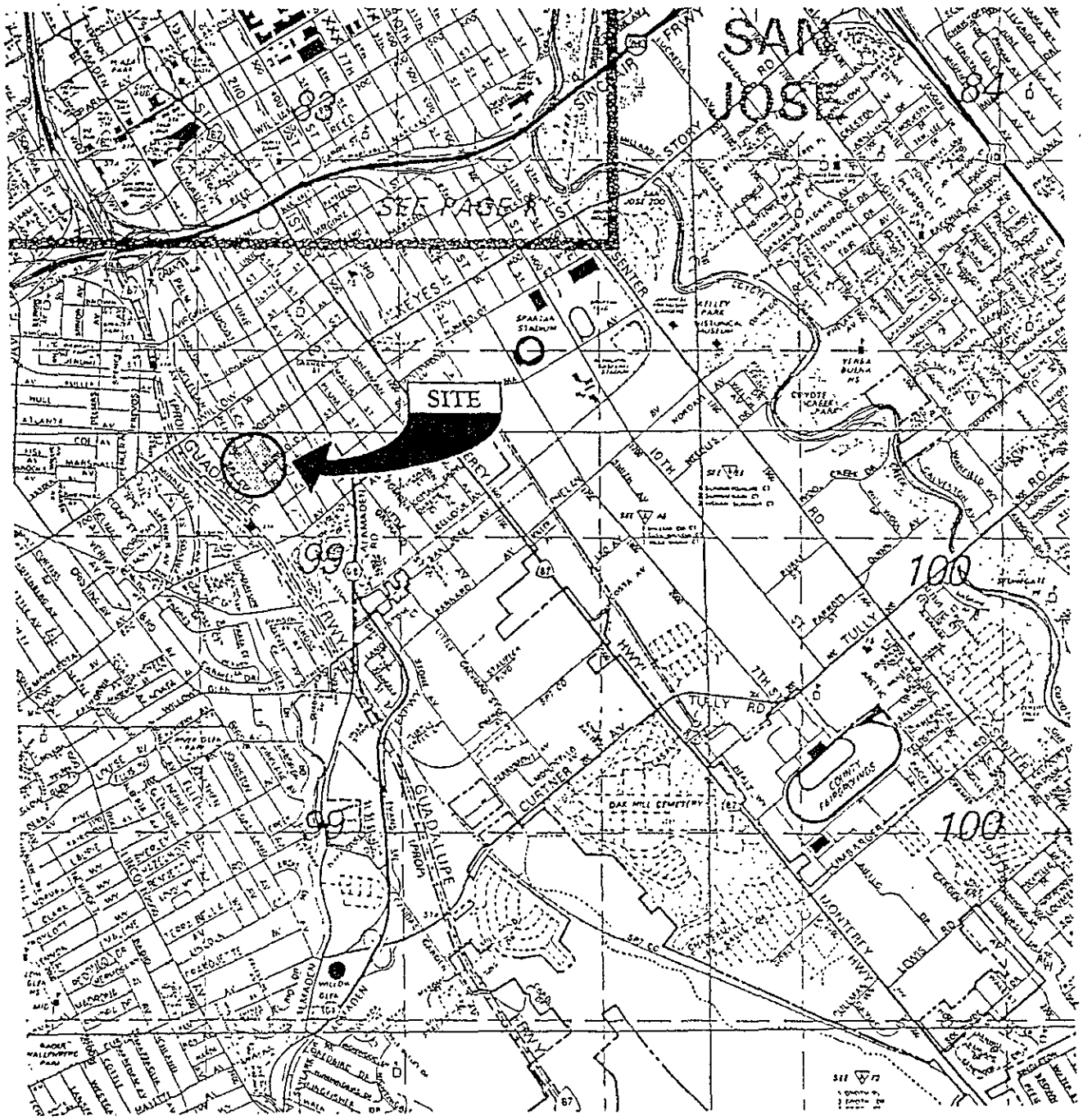
Regional Board Staff Name: Kevin Graves	Title: Associate Water Resources Control Engineer
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB.
Signature: [illegible]	Date: 9-17-97

Attachments:
1. Site Vicinity Map
2. Site Plan
3. Groundwater Analytical Results
4. Soil Analytical Results

RE: Santa Clara Valley Trans. Authority
- Tamien Station
1173 Lick Avenue, San Jose

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

Post-it® Fax Note 7671	Date 9-17-97	# of pages ▶ 1
To Adele Shepard	From Kevin Graves	
Co./Dept. SCVWD	Co. RWQCB	
Phone #	Phone # (510) 286-0435	
Fax # 408-997-8769	Fax #	



"Reproduced with permission granted by THOMAS BROS. MAPS."

113-11I, 3/15 BPB*EB

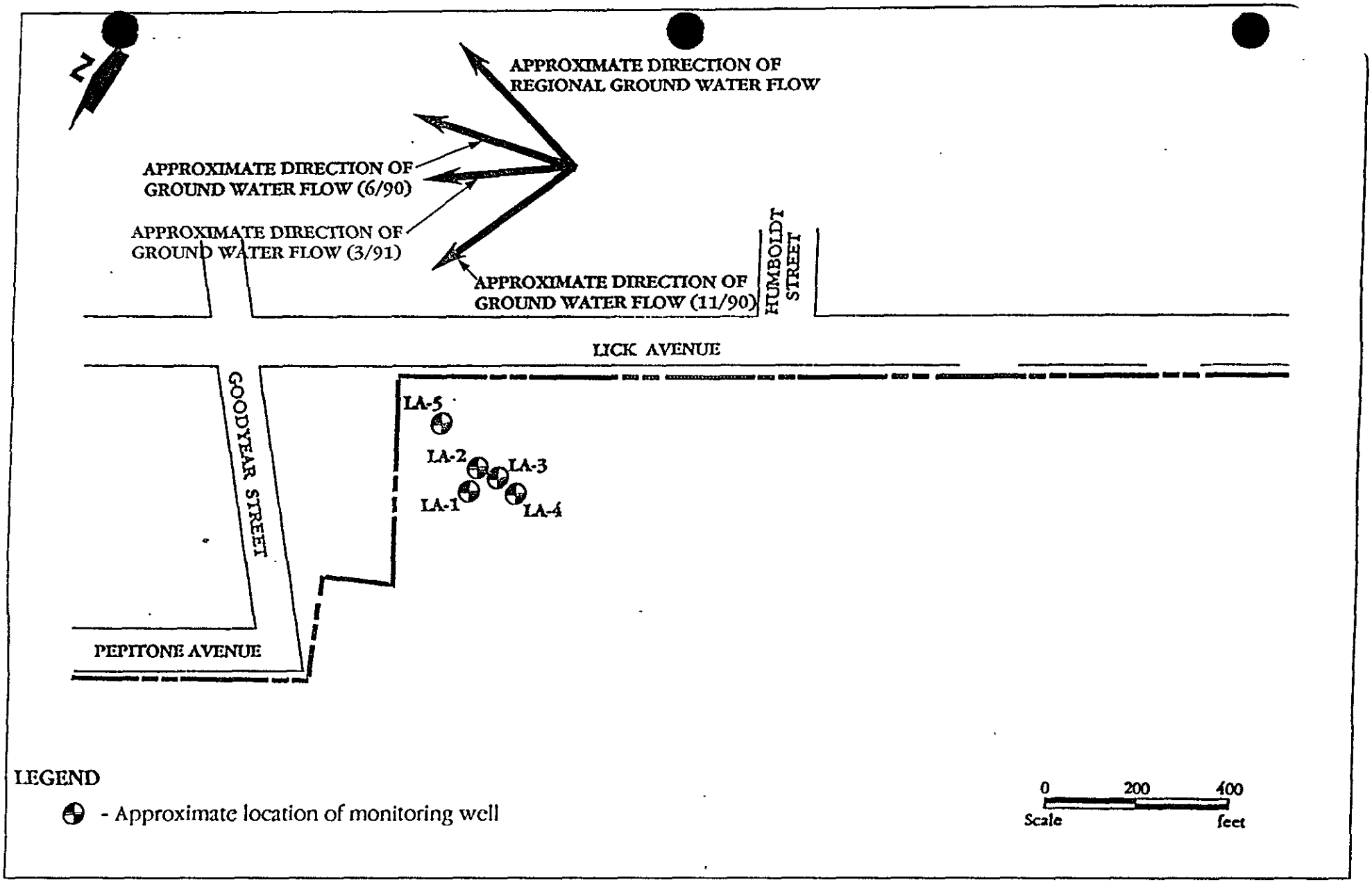
VICINITY MAP

LICK AVENUE
San Jose, California

ATTACHMENT 1

LOVNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 1
113-11H, June 1994



113-11A,12/11 PML:JC

SITE PLAN

LICK AVENUE QUARTERLY SAMPLING
San Jose, California

J.V. LOWNEY & ASSOCIATES
ENVIRONMENTAL & GEOTECHNICAL CONSULTANTS

FIGURE 2
113-11B, March 1991

ATTACHMENT 2

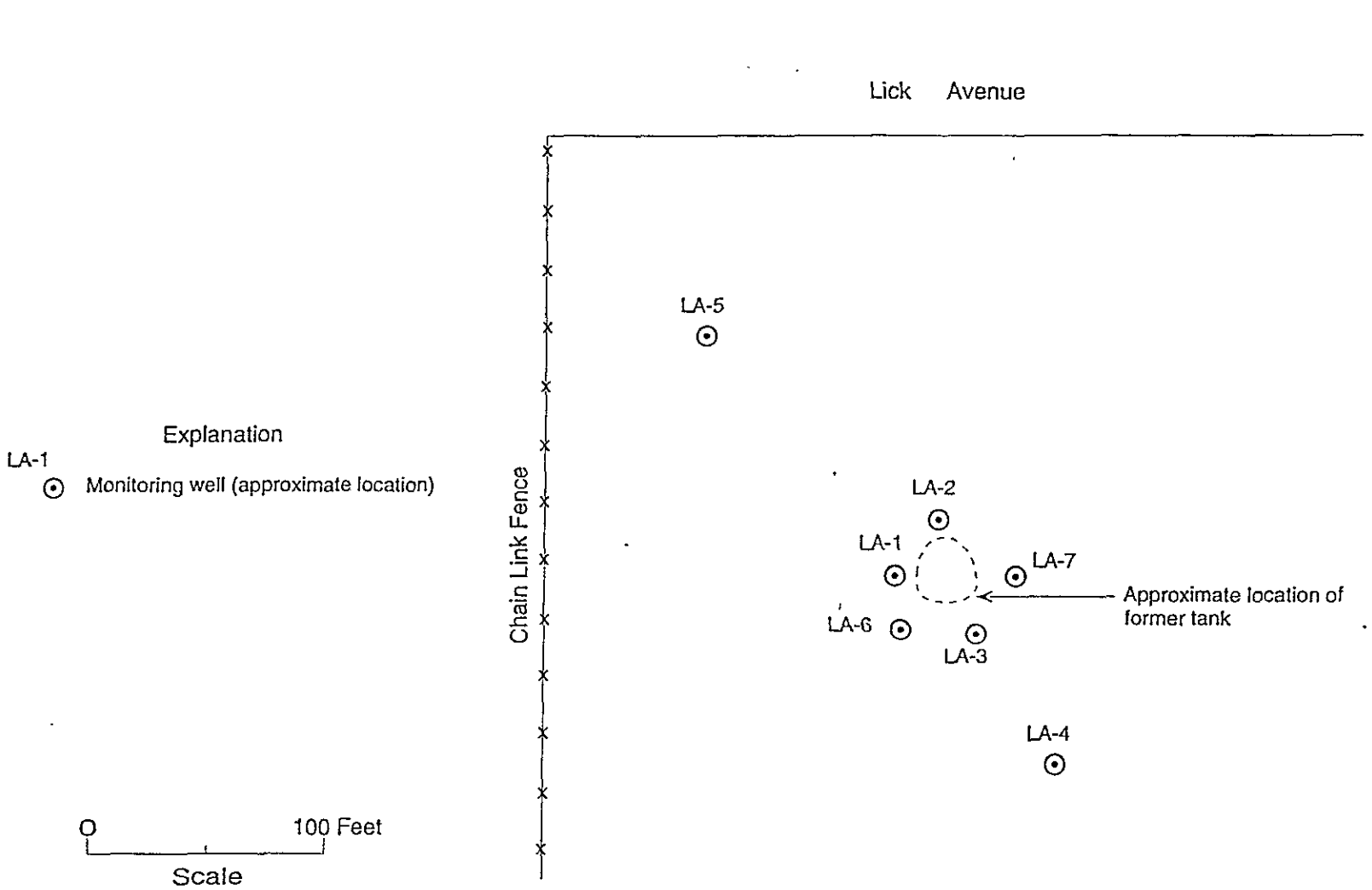


FIGURE 1: SITE MAP - PROJECT 1072B
Tamien Station Site at Lick Avenue, San Jose, California

le 2

Laboratory Analyses Results of Groundwater Samples, Tamien Station Site

(in micrograms per liter, µg/L/parts per billion, ppb)

Well	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TPH as Gasoline
LA-1	6/11/90	2.7	2.2	0.32	0.81	NA	ND (<30)
	11/20/90	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	3/8/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	7/5/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	9/25/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	12/18/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	9/10/93	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	2/17/94	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	11/16/94	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	2/26/95	0.9	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	5/12/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	8/7/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	11/17/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	2/26/96	0.91	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)[1]
	5/6/96	1.5	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	8/14/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<5.0)	ND (<50)
LA-2	6/11/90	39	26	4.2	14	NA	220
	11/20/90	5.4	0.81	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	3/8/91	4.3	1.1	ND (<0.3)	0.35	NA	ND (<30)
	3/8/91*	6.6	1.7	0.33	0.51	NA	38
	7/5/91	58	6.1	5.2	2.6	NA	300
	7/5/91*	56	6.3	5.3	3	NA	290
	9/25/91	1.6	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	16
	9/25/91*	2	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	14
	12/18/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	12/18/91*	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)

ATTACHMENT 3

Table 2

Laboratory Analyses Results of Groundwater Samples, Tamien Station Site

(in micrograms per liter, µg/L/parts per billion, ppb)

Well	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TPH as Gasoline
	4/1/92	230	140	41	87	NA	2,400
	4/1/92*	220	140	39	82	NA	2,200
	6/26/92	130	75	36	58	NA	980
	6/26/92*	3.5	3.6	ND (<0.5)	45	NA	300
	8/17/92	46	13	10	9.4	NA	220
	8/17/92*	36	10	8.2	7.6	NA	200
	12/18/92	28	19	5.2	9.2	NA	150
	12/18/92*	21	14	4	7.4	NA	86
	3/24/93	770	110	270	230	NA	3,900
	3/24/93*	790	110	280	230	NA	4,000
	9/10/93	31	15	10	11	NA	320
	12/1/93	3.4	ND (<0.5)	ND (<0.5)	1.4	NA	130
	12/1/93*	5.7	ND (<0.5)	ND (<0.5)	1.3	NA	120
	2/17/94	0.81	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	5/20/94	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	11/16/94	7.6	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	81
	2/26/95	1,000	68	400	600	NA	7,900
	5/12/95	91	3.6	82	3.9	NA	1,400
	8/7/95	0.7	0.8	0.9	0.9	NA	310
	11/16/95	0.9	0.7	0.5	ND (<0.5)	NA	160
	2/26/96	180	ND (<0.5)	40	410	NA	3,000[1]
	5/6/96	28	1	24	22	NA	750
	8/14/96	3.6	0.57	2.7	3.3	ND (<5.0)	260
	12/16/96	20	0.74	20	19	ND (<5.0)	410
	2/19/97	**21**	**1**	**18**	**9.7**	**ND (<5.0)**	**480**

Table 2

Laboratory Analyses Results of Groundwater Samples, Tamien Station Site

(in micrograms per liter, µg/L/parts per billion, ppb)

Well	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TPH as Gasoline
LA-3	6/11/90	1.1	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	44
	11/20/90	0.7	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	3/8/91	1.5	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	35
	7/5/91	0.84	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	99**
	9/25/91	1.3	ND (<0.3)	ND (<0.3)	0.39	NA	31
	12/18/91	1.9	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	62
	4/1/92	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	270
	6/26/92	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	6/26/92*	3	0.6	ND (<0.5)	ND (<0.5)	NA	100
	8/17/92	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	54
	12/18/92	4.3	3.7	4	10	NA	97
	3/24/93	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	9/10/93	1.6	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	120
	12/1/93	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	5/20/94	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	11/16/94	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	2/26/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	80
	5/12/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	8/7/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	11/16/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	2/26/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)[1]
	5/6/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	55
	8/14/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<5.0)	ND (<50)
	12/16/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<5.0)	ND (<50)
	2/19/97	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<5.0)	ND (<50)

Table 2

Laboratory Analyses Results of Groundwater Samples, Tamien Station Site

(in micrograms per liter, µg/L/parts per billion, ppb)

Well	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TPH as Gasoline
LA-4	7/30/90	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	11/20/90	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	3/8/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	7/5/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	45
	9/25/91	ND (<0.3)	0.91	ND (<0.3)	1.6	NA	110
	12/18/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	4/1/92	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	6/26/92	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	8/17/92	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	9/10/93	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
LA-5	7/30/90	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	11/20/90	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	3/8/91	ND (<0.3)	0.44	ND (<0.3)	0.39	NA	ND (<30)
	7/5/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	9/25/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	12/18/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	9/10/93	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	9/10/93*	ND (<0.5)	ND (<0.5)	ND (<0.5)	0.54	NA	51

Table 2

Laboratory Analyses Results of Groundwater Samples, Tamien Station Site

(in micrograms per liter, µg/L/parts per billion, ppb)

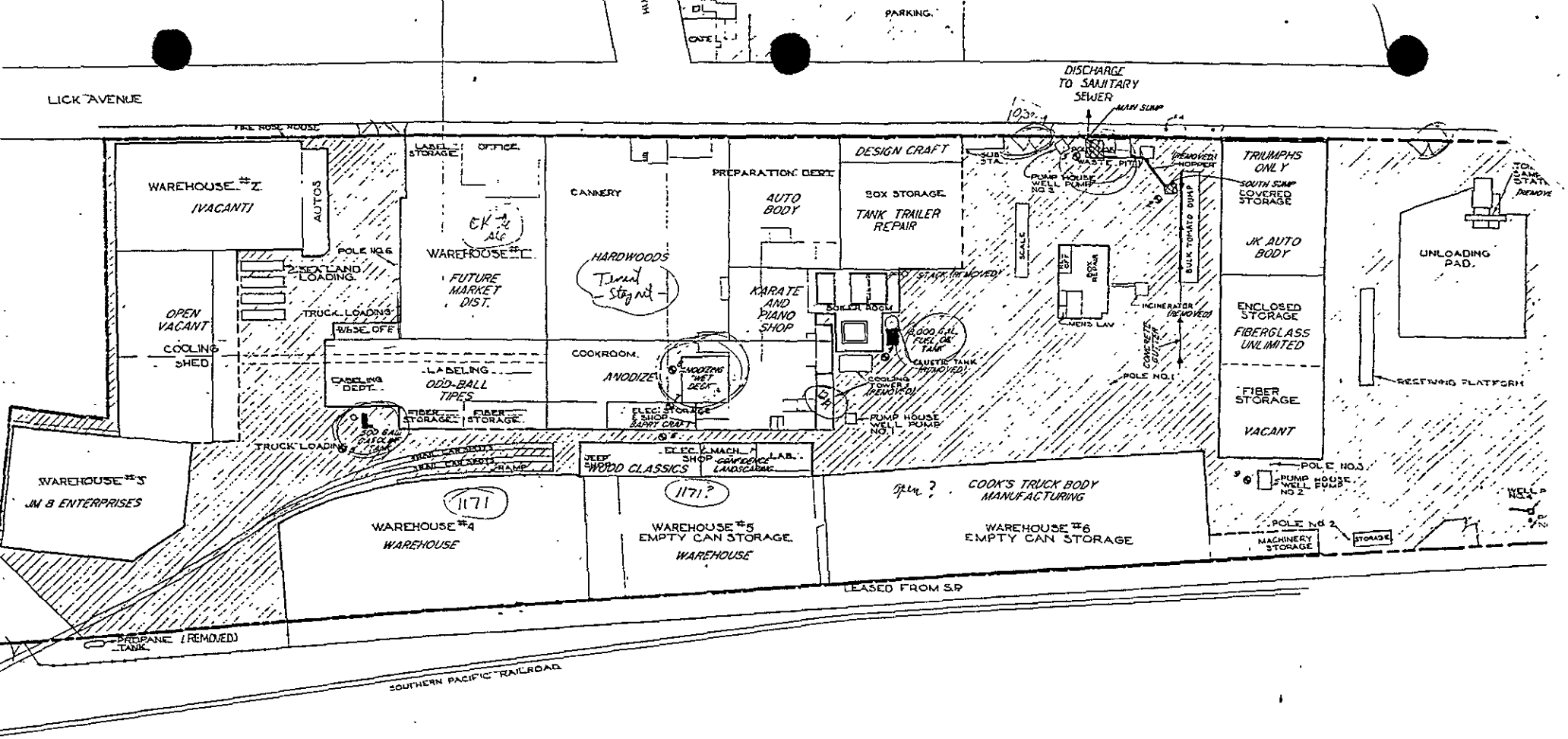
Well	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TPH as Gasoline
LA-6	9/23/94	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<50)
	11/16/94	2.8	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	2/26/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	5/12/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	8/7/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	0.8	NA	ND (<50)
	11/17/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	2/26/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)[1]
	5/6/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	8/14/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<5.0)	ND (<50)
	12/16/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<5.0)	ND (<50)
	2/19/97	**ND (<0.5)**	**ND (<0.5)**	**ND (<0.5)**	**ND (<0.5)**	**ND (<5.0)**	**ND (<50)**
LA-7	9/23/94	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<50)
	11/16/94	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	2/26/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	5/12/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	8/7/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	11/17/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	2/26/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)[1]
	5/6/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	8/14/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<5.0)	ND (<50)

Table 2

Laboratory Analyses Results of Groundwater Samples, Tamien Station Site

(in micrograms per liter, µg/L/parts per billion, ppb)

TPH = Total petroleum hydrocarbons
ND (<50) = Not detected at or above the reported laboratory detection limit
NA = Not analyzed
MTBE = Methyl-tertiary-butyl-ether
* = Split sample
** = Lowney Associates reported possible non-fuel TPH compound
(1) = Analytical results for TPH as diesel (TPHd) were as follows: TPHd = ND (ND = <50 ug/L) for Wells LA-2, LA-3 and LA-7; 95 ug/L TPHd for LA-1; and 69 ug/L for LA-6. Hydrocarbons in the diesel range do not match the laboratory diesel standard, an indication of the presence of unknown hydrocarbons or weathered/biodegraded hydrocarbons.
1990-1994 data: Lowney Associates Report, "Fourth Quarter 1994 Groundwater Monitoring Report," 12/12/1994.
1995 data: Groundworks Environmental, Inc. Report SC2505, "Fourth Quarter 1995 Groundwater Monitoring Report," 01/26/1996.



LEGEND

- EXPLORATION DRILL HOLE
- BURIED FUEL TANK
- DRAINAGE SUMP
- YARD AREA

NOTES

VERTICAL LETTERING DENOTES PREVIOUS BUILDING & AREA USAGE BY CALIFORNIA CANNERS & GROWERS.

SLANT LETTERING DENOTES CURRENT BUILDING & AREA USAGE BY TENANTS.

BASE MAP: CALIFORNIA CANNERS / PLANT NO 2 BUILDING & PRO DATED 9-14-66 REVISED 6-6-

0 60 100
SCALE IN FEET

DATE MAY 6, 1987 DWN BY DPO CHKD E. APPR DFS

REVISIONS

NO	DATE	DWN	CHKD	APPR

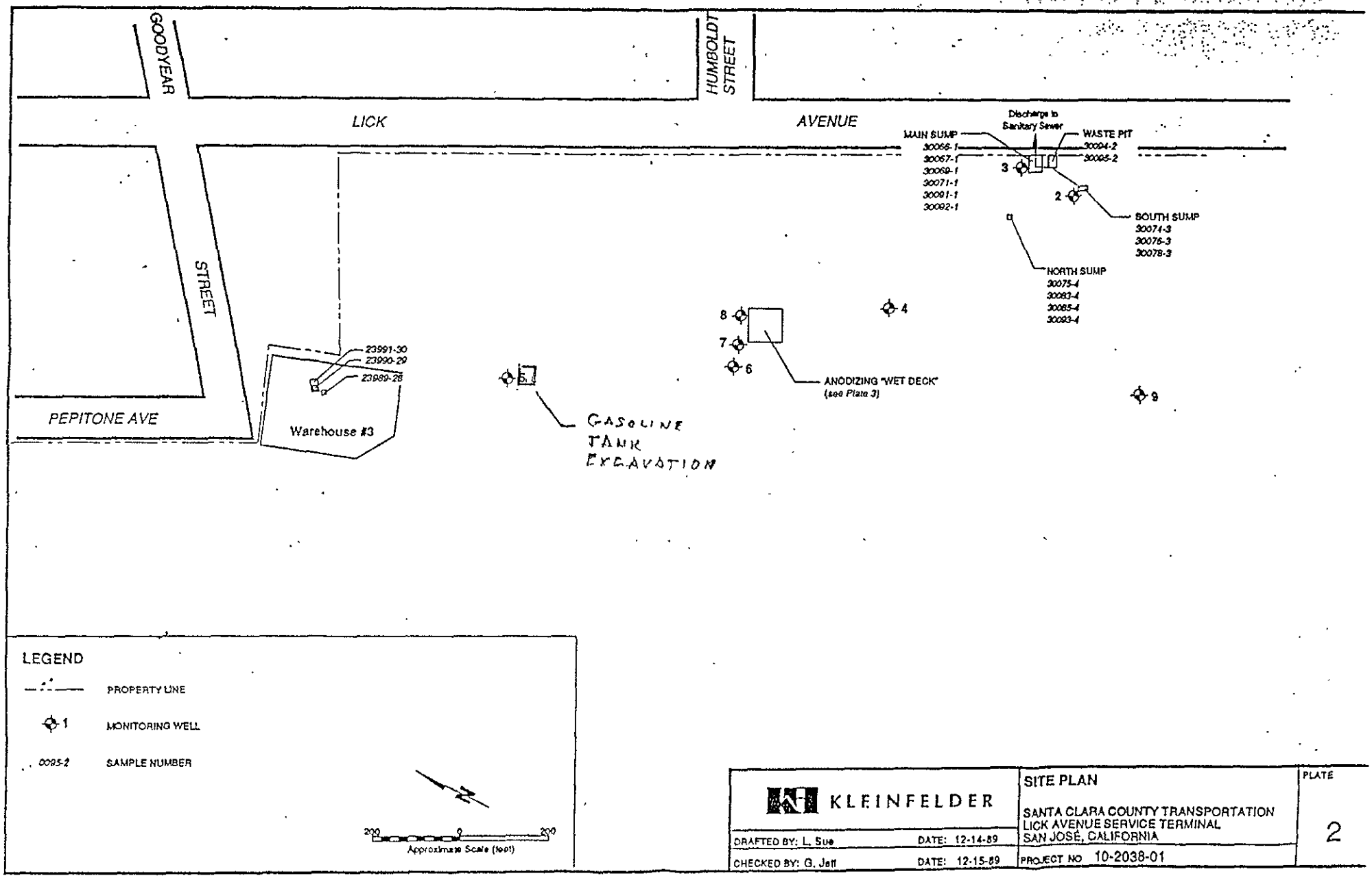
TERRATECH

SITE PLAN
PROPOSED ALMA TERR
SAN JOSE, CALIFORN

ATTACHMENT 4

Lick-Alma Site UFT Analyses

Date	Sample #	Material	Location	Depth	Analysis	Method	Quantity	MDL
12/29/89	71254-2	Soil	Bottom-center	6'	Oil/Grease	3550	425 mg/kg	20 mg/kg
					THC(g)	503E	20 mg/kg	-
					Benzene	8020	6.9 mg/kg	0.03 mg/kg
					Toluene	8020	40 mg/kg	0.03 mg/kg
					Ethylbenzene	8020	15 mg/kg	0.03 mg/kg
					Xylene	8020	81 mg/kg	0.03 mg/kg
					Methylene Chloride	8010	<0.03 mg/k	0.03 mg/kg
					1,1-dichloroethane	8010	<0.03 mg/k	0.03 mg/kg
					1,1-dichloroethene	8010	<0.03 mg/k	0.03 mg/kg
					Trans-1,2-dichloroethene	8010	<0.03 mg/k	0.03 mg/kg
					Chloroform	8010	<0.03 mg/k	0.03 mg/kg
					1,2-dichloroethane	8010	0.11 mg/kg	0.03 mg/kg
					1,1,1-trichloroethane	8010	<0.03 mg/k	0.03 mg/kg
					Carbon Tetrachloride	8010	<0.03 mg/k	0.03 mg/kg
					Bromo-dichloromethane	8010	<0.03 mg/k	0.03 mg/kg
					1,2-dichloropropene	8010	<0.03 mg/k	0.03 mg/kg
					Trichloroethene	8010	<0.03 mg/k	0.03 mg/kg
					Dibromo-chloromethane	8010	<0.03 mg/k	0.03 mg/kg
					1,1,2-trichloroethane	8010	<0.03 mg/k	0.03 mg/kg
					Trans-1,3-dichloropropen	8010	<0.03 mg/k	0.03 mg/kg
					2-chloro-ethyl vinyl ether	8010	<0.03 mg/k	0.03 mg/kg
					Bromoform	8010	<0.03 mg/k	0.03 mg/kg
					Tetrachloroethane	8010	<0.03 mg/k	0.03 mg/kg
					1,1,2,2-tetrachloroethane	8010	<0.03 mg/k	0.03 mg/kg
					Chlorobenzene	8010	<0.03 mg/k	0.03 mg/kg
					1,3-dichlorobenzene	8010	<0.03 mg/k	0.03 mg/kg
					1,2-dichlorobenzene	8010	<0.03 mg/k	0.03 mg/kg
					1,4-dichlorobenzene	8010	<0.03 mg/k	0.03 mg/kg
					Dichloro-difluoromethane	8010	<0.03 mg/k	0.03 mg/kg
					Trichloro-fluoromethane	8010	<0.03 mg/k	0.03 mg/kg
					Freon 113	8010	<0.03 mg/k	0.03 mg/kg
01/09/90	71269-1	Soil	West side	10'	THC(d)	LUFT	<10 mg/kg	10 mg/kg
					THC(g)	LUFT	210 mg/kg	20 mg/kg
					Benzene	8020	ND<0.03 m	0.03 mg/kg
					Toluene	8020	0.12 mg/kg	0.03 mg/kg
					Ethylbenzene	8020	0.11 mg/kg	0.03 mg/kg
					Xylene	8020	8 mg/kg	0.03 mg/kg
01/09/90	71269-2	Soil	East side	10'	THC(d)	LUFT	<10 mg/kg	10 mg/kg
					THC(g)	LUFT	320 mg/kg	10 mg/kg
					Benzene	8020	3.7 mg/kg	0.03 mg/kg
					Toluene	8020	14 mg/kg	0.03 mg/kg
					Ethylbenzene	8020	7.6 mg/kg	0.03 mg/kg
					Xylene	8020	43 mg/kg	0.03 mg/kg
01/26/90	71310-2	Soil	Bottom-north	14'	THC(d)	LUFT	<10 mg/kg	10 mg/kg
					THC(g)	LUFT	420 mg/kg	100 mg/kg
01/26/90	71310-3	Soil	Bottom-south	14'	THC(d)	LUFT	<10 mg/kg	10 mg/kg
					THC(g)	LUFT	<10 mg/kg	10 mg/kg
02/09/90	71346-1	Soil	Bottom-north	18'	THC(d)	LUFT	ND<10 mg/	10 mg/kg
					THC(g)	LUFT	ND<10 mg/	10 mg/kg
02/09/90	71346-2	Soil	Bottom-south	18'	THC(d)	LUFT	ND<10 mg/	10 mg/kg
					THC(g)	LUFT	ND<10 mg/	10 mg/kg
02/09/90	71346-3	Water	First 1300 gal.		THC(d)	LUFT	0.5 mg/l	<0.5 mg/l
					THC(g)	LUFT	45 mg/l	0.01 mg/l
02/09/90	71346-4	Water	Last 550 gal.		THC(d)	LUFT	<0.5 mg/l	<0.5 mg/l
					THC(g)	LUFT	4.8 mg/l	0.01 mg/l
03/09/90	71393-1	Soil	Remediation Site # 1		THC(d)	LUFT	ND<10 mg/	10 mg/kg
					THC(g)	LUFT	ND<10 mg/	10 mg/kg
03/09/90	71393-2	Soil	Remediation Site # 2		THC(d)	LUFT	ND<10 mg/	10 mg/kg
					THC(g)	LUFT	ND<10 mg/	10 mg/kg



KLEINFELDER

DRAFTED BY: L. Sue DATE: 12-14-89

CHECKED BY: G. Jeff DATE: 12-15-89

SITE PLAN

SANTA CLARA COUNTY TRANSPORTATION
LICK AVENUE SERVICE TERMINAL
SAN JOSÉ, CALIFORNIA

PROJECT NO. 10-2038-01

PLATE 2

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 12/29/89
Reported: 01/02/90
Job No #: 71254

Attn: Don Luka
Universal Engineering
P.O. Box 1306
Benicia, CA. 94510

Project: Ferma Corporation - Mountain View, CA.
Matrix: Soil

Aromatic Volatile Hydrocarbon Analysis:
EPA Method 8020
mg/kg

Lab ID	Client ID	Benzene	Toluene	MDL
71254-1	Bunker C	ND<0.03	ND<0.03	0.03
71254-2	Gasoline Tank	6.9	40	0.03

Lab ID	Client ID	Ethylbenzene	Xylene	MDL
71254-1	Bunker C	ND<0.03	ND<0.03	0.03
71254-2	Gasoline Tank	15	81	0.03

QA/QC: Spike Recovery for Benzene: 106%
Spike Recovery for Toluene: 99%
Spike Recovery for O-Xylene: 97%

MDL: Method detection limit; Compound below this level would not be detected.

Surinder Sidhu (for)
Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94805 PHONE (415) 222-3002 FAX (415) 222-1251

2-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 12/29/89
Reported: 01/03/89
Job No #: 71254

Attn: Don Luke
Universal Engineering
P.O. Box 1306
Benicia, CA. 94510

Project: Ferma Corporation - Mountain View, CA.
Matrix: Soil

Oil & Grease Analysis
mg/kg

Lab ID	Client ID	Method 3500	MDL	Method 503E Hydrocarbon
71254-1	Bunker C Tank	20	20	10
71254-2	Gasoline Tank	425	20	20

MDL: Method detection limit: Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

Universal Engineering
Job No. 71254

Lab ID	Client ID	Bromo-dichloro-methane	1,2-dichloro-propene	Tri-Chloro-ethene	Dibromo-chloro-methane	MDL
71254-1	Bunker C	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71254-2	Gas Tank	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	1,1,2-Trichloro-ethane	Trans-1,3 dichloro-propene	2-chloro-ethyl vinyl ether	Bromo-form	MDL
71254-1	Bunker C	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71254-2	Gas Tank	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	Tetra-chloro-ethane	1,1,2,2 Tetra-chloro-ethane	Chloro-benzene	1,3 Dichloro-benzene	MDL
71254-1	Bunker C	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71254-2	Gas Tank	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	1,2-Dichloro-benzene	1,4-Dichloro-benzene	Dichloro-difluoro-methane	Trichloro-fluoro-methane	MDL
71254-1	Bunker C	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71254-2	Gas Tank	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	Freon 113	MDL
71254-1	Bunker C	ND<0.03	0.03
71254-2	Gas Tank	ND<0.03	0.03

TABLE 1
EXPLORATION AND TESTING SCHEDULE
(proposed schedule shown in parenthesis)

DRILL HOLE #	LOCATION	DEPTH (feet)	HOLE TYPE	SOIL ANALYSIS #	SOIL ANALYSIS TYPE	WATER ANALYSIS
1	Upgradient	29.5	TMW	1	M,pH,C	M,V
(7)	(same)	(25)	(same)	(1)	(M)	(Hc,M,S)
2	South sump	29.5	TMW	1	M,V,O&G	M,V
(1)	(cooling tower)	(25)	(same)	(1)	(M)	(M)
3	Main sump	29.5	TMW	1	M,V,O&G	M,V,O&G,C
(5)	(same)	(25)	(same)	(1)	(same)	(Hc,M,S)
4	Fuel oil tank	29.5	TMW	2	Hc	Hc
(3)	(same)	(25)	(same)	(2)	(same)	(same)
5	Gasoline tank	29.5	TMW	2	Hc, Lead	Hc, Lead
(2)	(same)	(25)	(same)	(2)	(Hc)	(Hc)
6,7,8	Anodizing plant	1.5-3.5	Soil	3	M,pH,C	—
(4)	(same, but 1 hole)	(5-10)	(same)	(1)	(M)	
9	Paint shop yard	6	Soil	1	M*,pH,V	—
(6)	(same)	(5-10)	(same)	(1)	(V)	

KEY:
- TMW - Temporary monitoring well
- Hc - Hydrocarbons (including BTX)
- C - Cyanide
- O&G - Oil and grease
- M - Metals (M* - partial metals)
- S - Solvents
- V - Volatile organics (includes benzene and toulene)

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYSIS RESULTS
(all values are in parts per million - ppm)

EXPLORATION DRILL HOLE
(depth)

CONTAMINANT	DH-1 (2')	DH-2 (10')	DH-3 (15')	DH-4 (2')	DH-4 (15')	DH-5 (2')	DH-5 (15')	DH-6 (2.5')	DH-7 (6-12")	DH-8 (6-24")	DH-9 (5')	TTLC * Limit
METALS												
Antimony	15	18	20	--	--	--	--	16	19	15	--	500
Arsenic	15	14	21	--	--	--	--	13	8.9	15	--	500
Barium	220	--	--	--	--	--	--	270	320	250	--	10,000
Beryllium	0.30	0.20	0.40	--	--	--	--	0.30	0.30	0.10	--	75
Cadmium	1.0	0.90	1.2	--	--	--	--	1.2	1.3	1.6	1.3	100
Chromium (VI)	< 0.05	--	--	--	--	--	--	< 0.05	< 0.05	< 0.05	--	500
Chromium (III)	140	140	110	--	--	--	--	110	110	30	120	2,500
Cobalt	27	--	--	--	--	--	--	22	21	13	--	8,000
Copper	38	47	38	--	--	--	--	40	42	120	--	2,500
Fluoride	1.1	--	--	--	--	--	--	1.6	< 1	< 1	--	18,000
Lead	9.0	4.0	7.7	--	--	9.0	8.7	58	16	350 **	4.5	1,000
Mercury	2.4	0.20	0.13	--	--	--	--	2.9	0.20	0.30	--	20
Molybdenum	3.0	--	--	--	--	--	--	2.0	2.0	3.0	--	3,500
Nickel	220	150	190	--	--	--	--	180	170	51	--	2,000
Selenium	2.5	1.9	3.5	--	--	--	--	2.6	2.6	2.6	--	100
Silver	1.2	--	--	--	--	--	--	1.3	1.5	1.1	--	500
Thallium	9.5	1.1	1.7	--	--	--	--	8.7	10	6.5	--	700
Vanadium	88	8.3	11	--	--	--	--	75	78	76	--	2,400
Zinc	70	67	74	--	--	--	--	120	120	400	53	5,000
HYDROCARBONS												
Waste Oil	--	< 30	< 30	--	--	--	--	--	--	--	--	--
Total as Gasoline	--	--	--	--	--	2.3	22	--	--	--	--	--
Total as Diesel	--	--	--	< 1.0	< 1.0	--	--	--	--	--	--	--
Benzene	--	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	--	--	--	< 0.05	--
Toulene	--	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	--	--	--	< 0.05	--
Xylenes	--	--	--	< 0.1	< 0.1	< 0.1	0.68	--	--	--	--	--
OTHER												
Volatiles ***	N.D.	N.D.	N.D.	--	--	--	--	--	--	--	N.D.	--
Cyanide	< 0.2	--	--	--	--	--	--	< 0.2	< 0.2	< 0.2	--	--
pH	8.6	--	--	--	--	--	--	8.8	9.3	9.3	9.3	--

NOTES:

* - Total Threshold Limit Concentration:
California Assessment Manual, classification of hazardous wastes

** - Soluble Threshold Limit Concentration (STLC) for this sample was 12 mg/l
The hazardous STLC for lead is 5 mg/l

*** - EPA Priority Pollutant List: Methods 8010 & 8020, N.D. = Not Detected

TABLE 3
SUMMARY OF GROUND WATER ANALYSIS RESULTS
(all values are in mg/l)

EXPLORATION DRILL HOLE

CONTAMINANT	DH-1	DH-2	DH-3	DH-4	DH-5	CALIFORNIA ACTION LEVELS	U.S. DRINKING WATER STANDARDS
METALS							
Antimony	< 0.5	< 0.5	< 0.5	--	--	--	--
Arsenic	< 0.01	< 0.01	< 0.01	--	--	--	0.05
Beryllium	< 0.01	< 0.01	< 0.01	--	--	--	--
Cadmium	< 0.01	< 0.01	< 0.01	--	--	--	0.01
Chromium	< 0.005	0.045	< 0.005	--	0.013	--	0.05
Copper	< 0.1	0.10	< 0.1	--	--	--	1.0 *
Lead	< 0.005	0.020	< 0.005	--	--	--	0.05
Mercury	< 0.001	< 0.001	< 0.001	--	--	--	0.002
Nickel	0.07	0.17	0.10	--	--	--	--
Selenium	< 0.01	< 0.01	< 0.01	--	--	--	0.01
Silver	< 0.02	< 0.02	< 0.02	--	--	--	0.05
Thallium	< 0.5	< 0.5	< 0.5	--	--	--	--
Zinc	< 0.05	0.13	0.06	--	--	--	5.0 *
HYDROCARBONS							
Total as Gasoline	--	--	--	--	< 0.050	--	--
Total as Diesel	--	--	--	< 1.0	--	--	--
Benzene	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0007	--
Toulene	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.100	--
Xylenes	--	--	--	< 0.0005	< 0.0005	0.620	--
OTHER							
Volatiles **	N.D.	N.D.	N.D.	--	--	(various)	--
Cyanide	--	--	< 0.02	--	--	--	--
Oil & Grease	--	--	< 5	--	--	--	--

NOTES:

* - Secondary standard
** - EPA Priority Pollutant List: Methods 601 & 602
N.D. = Not Detected

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

Phase I Environmental Site Assessment

1193 Lick Avenue

San Jose, California

This report has been prepared for:

Castle Group California, Inc.

424 Kent Drive, Mountain View, California 94043

October 10, 2000

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PHASE I ENVIRONMENTAL SITE ASSESSMENT

1193 LICK AVENUE

SAN JOSE, CALIFORNIA

1.0 INTRODUCTION

1.1 Purpose

This Phase I environmental site assessment was performed for Castle Group California, Inc., who we understand is considering purchasing the Tamien Station "Excess Property", located at 1193 Lick Avenue, for residential development.

The purpose of this study was to document environmental concerns at the site related to current and historic chemical use and to evaluate the potential for a release of hazardous materials from on- or off-site sources that could significantly impact the site's soil and/or ground water quality.

1.2 Scope of Work

As requested, the scope of work for this study was performed in general accordance with the American Society for Testing and Materials (ASTM) Designation E 1527-97 as outlined in our agreement dated August 24, 2000. The scope of work included the following tasks.

- Reconnaissance of the site and drive-by survey of adjacent properties for readily observable indications of current or historic activities that have or could significantly impact the site.
- Review of readily available topographic maps and reports to evaluate local hydrogeologic conditions including anticipated ground water depth and flow direction.
- Review of readily available documents, maps, and aerial photographs, and interviews with knowledgeable persons to evaluate past land uses.
- Review of a regulatory agency database report to evaluate the potential impact to the site from reported contamination incidents at nearby facilities.
- Review of available regulatory agency files to obtain information about the use and storage of hazardous materials at the site.

Our scope of services did not include sampling or analysis of on-site building materials, air, soil, or ground water. The limitations of this Phase I environmental

assessment are presented in Section 6.0; the terms and conditions of our agreement are presented in Appendix A.

2.0 SITE RECONNAISSANCE

2.1 Site Location and Ownership

The approximately 11-acre site, shown in Figures 1 and 2, is located at 1193 Lick Avenue in San Jose, California and is denoted as assessor's parcel number (APN) 434-13-032. The site is located in a residential, commercial, and light industrial area and is bounded by residential and light industrial properties to the north and east, VTA Tamien Station to the west, and light industrial and commercial properties to the south. The site is owned by the Santa Clara Valley Transportation Authority (VTA).

2.2 Topographic Features and Hydrogeology

Based on U.S. Geologic Survey (USGS) topographic maps, the site's elevation is approximately 105 feet above mean sea level. Topography in the vicinity of the site slopes gently to the southwest toward the Guadalupe River. Based on past site-specific ground water data, the shallow water-bearing zone is likely encountered at depths of 15 to 25 feet below grade. Ground water beneath the site likely flows west towards the Guadalupe River.

2.3 Site Visit

Our representative, staff geologist Jane Fisher, visited the site on September 8, 2000 and was accompanied, on a part-time basis, by Ms. Mary Ostrowski, director of the Tamien Childcare Center. At the time of our site visit, the subject property was developed with an approximately 23,000-square-foot building and court yard, utilized primarily for the Tamien Childcare Center; an approximately 800-square-foot trailer, utilized primarily for the Provider-Training, Resource, and Activity Center (PTRAC); and driveways and a parking lot for the VTA Tamien Station. A large portion of the property was vacant at the time of our site visit (Figure 2). The current site tenants are listed in Table 1.

Table 1. Current Site Tenants

Address	Tenant	General Use
1193 Lick Avenue	Tamien Childcare Center	Children's Daycare
1193 Lick Avenue	PTRAC	Community-based Home Care Provider's Learning Center

The Tamien Childcare Center and PTRAC facilities are used for childcare and office space. No hazardous materials were reportedly used in either facility. Due to the

nature of the facilities, the hazardous materials observed during the site visit were small quantities (less than 1 gallon per container) of bleach, cleaners, and paint. These materials were observed in the Tamien Childcare Center in closed janitorial closets and closed elevated cabinets.

A Pacific Gas & Electric (PG&E) transformer (T-1581) was observed along the northern entrance to the VTA Tamien Station parking lot. The transformer appeared to be in good condition; no leaking was observed.

A large portion of the site appeared to be vacant (Figure 2). The vacant portion of the site contained disturbed soil containing construction debris. Small amounts of concrete, brick, and wood were observed in the topsoil. On the ground surface, small quantities of litter (paper and plastic) were observed. Two large steel bars and a tire also were observed on the vacant portion of the property.

Additional site features are listed in Table 2.

Table 2. Additional Site Features

Site Features					Comments
Heating/Ventilation/Air Conditioning System	☐	Natural Gas Fuel Oil	☒	Electrical	Tamien Childcare Center and PTRAC
Potable Water Supply	☒	Municipal	☐	On-Site Well	
Sewage Disposal System	☒	POTW	☐	On-Site Septic	
High Power Transmission Lines	☐	Present	☒	Not Observed	
Transformers	☒	Present	☐	Not Observed	PG & E T-1581

2.4 Site Vicinity Reconnaissance

To evaluate adjacent land use, we performed a drive-by survey. Our observations are presented in Table 3. Of the facilities listed in Table 3, all may use, handle, and/or store significant quantities of hazardous materials, except for the residential properties, Bowling Alley and restaurant, and VTA Tamien Station properties.

Table 3. Adjacent Properties

Land Use	Business Name and Address	Direction from Site
Commercial/Light Industrial	Sprig Electric Company 1303 Lick Avenue	Southeast
Commercial	Rock & Bowl (Alma Bowl) Food All Restaurant 355 West Alma	Southeast
Commercial/Light Industrial	C & O Painting 390 Floyd Street	East
Commercial/Light Industrial	Circus Ice Cream 1290 Lick Avenue	East
Commercial/Light Industrial	Barnes Brothers Construction, Inc. West Coast Marble & Granite 1194 Lick Avenue	East
Commercial/Light Industrial	Sourci Auto Sales Lick Avenue	Northeast
Commercial/Light Industrial	HCG Imports & Distributing Company 1045 Goodyear	Northwest
Residential	Lick Avenue	North
Commercial/Light Industrial	VTA Tamien Station	Southwest

2.5 Interviews

During our study, we contacted Mr. Ray Hybarger of VTA for general information regarding past and current site usage. Mr. Hybarger was asked to complete a site history questionnaire; however, the questionnaire was not returned at the time of our report. Mr. Hybarger verbally indicated that a portion of the site, primarily in the area of the current VTA parking lot, was the location of a 1,000-year-old Ohlone Native American village. The discovery was made during excavation activities associated with redevelopment of the site. Excavation activities were halted to allow for the removal of Native American remains and artifacts from the site by archaeologists. Mr. Hybarger also indicated that "hazardous materials" were left on-site by the previous owner and cleaned up by VTA.

3.0 HISTORICAL REVIEW

3.1 Photograph and Map Review

To evaluate the site history, we reviewed:

- Available aerial photographs (1948, 1960, 1963, 1965, 1974, and 1981) from the USGS Library in Menlo Park, California.
- Available USGS 15-minute and 7.5-minute topographic maps (1899, 1953, 1961, 1968, 1973, and 1980).

- Historic Sanborn fire insurance maps (1915, 1950, 1956, and 1966) were requested from Sanborn Mapping and Geographic Information Service (Sanborn GIS) in Pelham, New York. Copies of these maps are presented in Appendix B.

Our observations are summarized below.

1899: The 1899 topographic map of the area showed the site as being developed with two structures present.

1915: The 1915 Sanborn map revealed the presence of San Jose Cannery Company and associated buildings on-site. The building structures identified from the map included a canned goods warehouse, box storage yard, crate shed, boiler room, and large cannery building. A small portion of railroad tracks also was present.

1948: The 1948 aerial photographs of the site showed the presence of a few large commercial/industrial buildings and a small section of railroad tracks.

1950 to 1956: The Sanborn maps from 1950 and 1956 revealed the presence of San Jose Cannery Company and associated buildings on-site. The commercial/industrial structures identified from the map included all of the previously existing structures from 1915, four additional canned goods warehouses, and a small building (use unknown).

1966: The 1966 Sanborn map revealed the presence of California Canners and Growers and associated buildings on-site. The commercial/industrial structures identified from the map included all of the previously existing structures from 1956, three additional canned goods warehouses, a forklift pad, and a large building (use unknown). The small section of previously existing railroad tracks was absent from the property.

1960 to 1980: The site appeared to be developed with several large commercial/industrial buildings and warehouses. The surrounding land use appeared to be agricultural and residential.

3.2 Previous Environmental Reports

To further evaluate the site history, we reviewed and relied upon the information presented in the reports listed below that were obtained from the VTA and Lowney Associates.

- TERRATECH, INC. May 1987. *Report to Santa Clara County Transit District on the Alma Terminal Contamination Investigation.*

- J. V. Lowney & Associates. October 1990. *The Ground Water and Soil Quality Reconnaissance Investigation for Lick Avenue Multi-Modal Terminal Site, San Jose, California.*

- J. V. Lowney & Associates. November 1994. *The Ground Water and Soil Quality Reconnaissance Investigation for Lick Avenue Multi-Modal Terminal Site, San Jose, California.*

- Lowney Associates. 1990 to 1994. *Quarterly Groundwater Monitoring Reports, Lick Avenue Multi-Modal Terminal Site, San Jose, California.*

- Groundworks Environmental, Inc. and Lee Incorporated. 1995-1997. *Quarterly Groundwater Monitoring Reports, Lick Avenue Multi-Modal Terminal Site, San Jose, California.*

- Santa Clara Valley Water District. September 1997. *A Fuel Leak Site Closure Letter, Lick Avenue Multi-Modal Terminal Site, San Jose, California.*

TERRATECH, Inc. issued a report to Santa Clara County Transit District in May 1987 on the Alma Terminal Contamination Investigation. The focus of the report was the contamination investigation conducted at 1193 Lick Avenue. The locations of important site features at the time of their investigation are shown on Figure 3. The Santa Clara County Transit District was considering the purchase and development of the site into a multi-modal transit facility. The report provided information on the site history, soil and ground water quality, the existence of hazardous materials, and a cost estimate for cleanup.

At the time of the investigation, numerous tenants were leasing the property from the property owner through the Regency Monarch Development Corporation. The property was purchased by the property owner from the California Canners and Growers in September 1984. The current site uses at the time of the report included the following:

- Mechanical repair
- Auto body repair
- Truck painting
- Truck body manufacturing
- Fiberglass repair
- Wood working and machine shops
- Cannery and associated warehouses
- Truck trailer repair
- Forklift repair
- Piano repair
- Storage of landscaping supplies
- Anodizing
- Used tire storage
- Yard storage of vehicles and equipment
- General warehousing
- Production wells
- Cooling shed
- Scale

Two site walkovers conducted by TERRATECH revealed the usage and storage of degreasers, motor oil, lubricants, metallic anodizing liquids, paints, and small volumes of hydrocarbon fuels. Discharges of these liquids into the drainage system were noted, as well as, inadequate segregation and storage of hazardous materials on-site. Three sumps (north, south, and main) were identified on-site near the property boundary, adjacent to Lick Avenue, in the area currently occupied by PTRAC (Figures 2 and 3). The main sump was located in the area denoted as the "waste pit area." Overflow from these sumps reportedly flowed directly into the City of San Jose's sewer system.

Several structures were historically present on-site that were used during the occupancy by various tenants. Four gas-powered, steam boilers used in the canning process were identified on-site. An 18,000-gallon boiler fuel underground storage tank (UST) observed on-site was used for backup fuel for the boilers when gas service was interrupted. A 500-gallon gasoline UST was located on-site for fueling of cannery vehicles. Both USTs were formerly located in the area currently occupied by the vacant lot (Figures 2 and 3). The water supply for the former cannery operations was provided by four on-site supply wells that were approximately 500 to 550 feet in depth. Other structures historically located on-site included an incinerator located in the box repair building, a propane tank, detached storage sheds, and a caustic tank.

Ground water and soil samples were evaluated in the areas near the sumps and USTs. Soil samples also were collected in the former anodizing plant and former paint shop yard. Exploration and testing activities completed during the investigation are detailed in Table 4.

Table 4. Summary of Exploration and Testing Activities Completed by Terratech in 1987

Number of Exploratory Borings	Location	Depth of Boring (feet)	Soil Analysis	Water Analysis
1	Up-gradient from site	29½	Metals, pH, Cyanide	Metals, Volatile Organics
1	South Sump	29½	Metals, Volatile Organics, Oil & Grease	Metals, Volatile Organics
1	Main Sump	29½	Metals, Volatile Organics, Oil & Grease	Metals, Volatile Organics, Oil & Grease, Cyanide
1	18,000-gallon boiler fuel tank	29½	Total Petroleum Hydrocarbons as Gasoline and Diesel, Benzene, Toluene, Xylenes	Total Petroleum Hydrocarbons as Gasoline and Diesel, Benzene, Toluene, Xylenes

continued

Table 4. Summary of Exploration and Testing Activities Completed by Terratech in 1987
(continued)

Number of Exploratory Borings	Location	Depth of Boring (feet)	Soil Analysis	Water Analysis
1	500-gallon gasoline tank	29½	Total Petroleum Hydrocarbons as Gasoline and Diesel, Benzene, Toluene, Xylenes, Lead	Total Petroleum Hydrocarbons as Gasoline and Diesel, Benzene, Toluene, Xylenes, Lead
3	Anodizing Plant	1½ to 3½	Metals, pH, Cyanide	NA
1	Paint Shop Yard	6	Cadmium, Chromium, Lead, Zinc, pH, Volatile Organics	Northwest

The results of the investigation indicated that concentrations of arsenic and nickel for samples collected around the south and main sumps exceeded the EPA Region 9 Residential Preliminary Remediation Goals (PRGs) (Table 5). The concentrations of arsenic exceed natural background concentrations (less than 10 mg/kg) found in Santa Clara County. Soil samples collected in the Anodizing Plant contained concentrations of arsenic, nickel, and thallium that exceeded the residential PRGs. Soluble lead (12 mg/l), exceeding the California Soluble Threshold Limit Concentration (STLC) of 5 mg/l, also was found in the sump area.

Table 5. Summary of Analytical Results for Soil Samples Collected by Terratech in 1987 that Exceeded EPA Region 9 Residential Preliminary Remediation Goals (PRGs)

Number of Samples	Location	Depth of Sample (feet)	Matrix	Constituent of Concern	Concentration (ppm)	PRG (ppm)
1	Up-gradient of site	2	soil	Arsenic Nickel Thallium	15 220 9.5	0.39 150 6.3
1	South Sump	10	soil	Arsenic Nickel	14 150	0.39 150
1	Main Sump	15	soil	Arsenic Nickel	21 190	0.39 150
3	Anodizing Plant	0.5-2.5	soil	Arsenic* Lead* Nickel* Thallium*	15 350** 180 10	0.39 400 150 6.3

* Maximum concentration

** Additional analysis was conducted for the soluble lead concentration. The concentration, 12 mg/l, exceeded the California Soluble Threshold Limit Concentration (STLC) for lead (5 ppm).

Detectable levels of hydrocarbons (maximum concentration of 22 mg/kg) were found in the soil (depth unknown) surrounding the 500-gallon gasoline UST. Chromium, copper, and zinc were found in ground water samples collected near the south and main sumps at levels below the California Drinking Water Primary Maximum Contaminant Levels (MCLs) and Action Level for copper. Lead (0.020 mg/l) and nickel (0.17 mg/l) were found in ground water samples collected near the south sump at levels exceeding the MCL for nickel (0.1 mg/l) and Action Level for lead (0.015 mg/l).

The remedial actions recommended by TERRATECH, INC. included the following:

- Excavation, transportation, and disposal of 200 cubic yards of impacted soil from the Anodizing area
- Removal and disposal of the 500-gallon and 18,000-gallon USTs
- Excavation, aeration, and backfilling of 200 cubic yards of impacted soil from the area surrounding the 500-gallon and 18,000-gallon USTs
- Disposal of 500 gallons of sludge contained in two sumps
- Closure of four water supply wells, approximately 500-550 ft in depth
- Asbestos abatement- removal and disposal of four boilers and related piping

A Ground Water and Soil Quality Reconnaissance Investigation for Lick Avenue Multi-Modal Terminal Site, San Jose, California was conducted by J.V. Lowney & Associates in November 1990. Five ground water monitoring wells were installed and soil samples were collected around the former gasoline tank (Figure 2). Total petroleum hydrocarbons as gasoline (TPHg) (80 mg/kg), benzene (2.7 mg/kg), toluene (6.6 mg/kg), ethylbenzene (1.9 mg/kg), and total xylenes (10 mg/kg) (BTEX) were detected at low levels in soil samples. The maximum concentration of TPHg detected in ground water was 220 µg/l. BTEX compounds (maximum benzene concentration of 39 µg/l) were found in groundwater at concentrations exceeding California MCLs for drinking water. Levels of Priority Pollutant Metals also were detected in the ground water at concentrations below California MCLs for drinking water. Remediation was not recommended for the site; however, quarterly monitoring was recommended to further evaluate the petroleum plume.

Quarterly ground water monitoring was conducted on-site by Lowney Associates from 1990 to 1994. The compounds of concern included TPHg and BTEX. The maximum TPHg concentrations observed during this time were measured in 1992 (2,300 µg/l) and 1993 (3,950 µg/l). The overall TPHg concentrations generally decreased from 1990 to 1994. BTEX concentrations followed a similar trend.

An additional Ground Water and Soil Quality Reconnaissance Investigation was conducted in November 1994 by J.V. Lowney & Associates. Soil and ground water around the former gasoline tank were further evaluated by the installation of two additional ground water monitoring wells. The maximum TPHg concentration in soil samples was 2,600 mg/kg. Petroleum hydrocarbons, however, were not detected in groundwater samples taken from the newly installed monitoring wells. It was recommended that additional ground water sampling be conducted during the winter of 1994-1995.

Quarterly ground water monitoring was conducted on-site by Groundworks Environmental, Inc. and Lee Incorporated from 1995 to 1997. The concentrations of the compounds of concern, TPHg and BTEX, apparently increased from 1994 to 1995. The maximum TPHg concentrations observed during this time were measured in 1995 (7,900 µg/l) and 1996 (3,000 µg/l). The overall TPHg concentrations decreased from 1995 to 1997. BTEX concentrations followed a similar trend.

A Fuel Leak Site Closure Letter was submitted to VTA from the Santa Clara Valley Water District, in September 1997, giving case closure to the investigations pertaining to the three former sumps, the 500-gallon gasoline UST, and the 18,000-gallon fuel oil UST. A copy of this Case Closure Summary is included in Appendix C. The letter indicated that approximately 900 cubic yards of soil and 1,850 gallons of ground water reportedly were removed during the investigations. Also, much of the site was reportedly excavated due to the presence of a Native American burial ground and subsequent construction activities. The final TPHg and benzene concentrations in ground water after remediation reportedly were 480 µg/l and 21 µg/l, respectively. The final TPHg and benzene concentrations in soil after remediation were 2,600 mg/kg and 2.7 mg/kg, respectively.

4.0 RECORDS REVIEW

4.1 City and County Agencies File Review

To obtain information on hazardous materials usage and storage, we reviewed readily available information at the San Jose Building Department (SJBD), Santa Clara County Health Department (SCCHD), San Jose Fire Department (SJFD), and the Santa Clara Valley Transportation Authority (VTA) pertaining to 1193 Lick Avenue. Files reviewed at the SJFD included fire protection installation permits and the fuel leak site case closure letter. The file, however, did not provide any additional pertinent information regarding historic hazardous materials usage and storage. No files were available from the SCCHD. The information made available to us by the SJBD is summarized below.

SJBD, 1942 to 1964: A Building, Plumbing, and Electrical Permit was issued to San Jose Cannery Company located at 1193 Lick Avenue in 1942. Additional permits issued through 1964 included those for the construction of a boiler room, cook room, various warehouses, scale room/bathroom, and a cooling tower.

SJBD, 1969 to 1982: Various electrical permits were issued to California Canners and Growers located at 1193 Lick Avenue.

4.2 VTA File Review

VTA, December 1989: Inspector's Daily Reports of Contract Work were completed during the County of Santa Clara Transportation Agency Alma Multi-Modal Terminal Site demolition. Details of the reports included work related to demolition and disposal of above- and below-ground structures. Activities

reportedly included the removal of a 500-gallon gasoline UST and an 18,000-gallon fuel oil UST, three sumps, and asbestos-containing materials. The four supply wells were closed on-site. The demolition work was halted when human remains were discovered during the excavation of the USTs. An archaeological investigation began that unearthed artifacts and human skeletons that are believed to belong to a 1,000-year-old Native American community, known as Tamien, home of the Ohlones. No references were made to hazardous materials disposal or confirmation soil sampling.

VTA, December 1989: Generator Waste Product Questionnaires were submitted by VTA to Envirosafe Services of Idaho, Inc. for disposal of 30 tons/year of empty portable containers with 0.25 inches of cyanide residue and 200 yards of cyanide residue contaminated solids and debris, generated during an anodizing process.

VTA, December 1989: An Asbestos Notification was sent to the Asbestos Notification Department EPA/NESHAPS Region IX regarding the removal of 2,000 linear feet of asbestos-containing transite pipe from the site.

VTA, April 1989 to April 1990: Numerous Uniform Hazardous Wastes Manifests were submitted by VTA to Envirosafe Services, American Environmental, Bay Area Environmental, Chemical Wastes Management, B & J Sanitary Landfill, Forward Landfill, and Gison during the Alma Multi-Modal Terminal Site demolition. The hazardous materials removed from the site included the following:

- 1,102 gallons of Waste Oily Liquid-California Regulated Waste
- 2,150 gallons of Hazardous Waste Liquid N.O.S.
- 60 cubic yards of RQ Hazardous Waste Solid N.O.S.- Asbestos
- 40 cubic yards of California Regulated Waste- Waste Oil and Soil
- 100 lbs of California Regulated Waste- Empty Compressed Gas Cylinders
- 80 gallons of RQ Waste Flammable Liquid
- 200 lbs of Hazardous Waste-Solid-ORM-E
- 30 gallons of Hazardous Waste Liquid- ORM-E
- 130 gallons of California Regulated Waste- Waste Paint
- 90 gallons of RQ Waste Alkaline Liquid
- 50 lbs Corrosive Solid- Waste Sodium Hydroxide
- 25 lbs RQ Flammable Gas- Waste Compressed Gas
- 600 lbs Corrosive Material- Battery
- 275.75 tons of Hazardous Waste Solid N.O.S.
- 20 cubic yards of California Regulated Waste- Crushed Drums

VTA, January 1991: A letter was submitted to the VTA by the Santa Clara Valley Water District (SCVWD) indicating that a subsurface release of petroleum hydrocarbons from the Lick Avenue Multi-Modal Terminal Site has impacted or threatens to impact the groundwater. A technical report was requested by the SCVWD containing a work plan and proposed schedule for the investigation and remediation activities associated with the reported fuel leak.

VTA, January 1998: A letter was submitted to the SCVWD by the VTA transmitting the final report of the abandonment of seven on-site ground water monitoring wells. The letter indicated that the monitoring wells were removed by drilling into the well area with a 12-inch hollow stem auger, removing all casing materials, and backfilling with cement grout. Decontamination water was collected and a composite soil sample was taken from the drill cuttings produced during the well abandonment. The actual report was not available for our review.

4.3 Regulatory Agency Database Report

During this study, a regulatory agency database report was obtained and reviewed to help establish whether contamination incidents have been reported within the site vicinity. A list of the database sources reviewed, a detailed description of the sources, and a radius map indicating the location of the reported facilities relative to the project site are presented in Appendix D. Nearby reported hazardous materials incidents are presented in Table 6.

Table 6. Nearby Hazardous Materials Incidents

Facility Name	Map ID No.	Address	Distance and Direction From Site	Potential Concern
SCVTA Tamien	A	1193 Lick Avenue	Target Property	Leaking UST site-closed September 1997
Sprig Electric	B7	1303 Lick Avenue	Adjacent to and SE	Leaking UST site-closed September 1994
Bennett's Auto Shop	C8	385 Willow Street	1/8-1/4 mile NW	Leaking UST site-closed November 1993

5.0 CONCLUSIONS

5.1 Historical Summary

According to historic topographic maps, the site has been developed with at least two structures present since 1899. The use of these structures prior to 1915 is unknown. The site was occupied by the San Jose Cannery Company since at least 1915 until the mid-1960s, when the site was purchased by the California Canners and Growers. The site was used for a cannery operation until 1984, at which time the site was leased out to multiple tenants for multiple uses. The uses included mechanical repair, painting, and storage of automobiles and trucks; wood working and machine shops; forklift repair; piano repair; anodizing; used tire storage; and general yard and warehouse storage. When the current site owner, VTA, purchased the property in 1988-1989, most of the tenants appeared to have vacated the property without removing hazardous materials. According VTA, cleanup of the site was initiated in 1989 to remove and dispose hazardous materials prior to demolition of existing structures. A report detailing the cleanup activities was not made available for our review.

A portion of the property is currently leased from VTA by the Tamien Childcare Center and PTRAC for office, childcare, and classroom space. The Tamien Childcare Center reportedly was constructed in 1995 and PTRAC was constructed in 1997.

5.2 Chemical Storage and Use

The current chemical storage and use at the site involve small amounts of cleaning supplies. Chemicals were stored in the janitorial closet and in elevated cabinets. General housekeeping of chemical storage areas appeared orderly with no readily observable evidence of significant spills or leaks.

Past tenants engaged in activities that required the use of hazardous materials. No detailed information, however, was provided to us concerning their operations.

5.3 Soil and Ground Water Quality

The use and storage of hazardous materials on-site has been documented since 1915. Impacts to soil and ground water by hazardous materials associated with the cannery operations and the numerous industrial uses after 1984 have been documented. A leak from a gasoline UST was detected on-site and resulted in petroleum impacted soil and ground water. Three sumps and two USTs (identified by TERRATECH) were removed from the site during VTA demolition activities in 1989-1990. A letter indicating no further action for the documented release was issued by the SCVWD on September 14, 1997 for the USTs and sumps.

Although various remedial activities were recommended by TERRATECH, reports indicating that the recommendations for site cleanup were successfully achieved were not available for our review. Since no post-cleanup sampling data could be obtained, we recommend that soil and ground water samples be collected to evaluate the effectiveness of the reported cleanup activities and document any remaining concentrations of chemicals of concern to determine whether the site may be used for future residential development. The demolition of the former buildings also could have resulted in asbestos and lead paint debris-impacted soil on-site. The former hazardous material storage locations and incinerator also are areas of potential concern. These areas should be further evaluated.

5.4 Buried Debris

Due to the historic uses of the site, abandoned buried tanks, pipes, and other items may still exist on-site. A geophysical survey could be conducted to evaluate the presence of buried objects originating from historic uses. Additionally, test pits could be excavated to evaluate the extent and composition of debris present in the soil. Based on the historical use of the site by Native Americans, we recommend that an archaeologist review the past archaeological reports pertaining to the site.

5.5 Rail Lines

Due to the former rail line location, impacted soil originating from the railroad tracks may be present on-site. Assorted chemicals historically have been used for dust suppression and weed control along rail lines. For a further degree of comfort, consideration should be given to evaluating soil quality in the area of former tracks.

5.6 Transformer

A transformer owned by PG&E was observed near the western portion of the property adjacent to the main entrance to the VTA Tamien Station parking lot. This transformer may contain transformer oil. Oil leaks can occur from the transformer's reservoir. Although oil is typically not highly toxic or mobile in the environment, transformer oil may contain polychlorinated biphenyls (PCBs). Any leaks from the transformer would be the responsibility of PG & E.

5.7 Asbestos

If demolition, renovation, or re-roofing of the on-site buildings is under consideration, an asbestos survey must be conducted under National Emissions Standards for Hazardous Air Pollutants (NESHAP) guidelines. In addition, NESHAP guidelines require that all potentially friable ACM be removed prior to building demolition or renovation that may disturb the ACM.

5.8 Potential Environmental Concerns Within the Site Vicinity

Based on the information obtained during this study, no hazardous material incidents have been reported in the site vicinity that would be likely to significantly impact the site. Several facilities in the vicinity, however, were reported as hazardous materials users; if leaks or spills occur at these facilities, contamination could impact the site, depending upon the effectives of cleanup efforts.

6.0 LIMITATIONS

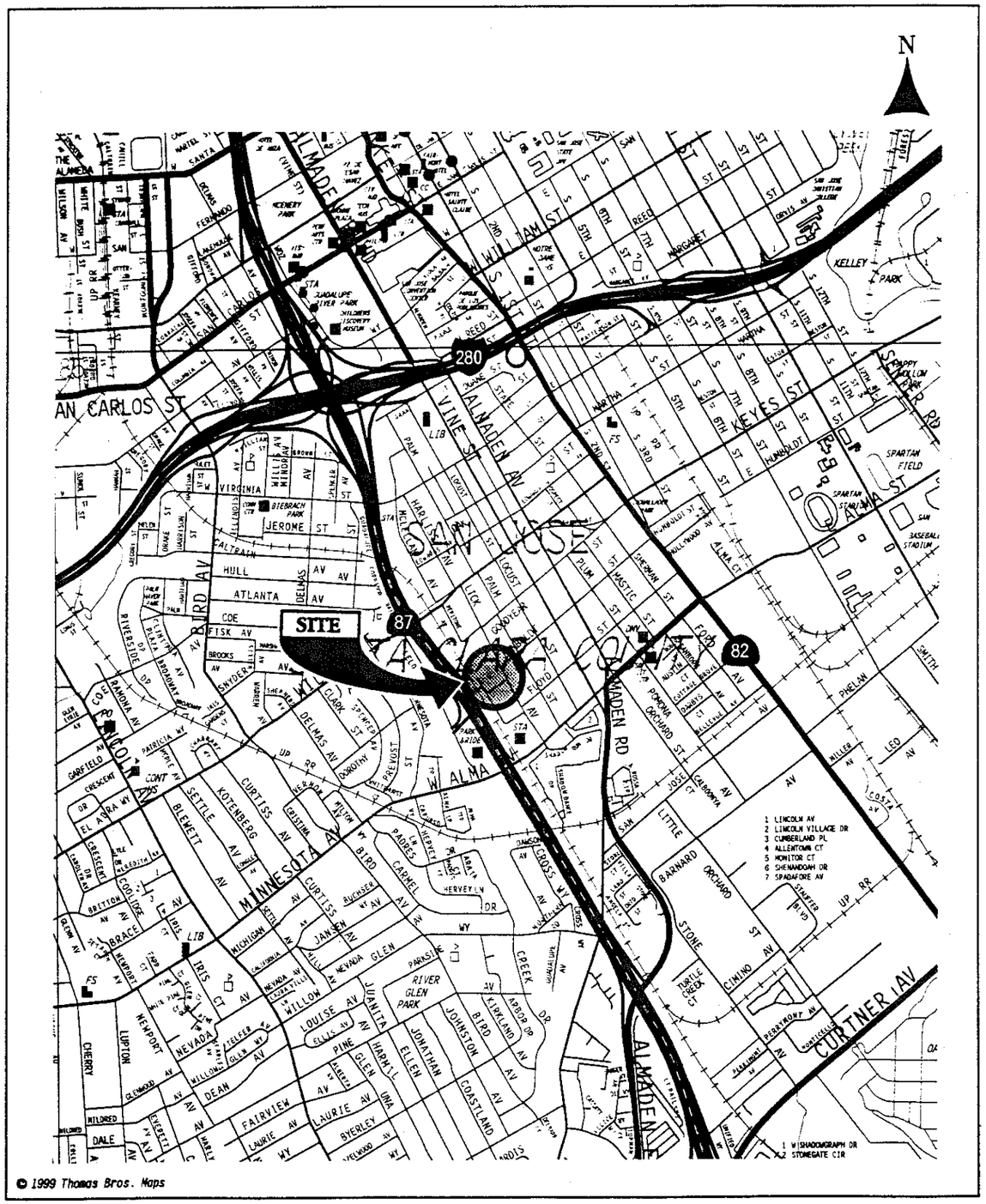
As with all site assessments, the extent of information obtained is a function of client demands, time limitations, and budgetary constraints. Our conclusions and recommendations regarding the site are based on readily observable site conditions, review of readily available documents, maps, aerial photographs, and data collected and/or reported by others. Due to poor or inadequate address information, the regulatory agency database report listed several sites that may be inaccurately mapped or could not be mapped; leaks or spills from these or other facilities, if nearby, could impact the site. As directed by you, we are relying on information presented in reports provided to us by you or your representative. We are not responsible for the accuracy of information or data presented by others.

Because publicly available information cannot affirm that a release or spill of hazardous materials has or has not occurred at the site, there is the possibility of

on-site contamination. Our conclusions and recommendations in this site assessment are qualified in that no soil, ground water, air, or building material analyses were performed. Sampling and analysis lead to a more reliable assessment of environmental conditions, conditions which often cannot be noted from typical Phase I activities. Should you desire a greater degree of confidence, these samples should be obtained and analyzed to further evaluate environmental conditions. Our recommendation that no further work appeared required is not a guarantee of site cleanliness; it is only a statement that there is no affirmative representation that the site has been significantly impacted.

This report was prepared for the sole use of Castle Group California, Inc. We make no warranty, expressed or implied, except that our services have been performed in accordance with environmental principles generally accepted at this time and location.

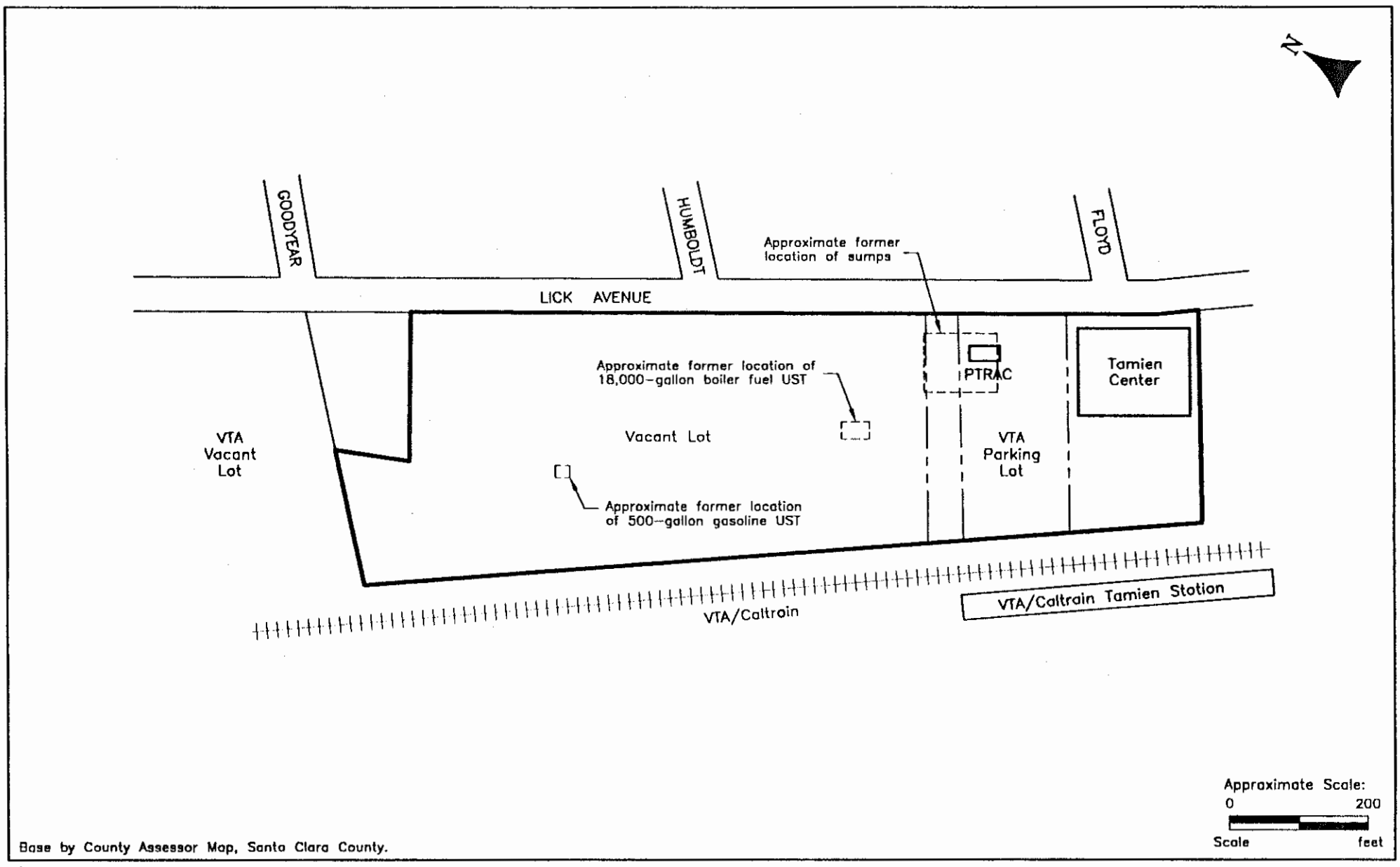
* * * * * * * * * * * * * *



VICINITY MAP
1193 LICK AVENUE PHASE I
San Jose, California

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 1
113-11M



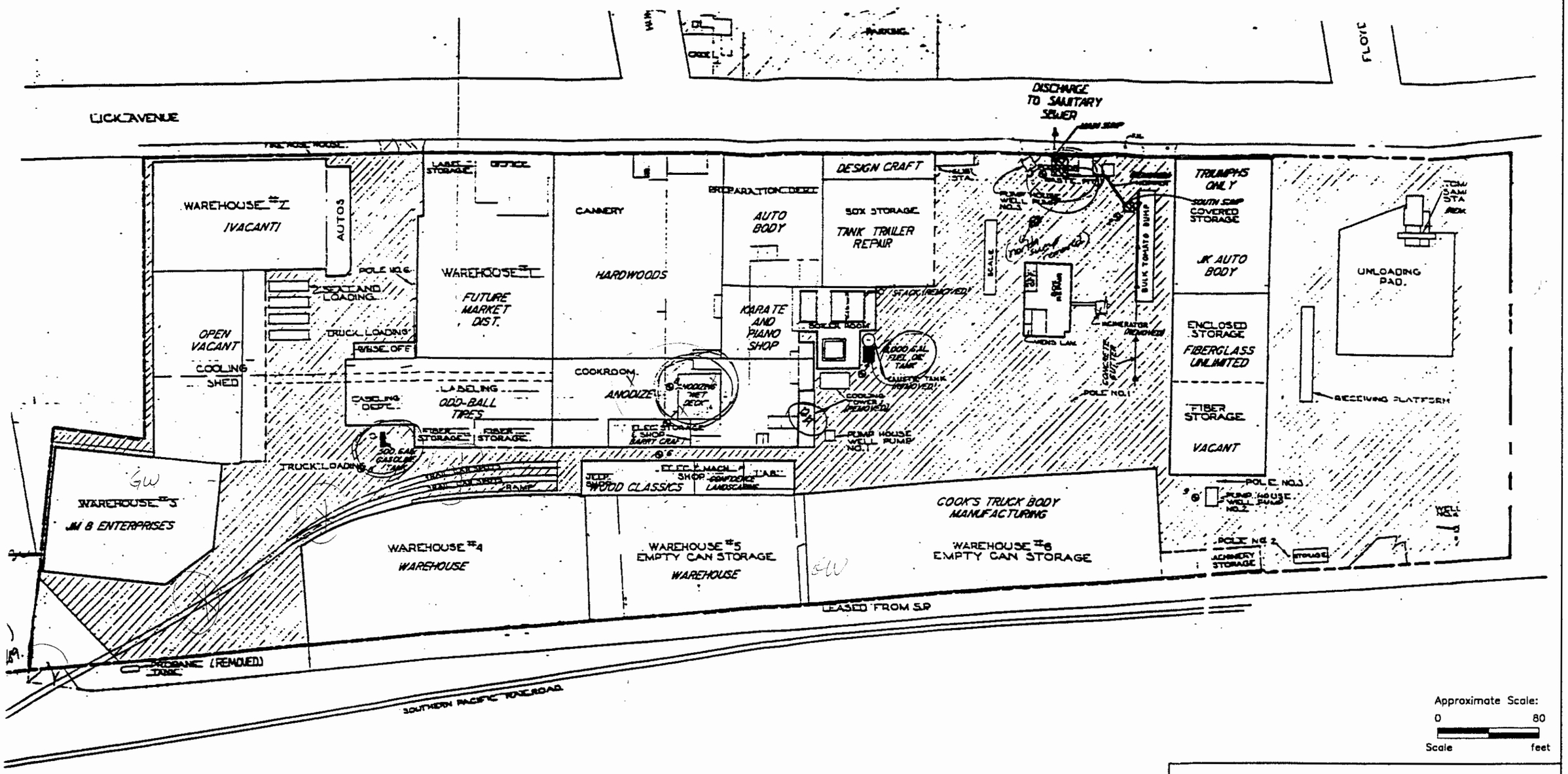
9/00•FB

SITE PLAN

1193 LICK AVENUE PHASE I
San Jose, California

LOVNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 2
113-11M



Base by Terratech, dated 5/8/87.

HISTORIC SITE PLAN (1987)
1193 LICK AVENUE PHASE I
San Jose, California

LOVNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 3

113-11M

APPENDIX A

TERMS AND CONDITIONS

TERMS AND CONDITIONS OF AGREEMENT

AGREEMENT

Lowney's services are defined by and limited to (1) those services (the "Work") described in the attached proposal, which is incorporated by this reference, and (2) these Terms and Conditions of Agreement ("Terms and Conditions"). Together, the proposal and Terms and Conditions form our Agreement. This Agreement represents the parties' entire agreement and supersedes all prior negotiations, representations, or agreements, either written or oral. The Agreement can only be ended by a written instrument signed by both the Client and Lowney. Failure to immediately enforce any provision in this Agreement shall not constitute a waiver of right to enforce that provision or any other provision.

2.0 MISCELLANEOUS CHARGES

2.1 Expenses and other similar project-related costs are billed at cost plus eighteen and one-half (18½) percent. Telephone costs, computer usage charges, and mputerized control of project charges will be additionally billed at five (5) percent of the total project charge. Reproduction charges will be billed at twenty-five cents .25) per page plus the technical assistant's time billed at their hourly rate. Fax transmissions will be charged at fifty cents ($0.50) per sheet. Fixed fee services will be formed for the agreed fixed fee sum.

3.0 TERMS OF PAYMENT

3.1 The Client's obligation to pay for the Work is in no way dependent upon the Client's ability to obtain financing or dependent upon the Client's successful npletion of the project. Payment for Work and expenses shall be due and payable upon receipt of Lowney's statement. To be recognized, any dispute over charges st be claimed in writing within thirty (30) days of the billing date. Disputes or questions about a statement shall not be cause for withholding payment for remaining portions due. Amounts unpaid thirty (30) days after the issue date of Lowney's statement shall be assessed a service charge of one (1) percent per month on balances outstanding to compensate Lowney for the cost and burden of administering the account and collecting fees owed. Should any legal proceeding be commenced between the parties to this Agreement seeking to enforce any of its provisions, including, but not limited to, fee provisions, the prevailing party in such a proceeding shall be tled to, in addition to such other relief as may be granted, a reasonable sum for attorneys' fees and other costs. For purposes of this provision, "prevailing patty" shall ude a party which dismisses an action for recovery hereunder in exchange for payment of the sum allegedly due, performance of covenants allegedly breached, or consideration substantially equal to the relief sought in the action or proceeding. Lowney may at its option withhold delivery of reports and other data pending receipt of payment for all Work rendered and shall have no liability to the Client for delay or damage caused because of such withholding.

INSURANCE

Lowney, its officers, employees, and agents (hereafter referred to as Lowney) are protected by Worker's Compensation Insurance (and/or Employer's Liability ...urance), by Commercial General Liability Insurance for bodily injury and property damage, and by Professional Liability Insurance (including Contractor's Pollution Liability Insurance), and will furnish certificates thereof upon request. Client specifically agrees that Lowney will not be responsible for property damage from any cause, including fire and explosion, beyond the amounts actually paid by Lowney's insurance carriers under Lowney's available insurance.

LIMITATIONS

Client recognizes the inherent risks connected with construction activities, geotechnical investigations, environmental investigations, and assessments. Client also recognizes that actual conditions at the site may vary from those observed by Lowney when performing the Work. Client specifically acknowledges and agrees that the interpretations and recommendations of Lowney are based on information actually reviewed and conditions actually observed by Lowney. Lowney shall not be ionsible for the validity or accuracy of data collected by others or interpretations made by others.

The Client agrees to defend and indemnify Lowney from any and all claims, damages, costs, and losses (included attorneys' fees and costs) arising out of or in any related to the Work or the performance or non-performance of obligations under this Agreement except when the Claim arises from the sole negligence of Lowney or where the Claim arises from the willful, wanton, or reckless conduct of Lowney.

5.3 In performing its professional services, Lowney will strive to use that degree of care and skill ordinarily exercised, under similar circumstances, by members of its ession practicing in the same or similar locality and under the same standard of care. No warranty, expressed or implied, is made or intended by Lowney by the posal for consulting services, the contract between Lowney and Client, or by furnishing oral or written reports of the findings made to the Client or any other person.

This paragraph limits Lowney's liability-READ IT CAREFULLY. The Client understands and acknowledges that the Work poses certain risks to both Lowney and the Client. Client further acknowledges and agrees that the amount of risk that Lowney accepts by this Agreement is commensurate with the amount of compensation received under this Agreement for the Work. Lowney's fee for the Work is based on and reflects Client's agreement to limit Lowney's liability as described below. Client ...ifically acknowledges and agrees that but for this promise to limit Lowney's liability, Lowney's fee would be significantly higher to accommodate Lowney for the risks ed by the Work and entering this Agreement. Client acknowledges its right to discuss this provision with legal counsel and negotiate with Lowney regarding this provision and the proposed fee. In reliance on the foregoing and in consideration for the fee proposed, Client specifically acknowledges and agrees that, to the fullest extent permitted by law, Lowney's total liability for any and all injuries, claims, liabilities, losses, costs, expenses, or damages whatsoever including, without limitation, attorneys' fees and legal costs (hereinafter "Claims") to Client and any third party arising out of or in any way related to the Work or this Agreement from any cause or es including, but not limited to, Lowney's negligence, errors, omissions, or breach of contract or any duty, is limited to and shall not exceed $50,000 or the amount of ney's fee, whichever is greater (Option 1) except when the Claim arises from the sole negligence of Lowney or where the Claim arises from the willful, wanton, or reckless conduct of Lowney. In consideration of an additional fee of four (4) percent of Lowney's total Work fee or $400, whichever is greater, Lowney will raise the limitation of liability up to the amount actually paid by Lowney's insurance carriers for the Claims under Lowney's available insurance coverage (Limitation Increase) if ar only if Client makes its written request for the Limitation Increase before the commencement of the Work and Client and Lowney each initial and date this paragraph below (Option 2) except when the Claim arises from the sole negligence of Lowney or where the Claim arises from the willful, wanton, or reckless conduct of ney.

LIMITATION INCREASE: AGREED THAT LIMITATION OF LIABILITY INCREASED TO ACTUAL AMOUNT OF PROCEEDS PAID BY LOWNEY'S INSURANCE CARRIERS IN EXCHANGE FOR ADDITIONAL FEE OF FOUR (4) PERCENT OF TOTAL SERVICE CHARGE OR $400, WHICHEVER IS GREATER.

Client Initial _____ Date _____ Lowney Initial _____ Date _____

5.5 Client agrees on its behalf and on behalf of Client's officers, directors, partners, principals, agents, employees, successors, representatives, and assignees (collectively referred to as "Client Group") that in no event shall any action or proceeding be brought against Lowney by Client or Client Group for any claim or cause of action arising fr or in any way related to the Work or this agreement unless such action or proceeding is commenced within three (3) years from the Date of Completion of Work ided by Lowney under this Agreement. Client and Client Group agree and acknowledge that the limitations period set forth herein supersedes, replaces, and plants any and all limitation periods which would otherwise apply including, but not limited to, those appearing in the California Code of Civil Procedure. The Date of Completion shall be the date of the final invoice for the Work performed under this Agreement.

5.6 If Client requests that Lowney's work product be relied upon by a third party, including, but not limited to, a lender, Client specifically agrees to provide the third with a copy of these terms and conditions and Client agrees to limit Lowney's total liability to Client and any third patty as described in paragraph 5.4 above, and it agrees to defend and indemnify Lowney from any and all third party claims, damages, costs, and losses arising out of or in any way related to the Work or the formance or non-performance of obligations under this Agreement except when the Claim arises from the sole negligence of Lowney or where the Claim arises from the willful, wanton, or reckless conduct of Lowney. Any third party which accepts Lowney's work product does so under the strict understanding that the third party is bound by all provisions in these Terms and Conditions including, but not limited to, the provisions of paragraphs 5.4 and 5.5, above, and this paragraph 5.6. Every rt, recommendation, finding, or conclusion issued by Lowney shall be subject to the limitations stated therein.

SCOPE AND EXECUTION OF SERVICES

6.1 Lowney will serve the Client by providing professional counsel and technical advice based on information furnished by the Client. The Client will make available to Lowney all known information regarding existing and proposed conditions of the site, including the location of all underground utilities and installations, and will ...ediately transmit any new information that becomes available or any change in plans. When hazardous materials are known, assumed or suspected to exist at a site, hey may be required by law to take appropriate precautions to protect the health and safety of its personnel. Client hereby warrants that if it knows or has any son to assume or suspect that hazardous materials may exist at the project site, Client will immediately inform Lowney and warrants that Client has done its best to inform Lowney of the known or suspected hazardous materials' type, quantity, and location. Client and Lowney agree that Lowney shall not be responsible for any claims, damages, costs, or losses arising from or in any way related to conditions not actually encountered during the course of Lowney's work and Lowney shall not have liability or responsibility for losses resulting from inaccurate or incomplete information supplied by Client, and Client agrees to defend and indemnify Lowney against ts, damages, costs, or losses arising therefrom. Lowney shall not be liable for failing to discover any condition the discovery of which would reasonably require the formance of services not authorized by Client.

6.2 Lowney will diligently proceed with its services and will submit its report in a timely manner, but it is expressly agreed and understood by Client that Lowney shall not be held responsible for delays occasioned by factors beyond its control, nor by factors which could not reasonably have been foreseen at the time of the execution of Agreement between the parties. Lowney will not be responsible for any damages, consequential or otherwise, caused by delays in the completion of the Work.

wney makes no warranties regarding time of completion of the Work. In the event that the Work is interrupted or delayed due to causes beyond Lowney's control ;cluding, but not limited to, acts of God, war, not, insurrection, inclement weather, fire acts of third parties or governmental bodies, or matters within the control of Client), Lowney shall be paid compensation for labor, equipment, and other costs Lowney incurs in order to perform the Work for the Client's benefit during the interruption or delay.

3 The individual or individuals who contract with Lowney on behalf of the Client warrant that they are duly authorized agents of the Client and are empowered to so ntract.

Unless otherwise agreed in writing, the Client shall be entitled to two copies of each report prepared by Lowney.

6.5 In the event that Lowney submits a proposal including these Terms and Conditions of Agreement, to provide professional services and the Client authorizes the Work by means of a purchase order or other writing ("Confirmation"), it is expressly agreed that these Terms and Conditions shall apply, and any terms, condition, or ovisions appearing in the Confirmation are void and inapplicable except to the extent the Confirmation authorizes the Work and binds Client to this Agreement.

) SITE SAFETY

Lowney shall not be responsible for construction means, methods, techniques, sequences, or procedures, or for safety precautions and programs in connection with the job or the work of any contractor, subcontractor, or their agents or employees, or any other person performing work or services on the job or at the site.

9 TERMINATION

Either party may terminate this Agreement by giving the other party seven (7) days' written notice. Notice shall be effective as of the date of deposit in the U.S. il of the written notice, properly addressed to the person to be notified. In the event that the Client requests termination of the services prior to completion of Work, Lowney reserves the right to complete such analyses and records as may be necessary to place its files in order and, where considered necessary to protect its professional reputation, to complete a report on the services performed to date. A termination charge of 10 percent of the total contract amount in addition to all costs urred to the date of Work stoppage may be made at the discretion of Lowney

) OWNERSHIP OF DOCUMENTS

9.1 All reports, boring logs, field data, field notes, laboratory test data, calculations, estimates, and other documents prepared by Lowney, as instruments of Work, shall remain the property of Lowney. Client agrees that all reports and other services furnished to the Client or its agents, that are not paid for, will be immediately returned upon demand and will not be used by the Client for any purpose whatever. Client warrants that Lowney, in order to perform its Work under this Agreement, has the estricted license and right to use any information provided to Lowney by the Client or others.

0 RIGHT OF ENTRY

10.1 The Client will provide for right of entry of Lowney personnel and all necessary equipment, in order to complete the Work. While Lowney will take all reasonable precautions to minimize any damage to the property including underground utilities, it is acknowledged and agreed by Client that in the normal course of the Work some nage may occur, the correction of which is not part of this Agreement. Accordingly, Client shall waive any claim against Lowney and agree to defend and indemnify vney from any claims arising from entering or working on the site which is the subject of the Work.

11.0 MONITORING OF CONSTRUCTION

11.1 The Client hereby acknowledges and understands that unanticipated or changed conditions may be encountered during construction. Further, there is a substantial risk to both the Client and to Lowney if Lowney is not engaged to provide complete services, including but not limited to, construction observation services. Such risks ude the increased likelihood of misinterpretation of Lowney's findings and conclusions, and error in implementing recommendations by Lowney. Therefore, if the nt fails to retain Lowney to provide complete services, the Client agrees to defend and indemnify Lowney against any and all claims, damages, costs, and losses arising out of or in any way related to the Work or arising out of implementing or interpreting Lowney's work product except when the Claim arises from the sole negligence of Lowney or where the Claim arises from the willful, wanton, or reckless conduct of Lowney

0 DISCOVERY OF UNANTICIPATED HAZARDOUS MATERIALS

1 Hazardous materials or other toxic substances may exist at a site where there is no reason known to Client to believe they could or should be present. Lowney and Client agree that the discovery of unanticipated potentially hazardous materials constitutes a changed condition mandating a renegotiation of the scope of Work or termination of Work. Lowney and Client also agree that the discovery of unanticipated potentially hazardous materials may make it necessary for Lowney to take immediate measures to protect public health, safety, and the environment. Lowney agrees to notify Client as soon as practically possible should unanticipated hazardous erials be encountered. Client encourages Lowney to take any or all measures that in Lowney's professional opinion are justified to preserve and protect the health safety of Lowney's personnel, the public, and the environment, and Client agrees to compensate Lowney for the cost of such services. Further, the Client agrees to defend and indemnify Lowney from any and all claims, damages, costs, and losses arising out of or in any way related to subsurface sampling, including, but not limited to, claims, damages, costs, and losses arising from cross-contamination except when the Claim arises from the sole negligence of Lowney or where the Claim arises from the willful, wanton, or reckless conduct of Lowney.

0 CONTAMINATION OF A WATER-BEARING ZONE

Subsurface sampling may result in unavoidable contamination of certain subsurface areas, as when a probe or boring is advanced or drilled through a contaminated area, into a clean soil or a water-bearing zone. Because of the risks posed by such Work, and because subsurface sampling is often a necessary part of Lowney's Work, the Client hereby agrees to waive all claims against Lowney that in any way arise out of subsurface sampling, including claims relating to cross-contamination

) DISPOSAL OF SAMPLES AND DRILL CUTTINGS

Lowney shall hold samples collected during the performance of its Work no longer than 45 calendar days after issuance of any document that includes data obtained from them unless Client advises in writing otherwise; drill cuttings will be left on-site. In the event that soil, rock, water, or drill cuttings, and/or other samples or material are contaminated or are suspected to contain hazardous materials or other toxic substances hazardous or detrimental to public health, safety, or the environment as defined by federal, state, or local statutes, regulations, or ordinances, Lowney will, after completion of testing, notify the Client of same in order for the nt to arrange for the disposal of samples and materials. The Client recognizes and agrees that Lowney at no time assumes title to said samples and/or materials. The nt, not Lowney, remains ultimately responsible for selecting the disposal or treatment facility to which such samples and/or materials are to be delivered. The Client agrees to pay all costs associated with any storage, transport, and disposal of samples and materials, and to defend and indemnify Lowney from any and all claims arising out of or in any way related to the storage, transport, and disposal of asbestos, hazardous or toxic substances, or pollutants, including but not limited to, any samples /or materials.

) MISCELLANEOUS PROVISIONS

1 The term "indemnify" shall mean indemnify, defend, and hold harmless from and against any and all claims, liabilities, suits, demands, losses, costs, and expenses, including, but not limited to, reasonable attorneys' fees and all legal expenses and fees incurred on appeal, and all interest thereon ("claims"), accruing or resulting to any and all persons, firms, or any other legal entities, on account of any damages or losses to property or persons, including death, or economic losses, arising out of the item, ter, action, or inaction specified in the specific provision.

This Agreement shall be governed by California law. The venue for any legal action brought pursuant to this Agreement shall be located within the County of Santa Clara, State of California.

15.3 Nothing contained in this Agreement shall create a contractual relationship with or cause of action in favor of a third party against either the Client or Lowney

The Client and Lowney, respectively, bind themselves, their partners, successors, assigns, and legal representatives to the other party to this Agreement and to the ners, successors, assigns, and legal representatives of such other party with respect to all covenants of this Agreement. Client shall not assign this Agreement or any t or cause of action hereunder without the written consent of Lowney.

15.5 Unless specified otherwise by Lowney, this quotation shall not remain in effect after thirty (30) days of the proposal date.

15.6 Lowney maintains a General Engineering A license (No. 682286) and Hazardous Substances Removal and Remedial Actions Certification with the State of California which are regulated by the Contractors State License Board. Any questions concerning a contractor may be referred to the Registrar, Contractors State License Board, P.O. 20000, Sacramento, California 95826.

Client agrees that Lowney may use and publish Client's name and a general description of Lowney's services with respect to the project in describing Lowney's experience and qualification to other clients or prospective clients.

15.8 Client acknowledges and agrees that it has received and reviewed these Terms and Conditions and that any rule of construction to the effect that ambiguities are to esolved against the drafting party shall not apply to the interpretation of this Agreement

APPLICATION FOR AUTHORIZATION TO USE

REPORT TITLE: PHASE I ENVIRONMENTAL SITE ASSESSMENT FOR 1193 LICK AVENUE
PROJECT NUMBER: 113-11M

To: Lowney Associates
405 Clyde Avenue
Mountain View, California 94043

From (Applicant): _____
(Please clearly identify name and address of person/entity applying for permission to use or copy this document)

Ladies and Gentlemen:

Applicant hereby applies for permission to rely upon Lowney Associates work product, as described above, for the purpose of:
(state here the purpose for which you wish to rely upon the work product)

Applicant only can accept and rely upon Lowney Associates' work product under the strict understanding that Applicant is bound by all provisions in the Terms and Conditions attached to the report. Every report, recommendation, finding, or conclusion issued by Lowney Associates shall be subject to the limitations stated in the Agreement and subject report(s). If this is agreeable, please sign below and return one copy of this letter to us along with the applicable fees. Upon receipt and if acceptable, our signed letter will be returned. Lowney Associates may withhold permission at its sole discretion or require additional re-use fees or terms.

FEES: A $200 coordination fee, payable in advance, will apply. If desired, for an additional $150 report reproduction fee, we will reissue the report in the name of the Applicant; the report date, however, will remain the same. All checks will be returned if the request is not approved.

REQUESTED BY	**APPROVED BY**
_____	**Lowney Associates**
Applicant Company	
_____	_____
Print Name and Title	Print Name and Title
_____	_____
Signature and Date	Signature and Date

APPENDIX B

SANBORN MAPS

Environmental Data Resources, Inc.

an edr company

"Linking Technology with Tradition"

Sanborn® Map Report

Ship to: Jane Fisher
Lowney Associates
405 Clyde Avenue
Mountain View, CA 94043

1023523PEK 650-967-2365

Order Date: 9/1/2000 **Completion Date:** 09/05/2000
Inquiry #: 535832.2S
P.O. #: P10299
Site Name: 1193 Lick Avenue
Address: 1193 Lick Avenue
City/State: San Jose, CA 95110
Cross Streets:

Based on client-supplied information, fire insurance maps for the following years were identified

1915 - 1 - map
1950 - 1 - map
1956 - 1 - map
1966 - 1 - map

Total Maps: 4

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Electronic Sanborn Map Images
USER'S GUIDE

Thank you for your interest in electronic Sanborn Map images. The following are guidelines for accessing the images and for transferring them to your system. If you have any questions about the use of electronic Sanborn Map images, contact your EDR Account Executive at 1-800-352-0050.

Organization of Electronic Sanborn Image File

- First Page — Sanborn Map Report, listing years of coverage
- Second Page — Electronic Sanborn Map Images USER'S GUIDE
- Third Page — Oldest Sanborn Map Image
- Last Page — Most recent Sanborn Map Image

Navigating the Electronic Sanborn Image File

- Open file on screen.
- Identify TP (Target Property) on the most recent map.
- Find TP on older printed images.
- To view the image more clearly, zoom to 250%.
  - 200-250% is the approximate equivalent scale of hardcopy Sanborn Maps.
  - Viewing above 400% will tend to pixelate the display.
- Zooming in on an image:
  - Click on the % in the lower left hand corner and type in ____%.
  - Use the magnifying tool and drag a box around the TP area.

Printing a Sanborn Map from the Electronic File

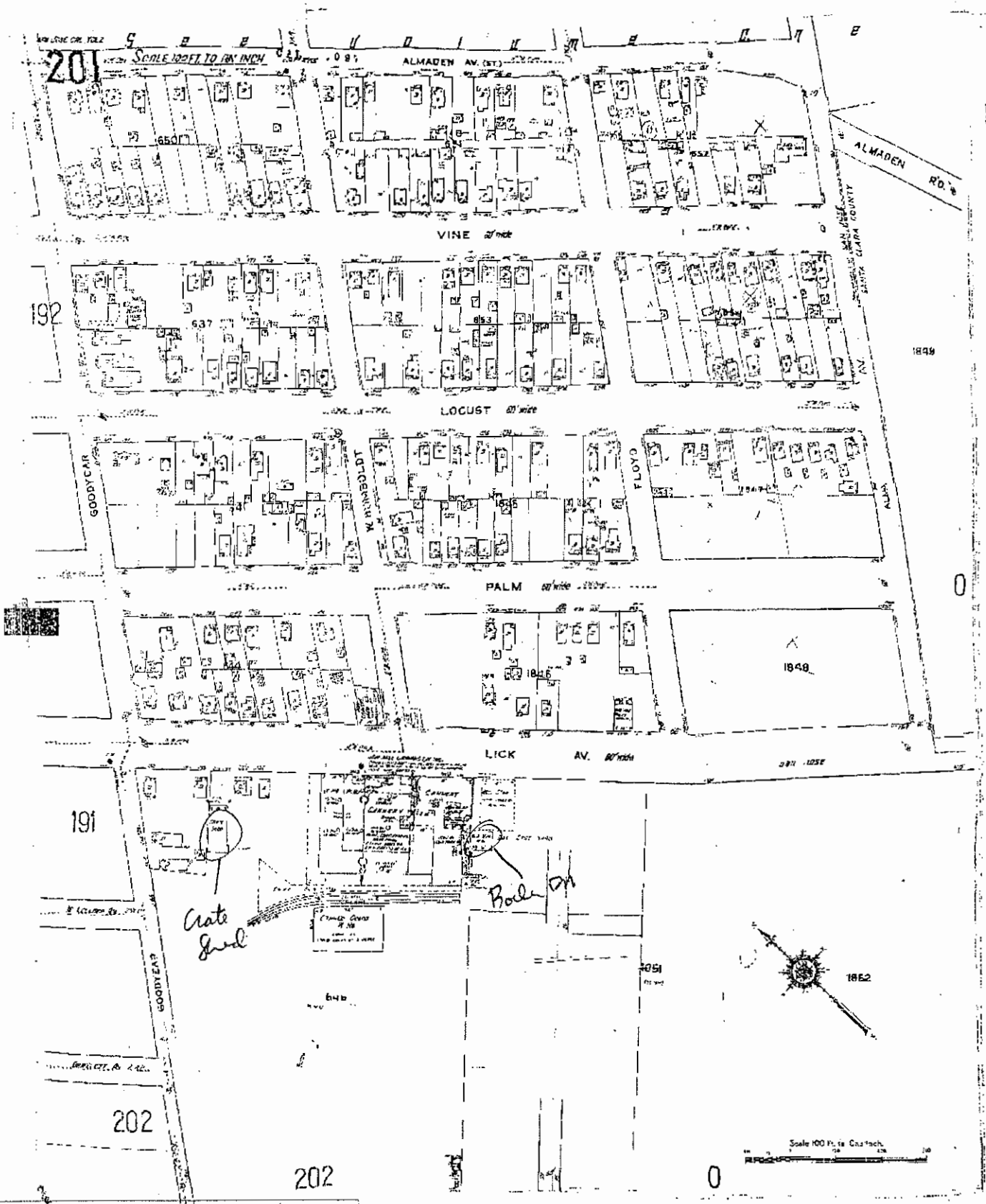
- EDR recommends printing all images at 300 dpi (300 dpi prints faster than 600 dpi).
- To print only the TP area, cut and paste the area from Adobe Acrobat to your word processor.

  For Adobe Acrobat Version 3
  - Go to the Menu Bar.
  - Highlight 'Tools'.
  - Highlight 'Select Graphics'.
  - Draw a box around the area of interest.
  - Go to the Menu Bar.
  - Highlight 'Edit'.
  - Highlight 'Copy'.
  - Go to a word processor such as Microsoft Word and paste. Print from the word processor.

  For Adobe Acrobat Version 4
  - Go to the Menu Bar.
  - Press and hold the 'T' button.
  - Choose the Graphics Select Tool.
  - Draw a box around the area of interest.
  - Go to the Menu Bar.
  - Highlight 'Edit'.
  - Highlight 'Copy'.
  - Go to a word processor such as Microsoft Word and paste. Print from the word processor.

Important Information about Email Delivery of Electronic Sanborn Map Images

- Images are grouped into one file, up to 2MB.
- In cases where in excess of 6-7 map years are available, the file size typically exceeds 2MB. In these cases, you will receive multiple files, labeled as 1 of 3, 2 of 3, etc. including all available map years.
- Due to file size limitations, certain ISPs, including AOL, may occasionally delay or decline to deliver files. Please contact your ISP to identify their specific file size limitations.



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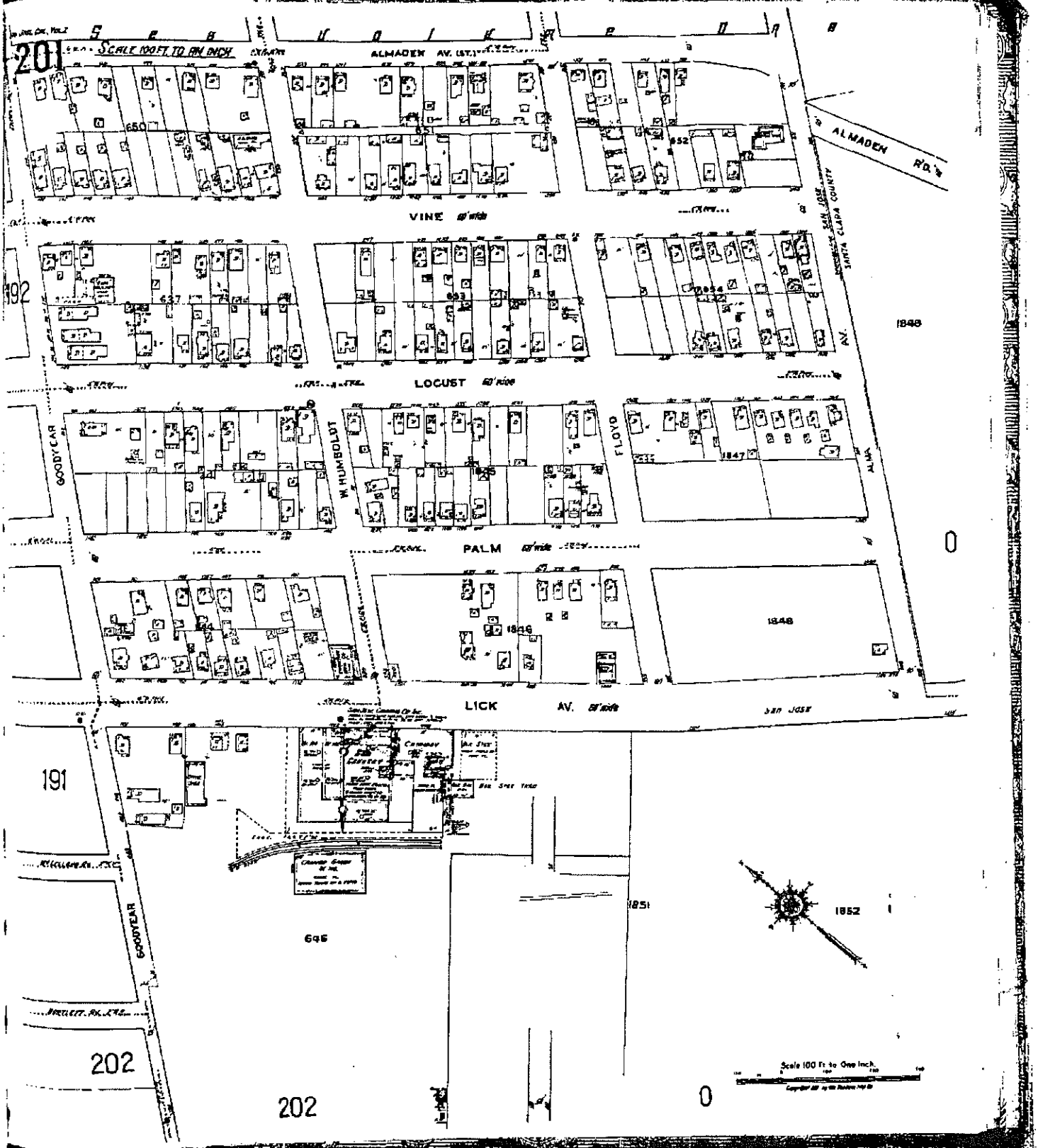

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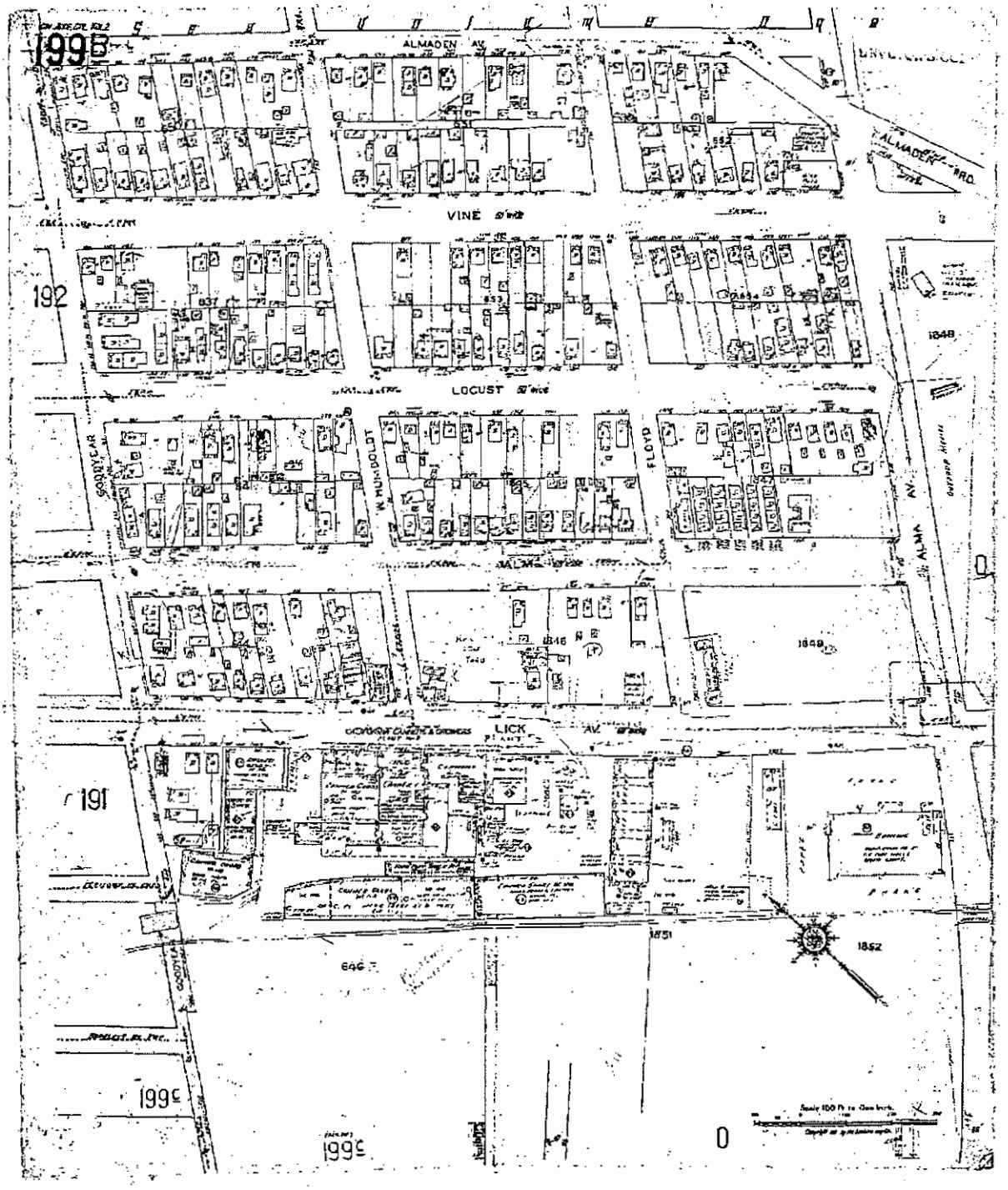

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APPENDIX C

CASE CLOSURE SUMMARY

SANTA CLARA
Valley Transportation Authority

January 27, 1998

Ms. Adele Shepherd
Water Quality Specialist
Leaking Underground Storage Tank Oversight Program
Santa Clara Valley Water District
5750 Almaden Expressway
San Jose, CA 95118

Subject: Site Closure
Final Report - Abandon Groundwater Monitoring Wells
Tamien Station Site, Lick Ave. San Jose, CA

Dear Ms. Shepherd:

We are transmitting the Final Report for the abandonment of seven (7) groundwater monitoring wells per your request. Final site closure at this location occurred by notification from the Santa Clara Valley Water District on September 18, 1997.

All seven wells were removed by drilling down with a twelve inch hollow stem auger. All casing materials were removed and each borehole was filled with cement grout. Decontamination water was collected and a composite soil sample was taken from the cuttings produced. Screening for contaminants using State of CA Maximum Contaminant Levels for drinking water and Total Threshold Limit Concentrations(TTLC) yielded only chromium concentrations at unusual levels (110 mg/kg). Subsequent analysis of this sample for Soluble Threshold Limit Concentrations (STLC) chromium yielded a concentration of 1.2 mg/l. This value is within the allowable limit of 5 mg/l.

The submittal of this Final Report completes the work required by your office for this location. Please contact me if you wish to discuss the results further.

Sincerely,

Wesley M. Toy, P.E.
Associate Environmental Engineer

enclosure
cc: (all w/o report) K. Brencic R. Hybarger R. Sabado W. Toy

Santa Clara Valley Water District

5750 ALMADEN EXPRESSWAY
SAN JOSE, CA 95118-3686
TELEPHONE (408) 265-2600
FACSIMILE (408) 266-0271

AN AFFIRMATIVE ACTION EMPLOYER

September 18, 1997

Mr. Ray Hybarger
Santa Clara Valley Transportation Authority
3331 North First Street
San Jose, CA 95134-1906

Dear Mr. Hybarger:

Subject: Fuel Leak Site Case Closure—Santa Clara Valley Transportation Authority—Tamien Station, 1193 Lick Avenue, San Jose, CA 95110; Case No. 12-019

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Santa Clara Valley Water District is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

If you have any questions, please call Ms. Adele Shepherd at the Camden Office, (408) 927-0710, extension 2639. Thank you.

Sincerely,

James S. Crowley, P.E.
Special Programs Engineer
Leaking Underground Storage Tank Oversight Program

Enclosures:
1. Case Closure Letter
2. Case Closure Summary

cc: Mr. John West (w/enc)
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

Mr. Dan Firth
Hazardous Materials Division
San Jose Fire Department
4 North Second Street, Suite 1100
San Jose, CA 95113-1305

Mr. Dave Deaner
Division of Clean Water Programs
Underground Storage Tank Cleanup Fund
State Water Resources Control Board
P.O. Box 944212
Sacramento, CA 94244-2120

Santa Clara Valley Water District

5750 ALMADEN EXPRESSWAY
SAN JOSE, CA 95118-3686
TELEPHONE (408) 265-2600
FACSIMILE (408) 266-0271

AN AFFIRMATIVE ACTION EMPLOYER

September 18, 1997

Mr. Ray Hybarger
Santa Clara Valley Transportation Authority
3331 North First Street
San Jose, CA 95134-1906

Dear Mr. Hybarger:

Subject: Fuel Leak Site Case Closure—Santa Clara Valley Transportation Authority—Tamien Station, 1193 Lick Avenue, San Jose, CA 95110; Case No. 12-019

This letter confirms the completion of a site investigation and remedial action for the underground storage tank(s) formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

James S. Crowley, P.E.
Special Programs Engineer
Leaking Underground Storage Tank Oversight Program

CASE CLOSURE SUMMARY
LEAKING UNDERGROUND FUEL STORAGE TANK PROGRAM

I. AGENCY INFORMATION

Date: September 15, 1997

Agency Name: Santa Clara Valley Water District	Address: 5750 Almaden Expressway
City/State/Zip: San Jose, CA 95118	Phone: (408) 265-2600
Responsible Staff Person: Adele R. Shepherd	Title: Water Quality Specialist

II. CASE INFORMATION

Site Facility Name: Santa Clara Valley Transportation Authority—Tamien Station		
Site Facility Address: 1193 Lick Avenue, San Jose, CA 95110		
RB LUSTIS Case No.: —	Local Case No.: 07S1E20B01f	LOP Case No.: 12-019
URF Filing Date: 06/10/92	SWEEPS No.: —	APN: 434-13-034

Responsible Parties	Addresses	Phone Number
Mr. Ray Hybarger Santa Clara Valley Transportation Authority	3331 North First Street San Jose, CA 95134-1906	(408) 321-5834

Tank I.D. No	Size in Gallons	Contents	Closed In-Place/Removed?	Date
—	One at 500	Gasoline	Removed	12/27/89
—	One at 18,000	Bunker fuel oil	Removed	12/27/89
—	Three sumps	—	Removed	12/89
Piping			Not reported	—

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Up to 420 parts per million (ppm) Total Petroleum Hydrocarbons as Gasoline (TPHG) and 6.9 ppm Benzene in soils beneath former gasoline tank.		
Site characterization complete? Yes	Date Approved By Oversight Agency: 11/08/90	
Monitoring wells installed? Yes	Number: 7	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 12'	Lowest Depth: 23'	Flow Direction: North northwest to north northeast
Most Sensitive Current Use: Potential drinking water supply		
Summary of Production Wells in Vicinity: There is one inactive well approximately 800 feet east of the subject site. The purpose of the well is unknown. However, there is no pump associated with this well according to information in Santa Clara Valley Water District records. The well has been inactive since 1965; the reason is unknown. This well does not appear to pose as a potential receptor to residual pollution at the subject site.		
Are drinking water wells affected? No	Aquifer Name: Santa Clara Valley Basin	
Is surface water affected? No	Nearest SW Name: Guadalupe River ≈800 feet west	
Off-Site Beneficial Use Impacts (Addresses/Locations): None reported		
Reports on file? Yes	Where are reports filed? Santa Clara Valley Water District	

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	One at 18,000 gallons One at 500 gallons	Disposed to H&H Shipping, San Francisco, CA	02/02/90
Piping	Not reported	—	—
Free Product	—	—	—
Soil	=900 cubic yards	Aerated and used on site	1990
Groundwater	1,850 gallons	Transported to H&H Shipping, San Francisco, CA	02/02/90
Barrels	—	—	—

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS—BEFORE AND AFTER CLEANUP
(Please see Attachments 3 and 4 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)		Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After		Before	After	Before	After
TPH (Gas)	420	2,600	7,900	480	Xylene	81	10	600	9.7
TPH (Diesel)	ND	NA	NA	NA	Ethylbenzene	15	1.9	400	18
Benzene	6.9	2.7	1,000	21	Oil & Grease	425	NA	NA	NA
Toluene	40	6.6	110	1	Heavy Metals	350[1]	NA	17[2]	NA
Other (8010)	0.11 1,2DCA	NA	NA	NA	MTBE	NA	NA	ND	ND

Description of Interim Remediation Activities: May 1987 exploratory soil and groundwater sampling and analyses were performed near tanks, sumps, an anodizing plant, and a paint shop yard. Up to 350 ppm lead was indicated near ground surface at the anodizing plant. The Soluble Threshold Limit Concentration (STLC) for this sample was 12 milligrams per liter (mg/l) The hazardous STLC for lead is 5 mg/l. Analytical results for petroleum hydrocarbon pollution in soil and grab groundwater samples indicated no significant concentrations near sumps, heating oil tank, or gasoline tank. Much of the site was excavated due to the presence of an American indian burial ground and due to subsequent construction activities.

December 1989 tanks and sumps were removed. Analytical results for soil samples from beneath both tanks indicated less than detectable pollution beneath the former fuel oil tank and up to 420 ppm TPHG and up to 6.9 ppm Benzene near former gasoline tank. Soil was overexcavated near the gasoline tank to final excavation limits of 30 feet by 30 feet by 18 feet. Analytical results for confirmatory soil samples were nondetect. A total of 900 cubic yards of soil and 1,850 gallons of groundwater were removed from the excavation. Groundwater monitoring wells were installed around the former gasoline tank June 1990.

Quarterly groundwater monitoring was initiated June 1990 and has continued since. Two additional wells were installed September 1994. Quarterly monitoring has continued through the first quarter 1997 and groundwater pollution levels have attenuated to below levels of regulatory concern.

No other work has been performed at the site.

[1]Lead; the STLC for this sample was 12 mg/l. The hazardous STLC for lead is 5 mg/l.
[2]Chromium

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Santa Clara Valley Water District staff does not make specific determinations concerning public health risk. However, it does not appear that the release would present a risk to human health.		
Site Management Requirements: None		
Should corrective action be reviewed if land use changes? No		
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 7
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances: None.

Conclusion: Underground storage tanks and sumps were removed from the site in 1989. Soil pollution of significance was indicated beneath the gasoline tank. Soils were overexcavated to groundwater, wells installed, and groundwater monitoring conducted. Pollution levels have attenuated to below levels of regulatory concern. Santa Clara Valley Water District staff recommends this case for closure.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Adele R. Shepherd	Title: Water Quality Specialist
Signature: Adele R. Shepherd	Date: 9/15/97
Approved by: James S. Crowley, P.E.	Title: Associate Civil Engineer
Signature: [illegible]	Date: 9/17/97

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Kevin Graves	Title: Associate Water Resources Control Engineer
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB:
Signature:	Date:

Attachments:

1. Site Vicinity Map
2. Site Plan
3. Groundwater Analytical Results
4. Soil Analytical Results

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Santa Clara Valley Water District staff does not make specific determinations concerning public health risk. However, it does not appear that the release would present a risk to human health.		
Site Management Requirements: None		
Should corrective action be reviewed if land use changes? No		
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 7
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances: None.

Conclusion: Underground storage tanks and sumps were removed from the site in 1989. Soil pollution of significance was indicated beneath the gasoline tank. Soils were overexcavated to groundwater, wells installed, and groundwater monitoring conducted. Pollution levels have attenuated to below levels of regulatory concern. Santa Clara Valley Water District staff recommends this case for closure.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Adele R. Shepherd	Title: Water Quality Specialist
Signature: Adele R. Shepherd	Date: 9/15/97
Approved by: James S. Crowley, P.E.	Title: Associate Civil Engineer
Signature: James S. Crowley	Date: 9/17/97

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

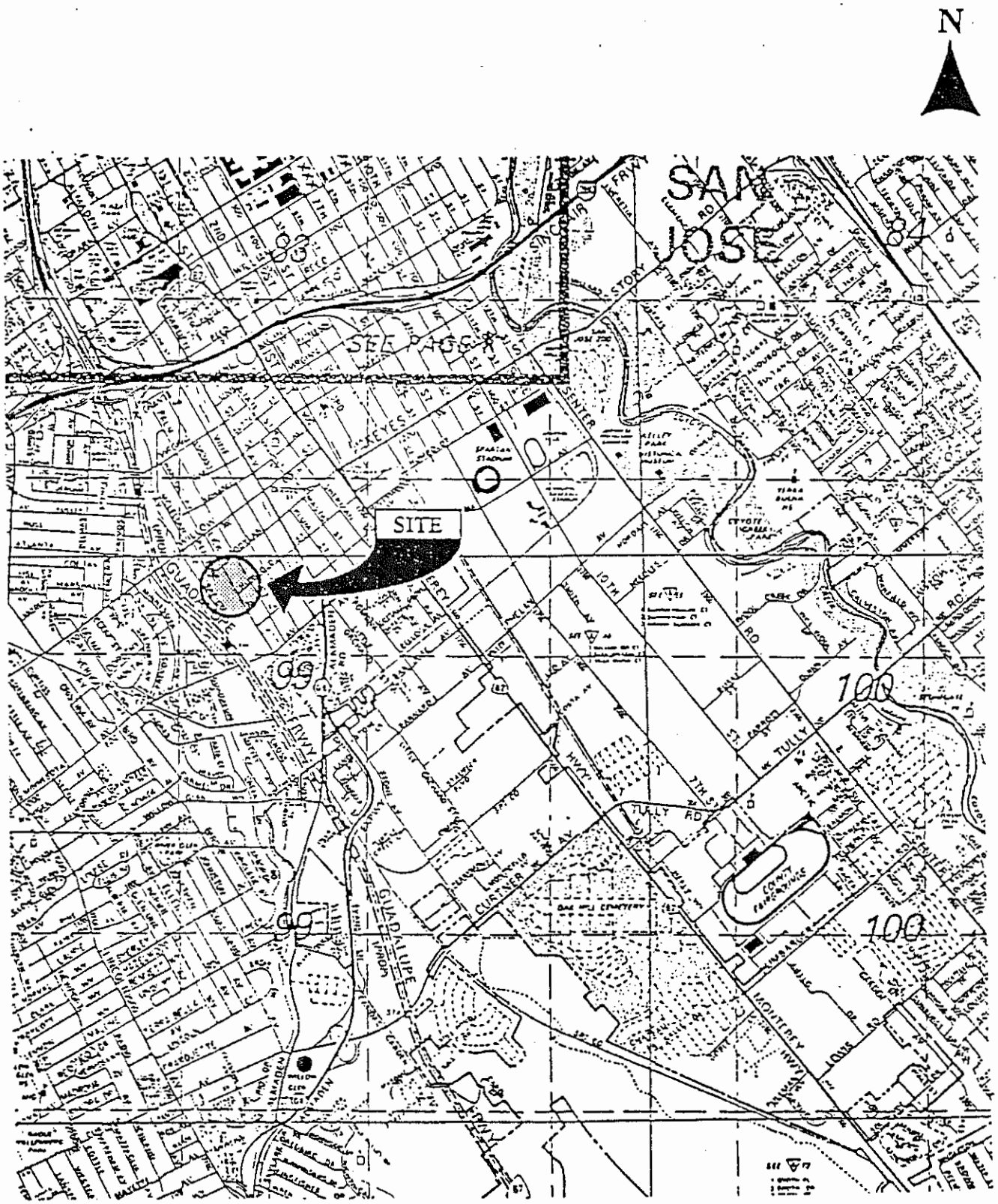
Regional Board Staff Name: Kevin Graves	Title: Associate Water Resources Control Engineer
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB.
Signature: [illegible]	Date: 9-17-97

Attachments:
1. Site Vicinity Map
2. Site Plan
3. Groundwater Analytical Results
4. Soil Analytical Results

RE: Santa Clara Valley Trans. Authority
- Tamien Station
1173 Lick Avenue, San Jose

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

Post-it® Fax Note 7671		Date 9-17-97	# of pages ▶ 1
To Adele Shepard		From Kevin Graves	
Co./Dept. SCVWD		Co. RWQCB	
Phone #		Phone # (510) 286-0435	
Fax # 408-997-8769		Fax #	



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113-11L 3/15 BPB*EB

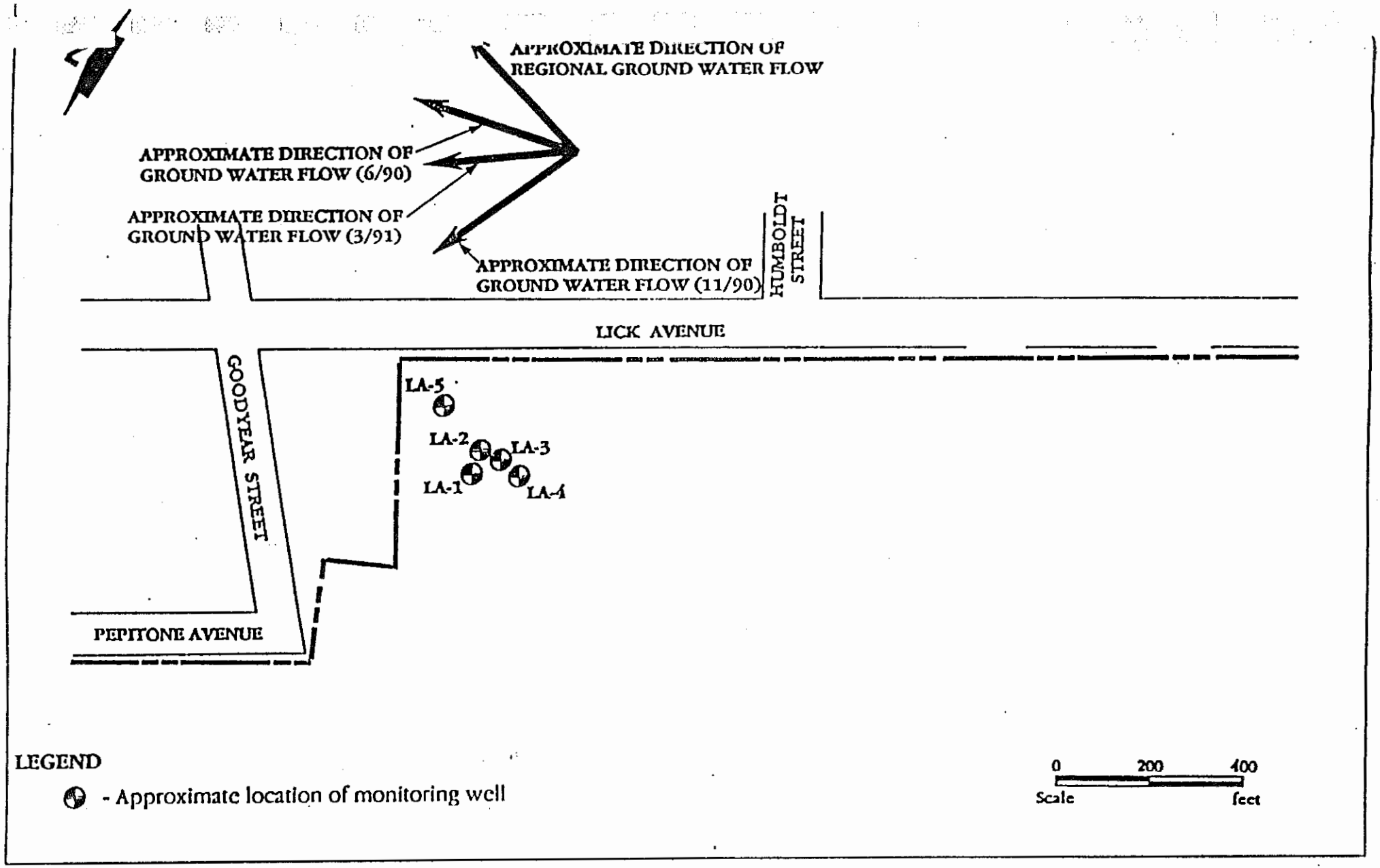
VICINITY MAP

LICK AVENUE
San Jose, California

ATTACHMENT 1

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 1
113-11H, June 1994



113-11A,12/11 PM.e*JC

SITE PLAN

LICK AVENUE QUARTERLY SAMPLING
San Jose, California

J.V. LOWNEY & ASSOCIATES
ENVIRONMENTAL & GEOTECHNICAL CONSULTANTS

FIGURE 2
113-11B, March 1991

ATTACHMENT 2

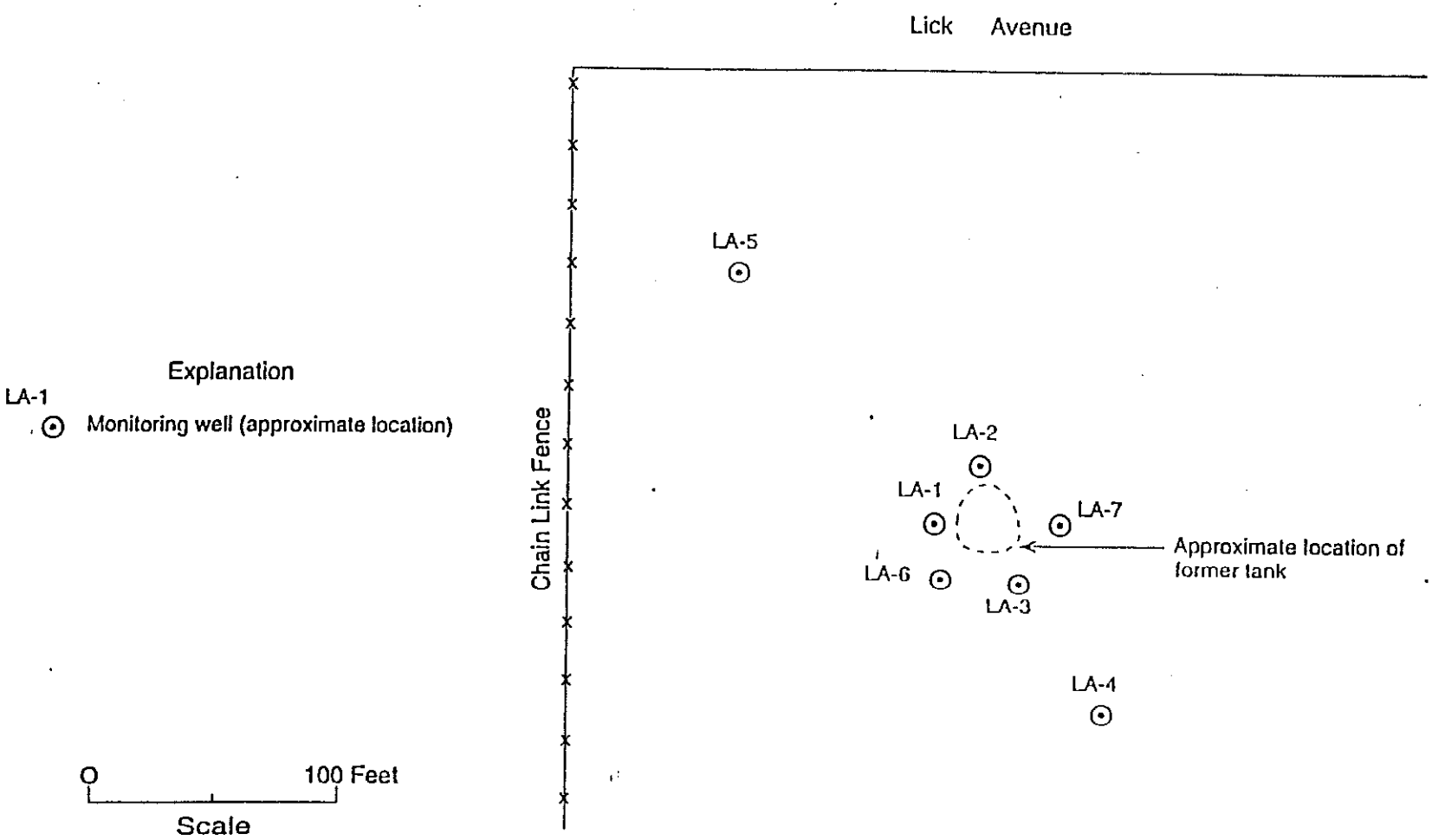


FIGURE 1: SITE MAP - PROJECT 1072B
Tamien Station Site at Lick Avenue, San Jose, California

le 2

Laboratory Analyses Results of Groundwater Samples, Tamien Station Site

(in micrograms per liter, µg/L/parts per billion, ppb)

Well	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TPH as Gasoline
LA-1	6/11/90	2.7	2.2	0.32	0.81	NA	ND (<30)
	11/20/90	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	3/8/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	7/5/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	9/25/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	12/18/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	9/10/93	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	2/17/94	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	11/16/94	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	2/26/95	0.9	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	5/12/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	8/7/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	11/17/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	2/26/96	0.91	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)[1]
	5/6/96	1.5	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	8/14/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<5.0)	ND (<50)
LA-2	6/11/90	39	26	4.2	14	NA	220
	11/20/90	5.4	0.81	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	3/8/91	4.3	1.1	ND (<0.3)	0.35	NA	ND (<30)
	3/8/91*	6.6	1.7	0.33	0.51	NA	38
	7/5/91	58	6.1	5.2	2.6	NA	300
	7/5/91*	56	6.3	5.3	3	NA	290
	9/25/91	1.6	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	16
	9/25/91*	2	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	14
	12/18/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	12/18/91*	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)

ATTACHMENT 3

le 2

Laboratory Analyses Results of Groundwater Samples, Tamien Station Site

(in micrograms per liter, µg/L/parts per billion, ppb)

Well	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TPH as Gasoline
	4/1/92	230	140	41	87	NA	2,400
	4/1/92*	220	140	39	82	NA	2,200
	6/26/92	130	75	36	58	NA	980
	6/26/92*	3.5	3.6	ND (<0.5)	45	NA	300
	8/17/92	46	13	10	9.4	NA	220
	8/17/92*	36	10	8.2	7.6	NA	200
	12/18/92	28	19	5.2	9.2	NA	150
	12/18/92*	21	14	4	7.4	NA	86
	3/24/93	770	110	270	230	NA	3,900
	3/24/93*	790	110	280	230	NA	4,000
	9/10/93	31	15	10	11	NA	320
	12/1/93	3.4	ND (<0.5)	ND (<0.5)	1.4	NA	130
	12/1/93*	5.7	ND (<0.5)	ND (<0.5)	1.3	NA	120
	2/17/94	0.81	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	5/20/94	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	11/16/94	7.6	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	81
	2/26/95	1,000	68	400	600	NA	7,900
	5/12/95	91	3.6	82	3.9	NA	1,400
	8/7/95	0.7	0.8	0.9	0.9	NA	310
	11/16/95	0.9	0.7	0.5	ND (<0.5)	NA	160
	2/26/96	180	ND (<0.5)	40	410	NA	3,000[1]
	5/6/96	28	1	24	22	NA	750
	8/14/96	3.6	0.57	2.7	3.3	ND (<5.0)	260
	12/16/96	20	0.74	20	19	ND (<5.0)	410
	2/19/97	21	1	18	9.7	ND (<5.0)	480

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Laboratory Analyses Results of Groundwater Samples, Tamien Station Site

(in micrograms per liter, µg/L/parts per billion, ppb)

Well	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TPH as Gasoline
LA-3	6/11/90	1.1	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	44
	11/20/90	0.7	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	3/8/91	1.5	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	35
	7/5/91	0.84	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	99**
	9/25/91	1.3	ND (<0.3)	ND (<0.3)	0.39	NA	31
	12/18/91	1.9	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	62
	4/1/92	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	270
	6/26/92	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	6/26/92*	3	0.6	ND (<0.5)	ND (<0.5)	NA	100
	8/17/92	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	54
	12/18/92	4.3	3.7	4	10	NA	97
	3/24/93	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	9/10/93	1.6	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	120
	12/1/93	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	5/20/94	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	11/16/94	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	2/26/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	80
	5/12/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	8/7/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	11/16/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	2/26/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)[1]
	5/6/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	55
	8/14/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<5.0)	ND (<50)
	12/16/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<5.0)	ND (<50)
	2/19/97	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<5.0)	ND (<50)

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Laboratory Analyses Results of Groundwater Samples, Tamien Station Site

(in micrograms per liter, µg/L/parts per billion, ppb)

Well	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TPH as Gasoline
LA-4	7/30/90	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	11/20/90	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	3/8/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	7/5/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	45
	9/25/91	ND (<0.3)	0.91	ND (<0.3)	1.6	NA	110
	12/18/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	4/1/92	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	6/26/92	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	8/17/92	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	9/10/93	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
LA-5	7/30/90	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	11/20/90	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	3/8/91	ND (<0.3)	0.44	ND (<0.3)	0.39	NA	ND (<30)
	7/5/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	9/25/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	12/18/91	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<30)
	9/10/93	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	9/10/93*	ND (<0.5)	ND (<0.5)	ND (<0.5)	0.54	NA	51

Laboratory Analyses Results of Groundwater Samples, Tamien Station Site

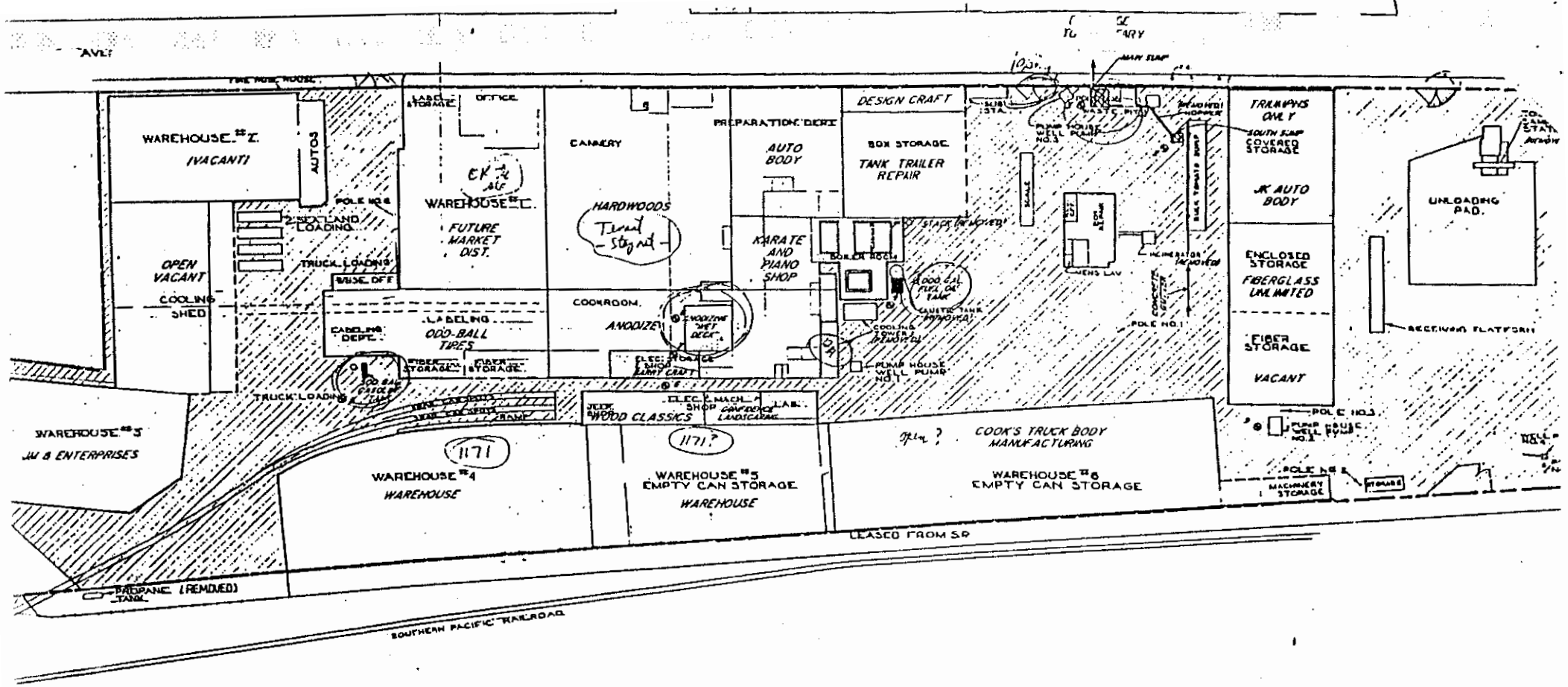
(in micrograms per liter, µg/L/parts per billion, ppb)

Well	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TPH as Gasoline
LA-6	9/23/94	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<50)
	11/16/94	2.8	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	2/26/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	5/12/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	8/7/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	0.8	NA	ND (<50)
	11/17/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	2/26/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)[1]
	5/6/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	8/14/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<5.0)	ND (<50)
	12/16/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<5.0)	ND (<50)
	2/19/97	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<5.0)	ND (<50)
LA-7	9/23/94	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	NA	ND (<50)
	11/16/94	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	2/26/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	5/12/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	8/7/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	11/17/95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	2/26/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)[1]
	5/6/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	ND (<50)
	8/14/96	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<5.0)	ND (<50)

Laboratory Analyses Results of Groundwater Samples, Tamien Station Site

(in micrograms per liter, µg/L/parts per billion, ppb)

TPH = Total petroleum hydrocarbons
ND (<50) = Not detected at or above the reported laboratory detection limit
NA = Not analyzed
MTBE = Methyl-tertiary-butyl-ether
* = Split sample
** = Lowney Associates reported possible non-fuel TPH compound
(1) = Analytical results for TPH as diesel (TPHd) were as follows: TPHd = ND (ND = <50 ug/L) for Wells LA-2, LA-3 and LA-7; 95 ug/L TPHd for LA-1; and 69 ug/L for LA-6. Hydrocarbons in the diesel range do not match the laboratory diesel standard, an indication of the presence of unknown hydrocarbons or weathered/biodegraded hydrocarbons.
1990-1994 data: Lowney Associates Report, "Fourth Quarter 1994 Groundwater Monitoring Report," 12/12/1994.
1995 data: Groundworks Environmental, Inc. Report SC2505, "Fourth Quarter 1995 Groundwater Monitoring Report," 01/26/1996.



LEGEND

- EXPLORATION DRILL HOLE
- BURIED FUEL TANK
- DRAINAGE SLIP
- YARD AREA

NOTES

VERTICAL LETTERING DENOTES PREVIOUS BUILDING & AREA USAGE BY CALIFORNIA CANNERS & GROWERS.

HEAVY LETTERING DENOTES CURRENT BUILDING & AREA USAGE BY TENANTS.

BASE MAP: CALIFORNIA CANNERS / PLANT NO. 8 BUILDING & PRO DATED 8-14-66 REVISED 6-6-

0 50 100
SCALE IN FEET

DATE MAY 8, 198 DRWN BY DPO CHKD APPD DFS

REVISIONS

NO	DATE	DRWN	CHKD	APPD	

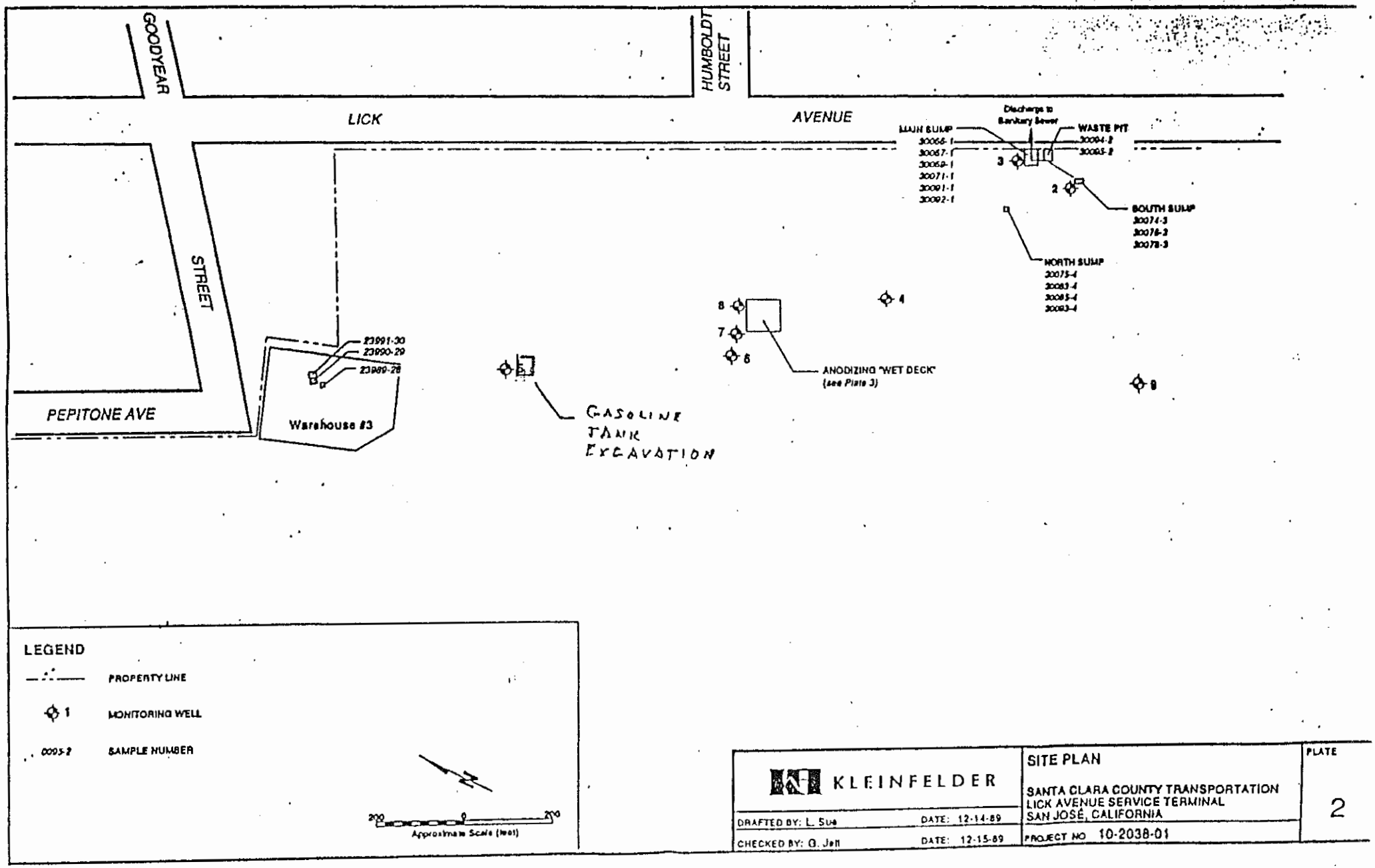
TERRATECH

SITE PLAN
PROPOSED ALMA TERR
SAN JOSE, CALIFORN

ATTACHMENT 4

Lick-Alma Site UFT Analyses

Date	Sample #	Material	Location	Depth	Analysis	Method	Quantity	MDL
12/29/89	71254-2	Soil	Bottom-center	6'	Oil/Grease	3550	425 mg/kg	20 mg/kg
					THC(g)	503E	20 mg/kg	-
					Benzene	8020	6.9 mg/kg	0.03 mg/kg
					Toluene	8020	40 mg/kg	0.03 mg/kg
					Ethylbenzene	8020	15 mg/kg	0.03 mg/kg
					Xylene	8020	81 mg/kg	0.03 mg/kg
					Methylene Chloride	8010	<0.03 mg/k	0.03 mg/kg
					1,1-dichloroethane	8010	<0.03 mg/k	0.03 mg/kg
					1,1-dichloroethene	8010	<0.03 mg/k	0.03 mg/kg
					Trans-1,2-dichloroethene	8010	<0.03 mg/k	0.03 mg/kg
					Chloroform	8010	<0.03 mg/k	0.03 mg/kg
					1,2-dichloroethane	8010	0.11 mg/kg	0.03 mg/kg
					1,1,1-trichloroethane	8010	<0.03 mg/k	0.03 mg/kg
					Carbon Tetrachloride	8010	<0.03 mg/k	0.03 mg/kg
					Bromo-dichloromethane	8010	<0.03 mg/k	0.03 mg/kg
					1,2-dichloropropene	8010	<0.03 mg/k	0.03 mg/kg
					Trichloroethene	8010	<0.03 mg/k	0.03 mg/kg
					Dibromo-chloromethane	8010	<0.03 mg/k	0.03 mg/kg
					1,1,2-trichloroethane	8010	<0.03 mg/k	0.03 mg/kg
					Trans-1,3-dichloropropen	8010	<0.03 mg/k	0.03 mg/kg
					2-chloro-ethyl vinyl ether	8010	<0.03 mg/k	0.03 mg/kg
					Bromoform	8010	<0.03 mg/k	0.03 mg/kg
					Tetrachloroethane	8010	<0.03 mg/k	0.03 mg/kg
					1,1,2,2-tetrachloroethane	8010	<0.03 mg/k	0.03 mg/kg
					Chlorobenzene	8010	<0.03 mg/k	0.03 mg/kg
					1,3-dichlorobenzene	8010	<0.03 mg/k	0.03 mg/kg
					1,2-dichlorobenzene	8010	<0.03 mg/k	0.03 mg/kg
					1,4-dichlorobenzene	8010	<0.03 mg/k	0.03 mg/kg
					Dichloro-difluoromethane	8010	<0.03 mg/k	0.03 mg/kg
					Trichloro-fluoromethane	8010	<0.03 mg/k	0.03 mg/kg
					Freon 113	8010	<0.03 mg/k	0.03 mg/kg
01/09/90	71269-1	Soil	West side	10'	THC(d)	LUFT	<10 mg/kg	10 mg/kg
					THC(g)	LUFT	210 mg/kg	20 mg/kg
					Benzene	8020	ND<0.03 m	0.03 mg/kg
					Toluene	8020	0.12 mg/kg	0.03 mg/kg
					Ethylbenzene	8020	0.11 mg/kg	0.03 mg/kg
					Xylene	8020	8 mg/kg	0.03 mg/kg
01/09/90	71269-2	Soil	East side	10'	THC(d)	LUFT	<10 mg/kg	10 mg/kg
					THC(g)	LUFT	320 mg/kg	10 mg/kg
					Benzene	8020	3.7 mg/kg	0.03 mg/kg
					Toluene	8020	14 mg/kg	0.03 mg/kg
					Ethylbenzene	8020	7.6 mg/kg	0.03 mg/kg
					Xylene	8020	43 mg/kg	0.03 mg/kg
01/26/90	71310-2	Soil	Bottom-north	14'	THC(d)	LUFT	<10 mg/kg	10 mg/kg
					THC(g)	LUFT	420 mg/kg	100 mg/kg
01/26/90	71310-3	Soil	Bottom-south	14'	THC(d)	LUFT	<10 mg/kg	10 mg/kg
					THC(g)	LUFT	<10 mg/kg	10 mg/kg
02/09/90	71346-1	Soil	Bottom-north	18'	THC(d)	LUFT	ND<10 mg/	10 mg/kg
					THC(g)	LUFT	ND<10 mg/	10 mg/kg
02/09/90	71346-2	Soil	Bottom-south	18'	THC(d)	LUFT	ND<10 mg/	10 mg/kg
					THC(g)	LUFT	ND<10 mg/	10 mg/kg
02/09/90	71346-3	Water	First 1300 gal.		THC(d)	LUFT	0.5 mg/l	<0.5 mg/l
					THC(g)	LUFT	45 mg/l	0.01 mg/l
02/09/90	71346-4	Water	Last 550 gal.		THC(d)	LUFT	<0.5 mg/l	<0.5 mg/l
					THC(g)	LUFT	4.8 mg/l	0.01 mg/l
03/09/90	71393-1	Soil	Remediation		THC(d)	LUFT	ND<10 mg/	10 mg/kg
			Site # 1		THC(g)	LUFT	ND<10 mg/	10 mg/kg
03/09/90	71393-2	Soil	Remediation		THC(d)	LUFT	ND<10 mg/	10 mg/kg
			Site # 2		THC(g)	LUFT	ND<10 mg/	10 mg/kg



KLEINFELDER

DRAFTED BY: L. Sue DATE: 12-14-89

CHECKED BY: G. Jett DATE: 12-15-89

SITE PLAN

SANTA CLARA COUNTY TRANSPORTATION
LICK AVENUE SERVICE TERMINAL
SAN JOSÉ, CALIFORNIA

PROJECT NO 10-2038-01

PLATE 2

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 12/29/89
Reported: 01/02/90
Job No #: 71254

Attn: Don Luka
Universal Engineering
P.O. Box 1306
Benicia, CA. 94510

Project: Ferma Corporation - Mountain View, CA.
Matrix: Soil

Aromatic Volatile Hydrocarbon Analysis:
EPA Method 8020
mg/kg

Lab ID	Client ID	Benzene	Toluene	MDL
71254-1	Bunker C	ND<0.03	ND<0.03	0.03
71254-2	Gasoline Tank	6.9	40	0.03

Lab ID	Client ID	Ethylbenzene	Xylene	MDL
71254-1	Bunker C	ND<0.03	ND<0.03	0.03
71254-2	Gasoline Tank	15	81	0.03

QA/QC: Spike Recovery for Benzene: 106%
Spike Recovery for Toluene: 99%
Spike Recovery for O-Xylene: 97%

MDL: Method detection limit; Compound below this level would not be detected.

Surinder Sidhu (for)
Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

2-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 12/29/89
Reported: 01/03/89
Job No #: 71254

Attn: Don Luke
Universal Engineering
P. O. Box 1306
Benicia, CA. 94510

Project: Ferma Corporation - Mountain View, CA.
Matrix: Soil

Oil & Grease Analysis
mg/kg

Lab ID	Client ID	Method 3550	MDL	Method 503E Hydrocarbon
71254-1	Bunker C Tank	20	20	10
71254-2	Gasoline Tank	425	20	20

MDL: Method detection limit: Compound below this level would not be detected.

Jaminder Sidhu (for)
Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

Universal Engineering
Job No. 71254

Lab ID	Client ID	Bromo-dichloro-methane	1,2-dichloro-propene	Tri-Chloro-ethene	Dibromo-chloro-methane	MDL
71254-1	Bunker C	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71254-2	Gas Tank	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	1,1,2-Trichloro-ethane	Trans-1,3 dichloro-propene	2-chloro-ethyl vinyl ether	Bromo-form	MDL
71254-1	Bunker C	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71254-2	Gas Tank	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	Tetra-chloro-ethane	1,1,2,2 Tetra-chloro-ethane	Chloro-benzene	1,3 Dichloro-benzene	MDL
71254-1	Bunker C	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71254-2	Gas Tank	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	1,2-Dichloro-benzene	1,4-Dichloro-benzene	Dichloro-difluoro-methane	Trichloro-fluoro-methane	MDL
71254-1	Bunker C	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71254-2	Gas Tank	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	Freon 113	MDL
71254-1	Bunker C	ND<0.03	0.03
71254-2	Gas Tank	ND<0.03	0.03

TABLE 1
EXPLORATION AND TESTING SCHEDULE
(proposed schedule shown in parenthesis)

DRILL HOLE #	LOCATION	DEPTH (feet)	HOLE TYPE	SOIL ANALYSIS #	SOIL ANALYSIS TYPE	WATER ANALYSIS
1	Upgradient	29.5	TMW	1	M,pH,C	M,V
(7)	(same)	(25)	(same)	(1)	(M)	(Hc,M,S)
2	South sump	29.5	TMW	1	M,V,O&G	M,V
(1)	(cooling tower)	(25)	(same)	(1)	(M)	(M)
3	Main sump	29.5	TMW	1	M,V,O&G	M,V,O&G,C
(5)	(same)	(25)	(same)	(1)	(same)	(Hc,M,S)
4	Fuel oil tank	29.5	TMW	2	Hc	Hc
(3)	(same)	(25)	(same)	(2)	(same)	(same)
5	Gasoline tank	29.5	TMW	2	Hc, Lead	Hc, Lead
(2)	(same)	(25)	(same)	(2)	(Hc)	(Hc)
6,7,8	Anodizing plant	1.5-3.5	Soil	3	M,pH,C	—
(4)	(same, but 1 hole)	(5-10)	(same)	(1)	(M)	
9	Paint shop yard	6	Soil	1	M*,pH,V	—
(6)	(same)	(5-10)	(same)	(1)	(V)	

KEY:

TMW - Temporary monitoring well
Hc - Hydrocarbons (including BTX)
C - Cyanide
O&G - Oil and grease
M - Metals (M* - partial metals)
S - Solvents
V - Volatile organics (includes benzene and toulene)

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYSIS RESULTS
(all values are in parts per million - ppm)

EXPLORATION DRILL HOLE
(depth)

CONTAMINANT	DH-1 (2')	DH-2 (10')	DH-3 (15')	DH-4 (2')	DH-4 (15')	DH-5 (2')	DH-5 (15')	DH-6 (2.5')	DH-7 (6-12")	DH-8 (6-24")	DH-9 (5')	TTLC * Limit
LS												
Antimony	15	18	20	--	--	--	--	16	19	15	--	500
Arsenic	15	14	21	--	--	--	--	13	8.9	15	--	500
rium	220	--	--	--	--	--	--	270	320	250	--	10,000
eryllium	0.30	0.20	0.40	--	--	--	--	0.30	0.30	0.10	--	75
Cadmium	1.0	0.90	1.2	--	--	--	--	1.2	1.3	1.6	1.3	100
romium (VI)	< 0.05	--	--	--	--	--	--	< 0.05	< 0.05	< 0.05	--	500
romium (III)	140	140	110	--	--	--	--	110	110	30	120	2,500
Cobalt	27	--	--	--	--	--	--	22	21	13	--	8,000
pper	38	47	38	--	--	--	--	40	42	120	--	2,500
uoride	1.1	--	--	--	--	--	--	1.6	< 1	< 1	--	18,000
Lead	9.0	4.0	7.7	--	--	9.0	8.7	58	16	350 **	4.5	1,000
rcury	2.4	0.20	0.13	--	--	--	--	2.9	0.20	0.30	--	20
lybdenum	3.0	--	--	--	--	--	--	2.0	2.0	3.0	--	3,500
Nickel	220	150	190	--	--	--	--	180	170	51	--	2,000
lenium	2.5	1.9	3.5	--	--	--	--	2.6	2.6	2.6	--	100
lver	1.2	--	--	--	--	--	--	1.3	1.5	1.1	--	500
Thallium	9.5	1.1	1.7	--	--	--	--	8.7	10	6.5	--	700
Vanadium	88	8.3	11	--	--	--	--	75	78	76	--	2,400
nc	70	67	74	--	--	--	--	120	120	400	53	5,000
ynOCARBONS												
Waste Oil	--	< 30	< 30	--	--	--	--	--	--	--	--	--
tal as Gasoline	--	--	--	--	--	2.3	22	--	--	--	--	--
tal as Diesel	--	--	--	< 1.0	< 1.0	--	--	--	--	--	--	--
Benzene	--	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	--	--	--	< 0.05	--
ulene	--	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	--	--	--	< 0.05	--
lenes	--	--	--	< 0.1	< 0.1	< 0.1	0.68	--	--	--	--	--
OTHER												
latiles ***	N.D.	N.D.	N.D.	--	--	--	--	--	--	--	N.D.	--
anide	< 0.2	--	--	--	--	--	--	< 0.2	< 0.2	< 0.2	--	--
pH	8.6	--	--	--	--	--	--	8.8	9.3	9.3	9.3	--

NOTES:

* - Total Threshold Limit Concentration:
California Assessment Manual, classification of hazardous wastes

** - Soluble Threshold Limit Concentration (STLC) for this sample was 12 mg/l
The hazardous STLC for lead is 5 mg/l

*** - EPA Priority Pollutant List: Methods 8010 & 8020, N.D. = Not Detected

TABLE 3
SUMMARY OF GROUND WATER ANALYSIS RESULTS
(all values are in mg/l)

CONTAMINANT	EXPLORATION DRILL HOLE DH-1	DH-2	DH-3	DH-4	DH-5	CALIFORNIA ACTION LEVELS	U.S. DRINKING WATER STANDARDS
METALS							
Antimony	< 0.5	< 0.5	< 0.5	--	--	--	--
Arsenic	< 0.01	< 0.01	< 0.01	--	--	--	0.05
Beryllium	< 0.01	< 0.01	< 0.01	--	--	--	--
Cadmium	< 0.01	< 0.01	< 0.01	--	--	--	0.01
Chromium	< 0.005	0.045	< 0.005	--	0.013	--	0.05
Copper	< 0.1	0.10	< 0.1	--	--	--	1.0 *
Lead	< 0.005	0.020	< 0.005	--	--	--	0.05
Mercury	< 0.001	< 0.001	< 0.001	--	--	--	0.002
Nickel	0.07	0.17	0.10	--	--	--	--
Selenium	< 0.01	< 0.01	< 0.01	--	--	--	0.01
Silver	< 0.02	< 0.02	< 0.02	--	--	--	0.05
Thallium	< 0.5	< 0.5	< 0.5	--	--	--	--
Zinc	< 0.05	0.13	0.06	--	--	--	5.0 *
HYDROCARBONS							
Total as Gasoline	--	--	--	--	< 0.050	--	--
Total as Diesel	--	--	--	< 1.0	--	--	--
Benzene	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0007	--
Toulene	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.100	--
Xylenes	--	--	--	< 0.0005	< 0.0005	0.620	--
OTHER							
Volatiles **	N.D.	N.D.	N.D.	--	--	(various)	--
Cyanide	--	--	< 0.02	--	--	--	--
Oil & Grease	--	--	< 5	--	--	--	--

NOTES:

* - Secondary standard
** - EPA Priority Pollutant List: Methods 601 & 602
N.D. = Not Detected

REPORT TO
SANTA CLARA COUNTY TRANSIT DISTRICT
ON THE
ALMA TERMINAL CONTAMINATION INVESTIGATION

PROJECT 4187

For

Santa Clara County Transit District
1555 Berger Drive
San Jose, California 95112

By

TERRATECH, INC.
1365 Vander Way
San Jose, California 95112

May 1987

TABLE 4
SUMMARY OF ESTIMATED CLEANUP COSTS

ITEM		AMOUNT
1. **Soil Contamination, Anodizing Area**		
Excavate contaminated soil, haul and dispose at Class I site. No concrete removal or backfill included.		
200 cy @ $360/cy		$ 72,000
2. Soil Contamination, Underground Gasoline Storage Tank		
Excavate contaminated soil, spread on concrete area to aerate, backfill on-site. No concrete removal included.		
200 cy @ $50/cy		10,000
3. **Sludge Disposal, 2 Sumps**		
Vacuum truck, haul and dispose at Class I site		
500 gal. @ $10/gal.		5,000
4. **Fuel Tank Removals, one 500-gallon, one 18,000-gallon**		
Break-out concrete, remove and dispose of tanks. Backfill with pea gravel.		17,000
5. **Well Closures, 4 deep wells, 500 to 550 ft. depth**		
Perforate and grout per SCVWD Ordinance.		35,000
6. **Asbestos Abatement (see Appendix D)**		
Boilers 1, 2, 3 & 4	$504,000	
Additional for Boilers 1 & 2 (if required)	71,000	
Piping	73,000	
		648,000
TOTAL ESTIMATED COST		$787,000

CONTAMINATION INVESTIGATION
ALMA TERMINAL SITE
SAN JOSE, CALIFORNIA

INTRODUCTION

This report presents the findings and conclusions of our contamination investigation of the 11+ acre Alma Terminal site in San Jose, California (see Figure 1). The Santa Clara County Transit District is considering the purchase and development of this site into a multimodal transit facility. The objective of this investigation is to determine the existence, if any, of soil and ground water contamination or hazardous materials on the site and to provide an estimate for cleanup. Discussions and cost estimates for properly sealing on-site wells and removing buried tanks are also provided.

STATEMENT OF WORK

The main items of work that were performed for this investigation are listed below. A more elaborate description of the activities is provided in subsequent sections of the report.

1. Obtained and reviewed information from various government agencies regarding the environmental conditions in the vicinity of the site.

2. Copied and reviewed engineering drawings of the site obtained from the current property owner.

3. Contacted the former cannery superintendent to gain information on the previous activities.

4. Inspected the yard areas and building interiors to identify areas of potential contamination.

5. Sampled the soil and ground water from areas determined to have the highest potential for contamination. In addition, materials from one "background" exploration hole were sampled.

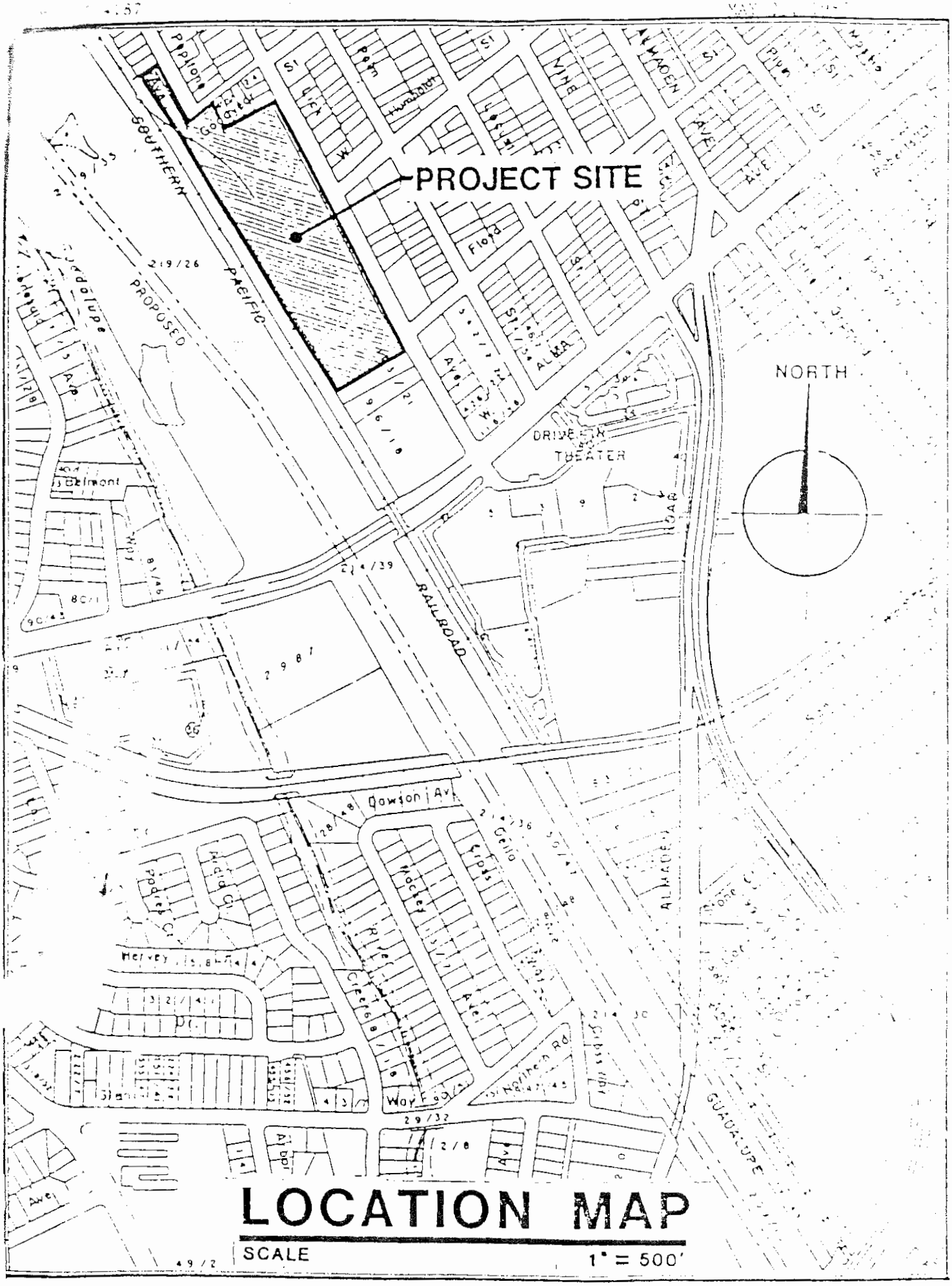
6. Analyzed selected samples for pertinent metals and chemical compounds at a state certified laboratory.

7. Reviewed field and laboratory data to assess identified subsurface contamination and estimated cleanup costs based on established remediation methods.

8. Reviewed Santa Clara Valley Water District well closure requirements and contacted two licensed well drilling contractors for cost estimates.

9. Retained the services of a certified industrial hygienist to determine the asbestos hazard and to estimate a cost for cleanup.

10. Prepared this report.



LOCATION MAP

SCALE 1" = 500'

TERRATECH, INC.

SITE DESCRIPTION AND HISTORY

Site Description

The Alma Terminal site is bounded by the Southern Pacific Railroad line to the west and Lick Avenue to the east for the interval between Goodyear and Floyd Streets (see Figure 2). In addition to the primary building on the site, fronting on Lick Avenue, there are three large warehouse structures to the south, west and north and a couple of smaller buildings on the east side of Pepitone Avenue. The floors of these buildings and the surrounding yard areas are paved with Portland cement concrete. The only areas of bare soil are around pump house #2 and along the railroad spur.

The yard drainage from the northern side of the southern warehouse tends toward the south sump. Overflow from this sump flows to the main sump. Floor drains in the main building and the balance of the yard drainage to the south and west flows directly to the main sump. Overflow from the main sump goes into the City sewer system. The rest of the site drainage goes to either the sanitary or storm sewer or infiltrates in the areas of bare ground described previously.

Areal Setting

The Alma Terminal site is located in a predominantly residential area of San Jose that also includes some small businesses. Typical businesses in the area include service contractors, an ice cream truck distributor, a bowling alley, and automotive repair shops. These businesses do not appear to be storing or using significant quantities of hazardous materials.

The primary risk to the Alma Terminal site from offsite contamination would be through transport in the shallow ground water. In this area of San Jose the uppermost ground water occurs at a depth of between 10 and 25 feet. This perched aquifer has a gradient tending to the north and west. Although we observed a fuel pump at the business on the eastern corner of Floyd Street and Lick Avenue, there is no record in the Santa Clara Valley Water District (SCVWD) database of a monitoring well being on that property. The only monitoring wells on the SCVWD database within a half mile of the site are two at 1545 Almaden Road (presumably to monitor underground fuel storage). According to the January-March 1987 edition of the Regional Water Quality Control Board's "Site Management System" report, there are no known ground water contamination plumes within a half mile of the site.

Current Site Usage

Numerous tenants are leasing space from the current property owner through Regency Monarch Development Corporation. The tenants use their lease space for: mechanical repair, body repair and painting of autos and trucks; truck body manufacturing; fiberglass repair; wood working and machine shops; forklift repair; piano repair; storage of landscaping supplies; anodizing; used tire storage; yard storage of vehicles and equipment; and, general warehousing.

Accompanied by personnel from the County Transportation Agency, we conducted two walk-through inspections of the Alma Terminal property; the first of which was on January 9, 1987 and the second on April 9, 1987. Hazardous materials stored and used by the current tennants include; degreasers, motor oil, lubricants, paints, metallic anodizing liquids and small volumes of hydrocarbon fuels. Inadequate segregation and storage facilities for these materials are provided, and violations of fire department ordinances are evident. Discharges of these liquids, especially crankcase drainings, onto the concrete pavements, bare ground and into the drainage system are apparent.

Previous Cannery

Before the current owners purchased it on September 12, 1984, the Alma Terminal site was California Canners and Growers' Plant #2. A one inch equals fifty foot scale drawing of the cannery, obtained from the present owner, was used as a base map for our site plan. This drawing provides an overview of what activities were performed where in the 1960's and 70's.

After some investigative work, we were able to locate the superintendent of the cannery, Mr. Victor Merlino, who provided us with the following valuable information on previous site activities. The cannery had been in operation for over 40 years, processing a variety of fruits and vegetables.

The water supply for the cannery consisted of four on-site wells. According to the SCVWD database, driller's logs of three of the four wells are on file at the SCVWD office. Based on our conversations with Mr. Merlino and the SCVWD database information, the wells are apparently 500 to 550 feet deep.

The cannery had four, gas-fired, steam boilers for cooking and food processing. The four boilers are located in the boiler room which is currently locked and not used for lease space. A buried fuel oil storage tank was available for standby use to feed the boilers when gas service was interrupted. This 18,000 gallon steel tank, located outside the southern wall of the boiler room, was installed in 1941. Boiler feedwater treatment included addition of tannins and monosodium phosphate to reduce scaling of the boiler tubes and sulfite for deaeration. Blowdown was discharged to the sewer system. Water going into the two cooling towers (since removed) was treated with chlorine to prevent algae growth. No chromates were used.

Cannery vehicles were powered by either propane or regular gasoline. The propane tank (since removed) was located near the railroad spur. A single, buried, 500 gallon gasoline tank is located outside the northwest corner of the main cannery building.

No pesticides were kept on-site. Rather, outside pest control companies were contracted to periodically spray for insects and to set bait for rodents.

SUBSURFACE EXPLORATION AND TESTING

Rationale Behind Selected Locations and Tests

Based on our research and two site inspections, we selected nine locations at which to conduct subsurface exploration. Table 1 presents a comparison of the proposed exploration and testing schedule (as presented in the project Agreement) and the actual program that was performed. The optional cooling tower hole was moved to the south sump area which was deemed as having a much higher potential for contamination. To provide better areal coverage, three shallow holes, rather than one, were sampled around the anodizing facility. The testing schedule was expanding accordingly. As the water table was found to be at a depth of about 20 feet rather than the anticipated 15 feet, all temporary monitoring well holes were extended to 29 1/2 feet.

The location of drill hole 1 was selected to provide background information on soil chemistry and "upgradient" ground water quality. It was also felt that any significant plume originating from the buried fuel tank on the opposite side of Lick Avenue would be detected at this location. This tank was the only off-site item found to be a potential contamination threat to the subject site.

Drill holes 2 and 3 were located to examine the possibility of sump leakage into the surrounding soil and into the underlying ground water. The south sump was measured to be 7 feet deep and the main sump, 12 1/2 feet deep.

Drill holes 4 and 5 were located to examine possible hydrocarbon contamination of the soil and ground water emanating from the fuel oil and gasoline tanks, respectively. An overhead power line restricted access to drilling directly next to the gasoline tank. The bottom of the fuel oil tank is at a depth of about 15 feet and the gasoline tank, about 10 feet. At the time of our exploration activities there was about 3 feet of product remaining in the gasoline tank and about 4 feet of contaminated water in the fuel oil tank.

Drill holes 6 through 8 were located to examine possible metal contamination of the near-surface soils beneath the floor slab from the ongoing anodizing operation. Since metals tend to readily fixate in soil and the anodizing operation was relatively new, the ground water was not sampled.

Drill hole 9 was located in a low spot of the bare ground around the open paint shop area. As all hazardous materials in this area are used and stored (and potentially spilled) above ground, only the shallow soils and not the ground water were sampled here.

Sampling Procedures

Subsurface exploration and sampling activities were conducted on April 13 and April 14, 1987. Drill holes 1 through 6, and 9 were made using a CME 55 truck mounted drill rig with 8 inch diameter hollow stem augers. Soil samples were collected in clean, new 4 inch brass liners loaded into a Modified California split-spoon sampler. The liners containing soil to be analyzed were immediately sealed with taped, end caps lined with aluminum foil and placed in an ice chest. The soils in holes 7 and 8 were sampled by hand digging and hand augering. The augers and drill bit were steam cleaned between holes and the split spoon sampler was cleaned with a TSP solution between sampling drives. The lithology of the hole was logged by a geologist who examined the soil samples and cuttings.

The five holes to be used as temporary monitoring wells were extended 10 feet into the first water table. A well casing of solid and slotted 2" PVC was placed in the annulus of the augers prior to their removal from the hole. Bagged sand was poured into the boring to provide a well pack around the slotted interval of casing. 20 to 30 gallons of water were pumped from the well using a 1.7" Brainard-Kilman hand pump. Following a ten to thirty minute period of equalization, water samples were taken using an acrylic bailer with a bottom check-valve. The hand pump was steam cleaned and bailer cleaned with a TSP solution between holes. At the completion of sampling activities, the casings were pulled out and the holes sealed with a lean mixture of Sakcrete. No holes were left open overnite. Well construction and closing activities were observed by a member of the SCVWD staff.

Split samples of soil and ground water were provided to a representative of Emcon Associates. Emcon is acting as the environmental consultant for the current property owners.

Subsurface Conditions

As mentioned previously, the majority of the site is capped by concrete slabs and pavement. The concrete slab was found to be typically 6 inches thick but some locations up to 9 inches thick. The generalized soil profile within the 30 foot maximum depth of exploration consists of about 15 feet of interbedded SILTS and GRAVELS underlain by silty CLAY. A more detailed description of the subsurface conditions is presented on the drill hole logs in Appendix A.

Other than slight hydrocarbon odors from some of the soil samples and from the ground water during development from drill hole 5, no evidence of contamination was perceived during subsurface exploration and sampling activities.

A surveyors level and rod were used to establish the elevations of the ground or slab surface at each drill hole. City benchmark RM-487, elevation 104.83', located on the southwest corner of Goodyear and Vine was used as a reference.

Ground water was encountered at a depth of about 18 to 20 feet and its level stayed relatively constant throughout the period the holes were open. Computing the respective elevations of the water table surface confirmed the generally accepted direction of shallow ground water flow for the area. The water table was about 3 feet lower in well 5 than in well 1, roughly 1000 feet away.

Laboratory Procedures

Soil and ground water analyses were performed using pertinent State and EPA approved procedures by Sequoia Analytical Laboratories in Redwood City, California. The main contaminants tested for were metals, hydrocarbons and volatile organics.

Concentrations of metals in soil samples were analyzed using the California "Waste Extraction Test (WET)" Procedures developed to identify hazardous solid wastes [Reference 1]. According to these procedures, the sample is initially tested for the Total Threshold Limit Concentration (TTLC) for each metal requested. If a TTLC exceeds the corresponding Soluble Threshold Limit Concentration (STLC) Limit established by the State, the STLC analysis is performed. Samples found to contain a substance which under TTLC testing exceeds the TTLC Limit or under STLC testing exceeds the STLC Limit are considered hazardous wastes. Determination of metal concentrations in ground water samples was made by atomic absorption.

Hydrocarbon concentrations in soil samples were determined by combining appropriate EPA extraction and detection methods. Methods 3550 and 5020 were used for extraction and Methods 8015 and 8020 were used for detection. Soil samples taken next to the two sumps were analyzed for waste oil using procedure 503E presented in "Standard Methods". The concentration of total hydrocarbons as diesel in the ground water sample from drill hole 2 was analyzed using EPA Methods 3510 and 8015. Total hydrocarbons as gasoline and BTX were analyzed using EPA Method 602 for ground water samples.

Volatile organic compounds included in the EPA Priority Pollutant List were analyzed using EPA Methods 8010 and 8020 for soil and EPA Methods 601 and 602 for ground water.

Analysis Results

A summary of the results of the soil sample analyses is presented in Table 2. A summary of the results of the ground water sample analyses is presented in Table 3. The laboratory reports are presented in Appendix B.

Approximately half of the TTLC values for metals were found to be higher than their corresponding STLC Limits. Concentrations of nickel are rather high throughout the site but not at hazardous levels. Mercury and selenium are two metals that occur naturally in this area at elevated concentrations, but also were not at hazardous levels. The near-surface soils around the anodizing facility were found to have elevated levels of lead and zinc. The level of lead in the sample from hole 8 was found to be hazardous. The concentration of copper was also high, but not hazardous.

TABLE 1
EXPLORATION AND TESTING SCHEDULE
(proposed schedule shown in parenthesis)

DRILL HOLE #	LOCATION	DEPTH (feet)	HOLE TYPE	SOIL ANALYSIS #	SOIL ANALYSIS TYPE	WATER ANALYSIS
1 (7)	Upgradient (same)	29.5 (25)	TMW (same)	1 (1)	M,pH,C (M)	M,V (Hc,M,S)
2 (1)	South sump (cooling tower)	29.5 (25)	TMW (same)	1 (1)	M,V,O&G (M)	M,V (M)
3 (5)	Main sump (same)	29.5 (25)	TMW (same)	1 (1)	M,V,O&G (same)	M,V,O&G,C (Hc,M,S)
4 (3)	Fuel oil tank (same)	29.5 (25)	TMW (same)	2 (2)	Hc (same)	Hc (same)
5 (2)	Gasoline tank (same)	29.5 (25)	TMW (same)	2 (2)	Hc, Lead (Hc)	Hc, Lead (Hc)
6,7,8 (4)	Anodizing plant (same, but 1 hole)	1.5-3.5 (5-10)	Soil (same)	3 (1)	M,pH,C (M)	--
9 (6)	Paint shop yard (same)	6 (5-10)	Soil (same)	1 (1)	M*,pH,V (V)	--

KEY:

TMW - Temporary monitoring well
Hc - Hydrocarbons (including BTX)
C - Cyanide
O&G - Oil and grease
M - Metals (M* - partial metals)
S - Solvents
V - Volatile organics (includes benzene and toulene)

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYSIS RESULTS
(all values are in parts per million - ppm)

EXPLORATION DRILL HOLE
(depth)

CONTAMINANT	DH-1 (2')	DH-2 (10')	DH-3 (15')	DH-4 (2')	DH-4 (15')	DH-5 (2')	DH-5 (15')	DH-6 (2.5')	DH-7 (6-12")	DH-8 (6-24")	DH-9 (5')	TTLC * Limit
METALS												
Antimony	15	18	20	--	--	--	--	16	19	15	--	500
Arsenic	15	14	21	--	--	--	--	13	8.9	15	--	500
Barium	220	--	--	--	--	--	--	270	320	25	--	10,000
Beryllium	0.30	0.20	0.40	--	--	--	--	0.20	0.30	0.10	--	75
Cadmium	1.0	0.90	1.2	--	--	--	--	1.2	1.3	1.6	1.3	100
Chromium (VI)	< 0.05	--	--	--	--	--	--	< 0.05	< 0.05	< 0.05	--	500
Chromium (III)	140	140	110	--	--	--	--	110	110	30	120	2,500
Cobalt	27	--	--	--	--	--	--	22	21	17	--	8,000
Copper	38	47	38	--	--	--	--	40	42	120	--	2,500
Fluoride	1.1	--	--	--	--	--	--	1.6	< 1	< 1	--	18,000
Lead	9.0	4.0	7.7	--	--	9.0	8.7	58	15	350 **	4.5	1,000
Mercury	2.4	0.20	0.13	--	--	--	--	2.9	0.20	0.30	--	20
Molybdenum	3.0	--	--	--	--	--	--	2.0	2.0	3.0	--	3,500
Nickel	220	150	190	--	--	--	--	180	170	51	--	2,000
Selenium	2.5	1.9	3.5	--	--	--	--	2.6	2.6	2.6	--	100
Silver	1.2	--	--	--	--	--	--	1.2	1.5	1.1	--	500
Thallium	9.5	1.1	1.7	--	--	--	--	8.7	10	6.5	--	700
Vanadium	85	8.3	11	--	--	--	--	75	78	76	--	2,400
Zinc	70	67	74	--	--	--	--	120	120	40	50	5,000
HYDROCARBONS												
Waste Oil	--	< 30	< 30	--	--	--	--	--	--	--	--	--
Total Gasoline	--	--	--	--	--	2.3	22	--	--	--	--	--
Total Diesel	--	--	--	< 1.0	< 1.0	--	--	--	--	--	--	--
Benzene	--	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	0.1	--	--	--	< 0.05	--
Toluene	--	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	--	--	--	0.05	--
Xylene	--	--	--	< 0.1	< 0.1	< 0.1	0.68	--	--	--	--	--
[illegible]												
Cyanides ***	N.D.	N.D.	N.D.	--	--	--	--	--	--	--	N.D.	--
Sulfide	< 0.2	--	--	--	--	--	--	< 0.2	< 0.2	< 0.2	--	--
pH	8.6	--	--	--	--	--	--	8.9	9.2	9.2	9.2	--

NOTES:

* - Total Threshold Limit Concentration:
California Assessment Manual, classification of hazardous wastes

** - Soluble Threshold Limit Concentration (STLC) for this sample was 12 mg/l
The hazardous STLC for lead is 5 mg/l

*** - EPA Priority Pollutant List: Methods 8010 & 8020, N.D. = Not Detected

TABLE 3
SUMMARY OF GROUND WATER ANALYSIS RESULTS
(all values are in mg/l)

EXPLORATION DRILL HOLE

CONTAMINANT	DH-1	DH-2	DH-3	DH-4	DH-5	CALIFORNIA ACTION LEVELS	U.S. DRINKING WATER STANDARDS
METALS							
Antimony	< 0.5	< 0.5	< 0.5	--	--	--	--
Arsenic	< 0.01	< 0.01	< 0.01	--	--	--	0.05
Beryllium	< 0.01	< 0.01	< 0.01	--	--	--	--
Cadmium	< 0.01	< 0.01	< 0.01	--	--	--	0.01
Chromium	< 0.005	0.045	< 0.005	--	0.013	--	0.05
Copper	< 0.1	0.10	< 0.1	--	--	--	1.0 *
Lead	< 0.005	0.020	< 0.005	--	--	0.015	0.05
Mercury	< 0.001	< 0.001	< 0.001	--	--	--	0.002
Nickel	0.07	0.17	0.10	--	--	0.1 --	Cal MCL 0.1
Selenium	< 0.01	< 0.01	< 0.01	--	--	--	0.01
Silver	< 0.02	< 0.02	< 0.02	--	--	--	0.05
Thallium	< 0.5	< 0.5	< 0.5	--	--	--	--
Zinc	< 0.05	0.13	0.04	--	--	--	5.0 *
HYDROCARBONS							
Total as Gasoline	--	--	--	--	< 0.050	--	--
Total as Diesel	--	--	--	< 1.0	--	--	--
Benzene	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0007	--
Toluene	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.100	--
Xylenes	--	--	--	< 0.0005	< 0.0005	0.620	--
OTHER							
Volatiles **	N.D.	N.D.	N.D.	--	--	(various)	--
Cyanide	--	--	< 0.02	--	--	--	--
Oil & Grease	--	--	< 5	--	--	--	--

NOTES:

* - Secondary standard

** - EPA Priority Pollutant List; Methods 601 & 602

N.D. = Not Detected

Detectable concentrations of hydrocarbons were found at both 2 and 15 foot depths in drill hole 5, northwest of the buried gasoline tank. No evidence of leakage from the fuel oil tank was found in drill hole 4. No volatile organics or cyanide were detected in the samples analyzed. The pH tests indicate that the soil is neutral to slightly alkaline and not suspiciously abnormal.

Detectable concentrations of nickel were also found in the samples of the shallow ground water. Slightly elevated (2 to 4 times the detection limit) levels of lead were found in the water from drill holes 2 and 5. Likewise, the level of zinc was slightly elevated in hole 2. The level of chromium was 9 times higher in the water from drill hole 2. None of the concentrations of metals found exceed the U.S. Drinking Water Standards. Hydrocarbons, volatile organics, cyanide, and oil and grease were not detected in the ground water samples.

SOIL AND GROUND WATER CLEANUP

Two areas of soil contamination were identified from this investigation of the Alma Terminal site. Both of these areas will require remedial action. No significant ground water contamination was identified.

The first area of soil contamination is around the buried 500 gallon gasoline tank. Although the maximum total hydrocarbon concentration measured was 22 ppm, the concentrations are undoubtably higher in areas closer to the tank. According to RWQCB guidelines, all soil containing over 1000 ppm total hydrocarbons must be excavated and soil with concentrations between 100 ppm and 1000 ppm may need to be removed.

Subject to a permit from the Bay Area Air Management District, the gasoline contaminated soil can be readily cleaned by on-site aeration to concentrations below 100 ppm. This site has plenty of area to spread the excavated soil out. After spreading, little to no additional working should be needed. When analyses and authorities confirm the material is clean enough, it can be used to backfill the excavation. Avoiding the rainy season is critical to this remediation procedure. Any rain or threat of rain will require covering the contaminated soil to prevent polluted runoff.

The second area of soil contamination is the near-surface material around the anodizing facility. Although only 1 of our samples was found to hazardous, the concentrations directly under the wet deck are probably higher.

Removal of excess metals from soils is not as straightforward. For the relatively small volume of hazardous soil involved, an estimated 200 cubic yards, setting up an on-site treatment process would not be cost effective. Rather, the material should be hauled to a suitable waste disposal site to be processed and disposed of. The sludge from the sumps should be similarly treated. All waste haulers should be properly licensed and the waste properly manifested.

In addition to the above, there are two other related items of cleanup that will need to be performed. The first is the sludge that has accumulated in the bottoms of the sumps that is undoubtably contaminated and subject to proper disposal. We estimate this volume of contaminated sludge to be less than 500 gallons.

The second item is the excavation and removal of the two buried fuel tanks. Buried fuel tank removals are performed by several contractors in the Bay Area. The operation will involve: pumping out all remaining liquid; packing the tank with an inert gas; removing the overlying concrete and soil; pulling the tank; properly disposing the tank; analyzing the excavated and underlying soil for contamination; and, if clean, backfilling the hole. Contaminated soil will have to be excavated and aerated in accordance with fire department and air board guidelines aimiliarly to previous discussion. If there is sufficient suspicion of contamination, more ground water testing may also be required.

CLOSURE OF EXISTING WELLS

If any or all of the existing four on-site wells are not going to revived for use in conjunction with Alma Terminal, they will need to be sealed in accordance the latest SCVWD guidelines [Reference 2]. Copies of these well abandonment guidelines are available from the SCVWD. In addition to the well casing itself, any surrounding sand or gravel pack must be grouted. According to the SCVWD classification system, the Alma Terminal site is in Zone 1 and the corresponding set of specific guidelines would apply.

The details of construction of these wells are unknown, thus making the cost of proper closure difficult to estimate; and so, a cost range was obtained. Two well drilling companies, Maggiora Brothers and Layne-Western, were contacted to provide cost estimates for properly closing the four on-site wells (see Appendix C). Maggiora Brothers have done a lot of work in the Santa Clara Valley and have worked on previous SCVWD well closure contracts. Layne-Western recently received a contract from the SCVWD to do numerous closures, so they will have crews in the area that will be gaining a lot of experience on the latest procedures.

ASBESTOS SURVEY

Asbestos specialist Robert E. Gils and Associates was retained to provide an assessment of the scope and costs of an asbestos cleanup of the Alma Terminal site. Mr. Gils made a visual appraisal of the buildings and grounds during an inspection with Terratech, Inc. on April 16, 1987. Based on this visual inspection it was apparent that the asbestos was concentrated in the boiler room and the surrounding process areas. Mr. Gils conducted a more thorough survey, with sampling, analysis and cost estimates of removal and disposal of the asbestos. The results of the survey were summarized in a report dated May 8, 1987 which is included as Appendix D of this report.

The boiler room was found to have significant quantities of asbestos containing material. Asbestos insulation is present as part of the boilers and surrounding much of the vessels and piping. Due to salvage and partial demolition activites there is also free asbestos present on the floors and in some of the dust in the boiler room. Although much of the piping in the other area of the building has been removed (as evidenced by numerous open wall penetrations), Mr. Gils confirmed that most of the remaining piping has asbestos insulation.

CLEANUP COST ESTIMATES

Our estimates of cleanup costs are presented in Table 4. In developing these estimates it was assumed that all activities will be performed in accordance with pertinent EPA, OSHA and California DHS regulations and the contractors used will be licensed, hazardous-waste specialists. The costs do not include such items as preparation of plans and specifications, contract supervision, additional laboratory testing or consultant fees. The cost of disposing of materials (both hazardous and nonhazardous) left behind when the current tennants vacate the property could be substantial but cannot be quantified at this time and thus is not included.

The unit costs for the soil and sludge cleanup are based on our experiences with similiar projects and on conversations with hazardous waste contractors concerning the particulars of this project. The volume of contaminated soil at the gasoline tank is based on a 15 to 20 foot cube. The volume of contaminated soil assumed to be beneath the anodizing plant is based on a 60 foot square area of 18 inch thickness. The volume of sludge is based on a 1 to 2 foot depth in both the south and main sumps.

The well closure estimates were provided by the two well drilling contractors discussed previously. The price range is largely a factor of being unsure of the exact construction of the well. If the contractor will have to physically perforate a solid casing at regular intervals to facilitate the grouting of a well pack, this will add a significant amount to the cost of sealing. As the pumping systems are currently in various states of abandonment, the cost for dismantling and disposal of pumps and equipment are included. The contractors can provide a more definite cost when giving a formal bid in response to a RFP.

Due to the large quanitity of asbestos present and the difficulty of properly removing it, the cost for the asbestos cleanup is quite large. As Mr. Gils was not able to examine the interstitial areas of boilers 1 and 2, a conditional $72,000 is included if the interstitial bricks contain asbestos like those found in boiler 4. The asbestos removal costs are based on the actual costs of a similar cleanup project in the Bay Area.

CONCLUSIONS

The following conclusions can be made from our contamination investigation of the Alma Terminal site.

(1) The site subsurface does not appear to be severely contaminated. Two localized areas of soil contamination were found. The shallow ground water appears to be free of contamination based on analysis of five water samples.

(2) At present, there appears to be little risk of off-site hazardous materials or ground water contamination plume impacting the site.

(3) On-site contamination from the gasoline tank and the presence of asbestos stems from the previous cannery.

(4) Although the ongoing multi-business use of the site involves the storage, use and disposal of many hazardous materials, there appears to be little resulting contamination. This is due to the concrete ground cover, the effective drainage system and the relatively short time these operations have been present. Contamination of the sump sludge and the presence of excess metals in the soil can to attributed to these more recent activities.

(5) There are two buried fuel tanks on-site that need to be removed and properly disposed of.

(6) There are four on-site wells that need to be properly sealed.

(7) The contamination by asbestos at this site is localized in the boiler room and canning room. Proper remediation will be the most difficult and expensive cleanup task.

(8) The cost of site cleanup (excluding demolition work) is estimated to be approximately $800,000.

LIMITATIONS

This report and its conclusions have been provided in accordance with the principles and practices generally employed in the environmental engineering profession. This is in lieu of all other warranties, express or implied.

Our conclusions and recommendations have been based on data obtained from subsurface exploration, soil and ground water sampling and testing, spot sampling for asbestos, and research of public records.

Subsurface exploration of any site is necessarily confined to selected locations, and conditions may and often do vary between and around these locations. To compare the generalized site conditions assumed in this report with those found at the site at the time of remediation, demolition and construction, all cleanup operations and earthwork should be observed by our field representative and sampling and testing performed where necessary.

Report prepared by:

TERRATECH, INC.

Eric R. Lautenbach

Reviewed by,

Daniel F. Seidel
CE 17513

CCG PLANT NO. 2
1100-1200 LICK AVE.
SAN JOSE, CA.

ASBESTOS BUILDING SURVEY

May 8, 1987

ROBERT E. GILS & ASSOCIATES

Environmental Health Consultants • Certified Industrial Hygienists
San Francisco • Dallas

California Canners and Growers Plant. No. 2
Asbestos Building Survey
1100-1200 Lick Avenue
San Jose, CA
May 4, 1987

Introduction

This report will document a study conducted by Robert Gils Associates Inc. (RGA) on April 30, 1987. Its purpose was to provide information on asbestos-containing materials within the captioned building and estimate removal costs.

Scope of Work

1. Certified Industrial Hygienist to conduct survey of the captioned building

2. Robert Gils Associates Inc. to prepare report giving analytical results, sample methods, a brief discussion of conditions and assessment of potential asbestos hazards observed on the day of the survey.

3. Laboratory work to be completed in accordance with EPA/OSHA criteria by RGA.

4. RGA to provide estimate, for budget purposes, of cost of asbestos removal and disposal in accordance with EPA/OSHA criteria, and to provide general recommended standards for performance of the abatement. For the purposes of this survey, primary emphasis was the boiler room and adjacent areas.

Locations of Asbestos

The location of bulk asbestos samples collected to document the presence of asbestos in suspect building materials can be found in Tables I and II, Asbestos Bulk Sample Analyses. Most of the samples collected from the boiler room tested positive for either chrysotile or amosite asbestos. The amount of asbestos-containing material remaining in the Boiler room and adjacent areas is estimated from the collection and analyses of bulk samples. Asbestos-containing material was found on piping attached to Boilers 1, 2 and 4, on remnants of piping from Boiler 3, scattered over the boiler room floor from previous salvage and reclamation procedures, and on piping in several areas adjacent to the Boiler room.

Methods and Sampling Strategy

As far as possible every space in the building was viewed and suspect materials were touched by the investigator to determine condition and friability of any discovered asbestos. Representative samples of suspect materials were collected for polarized light analyses.

Duplicate samples of most materials were collected to confirm consistency in content with original construction materials.

Sample Results

Tables I and II show the results of polarized light microscopy for the samples. Reference the I.D. number shown on the table to the photos for more detailed information. Every reasonable effort has been made to document the location of asbestos-containing materials with restricted access.

Facility Description

The building viewed is a concrete block structure with a corrugated metal roof. Structural support is provided by both wooden and metal beams . The building was constructed from approximately circa 1930s onward. The boiler building is roughly 4000 square feet and three stories in height. The site is bordered by Lick Avenue to the East, Goodyear Street to the North, and the Southern Pacific Railroad to the West.The Southern borders were not established on the date of the survey.

The original structures on this site appear to be the boiler building and preparation departments (see drawing). Roof lines suggest the Boiler Room began as an independent structure . Subsequent construction filled in the spaces between buildings to create a mall-type plant.

Warehouses 2, 3 and 4 to north and west are independent of the main structure and appear to be newer.Lack of evidence of piping suggests these buildings were used primarily for storage, and did not contain processing equipment and its asbestos-type piping. Penetrations through concrete walls in the cannery, preparation and cooking departments suggest piping had once existed in these locations. Remnants of piping were also found in the cannery and second floor vacuum rooms.

Spray-applied ceiling material was noted in an office space in the northeast section of Warehouse 1. This material was inaccessible due to ceiling height.

Description of Asbestos Found

A total of twenty-three (23) bulk samples were collected and analyzed for asbestos content. Fifteen of the bulk samples collected tested positive for

asbestos content. Any product found to contain more than 1% asbestos when analyzed by polarized light microscopy is considered a potential health hazard by EPA. One sample 7740 was inclusive for the presence of asbestos (possible surface contamination).

Boiler Room:

Ceiling height of the boiler room is approximately 30-45 feet. The boiler room consists of four water tube steam boilers (see Appendix I for locations), one of which had been disassembled for salvage of materials. There also was some disassembly of Boiler 4. Sections of insulated piping and valves which had been cut free for ease of salvage lay on the floor. Some of the insulation surrounding this piping had been split open and was strewn on the floor. Piles of brick removed from Boiler 3 or 4 were stacked on pallets in the building. Some disassembly of the boilers 1,2 will be necessary to determine the extent of asbestos within the boiler and the method of brick disposal. At the main entrance of the Boiler room are a number of appliances (refrigerators, washing machines, windows and shower doors.)

Boiler 4:

Boiler 4 appears to be the newest of the boilers . It is roughly a 25-foot cube containing three or four asbestos- insulated mud and steam drums. Each drum is approximately 20 feet long and five feet in diameter. Surface insulating material was visible on two drums. Insulation is only applied to external parts of a steam boiler and the interstitial spaces between the inner and outer bricks to conserve heat. Examination of the horizontal I-beams of the building structure surrounding this boiler showed a great deal of dust, although no fibrous material was seen on the upper ledges of the building by Boiler 4. A small second-level storage room adjacent to Boiler 4 contained some pipe insulation which appeared to be asbestos.

The ground level section of Boiler 4 had been opened for salvage purposes. Examination of the boiler rubble at this level revealed boiler tubing intermixed with brick and some asbestos-containing materials. The interstitial spaces between the remaining brick walls of the boiler contained several different textures and types of material, one of which appeared to be an asbestos-like brick insulation, sandwiched between the internal refractory brick and the external red brick. The positioning of this material is consistent on both sides of the boiler and was incorporated into an abatement estimate for removal of the remaining boilers. At the top level of the boiler were various sizes of piping ranging from 1 to 15-inches

Boiler 1, Boiler 2:

Boiler 1 and Boiler 2 are constructed adjacent to each other. They are manufactured by Leahy Manufacturing Company of Los Angeles, California. They have a combined footprint of roughly 25 by 20 feet and are 25 feet high. There is evidence of the removal of a blower assembly from the top section of these boilers; otherwise the boilers appear to be relatively intact. These boilers contain approximately six mud and steam drums insulated with asbestos on their exterior

sides to control heat loss. Examination of the interstitial spaces between the bricks of these boilers could not be done, as the boilers remained as a single structure.

To the top of the boilers there is a hard and non-friable asbestos-like transite board installed to provide thermal insulation between the boiler stack and the wood roof joists. The transite surface area is roughly 70-100 square feet. The material was hard and could not be broken free for asbestos analyses.

Boiler 3 (North most Boiler):

This boiler has been virtually demolished. Remnants include a pile of brick rubble and some steam tubing. There is also evidence of asbestos-like debris scattered throughout the area from disassembly of the boiler. Upper sections of the area are inaccessible, however, piping appears to be of similar construction to other piping found in the boiler room. Samples of trash collected from the boiler room floor indicated the presence of asbestos-containing materials.

Other Vessels:

There are two large vessels to the north and adjacent to Boiler 1. One of these vessels appears to be insulated with a fiberglass material and a mica-like plastering with grey muslim wrap. Vessel is configured in an upside-down "T". The vertical portion is ten feet long by five feet in diameter. The bottom horizontal length is 15 feet long by five feet in diameter. Asbestos contamination for the boiler tank is questionable (possible surface contamination).

The other elevated vessel in this area is insulated with an amosite asbestos material which is highly friable when the muslim covering is removed. The tank is approximately ten feet long and five feet in diameter; it is totally insulated.

Insulated Piping:

Piping size ranged from one inch to fifteen inches in diameter. Most of the accessible piping examined was wrapped with a muslim which, when peeled away, revealed a white, highly friable material. One 15-20 foot section of 15-inch piping was insulated with a fiberglass-like material. It appears that this is a reinsulation job completed during an earlier maintenance procedure.

Other Facilities Photos and Walk-Through Survey:
(See Appendix III)

B: Cabinet shop adjacent to garage area: No visible insulated piping is in this space. Some of the ceiling is covered with plastic for dust control. This obscured the upper roof sections of the building.

C: Auto body repair shop: There are a number of holes in walls suggesting pipes once entered this area. There is no visible asbestos-like contamination on the floor of the building. Although there is visible body epoxy dust and paint residue. Additionally, as vehicles are disassembled and repaired in the area, there is a potential for asbestos residue not associated with piping.

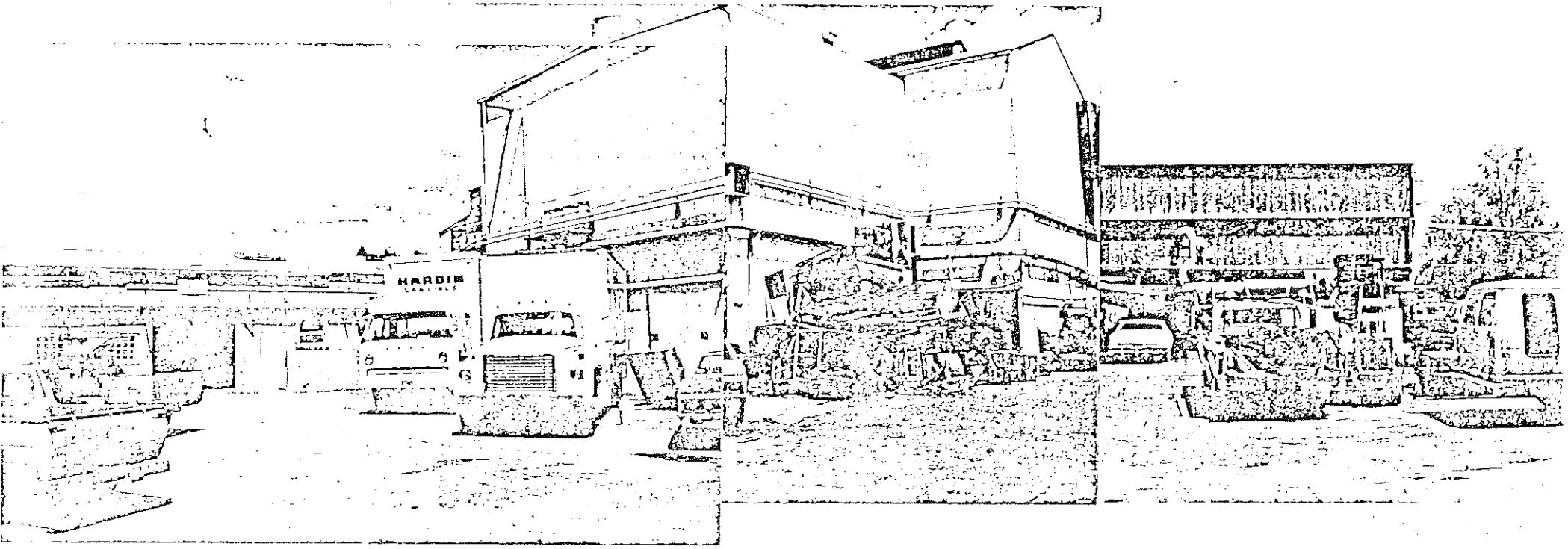
D: Cannery area, lumber company/directly under the vacuum room: There is a long section of pipe with yellow wrapping. Holes in walls and some torch burn marks suggest some piping has been removed.

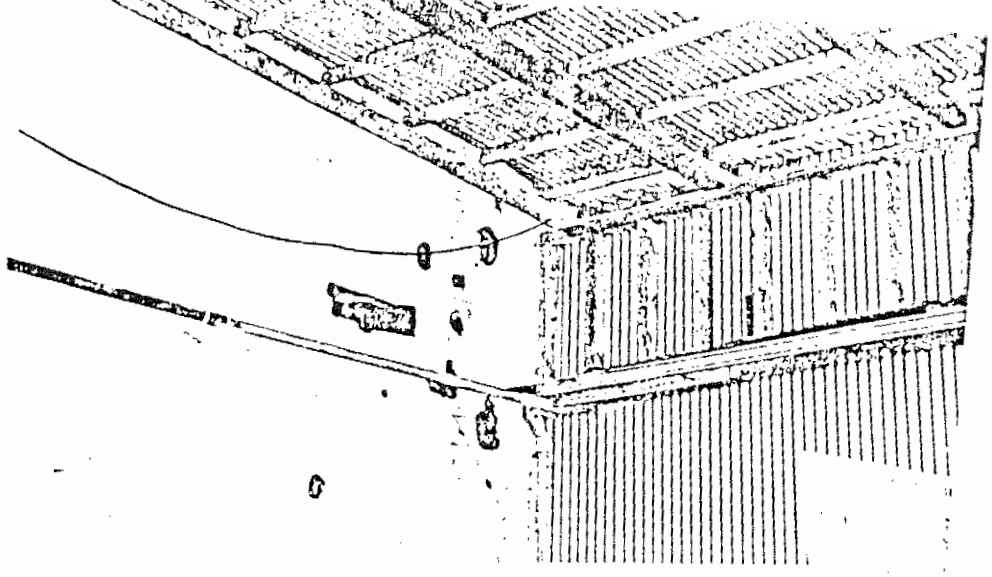
D: Sierra Cabinets to the rear of the lumber company: There appears to be large section of pipe insulated with asbestos-like material. The pipe is about 12 inches wide and 30 feet long. It is suspected there is more contamination in this area. The area was locked and not accessible as the owner was not present.

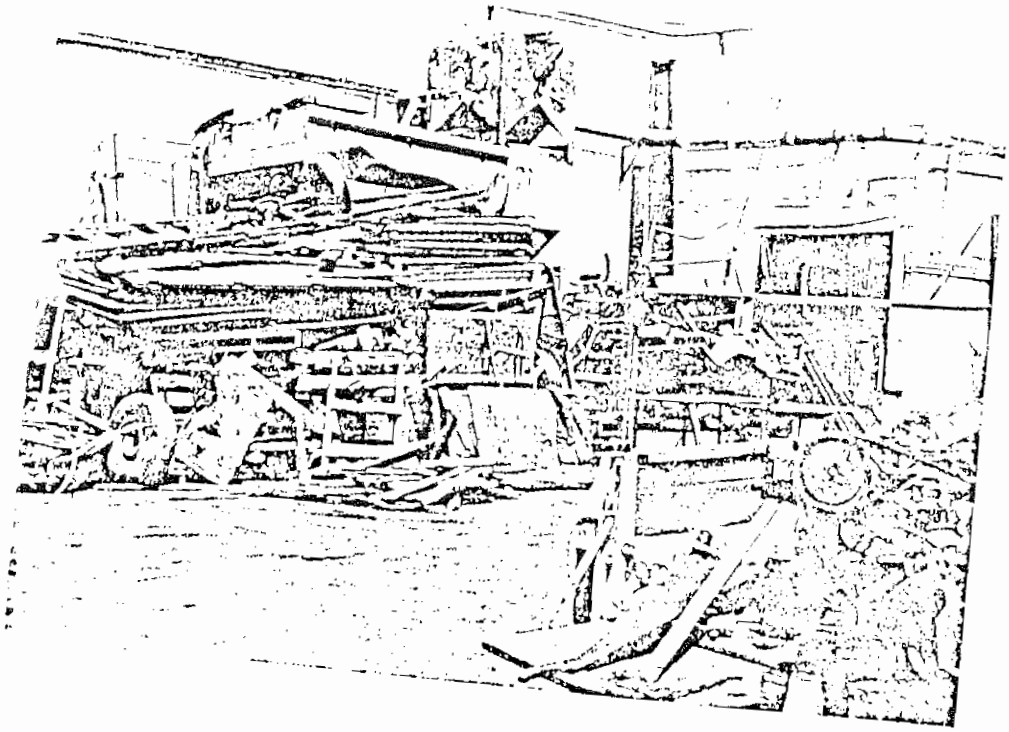
G: Office area/insulation manufacturer: People in this area are working on a pipe-type insulation called Kaylo made by Owens-Corning. Labeling indicates this material to be asbestos-free. There is no visible pipe or evidence of previous piping. The office's obscure attic space above the ceiling on this could not be viewed. This area may contain some asbestos-insulated pipe. The quantity is estimated as minimal relative to other areas.

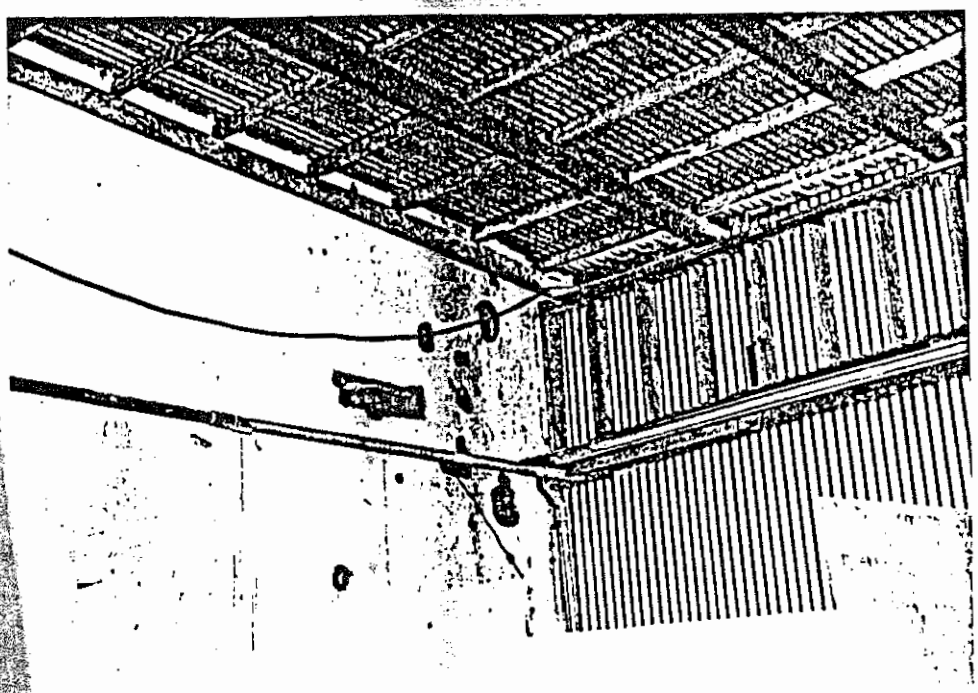
H: North most end of building, tire repair shop: There is some evidence of pipe penetrations through wall. No visible piping.

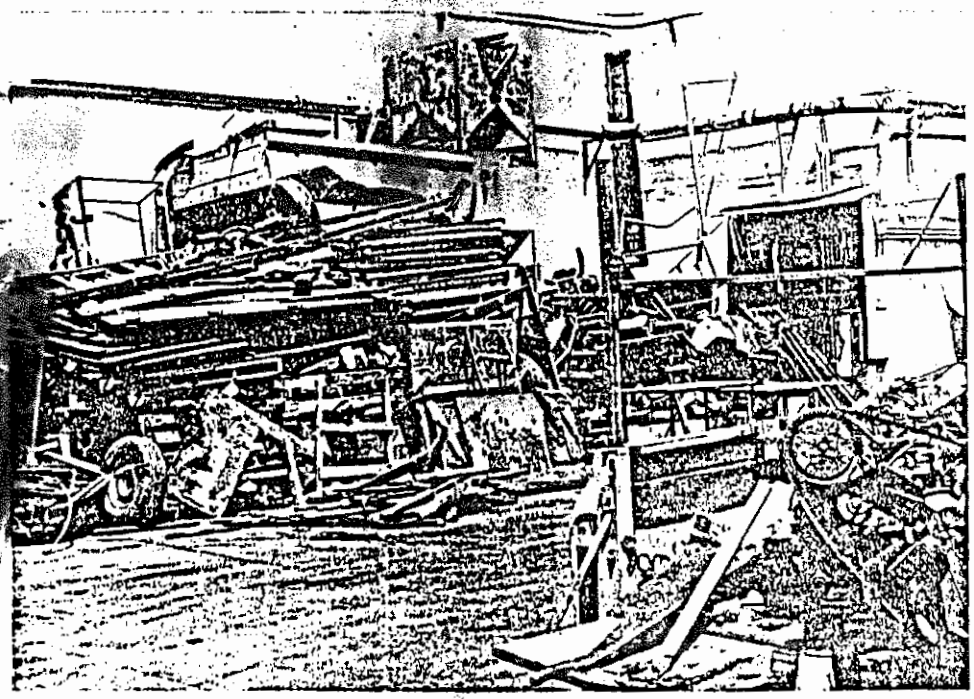
K: Close to SW corner of facility. Paint shop, parking lot, disassembled vehicles, scrap metal, truck bodies. Small auto body repair shop. Building appears to have been warehouse. No visible piping.


HARDIN

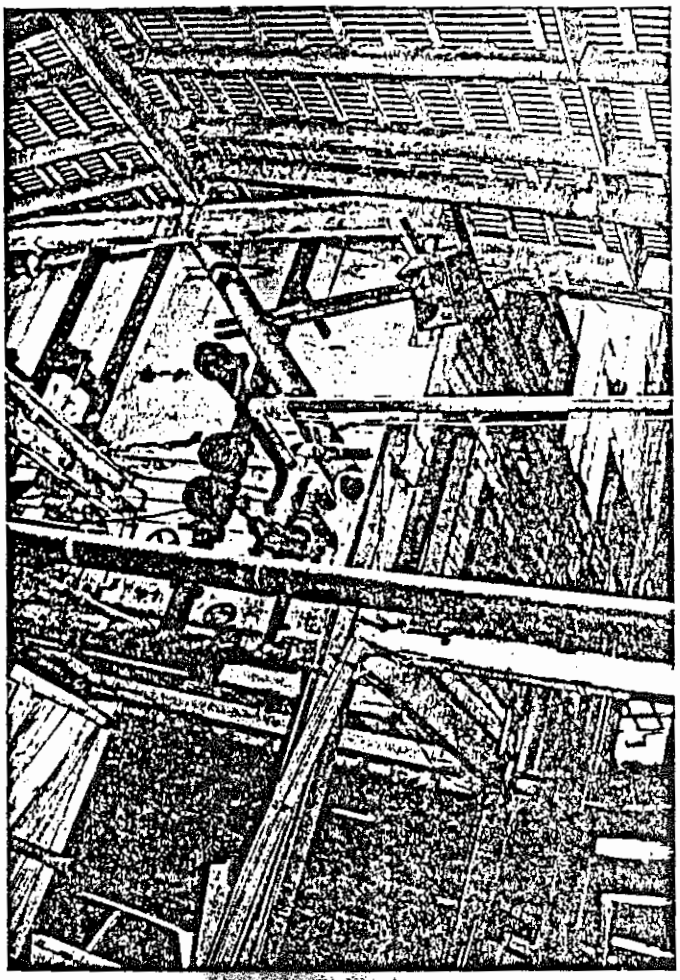


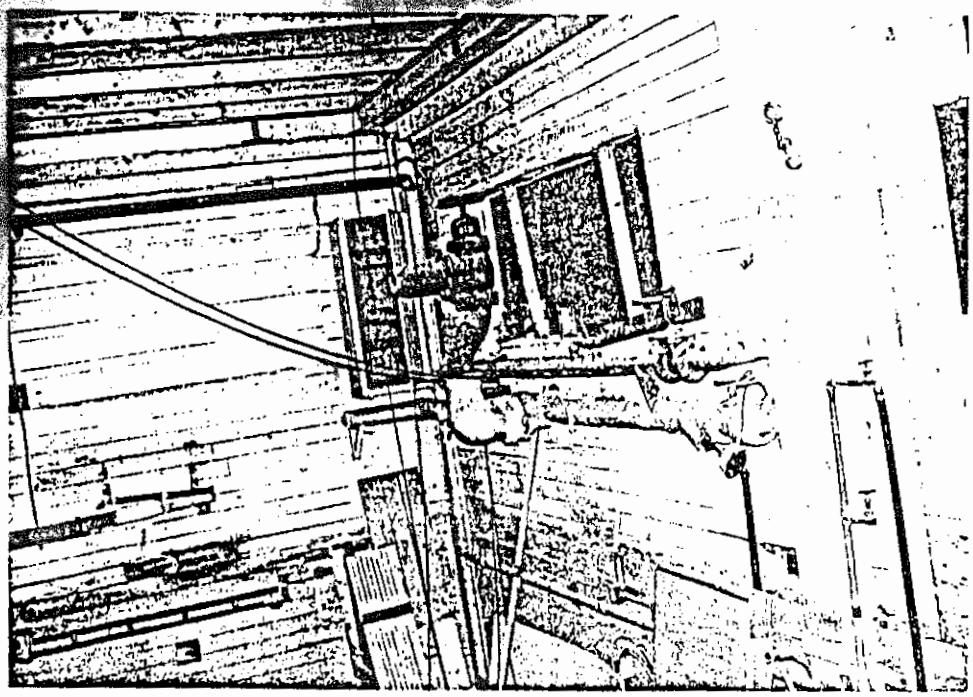




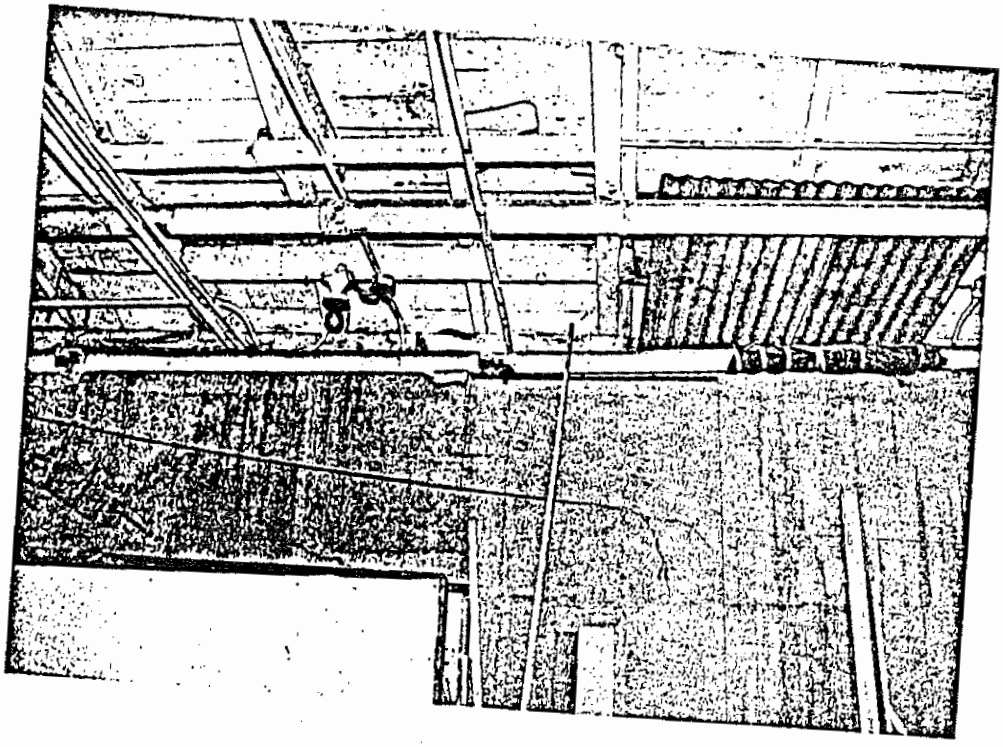


A: Auto repair shop: No visible asbestos piping coming from boiler plant in this area. However, there are engines and transmissions lying in the work area. There may be some asbestos residue associated with these processes. Inside the shop there is no visible asbestos-covered piping. However, there are holes in the common wall between the auto shop and boiler suggesting piping had passed through this area.

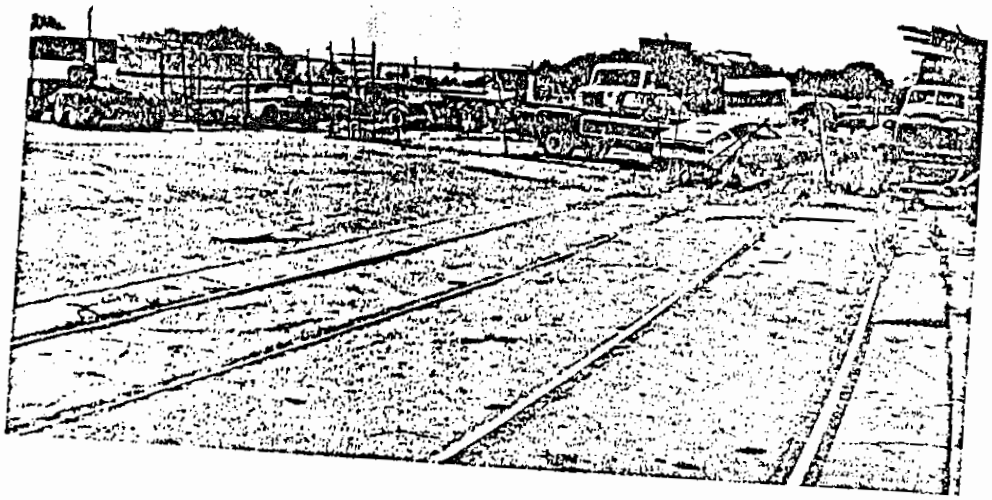




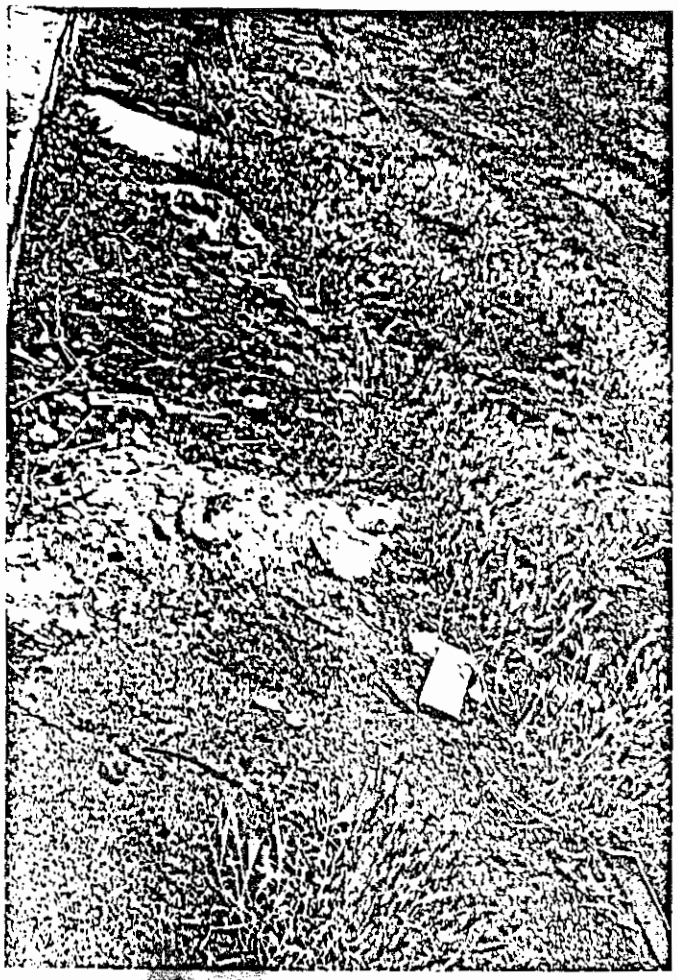
: Vacuum area, second level: There is approximately 25 feet of coated pipe in the area. Holes in the floor suggest that piping at one time passed through the floor. Third floor of the vacuum area is reportedly an artist's studio. It contains a number of items suggesting it might be inhabited. There is no visible insulation in the area, however, there are some holes suggesting piping existed here.



F: Wood shop: There is some piping in wood shop to the rear of the lumber company. The piping is elevated and not accessible. There is evidence of burn marks on ceiling, suggesting some torch work had been done to remove piping in the area.



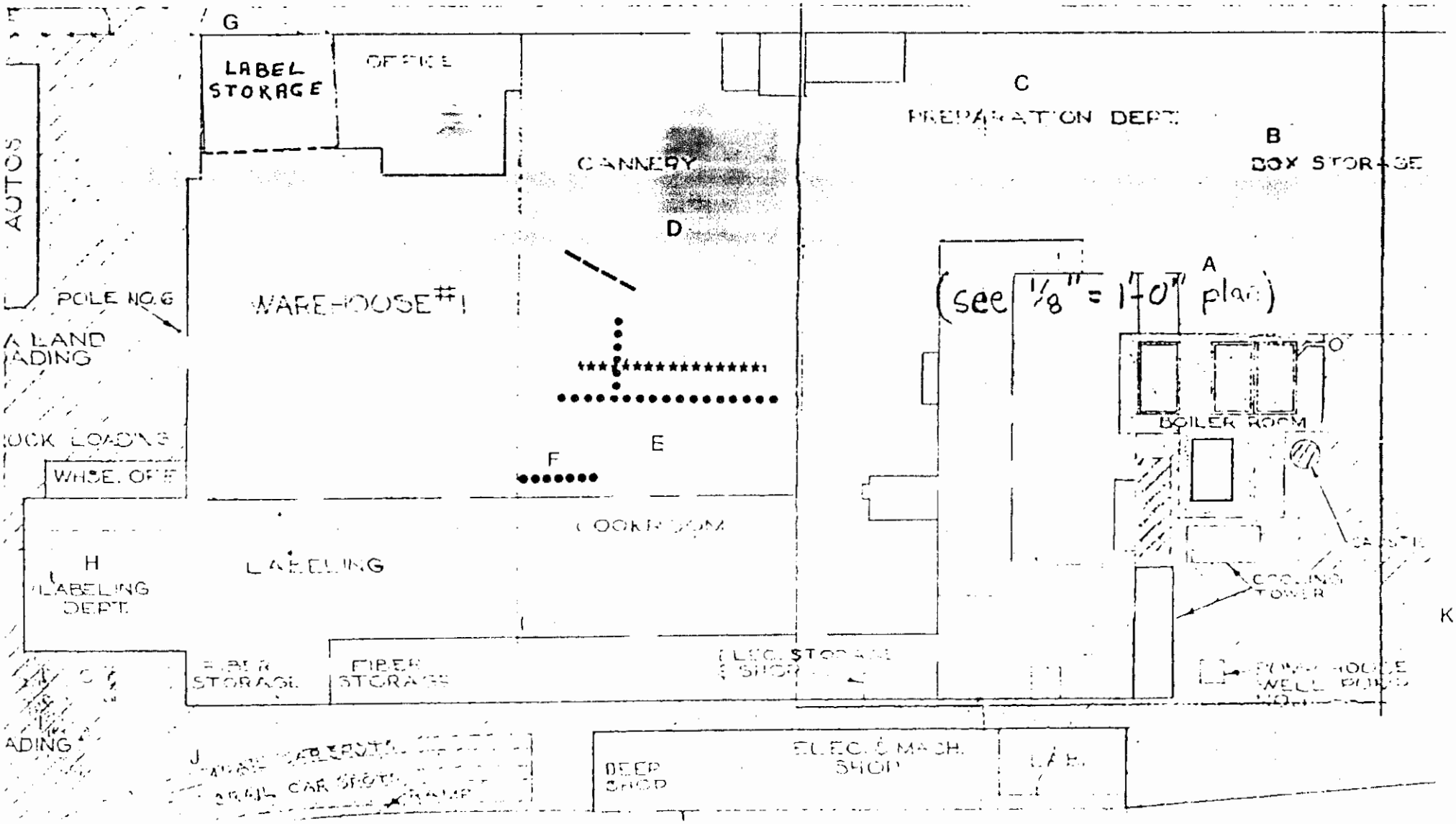
I: Northwest corner of site, contains wrecked vehicles, scrap collectors, junked cars. The buildings to NE corner of the site were locked and could not be viewed.



: Trash laying along train tracks (Samples 7750) to NW corner of building. Photo, ee grass in photo along with railroad track.

APPENDIX III

refers to length of pipes



Conclusions

Friable[1] asbestos-containing material (ACM) in insulation, around hot or cold water pipes, ducts, boilers, etc. is most prevalent in the boiler room of this facility. As most of this insulation is localized to the boiler building, which is locked, its potential for disturbance, damage or erosion is controlled. Previous asbestos removal procedures, which may have occurred as long as five years ago, involved the destruction of Boiler #3 and partial disassembly of Boiler #4. The extent of controls applied during this removal cannot be determined. There is evidence that some materials have been salvaged or are in the process of being salvaged for reclamation (valves, bricks, piping). We do not believe that the cost of cleaning contaminated refractory brick and boiler tubing is warranted, and this material should be disposed of as asbestos-contaminated waste.

In other sections of the facility, there is evidence of pipe penetrations through walls from the boiler room. Only a few sections of potential asbestos-containing pipe remain. The method of removing the asbestos-containing material from these areas could not be determined. However, it is expected there may be residual amounts of material remaining on elevated horizontal surfaces adjoining pipe cavities. No visible asbestos-containing material was seen on the floor areas of the sites viewed.

In as-is condition, and providing the boiler room remain secured by lock, the potential for asbestos exposure to tenants is low for the boiler shop and medium for piping in tenant areas.

Abatement Plan

Boiler Room - The boiler room is contaminated with asbestos-containing materials. There is evidence that the boilers contain large amounts of asbestos insulation on external surfaces of mud and steam drums. There is also some asbestos insulation in the interstitial space between the refractory brick and external red surfacing brick of boiler #4. Examination of Boiler #4, which was partially demolished, suggests this material extends throughout most of the boiler. The area also contains a large number of elevated pipes which are wrapped with mostly asbestos-containing materials. The outer wrapping of these pipes is brittle and if pipes are cut free and allowed to drop, it will crack and release friable asbestos into the area.

As this building is for the most part, already contaminated with asbestos materials, decontamination efforts should begin with a pre-cleaning and removal of light asbestos contaminated items before any major disassembly of the boilers occurs. Pre-cleaning and decontamination is labor intensive and will add to the expense of the project; however it will reduce disposal costs by allowing a number

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1Friable material able to be crushed, pulverized or reduced to powder by hand pressure.

of items to be disposed of as non-asbestos waste or salvage. Removal of general floor machinery and litter will also free up more space for abatement activities.

Work Sequence

1. Tenants vacate facility and remove all their furnishings.

2. Retained Certified Industrial Hygienist develops specifications for the removal of asbestos containing materials as required by the client. Submit matters of interpretation of standards to the appropriate administrative agency for resolution.

3. Retain Certified Industrial Hygienist to conduct background air sampling. To minimize conflict of interest, the Certified Industrial Hygienist should have no affiliation with the abatement contractor and report directly to the owner or his designated representative.

4. Contractor secures the boiler area. Entire boiler area is sealed. All access holes or pipe cavities, openings to roof vents are sealed and all other exits are fitted with air locks to prevent the release of fibers. The entire boiler building is put under negative Hepa ventilation; Hepa ventilation is to be connected at ground level at the perimeter of the building and to be of sufficient quantity to provide a down draft from the roof of the building. Note: some holes may have to be cut into building walls to accommodate Hepa negative air supplies.

5. Abatement contractor pre-cleans lightly contaminated equipment. Salvageable materials are returned to owner and all other materials disposed of as non-contaminated waste. In most cases it may be more economical to dispose of materials as non-contaminated waste rather than salvage them.

6. Abatement contractor removes piping in boiler room. Entire pipe lengths are wrapped in polyethylene plastic and candy striped with duct tape. Sections of pipe approximately two feet in length are abated via glove bag technique to expose bare metal. Elevated pipes are cut with a torch and lowered to floor level with block and tackle equipment. The external polyethylene wrapping is wiped and the pipe rewrapped with plastic and disposed of as a unit as contaminated waste. All vessel items which can be cut free and moved by lifts or block and tackle should be wrapped and moved in this manner.

7. The abatement crew begins disassembly of boiler on a piecemeal basis. Visible asbestos-containing material in interstitial spaces is wetted with a penetrating or bridging encapsulant and placed in plastic bags for removal.

8. Abatement contractor/certified waste hauler removes contaminated materials to landfill.

TABLE I
ASBESTOS BULK SAMPLE ANALYSIS
CALIFORNIA CANNERS
SAN JOSE, CALIFORNIA

SAMPLE NUMBER	DATE	SAMPLE LOCATION	ROOM	DESCRIPTION	TYPE OF ASBESTOS	CONC (%)	POTENTIAL FOR FIBER RELEASE	SURVEYOR'S COMMENTS
5040	04/30/87	PIPING APPROX. 30 FT. LONG	BOILER 1	PIPING	AMOSITE/CHRYSOTILE	55	HIGH	
5053	04/30/87	BRICK ON SOUTH SIDE OF BOILER 1 TO FRONT.	BOILER 1	GREY TO WHITE	AMOSITE	20	HIGH	
5071	04/30/87	INTERSTITIAL SPACE BETWEEN METAL/FIREBRICK	BOILER #4	BLACK	NA	<1	HIGH	
5076	04/30/87	SOUTH END OF BOILER ROOM	BOILER 3	HARD, BLACK, BRITTLE ASPHALT PAPER	NA	<1	HIGH	
5079	04/30/87	CENTER, FLOOR, UNDER TUBING	BOILER 4	FLOOR RESIDUE	AMOSITE	35	HIGH	
5081	04/30/87	NORTH SIDE	BOILER 2	PIPE INSULATION, BLUE MUSLIN-WRAPPED	AMOSITE/CHRYSOTILE	30/15	HIGH	
5082	04/30/87	FLOOR	BOILER 3	BRICKLIKE MATERIAL, WHITE RESIDUE	NA	<1	LOW	
5093	04/30/87	FLOOR	BOILER 3	FLOOR TRASH, ASBESTOS-LIKE	AMOSITE/CHRYSOTILE	10/5	HIGH	
5100A	04/30/87	UPPER LEVEL HOT END OF STEAM TUBE	BOILER #4	UNDER MATERIAL-WHITE, FIBROUS	AMOSITE/CHRYSOTILE	20/15	HIGH	
7730	04/30/87	STACKED ON PALLETS	BOILER #4	CONTAMINATION FROM BRICK	AMOSITE	20	HIGH	
7739	04/30/87	INSULATION ON OUTSIDE OF COLD WATER TANK	BOILER #4	WHITE, APPEARS TO BE AMOSITE	AMOSITE	35	HIGH	
7740	04/30/87	TOP OF SURGE TANK	BOILER 2	GREY, WHITE MUSLIN-COVERED	NA	?	HIGH	

TABLE II
ASBESTOS BULK SAMPLE ANALYSIS
CALIFORNIA CANNERS
SAN JOSE, CALIFORNIA

SAMPLE NUMBER	DATE	SAMPLE LOCATION	ROOM	DESCRIPTION	TYPE OF ASBESTOS	CONC (%)	POTENTIAL FOR FIBER RELEASE	SURVEYOR'S COMMENTS
7741	04/30/87	EAST SIDE	BOILER 2	AIR CELL PIPE INSULATION, GREY, OPEN	AMOSITE/CHRYSOTILE	30/60	HIGH	
7742	04/30/87	BOILER ROOM	BOILER 4	WHITE FIBERGLASS MATERIAL	NA	<1	HIGH	MAY BE CLEANER VERSION OF 5071
7743A	04/30/87	TOP TUBES OF BOILER	BOILER 1	HARD SURFACING MATERIAL, MICA-LIKE	AMOSITE	2	HIGH	
7744	04/30/87	INTERSTITIAL SPACE BETWEEN METAL/FIREBRICK	BOILER #4	WHITE SOFT BRICK	AMOSITE	5	HIGH	
7745	04/30/87	INSULATION MFG.	OFFICE AREA	CEILING MATERIAL	NA	<1	HIGH	
7750	04/30/87	ALONG RAILROAD TRACKS	NW CRNR OF BLDG	WHITE TRASH	NA	<1	HIGH	
7756	04/30/87	SECOND LEVEL	VACUUM ROOM	FLOORING	NA	<1	HIGH	
7759	04/30/87	REAR TUBE AREA ABOVE FIREBOX	BOILER 1	GREY TO WHITE	AMOSITE	5	HIGH	
7762	04/30/87	SURGE TANK, UNDER MUSLIM WRAPPING	BOILER 2	ASBESTOS-INSULATING MATERIAL, WHITE	AMOSITE/CHRYSOTILE	20/20	HIGH	
7763	04/30/87	BOILER #2 FLOOR		PIPING	AMOSITE	45	HIGH	
7763A	04/30/87	BOILER ROOM	BOILER 2	PIPE FELL FROM BOILER 2		20	HIGH	

Cost Estimates

Cost estimates are based on visible materials seen on the date of the survey. No destructive testing was performed. Two cost estimates for the removal of Boilers #1 and #2 are given. These estimates reflect internal asbestos contamination similar to that found in Boiler #4 and no internal asbestos brick within the interstitial spaces. No estimate was made as to the amount of contamination as a result of previous pipe removal in areas other than the boiler room.

Note there are many methods of removal. A wrecking ball may be the most efficient, but not for the control of asbestos fibers. Total enclosure of each boiler and the building may be the most effective for fiber control, but also the most expensive. From a practical control standpoint the middle ground would entail maintaining the building or the boiler under negative pressure and hand disassembly of the boilers. Cost estimates are based on this method of abatement.

Definitions - Cost Estimates

* Area - Refers to area and location of material to be abated.
* Size - Refers to the quantity of the material to be abated.
* **Units** - Refers to the quantity of material.
* **Size** - Refers to the diameter of the material for piping or surface coverage for surfacing materials.
* Cost Removal/Ft - Estimated amount to remove unit foot of the item. This cost includes scaffolding.
* Difficulty Factor - Elevated items have a greater difficulty factory for removal than items that can be abated on the ground. This factor accommodates for this.
* Cost Estimate - Refers to total cost for removal of asbestos materials.

COST ESTIMATES FOR
THE REMOVAL OF PIPING
FROM THE BOILER ROOM

AREA	DESCRIPTION	SIZE	UNITS	SIZE	COST REMOVAL/FT	DIFF FACTOR	COST ESTIMATE
BOILER 4, UPPER LEVEL	COVERED W/YELLOW MUSLIM	27.5	FT	1.2	40	4	$4,400.00
BOILER 4, UPPER (TO BOILER 2)	COVERED W/YELLOW MUSLIM	37.5	FT	0.25	28	4	$4,200.00
BOILER 1	UPPER PIPING	30	FT	1	35	4	$4,200.00
ABOVE BOILER 1		25	FT	1	28	4	$2,800.00
ABOVE BOILER 1	ASSORTED SIZES 1"-3" ELEVATED	75	FT	0.2	23	4	$6,900.00
SOUTH OF BOILERS 1 AND 2	POOR CONDITION, VERY FRIABLE	40	FT		25	4	$4,000.00
REAR OF BOILERS 1 AND 2	AIR-CELL INSULATION FLOOR LEVEL	30	FT		23	2	$1,380.00
NORTH OF BOILER 2	ELEVATED	10	FT	1	25	5	$1,250.00
NORTH OF BOILER 2	ELEVATED	155	FT	0.25	25	4	$15,500.00
BOILER 3, UPPER LEVEL	ELEVATED	25	FT	1	25	4	$2,500.00
BOILER 3, UPPER LEVEL	ELEVATED	40	FT	0.75	25	4	$4,000.00
BOILER 3, UPPER LEVEL	ELEVATED	140	FT	0.25	25	4	$14,000.00
SIERRA CABINET		30	FT	1	40	2	$2,400.00
VACUUM AREA, 2ND FLOOR	ELEVATED	25	FT	8	40	2	$2,000.00
CABINET SHOP	ELEVATED	28	FT	1	28	2	$1,568.00
ESTIMATED COST FOR PIPE REMOVAL					435		$71,098.00
WASTE HAULING	ONE 15 CUBIC YD DUMSTER						$1,500.00

COST ESTIMATE FOR
THE REMOVAL OF ASBESTOS INSULATION
FROM TANKS VESSLES BOILER RM

INTERNAL BRICK

AREA	DESCRIPTION	COST OR SIZE	UNITS	REMOVAL COST/UNIT	DIFF FACTOR	TOTAL COST
TOP OF TANK NEXT TO BOILER 2	GREY, MUSLIM-COVERED, T-SHAPED					
	HEIGHT OF "T"	10	FT	NA		
	LENGTH OF "T"	15	FT			$8,000.00 *
TOP OF TANK NEXT TO BOILER 2	WHITE, VERY FRIABLE,	10	FT	NA		$2,000.00
	MUSLIM-WRAPPED					
BOILER 1,2	TRANSITE ABOVE FURNACE STACK	10	FT	20	5	$1,000.00
BOILER 1,2	TRANSITE BY ELEC. PANEL	6	FT	20	2	$240.00
			FT			$0.00
BOILER 3 FLOOR CLEANING	CLEANING FLOOR	700	FT SQ	3	1	$2,100.00
MAIN BOILER ROOM 1,2,4	CLEANING FLOOR	1700	FT SQ	3	1	$5,100.00
BOILER #3 FLOOR	REMOVE REMINANTS OF BOILER CONTAMINATED WASTE	4000	LABOR BAGGING WRAPPING	1	1	$4,000.00
BOILER #3	HAULING OF REMAINING WASTE 30 YARDS	2700	PER 40 CU YD LOAD .75 FULL	1	1	$2,700.00
BOILER 3	CLEAN ELEVATE HORZ. SURFACES, SEALER	2000	LABOR	1	1	$2,000.00
						$0.00
BOILERS 4	DRUM SCRAPING 3 DRUMS/BOILER	1450	SQ FT AREA	21	3	$91,350.00
BOILERS 1,2	DRUM SCRAPING 3 DRUMS/BOILER 6 DRUMS	2900	SQ FT AREA	21	3	$182,700.00
						$0.00
DISASSEMBLY BOILER #4	VISIBLE BRICK AND INTERNAL BRICK CONTAMINATED	2400	FT SQ	21	3	$151,200.00
	ESTIMATED FOOTAGE					$0.00
DISASSEMBLY BOILER 1,2		4000	ESTIMATED AREA OF BRICK	2	3	$24,000.00
REMOVAL INTERNAL BRICK	ASSUME INTERNAL BRICK	2400	ESTIMATED AREA OF BRICK	10	3	$72,000.00
WASTE HAULING	40 CU YD CONTAINERS ESTIMATE 10	2700	2700 PER FULL 40 CU YD CONTAIN	10	1	$27,000.00
BUILDING	CLEANING SEALING WALLS	12000	SEALER AND HEPA	0.5	1	$6,000.00
SCAFFOLDING	ERECTION	8000	FOR ALL SCAFFOLDING	1	1	$8,000.00
						$0.00
* MAY NOT CONTAIN ASBESTOS						$0.00
						$575,390.00
						$0.00
						$0.00
						$0.00

COST ESTIMATE FOR
THE REMOVAL OF ASBESTOS INSULATION
FROM TANKS VESSLES BOILER RM

NO INTERNAL BRICK

AREA	DESCRIPTION	COST OR SIZE	UNITS	REMOVAL COST/UNIT	DIFF FACTOR	TOTAL COST
TOP OF TANK NEXT TO BOILER 2	GREY, MUSLIM-COVERED, T-SHAPED					
	HEIGHT OF "T"	10	FT	NA		
	LENGTH OF "T"	15	FT			$8,000.00 *
TOP OF TANK NEXT TO BOILER 2	WHITE, VERY FRIABLE,	10	FT	NA		$2,000.00
	MUSLIM-WRAPPED					
BOILER 1,2	TRANSITE ABOVE FURNACE STACK	10	FT	20	5	$1,000.00
BOILER 1,2	TRANSITE BY ELEC. PANEL	6	FT	20	2	$240.00
			FT			$0.00
BOILER 3 FLOOR CLEANING	CLEANING FLOOR	700	FT SQ	3	1	$2,100.00
MAIN BOILER ROOM 1,2,4	CLEANING FLOOR	1700	FT SQ	3	1	$5,100.00
BOILER #3 FLOOR	REMOVE REMINANTS OF BOILER CONTAMINATED WASTE	4000	LABOR BAGGING WRAPPING	1	1	$4,000.00
BOILER #3	HAULING OF REMAINING WASTE 30 YARDS	2700	PER 40 CU YD LOAD .75 FULL	1	1	$2,700.00
BOILER 3	CLEAN ELEVATE HORZ. SURFACES, SEALER	2000	LABOR	1	1	$2,000.00
						$0.00
BOILERS 4	DRUM SCRAPING 3 DRUMS/BOILER	1450	SQ FT AREA	21	3	$91,350.00
BOILERS 1,2	DRUM SCRAPING 3 DRUMS/BOILER 6 DRUMS	2900	SQ FT AREA	21	3	$182,700.00
						$0.00
DISASSEMBLY BOILER #4	VISIBLE BRICK AND INTERNAL BRICK CONTAMINATED	2400	FT SQ	21	3	$151,200.00
	ESTIMATED FOOTAGE					$0.00
DISASSEMBLY BOILER 1,2		4000	ESTIMATED AREA OF BRICK	2	3	$24,000.00
						$0.00
WASTE HAULING	40 CU YD CONTAINERS ESTIMATE 10	2700	2700 PER FULL 40 CU YD CONTAIN	10	1	$27,000.00
BUILDING	CLEANING SEALING WALLS	12000	SEALER AND HEPA	0.5	1	$6,000.00
SCAFFOLDING	ERECTION	8000	FOR ALL SCAFFOLDING	1	1	$8,000.00
						$0.00
* MAY NOT CONTAIN ASBESTOS						$0.00
						$503,390.00
						$0.00
						$0.00
						$0.00

LICK AVENUE

FIRE HOUSE HOUSE

WAREHOUSE #2 (VACANT)

AUTOS

OPEN VACANT

COOLING SHED

POLE NO 6

2 SEATLAND LOADING

TRUCK LOADING

WASE OFF

LABEL STORAGE

OFFICE

WAREHOUSE #1 FUTURE MARKET DIST.

CANNERY HARDWOODS

PREPARATION DEPT

AUTO BODY

KARATE AND PIANO SHOP

DESIGN CRAFT

BOX STORAGE

TANK TRAILER REPAIR

SUB STA.

BOILER ROOM

STACK (REMOVED)

8,000 GAL FUEL OIL TANK

CAUSTIC TANK (REMOVED)

COOLING TOWER (REMOVED)

COOKROOM

ANODIZE

ANODIZING WET DECK

LABELING ODD-BALL TIRES

LABELING DEPT

FIBER STORAGE

FIBER STORAGE

ELEC. STORAGE & SHOP BARRY CRAFT

500 GAL GASOLINE TANK

TRUCK LOADING

TRAIL CAR SPOTS

TRAIL CAR SPOTS

RAMP

JEEP SHOP

ELEC. & MACH. SHOP

LAB.

WOOD CLASSICS

CONFIDENCE LANDSCAPING

PUMP HOUSE WELL PUMP NO.1

PUMP HOUSE WELL PUMP NO.3

WASTE PITS

DISCHARGE TO SANITARY SEWER

MAIN SUMP

(REMOVED) HOPPER

BULK TOMATO DUMP

SCALE

(north sump removed)

BOX REPAIR

MENS LAV.

INCINERATOR (REMOVED)

CONCRETE FILTER

POLE NO.1

TRIUMPHS ONLY

SOUTH SUMP

COVERED STORAGE

JK AUTO BODY

ENCLOSED STORAGE

FIBERGLASS UNLIMITED

FIBER STORAGE

VACANT

UNLOADING PAD

RECEIVING PLATFORM

POLE NO.3

PUMP HOUSE WELL PUMP NO.2

WELL NO.4

POLE NO 2

MACHINERY STORAGE

STORAGE

WAREHOUSE #3 JM & ENTERPRISES

WAREHOUSE #4 WAREHOUSE

WAREHOUSE #5 EMPTY CAN STORAGE WAREHOUSE

COOK'S TRUCK BODY MANUFACTURING

WAREHOUSE #6 EMPTY CAN STORAGE

LEASED FROM S.P.

PROPANE TANK (REMOVED)

SOUTHERN PACIFIC RAILROAD

N

LEGEND

- EXPLORATION DRILL HOLE
- BURIED FUEL TANK
- DRAINAGE SUMP
- YARD AREA

NOTES

VERTICAL LETTERING DENOTES PREVIOUS BUILDING & AREA USAGE BY CALIFORNIA CANNERS & GROWERS.

SLANT LETTERING DENOTES CURRENT BUILDING & AREA USAGE BY TENANTS.

BASE MAP: CALIFORNIA CANNER
PLANT NO. 2 BUILDING & P
DATED 9-14-66 REVISED 6

0 50 100

SCALE IN FEET

DATE MAY 8, 1987 DWN BY DPO CHKD EF APPR DFS

REVISIONS

NO.	DATE	DWN	CHKD	APPR

TERRATECH

SITE PLAN

PROPOSED ALMA TE
SAN JOSE, CALIF

APPENDIX D

REGULATORY AGENCY DATABASE REPORT

The following regulatory agency database report was obtained and reviewed to help establish whether contamination incidents have been reported within the site vicinity. A list of the database sources reviewed, a detailed description of the sources, and a radius map indicating the location of the reported facilities relative to the project site are included in the report.

The information presented is obtained from a variety of public databases and other sources. No warranty or representation is made regarding the accuracy or completeness of the presented data. In some cases, a listed facility cannot be mapped with confidence, but instead may be located only by city or zip code. These unmappable sites are referred to as "orphan" sites and, if present, they are listed in the database report.

The EDR-Radius Map
with GeoCheck®

1193 Lick Avenue
1193 Lick Avenue
San Jose, CA 95110

Inquiry Number: 0535832.1r

September 01, 2000

Environmental Data Resources, Inc.
an edr company

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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Detail Map	3
Map Findings Summary	4
Map Findings	6
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GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-7
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Physical Setting Source Records Searched	A-106

Thank you for your business.
Please contact EDR at 1-800-352-0050
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 meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

1193 LICK AVENUE
SAN JOSE, CA 95110

COORDINATES

Latitude (North):	37.314200 - 37˚ 18' 51.1"
Longitude (West):	121.882900 - 121˚ 52' 58.4"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	598988.8
UTM Y (Meters):	4130109.5

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	2437121-C8 SAN JOSE WEST, CA
Source:	USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following government records. For more information on this property see page 6 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
SCVTA - TAMIEN 1193 LICK AVE SAN JOSE, CA	LUST	N/A
SCVTA TAMIEN 1193 LICK AVE SAN JOSE, CA 95110	LUST	N/A
SCC TRANS DIST LICK ALMA 1193 LICK AVE SAN JOSE, CA 95110	Cortese	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 ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

NPL..... National Priority List
Delisted NPL..... NPL Deletions
CERC-NFRAP..... Comprehensive Environmental Response, Compensation, and Liability Information System

EXECUTIVE SUMMARY

RCRIS-TSD..... Resource Conservation and Recovery Information System
RCRIS-LQG..... Resource Conservation and Recovery Information System
ERNS..... Emergency Response Notification System

STATE ASTM STANDARD

AWP..... AWP
Notify 65..... Notify 65
Toxic Pits..... Toxic Pits
SWF/LF..... State Landfill
WMUDS..... WMUDS/SWAT
Ca. BEP..... CA Bond Exp. Plan
Ca. FID..... CA FID

FEDERAL ASTM SUPPLEMENTAL

CONSENT..... CONSENT
ROD..... ROD
FINDS..... Facility Index System/Facility Identification Initiative Program Summary Report
HMIRS..... Hazardous Materials Information Reporting System
MLTS..... Material Licensing Tracking System
MINES..... Mines Master Index File
NPL Lien..... NPL Liens
PADS..... PCB Activity Database System
RAATS..... RCRA Administrative Action Tracking System
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act

STATE OR LOCAL ASTM SUPPLEMENTAL

AST..... Aboveground Petroleum Storage Tank Facilities
Ca. WDS..... CA WDS
SJ HAZMAT..... CA San Jose HAZMAT

EDR PROPRIETARY DATABASES

Coal Gas..... Former Manufactured gas (Coal Gas) Sites.

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS 1 degree 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. EDR's definition of a site with an elevation equal to the target property includes a tolerance of +/- 10 feet. 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 (by more than 10 feet). 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.

EXECUTIVE SUMMARY

FEDERAL ASTM STANDARD

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 04/16/2000 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
LEW SMITH	*1545 ALMADEN*	*1/4 - 1/2 SE*	*E17*	*14*

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 04/20/2000 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
MICRO METALLICS	*1695 S 1ST ST*	*1/2 - 1 ESE*	*J40*	*33*

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-SQG list, as provided by EDR, and dated 05/18/2000 has revealed that there are 3 RCRIS-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
ERNEST J FUNK CORP	*1045 PEPITONE AVE*	*0 - 1/8 WNW*	*4*	*7*
ATLAS TRANSMISSION	*1035 PEPITONE AVE*	*1/8 - 1/4 NW*	*5*	*7*
BENNETTS AUTOMOTIVE SERVICE	*385 WILLOW ST*	*1/8 - 1/4 NW*	*C9*	*10*

STATE ASTM STANDARD

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.

A review of the Cal-Sites list, as provided by EDR, has revealed that there is 1 Cal-Sites site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
ALMADEN PROPERTY	*1545 ALMADEN ROAD*	*1/4 - 1/2 SE*	*E18*	*15*

EXECUTIVE SUMMARY

CHMIRS: The California Hazardous Material Incident Report System contains information on reported hazardous material incidents, i.e., accidental releases or spills. The source is the California Office of Emergency Services.

A review of the CHMIRS list, as provided by EDR, and dated 12/31/1994 has revealed that there are 8 CHMIRS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
Not reported	271 BARNARD AV	1/2 - 1	SE	H27	24
Not reported	271 BARNARD AVENUE	1/2 - 1	SE	H28	24
Not reported	897 S 3RD ST	1/2 - 1	NNE	I30	25
Not reported	1754 ANGELA STREET	1/2 - 1	SSE	31	26
Not reported	MONTEREY RD. / PHELAN A	1/2 - 1	ESE	J38	32

Lower Elevation	Address	Dist / Dir		Map ID	Page
Not reported	130 W. VIRGINIA	1/2 - 1	N	22	20
Not reported	ALMADEN BLVD. / W. REED	1/2 - 1	NNW	35	31
Not reported	KEYES AT S. 7TH	1/2 - 1	NE	39	33

CORTESE: This database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release and all solid waste disposal facilities from which there is known migration. The source is the California Environmental Protection Agency/Office of Emergency Information.

A review of the Cortese list, as provided by EDR, has revealed that there are 16 Cortese sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
FORD WHOLESALE	*199 SAN JOSE AVE*	*1/2 - 1*	*ESE*	*23*	*20*
UNIVERSAL PAINT	*1639 ALMADEN*	*1/2 - 1*	*SSE*	*24*	*21*
BAY TRANSMISSIONS	*1474 MONTEREY HWY*	*1/2 - 1*	*E*	*G25*	*22*
SUN GARDEN PACKING COMPAN	*1582 MONTEREY HWY*	*1/2 - 1*	*E*	*G26*	*23*
SAN JOSE FIRE STATION #3	*98 MARTHA ST*	*1/2 - 1*	*NNE*	*I29*	*25*
AN JAN FEED & PET SUPPLY	*1633 N 1ST ST*	*1/2 - 1*	*E*	*32*	*26*
SAN JOSE STATE UNIVERSITY	*1 WASHINGTON SQUARE*	*1/2 - 1*	*NE*	*33*	*27*
LEISURE PRODUCT SYSTEMS	64 BARNARD AVE	1/2 - 1	ESE	34	31
YELLOW CAB COMPANY	*615 BIRD AVE*	*1/2 - 1*	*WNW*	*41*	*34*
FAITH PLATING BLDG 42 C	1775 N 1ST ST	1/2 - 1	ESE	43	36
SIMS LMC RECYCLERS	*1800 MONTEREY HWY*	*1/2 - 1*	*ESE*	*44*	*36*
ANELLO TRUCKING CO	*1999 STONE AVE*	*1/2 - 1*	*SE*	*45*	*37*
GI TRUCKING CO	*1634 S 7TH ST*	*1/2 - 1*	*E*	*46*	*38*

Lower Elevation	Address	Dist / Dir		Map ID	Page
KEYES AUTO SERVICE	*245 KEYES ST*	*1/2 - 1*	*NE*	*36*	*32*
MOORE PROPERTY	199 MARTHA ST	1/2 - 1	NNE	37	32
D'AMICO PROPERTY	*130 MARGARET ST*	*1/2 - 1*	*NNE*	*42*	*35*

EXECUTIVE SUMMARY

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 LUST list, as provided by EDR, and dated 07/05/2000 has revealed that there are 9 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
SPRIG ELECTRIC	***1303 LICK AVE***	***1/8 - 1/4 SSE***	***B7***	***8***
BENNETT'S AUTO SHOP	385 WILLOW ST	1/8 - 1/4 NW	C8	9
FAHRNER PROPERTY	495 MINNESOTA AVE	1/4 - 1/2 WSW	12	11
DULLY PROPERTY	1016 S ALMADEN AVENUE	1/4 - 1/2 NNE	13	12
T & T MINIMART	150 WILLOW ST	1/4 - 1/2 NNE	D14	12
T&T MINIMART	***150 WILLOW ST***	***1/4 - 1/2 NNE***	***D15***	***13***
MONIZ RESIDENCE	1462 HERVEY LN	1/4 - 1/2 SSW	F19	18
MONIZ RESIDENCE	1462 HERVEY LANE	1/4 - 1/2 SSW	F20	19
R & D LIQUORS	656 WILLOW ST	1/4 - 1/2 W	21	19

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 UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
SPRIG ELECTRIC	***1303 LICK AVE***	***1/8 - 1/4 SSE***	***B7***	***8***

STATE OR LOCAL ASTM SUPPLEMENTAL

CA SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the CA SLIC list, as provided by EDR, has revealed that there are 2 CA SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
WILLOW STREET AT GUADALUPE RIV	***WILLOW ST AT GUADALUPE***	***1/4 - 1/2 W***	***16***	***13***
ALMADEN PROPERTY	***1545 ALMADEN ROAD***	***1/4 - 1/2 SE***	***E18***	***15***

HAZNET: 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 from non-California manifests & continuation sheets are not included at the present time. 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, & disposal method. The source is the Department of Toxic Substance Control is the agency

A review of the HAZNET list, as provided by EDR, has revealed that there are 5 HAZNET sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
ERNEST J FUNK CORP	***1045 PEPITONE AVE***	***0 - 1/8 WNW***	***4***	***7***

EXECUTIVE SUMMARY

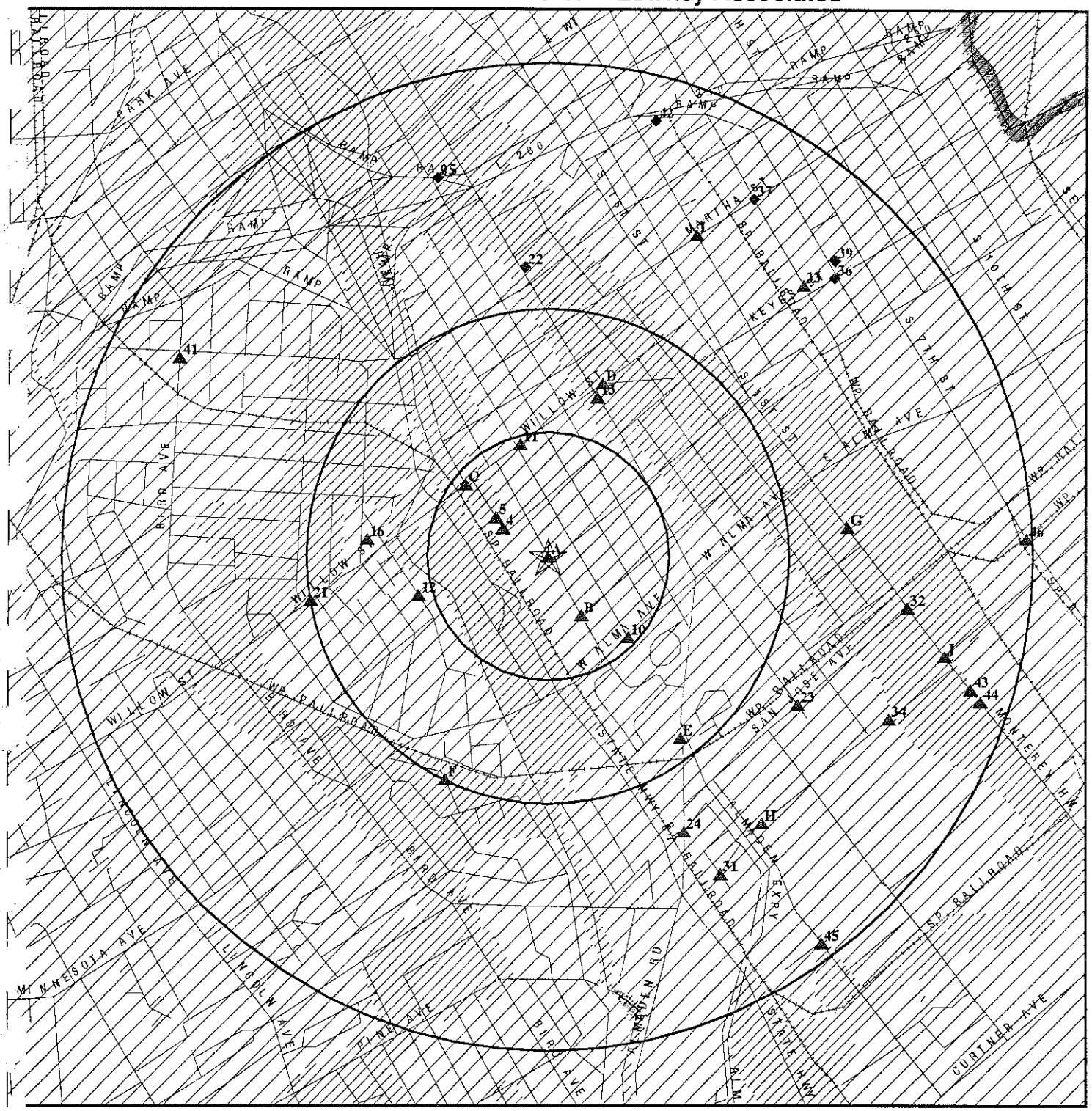
Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
1X SPRIGG ELECTRIC	1303 LICK AVE	1/8 - 1/4 SSE	B6	7
BENNETTS AUTOMOTIVE SERVICE	***385 WILLOW ST***	***1/8 - 1/4 NW***	***C9***	***10***
MIKE WYLES	355 ALMA	1/8 - 1/4 SE	10	10
JOLLERIA LA SECONA	324 WILLOW ST	1/8 - 1/4 NNW	11	11

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
AMERICAN CAN COMPANY #2	Cal-Sites
SIERRA PACIFIC POWER COMPANY	Notify 65,LUST
TEXACO	Cortese,LUST
THRIFTY OIL STN.#039	UST,Cortese,LUST
UNION OIL SS# 4386	HAZNET,Cortese,LUST
	UST
PG&E GAS PLANT SAN JOSE 408 5	CERC-NFRAP
AMERICAN CAN PACKAGING INC	RCRIS-SQG,FINDS,CERC-NFRAP
HELLYER LANDFILL/EASTSIDE LANDFILL	SWF/LF
ROBERTS AVENUE LANDFILL	SWF/LF
MAZZONE, BEN PROPERTY	LUST
WALT VIERRA RESIDENCE	LUST
P&G INVESTMENT COMPANY	LUST
KAUFMAN & BROAD-SITE #1	LUST
KAUFMAN & BROAD-SITE #2	LUST
COYOTE CREEK BUSINESS PARK	LUST
WSP TRUCKING INC.	LUST
WILLOW STREET PUMP STATION	UST
WDR-WATER TREATMENT SLUDGE DIS	WMUDS
COYOTE CREEK BUSINESS PARK	HAZNET,HMS
1X SANTA CLARA VALLEY WATER DISTRICT	HAZNET
SANTA CLARA VALLEY WATER DISTRICT	HAZNET
SANTA CLARA VALLEY WATER DISTRICT	HAZNET
CHEVRON 97075	HAZNET
COUNTY OF SANTA CLARA-PARKS AND REC	HAZNET
COUNTY OF SANTA CLARA-PARKS AND REC	HAZNET
1X CAL TRANS/DIST 4	HAZNET
SANTA CLARA VALLEY WATER DISTRICT	HAZNET
1X KAUFMAN AND BROAD SOUTHBAY INC.	HAZNET
TEXACO REFINING AND MARKETING INC	HAZNET
11208 CAPITOL AVENUE	ERNS

OVERVIEW MAP - 0535832.1r - Lowney Associates



0 1/4 1/2 1 Miles

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Coal Gasification Sites (if requested)

National Priority List Sites

Landfill Sites

Power transmission lines

Oil & Gas pipelines

100-year flood zone

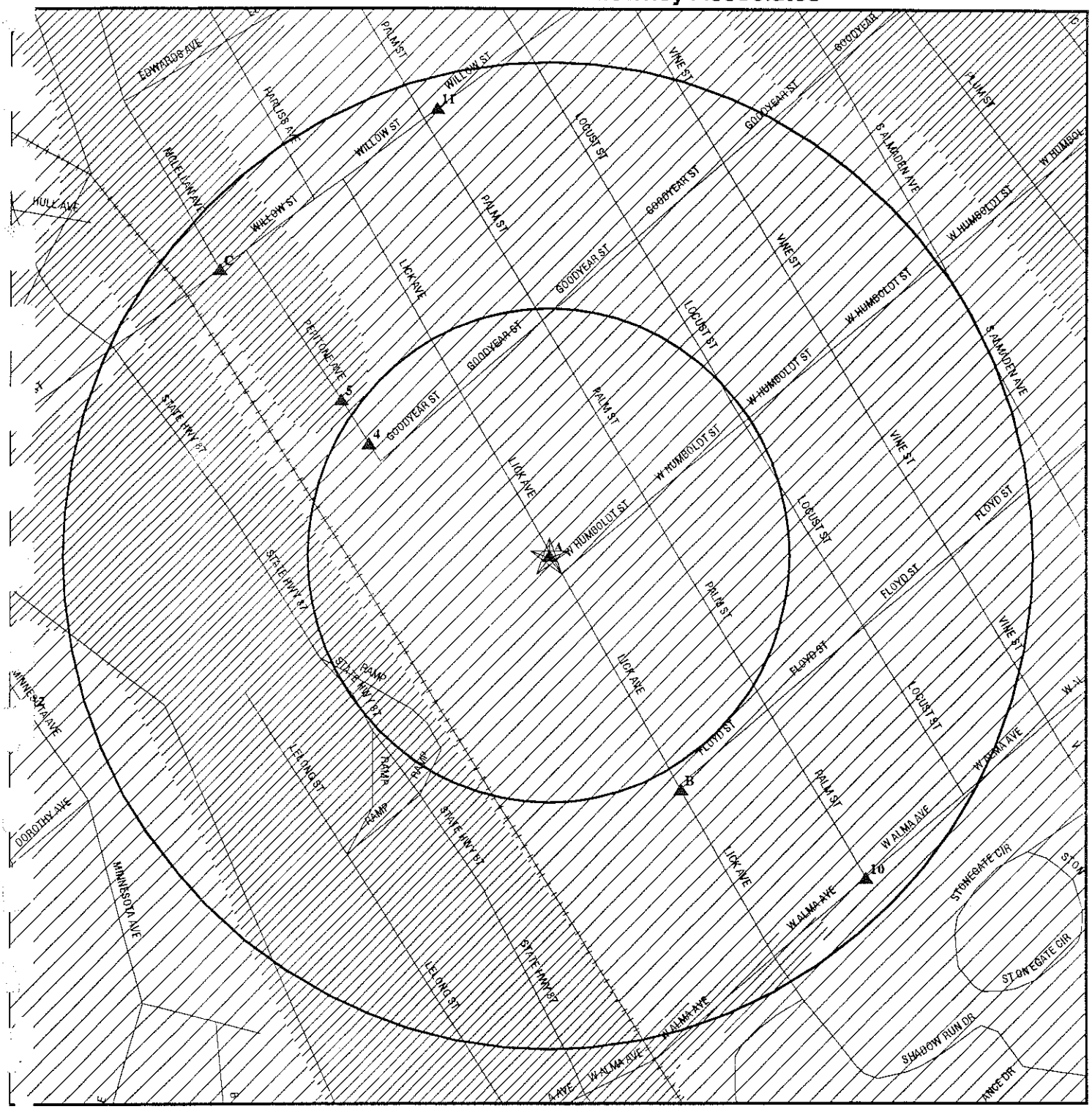
500-year flood zone

Wetlands per National Wetlands Inventory (1994)

Areas of Concern

TARGET PROPERTY:	1193 Lick Avenue	CUSTOMER:	Lowney Associates
ADDRESS:	1193 Lick Avenue	CONTACT:	Jane Fisher
CITY/STATE/ZIP:	San Jose CA 95110	INQUIRY #:	0535832.1r
LAT/LONG:	37.3142 / 121.8829	DATE:	September 01, 2000 3:51 pm

DETAIL MAP - 0535832.1r - Lowney Associates



0 1/16 1/8 1/4 Miles

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Coal Gasification Sites (if requested)

Sensitive Receptors

National Priority List Sites

Landfill Sites

Power transmission lines

Oil & Gas pipelines

100-year flood zone

500-year flood zone

Areas of Concern

TARGET PROPERTY:	1193 Lick Avenue	CUSTOMER:	Lowney Associates
ADDRESS:	1193 Lick Avenue	CONTACT:	Jane Fisher
CITY/STATE/ZIP:	San Jose CA 95110	INQUIRY #:	0535832.1r
LAT/LONG:	37.3142 / 121.8829	DATE:	September 01, 2000 3:51 pm

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL ASTM STANDARD								
NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
CERCLIS		0.500	0	0	1	NR	NR	1
CERC-NFRAP		0.250	0	0	NR	NR	NR	0
CORRACTS		1.000	0	0	0	1	NR	1
RCRIS-TSD		0.500	0	0	0	NR	NR	0
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	1	2	NR	NR	NR	3
ERNS		TP	NR	NR	NR	NR	NR	0
STATE ASTM STANDARD								
AWP		1.000	0	0	0	0	NR	0
Cal-Sites		1.000	0	0	1	0	NR	1
CHMIRS		1.000	0	0	0	8	NR	8
Cortese	X	1.000	0	0	0	16	NR	16
Notify 65		1.000	0	0	0	0	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
LUST	X	0.500	0	2	7	NR	NR	9
UST		0.250	0	1	NR	NR	NR	1
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
CA FID		0.250	0	0	NR	NR	NR	0
FEDERAL ASTM SUPPLEMENTAL								
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
STATE OR LOCAL ASTM SUPPLEMENTAL								
AST		TP	NR	NR	NR	NR	NR	0
CA WDS		TP	NR	NR	NR	NR	NR	0
CA SLIC		0.500	0	0	2	NR	NR	2
HAZNET		0.250	1	4	NR	NR	NR	5
CA San Jose HAZMAT		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR PROPRIETARY DATABASES								
Coal Gas		1.000	0	0	0	0	NR	0
AQUIFLOW - see EDR Physical Setting Source Addendum								

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

A3 Target Property — **SCVTA - TAMIEN**, **1193 LICK AVE**, **SAN JOSE, CA** — **LUST** — **S103881075** / **N/A**

LUST Region SC:

Region:	Santa Clara		
Case Worker:	Adele Shepherd	Closed Date:	9/18/1997
Transfer Date:	Not reported	SCVWD Id:	07S1E20B01f
Date Listed:	12/17/1990	Case Rank:	O142

A2 Target Property — **SCVTA TAMIEN**, **1193 LICK AVE**, **SAN JOSE, CA 95110** — **LUST** — **S103473051** / **N/A**

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	43-1239		
Reg Board:	San Francisco Bay Region		
Chemical:	Gasoline		
Lead Agency:	Local Agency		
Case Type:	Other ground water affected		
Status:	Signed off, remedial action completed or deemed unnecessary		
County:	Santa Clara		
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site		
Review Date:	09/15/97	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	1/24/90
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	9/18/97	Release Date:	11/08/90

LUST Region 2:

Region:	2
Facility Id:	43-1239
Entered Date:	12/17/90
Facility Status:	Signed off, remedial action completed or deemed unnecessary
Maximum Soil Concentration:	2600
Maximum Groundwater Impact:	7900
Current Benzene:	21
Current MTBE :	<5
Maximum MTBE Groundwater:	5
MTBE Quali:	<

A1 Target Property — **SCC TRANS DIST LICK ALMA**, **1193 LICK AVE**, **SAN JOSE, CA 95110** — **Cortese** — **S102436533** / **N/A**

CORTESE:

Reg By:	LTNKA
Reg Id:	43-1239
Region:	CORTESE

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
4 WNW < 1/8 578 Higher	**ERNEST J FUNK CORP 1045 PEPITONE AVE SAN JOSE, CA 95110**	**RCRIS-SQG FINDS HAZNET**	**1000222437 CAD981170640**

RCRIS:

Owner: GEORGE P PRETZER
(415) 555-1212

Contact: ENVIRONMENTAL MANAGER
(408) 295-6280

Record Date: 09/01/1996

Classification: Small Quantity Generator

Used Oil Recyc: No

Violation Status: No violations found

HAZNET:

Gepaid:	CAD981170640	Tepaid:	CAD059494310
Contact:	ERNEST J FUNK CORPORATION	Telephone:	(408) 295-6280
Gen County:	Santa Clara	Tsd County:	Santa Clara
Tons:	6.2550		
Category:	Unspecified organic liquid mixture		
Disposal Method:	Disposal, Other		
Mailing Address:	1045 PEPITONE AVE SAN JOSE, CA 95110		
County	Santa Clara		

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5 NW 1/8-1/4 706 Higher	**ATLAS TRANSMISSION 1035 PEPITONE AVE SAN JOSE, CA 95110**	**RCRIS-SQG FINDS**	**1000596009 CAD983599689**

RCRIS:

Owner: ROD INTOSCHI
(415) 555-1212

Contact: ROD INTOSCHI
(408) 998-2892

Record Date: 08/01/1991

Classification: Small Quantity Generator

Used Oil Recyc: No

Violation Status: No violations found

B6 SSE 1/8-1/4 724 Higher	**1X SPRIGG ELECTRIC 1303 LICK AVE SAN JOSE, CA 00000**	**HAZNET**	**S100928130 N/A**

1X SPRIGG ELECTRIC (Continued) **S100928130**

HAZNET:

Gepaid:	CAC000836416	Tepaid:	CAD009466392
Contact:	CATHY WHITELY	Telephone:	(000) 000-0000
Gen County:	Santa Clara	Tsd County:	7
Tons:	4.5000		
Category:	Other empty containers 30 gallons or more		
Disposal Method:	Recycler		
Mailing Address:	1303 LICK AVE SAN JOSE, CA 95110		
County	Santa Clara		

B7 **SPRIG ELECTRIC** **UST** **U001602504**
SSE **1303 LICK AVE** **LUST** **N/A**
1/8-1/4 **SAN JOSE, CA 95110**
724
Higher

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	43-1731		
Reg Board:	San Francisco Bay Region		
Chemical:	Misc. Motor Vehicle Fuels		
Lead Agency:	Local Agency		
Case Type:	Undefined		
Status:	Signed off, remedial action completed or deemed unnecessary		
County:	Santa Clara		
Abate Method:	No Action Taken - no action has as yet been taken at the site		
Review Date:	11/05/93	Confirm Leak:	11/5/93
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	9/21/94	Release Date:	11/05/93

LUST Region 2:

Region:	2
Facility Id:	43-1731
Entered Date:	11/05/93
Facility Status:	Signed off, remedial action completed or deemed unnecessary
Maximum Soil Concentration:	Not reported
Maximum Groundwater Impact:	Not reported
Current Benzene:	Not reported
Current MTBE :	Not reported
Maximum MTBE Groundwater:	Not reported
MTBE Quali:	Not reported

LUST Region SC:

Region:	Santa Clara		
Case Worker:	Case Closed	Closed Date:	9/15/1994
Transfer Date:	Not reported	SCVWD Id:	07S1E20G01f
Date Listed:	7/13/1993	Case Rank:	S141

SPRIG ELECTRIC (Continued) **U001602504**

State UST:

Facility ID:	44863		
Tank Num:	1	Container Num:	1
Tank Capacity:	6000	Year Installed:	1980
Tank Used for:	PRODUCT		
Type of Fuel:	UNLEADED	Tank Constrctn:	1/4 inches
Leak Detection:	Visual		
Contact Name:	WESLEY L. BEGLEY	Telephone:	(408) 298-3134
Total Tanks:	3	Region:	STATE
Facility Type:	2	Other Type:	ELECTRICAL CO.

Facility ID:	44863		
Tank Num:	2	Container Num:	2
Tank Capacity:	2000	Year Installed:	1979
Tank Used for:	PRODUCT		
Type of Fuel:	UNLEADED	Tank Constrctn:	3/16 unknown
Leak Detection:	Visual, Stock Inventor		
Contact Name:	WESLEY L. BEGLEY	Telephone:	(408) 298-3134
Total Tanks:	3	Region:	STATE
Facility Type:	2	Other Type:	ELECTRICAL CO.

Facility ID:	44863		
Tank Num:	3	Container Num:	3
Tank Capacity:	1000	Year Installed:	1979
Tank Used for:	PRODUCT		
Type of Fuel:	DIESEL	Tank Constrctn:	10 gauge
Leak Detection:	Visual, Stock Inventor		
Contact Name:	WESLEY L. BEGLEY	Telephone:	(408) 298-3134
Total Tanks:	3	Region:	STATE
Facility Type:	2	Other Type:	ELECTRICAL CO.

C8 **BENNETT'S AUTO SHOP** **LUST** **S102425174**
NW **385 WILLOW ST** **N/A**
1/8-1/4 **SAN JOSE, CA**
1181
Higher

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	43-0168		
Reg Board:	San Francisco Bay Region		
Chemical:	Waste Oil		
Lead Agency:	Local Agency		
Case Type:	Soil only		
Status:	Signed off, remedial action completed or deemed unnecessary		
County:	Santa Clara		
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site		
Review Date:	11/02/93	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	11/2/93	Release Date:	11/13/87

LUST Region 2:

Region:	2
Facility Id:	43-0168
Entered Date:	11/23/87

BENNETT'S AUTO SHOP (Continued) **S102425174**

Facility Status:	Signed off, remedial action completed or deemed unnecessary
Maximum Soil Concentration:	2700
Maximum Groundwater Impact:	Not reported
Current Benzene:	Not reported
Current MTBE :	Not reported
Maximum MTBE Groundwater:	Not reported
MTBE Quali:	Not reported

LUST Region SC:

Region:	Santa Clara		
Case Worker:	Case Closed	Closed Date:	11/2/1993
Transfer Date:	Not reported	SCVWD Id:	07S1E20C01f
Date Listed:	Not reported	Case Rank:	S241

C9
NW
1/8-1/4
1181
Higher

BENNETTS AUTOMOTIVE SERVICE
385 WILLOW ST
SAN JOSE, CA 95110

RCRIS-SQG **1000314432**
FINDS **CAD981441835**
HAZNET

RCRIS:

Owner:	STEVE CONNELL (415) 555-1212
Contact:	ENVIRONMENTAL MANAGER (408) 294-2012
Record Date:	09/01/1996
Classification:	Small Quantity Generator
Used Oil Recyc:	No
Violation Status:	No violations found

HAZNET:

Gepaid:	CAD981441835	Tepaid:	CAD980887418
Contact:	STEPHEN CONNELL	Telephone:	(000) 000-0000
Gen County:	Santa Clara	Tsd County:	1
Tons:	0.2919		
Category:	Aqueous solution with less than 10% total organic residues		
Disposal Method:	Transfer Station		
Mailing Address:	385 WILLOW ST SAN JOSE, CA 95110		
County	Santa Clara		

10
SE
1/8-1/4
1225
Higher

MIKE WYLES
355 ALMA
SAN JOSE, CA 95110

HAZNET **S103977664**
N/A

MIKE WYLES (Continued) **S103977664**

HAZNET:

Gepaid:	CAC001140136	Tepaid:	CAL000027741
Contact:	MIKE WYLES	Telephone:	(000) 000-0000
Gen County:	Santa Clara	Tsd County:	5
Tons:	4.2140		
Category:	Asbestos-containing waste		
Disposal Method:	Disposal, Land Fill		
Mailing Address:	355 ALMA SAN JOSE, CA 95110		
County	Santa Clara		

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11 NNW 1/8-1/4 1236 Higher — **JOLLERIA LA SECONA**, **324 WILLOW ST**, **SAN JOSE, CA 95110** — **HAZNET** — **S103972635** / **N/A**

HAZNET:

Gepaid:	CAC002118936	Tepaid:	CAD069138899
Contact:	RIGEBERTO HERNANDEZ	Telephone:	(408) 297-0560
Gen County:	Santa Clara	Tsd County:	Santa Clara
Tons:	0.1251		
Category:	Liquids with cyanides > 1000 mg/l		
Disposal Method:	Recycler		
Mailing Address:	324 WILLOW ST SAN JOSE, CA 95110		
County	Santa Clara		

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12 WSW 1/4-1/2 1472 Higher — **FAHRNER PROPERTY**, **495 MINNESOTA AVE**, **SAN JOSE, CA 95125** — **LUST** — **S103473063** / **N/A**

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	43-2194		
Reg Board:	San Francisco Bay Region		
Chemical:	Gasoline		
Lead Agency:	Local Agency		
Case Type:	Soil only		
Status:	Signed off, remedial action completed or deemed unnecessary		
County:	Santa Clara		
Abate Method:	No Action Required - incident is minor, requiring no remedial action		
Review Date:	09/21/98	Confirm Leak:	10/20/97
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	9/21/98	Release Date:	08/29/96

LUST Region 2:

Region:	2
Facility Id:	43-2194
Entered Date:	12/23/96
Facility Status:	Signed off, remedial action completed or deemed unnecessary
Maximum Soil Concentration:	620
Maximum Groundwater Impact:	Not reported

FAHRNER PROPERTY (Continued) **S103473063**

Current Benzene: Not reported
Current MTBE : Not reported
Maximum MTBE Groundwater: Not reported
MTBE Quali: Not reported

LUST Region SC:

Region:	Santa Clara		
Case Worker:	Lane Davis	Closed Date:	9/21/1998
Transfer Date:	Not reported	SCVWD Id:	07S1E20F01f
Date Listed:	12/23/1996	Case Rank:	U141

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13 NNE 1/4-1/2 1777 Higher **DULLY PROPERTY** **LUST** **S104541904**
1016 S ALMADEN AVENUE **N/A**
SAN JOSE, CA

LUST Region SC:

Region:	Santa Clara		
Case Worker:	Michelle Martin	Closed Date:	Not reported
Transfer Date:	Not reported	SCVWD Id:	07S1E17Q01f
Date Listed:	8/19/1999	Case Rank:	U2-1

D14 NNE 1/4-1/2 1936 Higher **T & T MINIMART** **LUST** **S102438305**
150 WILLOW ST **N/A**
SAN JOSE, CA 95110

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	43-1886		
Reg Board:	San Francisco Bay Region		
Chemical:	Gasoline		
Lead Agency:	Local Agency		
Case Type:	Soil only		
Status:	Signed off, remedial action completed or deemed unnecessary		
County:	Santa Clara		
Abate Method:	No Action Taken - no action has as yet been taken at the site		
Review Date:	05/06/96	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	4/30/96	Release Date:	03/31/94

LUST Region 2:

Region:	2
Facility Id:	43-1886
Entered Date:	01/10/94
Facility Status:	Signed off, remedial action completed or deemed unnecessary
Maximum Soil Concentration:	810
Maximum Groundwater Impact:	Not reported
Current Benzene:	Not reported
Current MTBE :	Not reported
Maximum MTBE Groundwater:	Not reported
MTBE Quali:	Not reported

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
D15 NNE 1/4-1/2 1936 Higher	**T&T MINIMART 150 WILLOW ST SAN JOSE, CA 95110**	**HAZNET LUST**	**S103881053 N/A**

LUST Region SC:

Region:	Santa Clara		
Case Worker:	Lane Davis	Closed Date:	4/30/1996
Transfer Date:	Not reported	SCVWD Id:	07S1E17R01f
Date Listed:	1/10/1994	Case Rank:	S131

HAZNET:

Gepaid:	CAC001199280	Tepaid:	CAD004771168
Contact:	GIANG DO -OWNER	Telephone:	(000) 000-0000
Gen County:	Santa Clara	Tsd County:	San Francisco
Tons:	0.1500		
Category:	Other empty containers 30 gallons or more		
Disposal Method:	Recycler		
Mailing Address:	150 WILLOW ST SAN JOSE, CA 95110		
County	Santa Clara		

16 West 1/4-1/2 1983 Higher	**WILLOW STREET AT GUADALUPE RIVER WILLOW ST AT GUADALUPE RIVER SAN JOSE, CA**	**CA SLIC SMS R_2**	**S102284326 N/A**

WILLOW STREET AT GUADALUPE RIVER (Continued) **S102284326**

SLIC Region 2:

Facility ID:	43S0511		
Region:	2		
Facility Status:	Inactive		
Staff:	DIB		
Last Site Update:	08/09/96		
NPL Status:	Not reported	Discovery Date:	Not reported
Case Type:	Not reported	Sample Date:	Not reported
Contamination:	Not reported		
Lead:	Not reported		

Contamination Level:	Not reported
Number of Municipal Wells Contaminated by Site:	0
Number of Private Wells Contaminated by Site:	0
Soil Removal Action Taken/Needed:	Not reported
Soil Removal or Contaminant Action Started:	Not reported
Soil Removal or Contaminant Action Completed:	Not reported
On-Site Groundwater Extraction or Containment is Needed:	Not reported
On-Site Groundwater Extraction or Containment Started:	Not reported
Off-Site Groundwater Extraction or Containment is Needed:	Not reported
Off-Site Groundwater Extraction or Containment Started:	Not reported
Length of Contamination Plume (Feet):	0
Depth of Contamination Plume (Feet):	0
Wells Closed Due To Contamination of Site:	Not reported
Date of Wells Closure:	Not reported
Nearest Public or Private Drinking Water Well (Feet):	0
Under Jurisdiction of Lead Agency Date:	Not reported
Latitude/Longitude:	0 / 0
Flow Rate:	0
Flow Date:	Not reported
Percent of Contaminants Contained:	0
Contaminant Type:	Not reported
EPA ID:	Not reported
Stages of Site Investigation Process Initiated:	
Begun Characterization :	Not reported
Completed Characterization :	Not reported
Begun Remediation:	Not reported
Completed Remediation:	Not reported
Submitted Remediation Plan:	Not reported
Approved Remediation Plan:	Not reported
Begun Final Remedial Action:	Not reported
Completed Final Remedial Action:	Not reported
Facility Desc:	Not reported
Comment:	Not reported

E17 **LEW SMITH** **CERCLIS** **1000131976**
SE **1545 ALMADEN** **FINDS** **CAD981677222**
1/4-1/2 **SAN JOSE, CA 95113**
2417
Higher

CERCLIS Classification Data:

Site Incident Category:	Not reported	Federal Facility:	Not reported
Ownership Status:	Not reported	NPL Status:	Not reported

CERCLIS Assessment History:

Assessment:	DISCOVERY	Completed:	19861001
Assessment:	PRELIMINARY ASSESSMENT	Completed:	19861201
Assessment:	PRELIMINARY ASSESSMENT	Completed:	19880601

LEW SMITH (Continued) **1000131976**

Assessment: SITE INSPECTION Completed: 19890331
CERCLIS Site Status:
Low

E18 SE 1/4-1/2 2417 Higher

ALMADEN PROPERTY
1545 ALMADEN ROAD
SAN JOSE, CA 95125

Cal-Sites **S101542322**
CA SLIC **N/A**
SMS R_2

CAL-SITES:

Facility ID	43280117
Status:	REFRW - DOES NOT REQUIRE DTSC ACTION. REFERRED TO REGIONAL WATER QUALITY CONTROLBOARD (RWQCB) LEAD
Status Date:	02/22/1996
Lead:	DTSC
Region:	2 - BERKELEY
Branch:	NC - NORTH COAST
File Name:	Not reported
Status Name:	PROPERTY/SITE REFERRED TO RWQCB
Lead Agancy:	DEPT OF TOXIC SUBSTANCES CONTROL
NPL:	Not reported
SIC:	28 MANU - CHEMICALS & ALLIED PRODUCTS
Facility Type:	Not reported
Type Name:	N/A
Staff Member Responsible for Site:	Not reported
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	SF - SAN FRANCISCO BAY
Access:	Uncontrolled
Cortese:	U
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Not reported
No. of Contamintion Sources:	0.00000
Lat/Long:	0.00000° 0.00000′ 0.00000″ / 0.00000° 0.00000′ 0.00000″
Lat/long Method:	Not reported
State Assembly District Code:	Not reported
State Senate District:	Not reported

Activity:

Activity:	SS
Activity Name:	Not reported
AWP Code:	Not reported
Proposed Budget:	0.00000
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	08/28/1995
Est Person-Years to complete:	0.00000
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	REFRW
Definition of Status:	PROPERTY/SITE REFERRED TO RWQCB
Solids Removed (Cubic Yards):	0.00000
Solids Treated (Cubic Yards):	0.00000
Liquids Removed (Gals):	0.00000
Liquids Treated (Gals):	0.00000
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported

ALMADEN PROPERTY (Continued) **S101542322**

Removal Action Certification: Not reported
Acres Available Upon Completion Of Activity
For Commercial Reuse: 0.00000
For Industrial Reuse: 0.00000
For Residential Reuse: 0.00000
Unknown Type: 0.00000
Activity Comments: Not reported

Activity: SS
Activity Name: Not reported
AWP Code: Not reported
Proposed Budget: 0.00000
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 06/16/1988
Est Person-Years to complete: 0.00000
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: REFRW
Definition of Status: PROPERTY/SITE REFERRED TO RWQCB
Solids Removed (Cubic Yards): 0.00000
Solids Treated (Cubic Yards): 0.00000
Liquids Removed (Gals): 0.00000
Liquids Treated (Gals): 0.00000
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Acres Available Upon Completion Of Activity
For Commercial Reuse: 0.00000
For Industrial Reuse: 0.00000
For Residential Reuse: 0.00000
Unknown Type: 0.00000
Activity Comments: Not reported

Activity: SS
Activity Name: Not reported
AWP Code: Not reported
Proposed Budget: 0.00000
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 11/19/1987
Est Person-Years to complete: 0.00000
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: REFRW
Definition of Status: PROPERTY/SITE REFERRED TO RWOCB
Solids Removed (Cubic Yards): 0.00000
Solids Treated (Cubic Yards): 0.00000
Liquids Removed (Gals): 0.00000
Liquids Treated (Gals): 0.00000
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Acres Available Upon Completion Of Activity
For Commercial Reuse: 0.00000
For Industrial Reuse: 0.00000

ALMADEN PROPERTY (Continued) **S101542322**

For Residential Reuse: 0.00000
Unknown Type: 0.00000
Activity Comments: Not reported

All Site Names Associated with Site: ALMADEN PROPERTY
U.S. CELLULOSE
ALMADEN PAINT
LEW SMITH PROPERTY

All Street Addresses: 1545 ALMADEN ROAD
SAN JOSE, CA 95125

Background: Not reported
Id Name: EPA IDENTIFICATION NUMBER
Id Value: CAD981677222

Special Programs:
Program Name: Not reported
Program Code: Not reported
Comments:
Date: 11/19/1987
Comment: SAMPLE RESULTS DCE-1900PPB, VINYL CHLORIDE (VCL)-68PPB
IN WATER 8-87 STUDY
SITE SCREENING DONE CONTAMINATION DOCUMENTED BY HMMP;
2 TANKS (REMOVED)

Date: 06/16/1988
Comment: SITE SCREENING DONE DOCUMENTED LAB RESULTS SHOW
CONTAMINATION OF GROUNDWATER BY
CHLOROBENZEME,DCA,TOLUENE, VINYL
CHLORIDE, PROPAME & BUTANO NORTHEAST.
PUMPING OF WATER WAS TRIED BUT DID NOT,
INSTEAD MORE CONTAMINANTS SHOWED UP

Date: 08/30/1989
Comment: EPA completed SSI and recommends Listing Site Inspection.
EPA is the lead agency for the site.

Date: 10/26/1995
Comment: PEA is required, RWQCB was actively involved in this site.
EPA is the lead agency (According to USEPA staff: March 1995
EPA CERCLIS DATA BASE Run date 3/14/1995 did not show
Almaden Property Site in the EPA Print out provided to DTSC.
RWQCB staff confirmed that the Board is no more involved.
RWQCB staff encourages DTSC to take lead on this site.
EPA may not oversee this site any longer
However, waiting for current status info of EPA oversight.
Before finalizing invite letter EPA inf will be available.
Not reported

ALMADEN PROPERTY (Continued) **S101542322**

SLIC Region 2:

Facility ID:	43S0183		
Region:	2		
Facility Status:	Active		
Staff:	VAC		
Last Site Update:	12/05/91		
NPL Status:	Not an NPL site	Discovery Date:	08/08/85
Case Type:	TK	Sample Date:	02/25/88
Contamination:	UNDERGROUND CHEMICAL STORAGE TANKS		
Lead:	2189.8213 RWQCB		

Contamination Level:	Not reported
Number of Municipal Wells Contaminated by Site:	0
Number of Private Wells Contaminated by Site:	0
Soil Removal Action Taken/Needed:	Yes
Soil Removal or Contaminant Action Started:	08/08/85
Soil Removal or Contaminant Action Completed:	Not reported
On-Site Groundwater Extraction or Containment is Needed:	Not Determined
On-Site Groundwater Extraction or Containment Started:	Not reported
Off-Site Groundwater Extraction or Containment is Needed:	Not Determined
Off-Site Groundwater Extraction or Containment Started:	Not reported
Length of Contamination Plume (Feet):	45
Depth of Contamination Plume (Feet):	30
Wells Closed Due To Contamination of Site:	Not reported
Date of Wells Closure:	Not reported
Nearest Public or Private Drinking Water Well (Feet):	0
Under Jurisdiction of Lead Agency Date:	7/14/86
Latitude/Longitude:	37 / -122
Flow Rate:	0
Flow Date:	Not reported
Percent of Contaminants Contained:	0
Contaminant Type:	Not reported
EPA ID:	Not reported
Stages of Site Investigation Process Initiated:	
Begun Characterization :	Yes
Completed Characterization :	No
Begun Remediation:	No
Completed Remediation:	No
Submitted Remediation Plan:	No
Approved Remediation Plan:	No
Begun Final Remedial Action:	No
Completed Final Remedial Action:	No
Facility Desc:	PAINT MANUFACTURE AND SOLVENT MIXING
Comment:	Not reported

F19 **MONIZ RESIDENCE** **LUST** **S103473033**
SSW **1462 HERVEY LN** **N/A**
1/4-1/2 **SAN JOSE, CA 95125**
2625
Higher

MONIZ RESIDENCE (Continued) **S103473033**

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	43-2260		
Reg Board:	San Francisco Bay Region		
Chemical:	Gasoline		
Lead Agency:	Local Agency		
Case Type:	Soil only		
Status:	Signed off, remedial action completed or deemed unnecessary		
County:	Santa Clara		
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site		
Review Date:	02/24/99	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	9/1/98	Release Date:	05/23/97

LUST Region 2:

Region:	2
Facility Id:	43-2260
Entered Date:	10/16/98
Facility Status:	Signed off, remedial action completed or deemed unnecessary
Maximum Soil Concentration:	38000
Maximum Groundwater Impact:	Not reported
Current Benzene:	Not reported
Current MTBE :	Not reported
Maximum MTBE Groundwater:	Not reported
MTBE Quali:	Not reported

F20 SSW 1/4-1/2 2625 Higher | **MONIZ RESIDENCE** **1462 HERVEY LANE** **SAN JOSE, CA** | **LUST** | **S104541912** **N/A**

LUST Region SC:

Region:	Santa Clara		
Case Worker:	Greg Gibson	Closed Date:	9/1/1998
Transfer Date:	Not reported	SCVWD Id:	07S1E20L02f
Date Listed:	7/22/1997	Case Rank:	U2-1

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21 West 1/4-1/2 2634 Higher | **R & D LIQUORS** **656 WILLOW ST** **SAN JOSE, CA** | **LUST** | **S102435589** **N/A**

R & D LIQUORS (Continued) **S102435589**

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	43-2121		
Reg Board:	San Francisco Bay Region		
Chemical:	Gasoline		
Lead Agency:	Local Agency		
Case Type:	Soil only		
Status:	Signed off, remedial action completed or deemed unnecessary		
County:	Santa Clara		
Review Date:	06/07/96	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	5/30/96	Release Date:	05/08/96

LUST Region 2:

Region:	2
Facility Id:	43-2121
Entered Date:	06/06/96
Facility Status:	Signed off, remedial action completed or deemed unnecessary
Maximum Soil Concentration:	900
Maximum Groundwater Impact:	Not reported
Current Benzene:	Not reported
Current MTBE :	Not reported
Maximum MTBE Groundwater:	Not reported
MTBE Quali:	Not reported

LUST Region SC:

Region:	Santa Clara		
Case Worker:	Linda Dorn	Closed Date:	5/30/1996
Transfer Date:	Not reported	SCVWD Id:	07S1E20E02f
Date Listed:	6/6/1996	Case Rank:	S141

22
North
1/2-1
3105
Lower

130 W. VIRGINIA
SAN JOSE, CA 95112

CHMIRS **S100216954**
N/A

CHMIRS:

OES Control Number:	8905244	DOT ID:	1255
DOT Hazard Class:	Flammable liquid		
Chemical Name:	SOLVENT		
Extent of Release:	Not reported		
CAS Number:	Not reported	Quantity Released:	60
Environmental Contamination:	Air	Property Use:	Industrial, Utility
Incident Date:	13-MAR-89	Date Completed:	13-MAR-89

23
ESE
1/2-1
3160
Higher

FORD WHOLESALE
199 SAN JOSE AVE
SAN JOSE, CA 95125

Cortese **S102430116**
LUST **N/A**

FORD WHOLESALE (Continued) **S102430116**

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	43-2004		
Reg Board:	San Francisco Bay Region		
Chemical:	Diesel		
Lead Agency:	Local Agency		
Case Type:	Soil only		
Status:	Signed off, remedial action completed or deemed unnecessary		
County:	Santa Clara		
Abate Method:	No Action Taken - no action has as yet been taken at the site		
Review Date:	10/16/98	Confirm Leak:	9/7/94
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	10/16/98	Release Date:	09/24/94

LUST Region 2:

Region:	2
Facility Id:	43-2004
Entered Date:	02/23/95
Facility Status:	Signed off, remedial action completed or deemed unnecessary
Maximum Soil Concentration:	310
Maximum Groundwater Impact:	Not reported
Current Benzene:	Not reported
Current MTBE :	Not reported
Maximum MTBE Groundwater:	Not reported
MTBE Quali:	Not reported

LUST Region SC:

Region:	Santa Clara		
Case Worker:	Adele Shepherd	Closed Date:	10/16/1998
Transfer Date:	Not reported	SCVWD Id:	07S1E21E02f
Date Listed:	2/23/1995	Case Rank:	U141

CORTESE:

Reg By:	LTNKA
Reg Id:	43-2004
Region:	CORTESE

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24 SSE 1/2-1 3290 Higher | **UNIVERSAL PAINT 1639 ALMADEN SAN JOSE, CA** | **Cortese CA SLIC SMS R_2** | **S101309108 N/A**

CORTESE:

Reg By:	LTNKA
Reg Id:	43-1850
Region:	CORTESE

UNIVERSAL PAINT (Continued) **S101309108**

SLIC Region 2:

Facility ID:	43S0424		
Region:	2		
Facility Status:	Closed - No Further Action		
Staff:	Not reported		
Last Site Update:	01/05/95		
NPL Status:	Not an NPL site	Discovery Date:	Not reported
Case Type:	Not reported	Sample Date:	Not reported
Contamination:	Not reported		
Lead:	RWQCB		

Contamination Level:	Not reported
Number of Municipal Wells Contaminated by Site:	0
Number of Private Wells Contaminated by Site:	0
Soil Removal Action Taken/Needed:	Not reported
Soil Removal or Contaminant Action Started:	Not reported
Soil Removal or Contaminant Action Completed:	Not reported
On-Site Groundwater Extraction or Containment is Needed:	Not reported
On-Site Groundwater Extraction or Containment Started:	Not reported
Off-Site Groundwater Extraction or Containment is Needed:	Not reported
Off-Site Groundwater Extraction or Containment Started:	Not reported
Length of Contamination Plume (Feet):	0
Depth of Contamination Plume (Feet):	0
Wells Closed Due To Contamination of Site:	Not reported
Date of Wells Closure:	Not reported
Nearest Public or Private Drinking Water Well (Feet):	0
Under Jurisdiction of Lead Agency Date:	Not reported
Latitude/Longitude:	37 / -122
Flow Rate:	0
Flow Date:	Not reported
Percent of Contaminants Contained:	0
Contaminant Type:	Not reported
EPA ID:	Not reported
Stages of Site Investigation Process Initiated:	
Begun Characterization :	Not reported
Completed Characterization :	Not reported
Begun Remediation:	Not reported
Completed Remediation:	Not reported
Submitted Remediation Plan:	Not reported
Approved Remediation Plan:	Not reported
Begun Final Remedial Action:	Not reported
Completed Final Remedial Action:	Not reported
Facility Desc:	Not reported
Comment:	Not reported

G25 **BAY TRANSMISSIONS** **Cortese** **S101309226**
East **1474 MONTEREY HWY** **LUST** **N/A**
1/2-1 **SAN JOSE, CA**
3300
Higher

BAY TRANSMISSIONS (Continued) **S101309226**

State LUST:

Cross Street:	ALMA		
Qty Leaked:	Not reported		
Case Number	43-1686		
Reg Board:	San Francisco Bay Region		
Chemical:	Gasoline		
Lead Agency:	Local Agency		
Case Type:	Undefined		
Status:	Pollution characterization		
County:	Santa Clara		
Abate Method:	No Action Taken - no action has as yet been taken at the site		
Review Date:	08/25/93	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	8/25/93	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	Not reported	Release Date:	02/13/91

LUST Region 2:

Region:	2
Facility Id:	43-1686
Entered Date:	04/22/93
Facility Status:	Pollution characterization
Maximum Soil Concentration:	Not reported
Maximum Groundwater Impact:	Not reported
Current Benzene:	Not reported
Current MTBE :	Not reported
Maximum MTBE Groundwater:	Not reported
MTBE Quali:	Not reported

LUST Region SC:

Region:	Santa Clara		
Case Worker:	Rita Chan	Closed Date:	Not reported
Transfer Date:	Not reported	SCVWD Id:	07S1E21C02f
Date Listed:	4/22/1993	Case Rank:	O341

CQRTESE:

Reg By:	LTNKA
Reg Id:	43-1686
Region:	CORTESE

G26 East 1/2-1 3382 Higher **SUN GARDEN PACKING COMPAN** **Cortese LUST** **1000594087 N/A**
1582 MONTEREY HWY
SAN JOSE, CA 95112

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	43-1409		
Reg Board:	San Francisco Bay Region		
Chemical:	Diesel		
Lead Agency:	Local Agency		
Case Type:	Soil only		
Status:	Remedial action (cleanup) in progress		
County:	Santa Clara		
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site		
Review Date:	02/23/93	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	5/26/92

SUN GARDEN PACKING COMPAN (Continued) **1000594087**

Pollution Char:	5/26/92	Remed Plan:	Not reported
Remed Action:	1/15/91	Monitoring:	Not reported
Close Date:	Not reported	Release Date:	02/22/91

LUST Region 2:

Region:	2
Facility Id:	43-1409
Entered Date:	03/25/91
Facility Status:	Remedial action (cleanup) in progress
Maximum Soil Concentration:	7300
Maximum Groundwater Impact:	Not reported
Current Benzene:	Not reported
Current MTBE :	Not reported
Maximum MTBE Groundwater;	Not reported
MTBE Quali:	Not reported

LUST Region SC:

Region:	Santa Clara		
Case Worker:	Rita Chan	Closed Date:	Not reported
Transfer Date:	Not reported	SCVWD Id:	07S1E21C01f
Date Listed:	3/25/1991	Case Rank:	O431

CORTESE:

Reg By:	LTNKA
Reg Id:	43-1409
Region:	CORTESE

H27 **CHMIRS** **S100275587**
SE **271 BARNARD AV** **N/A**
1/2-1 **SAN JOSE, CA 95112**
3689
Higher

CHMIRS:

OES Control Number:	9000869	DOT ID:	2177
DOT Hazard Class:	Oxidizers and organic pesticides		
Chemical Name:	T-BUTYL PEROXYNEODECANOATE		
Extent of Release:	Not reported		
CAS Number:	26748-41-4	Quantity Released:	200
Environmental Contamination:	Ground	Property Use:	Manufacturing
Incident Date:	24-MAR-90	Date Completed:	24-MAR-90

H28 **CHMIRS** **S100277686**
SE **271 BARNARD AVENUE** **N/A**
1/2-1 **SAN JOSE, CA 95125**
3689
Higher

CHMIRS:

OES Control Number:	9117221	DOT ID:	1203
DOT Hazard Class:	Flammable liquid		
Chemical Name:	POLYESTER RESIN		
Extent of Release:	Not reported		
CAS Number:	Not reported	Quantity Released:	3000
Environmental Contamination:	Ground	Property Use:	Industrial, Utility
Incident Date:	26-MAY-91	Date Completed:	08-SEP-92

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
I29 NNE 1/2-1 3792 Higher	**SAN JOSE FIRE STATION #3 98 MARTHA ST SAN JOSE, CA 95112**	**Cortese LUST**	**S100235112 N/A**

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	43-1186		
Reg Board:	San Francisco Bay Region		
Chemical:	Diesel		
Lead Agency:	Local Agency		
Case Type:	Soil only		
Status:	Preliminary site assessment workplan submitted		
County:	Santa Clara		
Abate Method:	No Action Taken - no action has as yet been taken at the site		
Review Date:	11/15/90	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	Not reported	Release Date:	11/15/90

LUST Region 2:

Region:	2
Facility Id:	43-1186
Entered Date:	12/17/90
Facility Status:	Preliminary site assessment workplan submitted
Maximum Soil Concentration:	1900
Maximum Groundwater Impact:	Not reported
Current Benzene:	Not reported
Current MTBE :	Not reported
Maximum MTBE Groundwater:	Not reported
MTBE Quali:	Not reported

LUST Region SC:

Region:	Santa Clara		
Case Worker:	Rita Chan	Closed Date:	6/26/2000
Transfer Date:	Not reported	SCVWD Id:	07S1E17J03f
Date Listed:	12/17/1990	Case Rank:	S232

CORTESE:

Reg By:	LTNKA
Reg Id:	43-1186
Region:	CORTESE

I30 NNE 1/2-1 3800 Higher	**897 S 3RD ST SAN JOSE, CA 95112**	**CHMIRS**	**S100216637 N/A**

CHMIRS:

OES Control Number:	8804266	DOT ID:	1079
DOT Hazard Class:	Poisonous and etiologic (infectious) material		
Chemical Name:	SULFUR DIOXIDE		
Extent of Release:	Not reported		
CAS Number:	RN7446095	Quantity Released:	10
Environmental Contamination:	Air	Property Use:	Residential
Incident Date:	26-DEC-88	Date Completed:	26-DEC-88

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
31 SSE 1/2-1 3880 Higher	**1754 ANGELA STREET SAN JOSE, CA 95125**	**CHMIRS**	**S100219335 N/A**

CHMIRS:

OES Control Number:	9000720	DOT ID:	Not reported
DOT Hazard Class:	Not Reported		
Chemical Name:	PAINT		
Extent of Release:	Not reported		
CAS Number:	Not reported	Quantity Released:	50
Environmental Contamination:	None Reported	Property Use:	County/City Road
Incident Date:	18-MAR-90	Date Completed:	17-MAR-90

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32 East 1/2-1 3971 Higher	**AN JAN FEED & PET SUPPLY 1633 N 1ST ST SAN JOSE, CA**	**Cortese LUST**	**S101309366 N/A**

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	43-1801		
Reg Board:	San Francisco Bay Region		
Chemical:	Gasoline		
Lead Agency:	Local Agency		
Case Type:	Undefined		
Status:	Preliminary site assessment workplan submitted		
County:	Santa Clara		
Abate Method:	No Action Taken - no action has as yet been taken at the site		
Review Date:	01/15/93	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	Not reported	Release Date:	08/03/92

LUST Region 2:

Region:	2
Facility Id:	43-1801
Entered Date:	01/15/93
Facility Status:	Preliminary site assessment workplan submitted
Maximum Soil Concentration:	Not reported
Maximum Groundwater Impact:	Not reported
Current Benzene:	Not reported
Current MTBE :	Not reported
Maximum MTBE Groundwater:	Not reported
MTBE Quali:	Not reported

LUST Region SC:

Region:	Santa Clara		
Case Worker:	Cindy Kao	Closed Date:	Not reported
Transfer Date:	Not reported	SCVWD Id:	07S1E21F04f
Date Listed:	1/15/1993	Case Rank:	U132

CORTESE:

Reg By:	LTNKA
Reg Id:	43-1801
Region:	CORTESE

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
33 NE 1/2-1 4028 Same	**SAN JOSE STATE UNIVERSITY 1 WASHINGTON SQUARE SAN JOSE, CA 95192**	**FINDS RCRIS-LQG UST HAZNET Cortese LUST**	**1000121110 CAT080031206**

RCRIS:

Owner: STATE OF CALIFORNIA
(415) 555-1212

Contact: ENVIRONMENTAL MANAGER
(408) 277-2511

Record Date: 09/01/1996

Classification: Large Quantity Generator

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1997

Waste	Quantity (Lbs)	Waste	Quantity (Lbs)
D001	5503.00	D002	4248.00
D003	25.00	D004	400.01
D005	1480.00	D006	400.01
D007	400.01	D008	890.01
D009	24.00	D010	140.00
D011	4815.16	D018	1500.00
D019	2550.00	D022	80.00
F002	2970.01	F003	4325.00
F005	2570.00	LABP	1265.00

Used Oil Recyc: No

Violation Status: Violation information exist

There are 5 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	05/30/1995
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	12/30/1993
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	11/02/1994
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	08/04/1987

State LUST:

Cross Street: Not reported
Qty Leaked: Not reported
Case Number 43-2111
Reg Board: San Francisco Bay Region
Chemical: Diesel
Lead Agency: Local Agency
Case Type: Other ground water affected
Status: Leak being confirmed
County: Santa Clara

Review Date:	01/10/96	Confirm Leak:	1/10/96
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	Not reported	Release Date:	08/15/95

LUST Region 2:

SAN JOSE STATE UNIVERSITY (Continued) **1000121110**

Region:	2
Facility Id:	43-2111
Entered Date:	01/10/96
Facility Status:	Leak being confirmed
Maximum Soil Concentration:	ND
Maximum Groundwater Impact:	110
Current Benzene:	Not reported
Current MTBE :	Not reported
Maximum MTBE Groundwater:	Not reported
MTBE Quali:	Not reported

HAZNET:

Gepaid:	CAT080031206	Tepaid:	AZD049318009
Contact:	SAN JOSE STATE UNIVERSITY	Telephone:	(408) 924-2152
Gen County:	Santa Clara	Tsd County:	99
Tons:	0.2293		
Category:			
Disposal Method:	Disposal, Other		
Mailing Address:	1 WASHINGTON SQ SAN JOSE, CA 95192 - 0222		
County	Santa Clara		

Gepaid:	CAL000111329	Tepaid:	CAD980887418
Contact:	SAN JOSE STATE UNIVERSITY	Telephone:	(408) 924-2152
Gen County:	Santa Clara	Tsd County:	1
Tons:	0.2293		
Category:	Waste oil and mixed oil		
Disposal Method:	Not reported		
Mailing Address:	1 WASHINGTON SQ SAN JOSE, CA 95192 - 0222		
County	Santa Clara		

Gepaid:	CAL000122162	Tepaid:	CAT080010101
Contact:	SAN JOSE STATE UNIVERSITY	Telephone:	(408) 924-2152
Gen County:	Santa Clara	Tsd County:	San Diego
Tons:	0.6000		
Category:	Other organic solids		
Disposal Method:	Transfer Station		
Mailing Address:	1 WASHINGTON SQ SAN JOSE, CA 95192 - 0222		
County	Santa Clara		

Gepaid:	CAC000773976	Tepaid:	CAD982042475
Contact:	SAN JOSE STATE UNI	Telephone:	(000) 000-0000
Gen County:	Santa Clara	Tsd County:	Solano
Tons:	10.9564		
Category:	Asbestos-containing waste		
Disposal Method:	Disposal, Land Fill		
Mailing Address:	1 WASHINGTON SQUARE SAN JOSE, CA 95192 - 0222		
County	Santa Clara		

CORTESE:

Reg By:	LTNKA
Reg Id:	43-2111
Region:	CORTESE

SAN JOSE STATE UNIVERSITY (Continued) **1000121110**

State UST:

Facility ID:	38758		
Tank Num:	1	Container Num:	1
Tank Capacity:	1200	Year Installed:	1971
Tank Used for:	PRODUCT		
Type of Fuel:	DIESEL	Tank Constrctn:	Not reported
Leak Detection:	None		
Contact Name:	GEORGE CONNELL	Telephone:	(408) 277-2122
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	UNIVERSITY

Facility ID:	38758		
Tank Num:	2	Container Num:	13
Tank Capacity:	100	Year Installed:	1964
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	None		
Contact Name:	GEORGE CONNELL	Telephone:	(408) 277-2122
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	UNIVERSITY

Facility ID:	38758		
Tank Num:	3	Container Num:	14
Tank Capacity:	2000	Year Installed:	1978
Tank Used for:	PRODUCT		
Type of Fuel:	REGULAR	Tank Constrctn:	Not reported
Leak Detection:	None		
Contact Name:	GEORGE CONNELL	Telephone:	(408) 277-2122
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	UNIVERSITY

Facility ID:	38758		
Tank Num:	4	Container Num:	12
Tank Capacity:	1000	Year Installed:	1963
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	None		
Contact Name:	GEORGE CONNELL	Telephone:	(408) 277-2122
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	UNIVERSITY

Facility ID:	38758		
Tank Num:	5	Container Num:	11
Tank Capacity:	10000	Year Installed:	1964
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	None		
Contact Name:	GEORGE CONNELL	Telephone:	(408) 277-2122
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	UNIVERSITY

SAN JOSE STATE UNIVERSITY (Continued) **1000121110**

Facility ID:	38758		
Tank Num:	6	Container Num:	10
Tank Capacity:	1000	Year Installed:	1979
Tank Used for:	PRODUCT		
Type of Fuel:	DIESEL	Tank Constrctn:	Not reported
Leak Detection:	None		
Contact Name:	GEORGE CONNELL	Telephone:	(408) 277-2122
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	UNIVERSITY

Facility ID:	38758		
Tank Num:	7	Container Num:	9
Tank Capacity:	2000	Year Installed:	1979
Tank Used for:	PRODUCT		
Type of Fuel:	DIESEL	Tank Constrctn:	Not reported
Leak Detection:	None		
Contact Name:	GEORGE CONNELL	Telephone:	(408) 277-2122
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	UNIVERSITY

Facility ID:	38758		
Tank Num:	8	Container Num:	8
Tank Capacity:	8000	Year Installed:	1979
Tank Used for:	PRODUCT		
Type of Fuel:	UNLEADED	Tank Constrctn:	Not reported
Leak Detection:	None		
Contact Name:	GEORGE CONNELL	Telephone:	(408) 277-2122
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	UNIVERSITY

Facility ID:	38758		
Tank Num:	9	Container Num:	7
Tank Capacity:	8000	Year Installed:	1979
Tank Used for:	PRODUCT		
Type of Fuel:	REGULAR	Tank Constrctn:	Not reported
Leak Detection:	None		
Contact Name:	GEORGE CONNELL	Telephone:	(408) 277-2122
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	UNIVERSITY

Facility ID:	38758		
Tank Num:	10	Container Num:	6
Tank Capacity:	1200	Year Installed:	1970
Tank Used for:	PRODUCT		
Type of Fuel:	DIESEL	Tank Constrctn:	Not reported
Leak Detection:	None		
Contact Name:	GEORGE CONNELL	Telephone:	(408) 277-2122
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	UNIVERSITY

SAN JOSE STATE UNIVERSITY (Continued) **1000121110**

Facility ID:	38758		
Tank Num:	11	Container Num:	5
Tank Capacity:	1200	Year Installed:	1970
Tank Used for:	PRODUCT		
Type of Fuel:	DIESEL	Tank Constrctn:	Not reported
Leak Detection:	None		
Contact Name:	GEORGE CONNELL	Telephone:	(408) 277-2122
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	UNIVERSITY

Facility ID:	38758		
Tank Num:	12	Container Num:	4
Tank Capacity:	1200	Year Installed:	1970
Tank Used for:	PRODUCT		
Type of Fuel:	DIESEL	Tank Constrctn:	Not reported
Leak Detection:	None		
Contact Name:	GEORGE CONNELL	Telephone:	(408) 277-2122
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	UNIVERSITY

Facility ID:	38758		
Tank Num:	13	Container Num:	3
Tank Capacity:	1200	Year Installed:	1970
Tank Used for:	PRODUCT		
Type of Fuel:	DIESEL	Tank Constrctn:	Not reported
Leak Detection:	None		
Contact Name:	GEORGE CONNELL	Telephone:	(408) 277-2122
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	UNIVERSITY

Facility ID:	38758		
Tank Num:	14	Container Num:	2
Tank Capacity:	1200	Year Installed:	1970
Tank Used for:	PRODUCT		
Type of Fuel:	DIESEL	Tank Constrctn:	Not reported
Leak Detection:	None		
Contact Name:	GEORGE CONNELL	Telephone:	(408) 277-2122
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	UNIVERSITY

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34 ESE 1/2-1 4115 Higher

LEISURE PRODUCT SYSTEMS **Cortese** **S101309119**
64 BARNARD AVE **N/A**
SAN JOSE, CA

CORTESE:
Reg By: LTNKA
Reg Id: 43-1619
Region: CORTESE

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35 NNW 1/2-1 4220 Lower

CHMIRS **S100280315**
ALMADEN BLVD. / W. REED STREET **N/A**
SAN JOSE, CA

(Continued) **S100280315**

CHMIRS:

OES Control Number:	9116431	DOT ID:	1832
DOT Hazard Class:	Corrosives		
Chemical Name:	ACID, SULFURIC		
Extent of Release:	Not reported		
CAS Number:	Not reported	Quantity Released:	2
Environmental Contamination:	Ground	Property Use:	County/City Road
Incident Date:	11-APR-91	Date Completed:	11-APR-91

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36 NE 1/2-1 4325 Lower

KEYES AUTO SERVICE
245 KEYES ST
SAN JOSE, CA 95112

HAZNET **S104162847**
Cortese **N/A**

HAZNET:

Gepaid:	CAL921255993	Tepaid:	CAD093459485
Contact:	CHAY LA	Telephone:	(408) 298-0110
Gen County:	Santa Clara	Tsd County:	Fresno
Tons:	0.0332		
Category:	Unspecified solvent mixture Waste		
Disposal Method:	Transfer Station		
Mailing Address:	245 KEYES ST SAN JOSE, CA 95112 - 3906		
County	Santa Clara		

CORTESE:

Reg By:	LTNKA
Reg Id:	43-1370
Region:	CORTESE

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37 NNE 1/2-1 4436 Lower

MOORE PROPERTY
199 MARTHA ST
SAN JOSE, CA 95112

Cortese **S102433968**
N/A

CORTESE:

Reg By:	LTNKA
Reg Id:	43-0952
Region:	CORTESE

J38 ESE 1/2-1 4459 Higher

MONTEREY RD. / PHELAN AVE.
SAN JOSE, CA

CHMIRS **S100222320**
N/A

CHMIRS:

OES Control Number:	9991104	DOT ID:	NONE
DOT Hazard Class:	Not Reported		
Chemical Name:	LIME, HYDRATED		
Extent of Release:	Not reported		
CAS Number:	Not reported	Quantity Released:	100
Environmental Contamination:	Other	Property Use:	Mercantile, Business
Incident Date:	01-AUG-88	Date Completed:	01-AUG-88

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
39 NE 1/2-1 4461 Lower	KEYES AT S. 7TH SAN JOSE, CA	CHMIRS	S100217724 N/A

CHMIRS:

OES Control Number:	8907924	DOT ID:	1993
DOT Hazard Class:	Flammable liquid		
Chemical Name:	DIESEL FUEL		
Extent of Release:	Not reported		
CAS Number:	Not reported	Quantity Released:	50
Environmental Contamination:	Ground	Property Use:	County/City Road
Incident Date:	14-SEP-89	Date Completed:	14-SEP-89

J40 ESE 1/2-1 4516 Higher	MICRO METALLICS 1695 S 1ST ST SAN JOSE, CA 95112	FINDS RCRIS-LQG RCRIS-TSD CORRACTS CERC-NFRAP	1000366157 CAD069124717

CERCLIS-NFRAP Classification Data:

Site Incident Category:	Not reported	Federal Facility:	Not a Federal Facility
Ownership Status:	Unknown	NPL Status:	Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY	Completed:	19860501
Assessment:	PRELIMINARY ASSESSMENT	Completed:	19871101

CORRACTS Data:

Prioritization: Medium

Status: RFI Imposition, RFI Workplan Approved, RCRA Facility Investigation Approved, Date for Remedy Selection (CM Imposed)

RCRIS Corrective Action Summary:

Effective Date: 11/01/1994
Legal Authority: Other, specified by Legal Authority Citation
Effective Date: 05/17/1995
Legal Authority: RCRA 3004(u) or equivalent

RCRIS:

Owner: MICRO METALLICS CORP
(415) 555-1212

Contact: ENVIRONMENTAL MANAGER
(408) 998-4930

Record Date: 09/01/1996

Classification: Large Quantity Generator

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1997

Waste	Quantity (Lbs)	Waste	Quantity (Lbs)
D001	150.13	D002	94695.40
D003	81158.14	D004	94078.40
D006	23935.26	D007	13511.26
D008	27278.30	D009	1468.00
D011	13616.92	F006	2709.00
F007	83276.14		

MICRO METALLICS (Continued) **1000366157**

Used Oil Recyc: No

Violation Status: Violation information exist

There are 31 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	02/23/1999
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	
	TSD-Other Requirements	
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	
	TSD-Financial Responsibility Requirements	
	TSD-Land Ban Requirements	
	TSD-Other Requirements	
	TSD-Other Requirements	
Compliance Evaluation Inspection (CEI)	TSD-Closure/Post Closure Requirements	02/26/1993
	TSD-Land Ban Requirements	02/26/1993
	TSD-Other Requirements	02/26/1993
	Generator-Land Ban Requirements	02/26/1993
	Generator-All Requirements	02/26/1993
	TSD-Other Requirements	02/26/1993
	TSD-Other Requirements	02/26/1993
	TSD-Other Requirements	02/26/1993
	TSD-Other Requirements	02/26/1993
	TSD-Other Requirements	02/26/1993
	Generator-All Requirements	02/26/1993
	TSD-Other Requirements	02/26/1993
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	02/26/1993
	TSD-Other Requirements	02/26/1993
	TSD-Other Requirements	02/26/1993
	TSD-Other Requirements	02/26/1993
	Generator-All Requirements	02/26/1993
	TSD-Other Requirements	02/26/1993
	TSD-Other Requirements	02/26/1993
Financial Record Review (FRR)	Generator-All Requirements	06/30/1987
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	06/30/1987
	Formal Enforcement Agreement	06/30/1987
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	11/05/1985

FINDS:
Other Pertinent Environmental Activity Identified at Site:
AIRS Facility System (AIRS/AFS)

41
WNW
1/2-1
4527
Higher

YELLOW CAB COMPANY
615 BIRD AVE
SAN JOSE, CA 95125

Cortese **S102441413**
LUST **N/A**

YELLOW CAB COMPANY (Continued) **S102441413**

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	43-2003		
Reg Board:	San Francisco Bay Region		
Chemical:	Waste Oil		
Lead Agency:	Local Agency		
Case Type:	Soil only		
Status:	Preliminary site assessment workplan submitted		
County:	Santa Clara		
Abate Method:	No Action Taken - no action has as yet been taken at the site		
Review Date:	09/07/94	Confirm Leak:	9/7/94
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	Not reported	Release Date:	09/02/94

LUST Region 2:

Region:	2
Facility Id:	43-2003
Entered Date:	02/23/95
Facility Status:	Preliminary site assessment workplan submitted
Maximum Soil Concentration:	160
Maximum Groundwater Impact:	Not reported
Current Benzene:	Not reported
Current MTBE :	Not reported
Maximum MTBE Groundwater:	Not reported
MTBE Quali:	Not reported

LUST Region SC:

Region:	Santa Clara		
Case Worker:	Rita Chan	Closed Date:	Not reported
Transfer Date:	Not reported	SCVWD Id:	07S1E18R01f
Date Listed:	2/23/1995	Case Rank:	O131

CORTESE:

Reg By:	LTNKA
Reg Id:	43-2003
Region:	CORTESE

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42 **D'AMICO PROPERTY** **Cortese** **S101303970**
NNE **130 MARGARET ST** **LUST** **N/A**
1/2-1 **SAN JOSE, CA 95108**
4803
Lower

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	43-1870		
Reg Board:	San Francisco Bay Region		
Chemical:	Heater Fuel		
Lead Agency:	Local Agency		
Case Type:	Other ground water affected		
Status:	Leak being confirmed		
County:	Santa Clara		
Abate Method:	No Action Taken - no action has as yet been taken at the site		
Review Date:	05/12/94	Confirm Leak:	5/13/94
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported

D'AMICO PROPERTY (Continued) **S101303970**

Remed Action: Not reported
Monitoring: Not reported
Close Date: Not reported
Release Date: 04/21/94

LUST Region 2:
Region: 2
Facility Id: 43-1870
Entered Date: 07/27/94
Facility Status: Leak being confirmed
Maximum Soil Concentration: 9500
Maximum Groundwater Impact: 840
Current Benzene: Not reported
Current MTBE : Not reported
Maximum MTBE Groundwater: Not reported
MTBE Quali: Not reported

LUST Region SC:
Region: Santa Clara
Case Worker: Rita Chan
Closed Date: Not reported
Transfer Date: Not reported
SCVWD Id: 07S1E17H03f
Date Listed: 7/27/1994
Case Rank: O231

CORTESE:
Reg By: LTNKA
Reg Id: 43-1870
Region: CORTESE

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43 ESE 1/2-1 4826 Higher

FAITH PLATING BLDG 42 C **Cortese** **S101304162**
1775 N 1ST ST **N/A**
SAN JOSE, CA 95112

CORTESE:
Reg By: LTNKA
Reg Id: 43-0560
Region: CORTESE

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44 ESE 1/2-1 4964 Higher

SIMS LMC RECYCLERS **RCRIS-SQG** **1000124101**
1800 MONTEREY HWY **FINDS** **CAD981999980**
SAN JOSE, CA 95112 **Cortese**

RCRIS:
Owner: SIMSMETAL USA CORP
(510) 236-0606
Contact: SHANE GRICE
(408) 294-8443
Record Date: 02/17/1994
Classification: Hazardous Waste Transporter

SIMS LMC RECYCLERS (Continued) **1000124101**

Used Oil Recyc: No

Violation Status: No violations found

CORTESE:
Reg By: LTNKA
Reg Id: 43-0823
Region: CORTESE

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45 SE 1/2-1 5103 Higher

ANELLO TRUCKING CO
1999 STONE AVE
SAN JOSE, CA 95125

RCRIS-SQG **1000289598**
FINDS **CAD051609238**
Cortese
LUST

RCRIS:
Owner: ANELLO TRUCKING CO A CORPORATION
(415) 555-1212

Contact: ENVIRONMENTAL MANAGER
(408) 286-9993

Record Date: 11/21/1980

Classification: Hazardous Waste Transporter

Used Oil Recyc: No

Violation Status: No violations found

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	43-0076		
Reg Board:	San Francisco Bay Region		
Chemical:	Diesel		
Lead Agency:	Local Agency		
Case Type:	Aquifer affected		
Status:	Pollution characterization		
County:	Santa Clara		
Abate Method:	No Action Taken - no action has as yet been taken at the site		
Review Date:	03/04/91	Confirm Leak:	Not reported
Workplan:	3/15/94	Prelim Assess:	Not reported
Pollution Char:	3/4/91	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	Not reported	Release Date:	02/06/91

LUST Region 2:

Region:	2
Facility Id:	43-0076
Entered Date:	03/21/91
Facility Status:	Pollution characterization
Maximum Soil Concentration:	8800
Maximum Groundwater Impact:	5
Current Benzene:	Not reported
Current MTBE :	<5
Maximum MTBE Groundwater:	5
MTBE Quali:	<

LUST Region SC:

Region:	Santa Clara		
Case Worker:	George Cook	Closed Date:	Not reported

ANELLO TRUCKING CO (Continued) **1000289598**

Transfer Date: Not reported
Date Listed: 3/21/1991
SCVWD Id: 07S1E28D01f
Case Rank: A441

CORTESE:
Reg By: LTNKA
Reg Id: 43-0076
Region: CORTESE

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46 East 1/2-1 5217 Higher

GI TRUCKING CO
1634 S 7TH ST
SAN JOSE, CA 95112

HAZNET **S103066300**
Cortese **N/A**

HAZNET:
Gepaid: CAL000049367
Contact: GI TRUCKING CO
Gen County: Santa Clara
Tons: 0.2750
Category: Other empty containers 30 gallons or more
Disposal Method: Recycler
Mailing Address: 14727 ALONDRA BLVD
LA MIRADA, CA 90638 - 0609
County Santa Clara
Tepaid: CAD009466392
Telephone: (714) 523-1122
Tsd County: 7

CORTESE:
Reg By: LTNKA
Reg Id: 43-1989
Region: CORTESE

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	Facility ID
PORTOLA	S100231334	SIERRA PACIFIC POWER COMPANY	96 SIERRA STREET	95125	Notify 65, LUST	320005
SAN JOSE	S103678909	COYOTE CREEK BUSINESS PARK	HWY 101 AT COYOTE CREEK		HAZNET, HMS	CAP601252464
SAN JOSE	S102860956	AMERICAN CAN COMPANY #2	1598 SOUTH 1ST ST	95110	Cal-Sites	43340013
SAN JOSE	S102438608	TEXACO	598 1ST		Cortese, LUST	43-1881
SAN JOSE	S100927984	1X SANTA CLARA VALLEY WATER DISTRICT	HWY 237 AT COYOTE CREEK S.		HAZNET	CAC000784504
SAN JOSE	S103662950	SANTA CLARA VALLEY WATER DISTRICT	511 / 521 LOCUST ST	95110	HAZNET	CAC001203016
SAN JOSE	S103671761	SANTA CLARA VALLEY WATER DISTRICT	768 / 848 MCLELLAN AVE	95110	HAZNET	CAC001203008
SAN JOSE	U001602873	THRIFTY OIL STN.#039	545 ALMA STREET	95125	UST, Cortese, LUST	00000004717
SAN JOSE	S103634651	CHEVRON 97075	16455 ALMADEN EXPWY		HAZNET	CAL000029760
SAN JOSE	S103678138	COUNTY OF SANTA CLARA-PARKS AND REC	ALMADEN RD / ALMEDEN WAY		HAZNET	CAC001257904
SAN JOSE	S103958900	COUNTY OF SANTA CLARA-PARKS AND REC	ALMADEN RD / ALMADEN WY		HAZNET	CAC001495872
SAN JOSE	S103881342	MAZZONE, BEN PROPERTY	6082 ALMADEN EXPY		LUST	
SAN JOSE	S103881343	WALT VIERRA RESIDENCE	16430 ALMADEN RD		LUST	
SAN JOSE	S102799170	1X CAL TRANS/DIST 4	CAL TRANS RGT OF WY HWY 101		HAZNET	CAC000944696
SAN JOSE	90167177	11208 CAPITOL AVENUE	11208 CAPITOL AVENUE		ERNS	
SAN JOSE	1000196844	PG&E GAS PLANT SAN JOSE 408 5	SW COR SAN AUGUSTINE & MONTG-Y	95110	CERC-NFRAP	
SAN JOSE	1000360798	AMERICAN CAN PACKAGING INC	1598 S FIRST ST	95110	RCRIS-SQG, FINDS, CERC-NFRAP	
SAN JOSE	S102362536	HELLYER LANDFILL/EASTSIDE LANDFILL	HELLYER PARK / FARIS DRIVE		SWF/LF	43-CR-0002
SAN JOSE	S103986691	SANTA CLARA VALLEY WATER DISTRICT	965 MCLELLAN AVE # 967	95110	HAZNET	CAC001245120
SAN JOSE	S100851320	1X KAUFMAN AND BROAD SOUTHBAY INC.	6240 MONTEREY HIGHWAY		HAZNET	CAC000842656
SAN JOSE	S104541917	P&G INVESTMENT COMPANY	1775 MONTEREY HWY BLDG. #64		LUST	
SAN JOSE	S103881392	KAUFMAN & BROAD-SITE #1	6240 MONTEREY HWY		LUST	
SAN JOSE	S103881397	KAUFMAN & BROAD-SITE #2	6300 MONTEREY HWY		LUST	
SAN JOSE	S103441158	WDR-WATER TREATMENT SLUDGE DIS	SE OF DIXON LANDING / HWY 17		WMUDS	
SAN JOSE	S103623478	TEXACO REFINING AND MARKETING INC	1124 OLD BAYSHORE HWY	95110	HAZNET	CAC001351512
SAN JOSE	S102362529	ROBERTS AVENUE LANDFILL	ROBERTS AVENUE		SWF/LF	43-AN-0009
SAN JOSE	S104542008	COYOTE CREEK BUSINESS PARK	SILVER CREEK VALLEY @ HWY 101		LUST	
SAN JOSE	S103880696	WSP TRUCKING INC.	1200 STATE ST		LUST	
SAN JOSE	1000167245	UNION OIL SS# 4386	2690 UNION AVE		HAZNET, Cortese, LUST, UST	00000031219
SAN JOSE	U001602509	WILLOW STREET PUMP STATION	3084 WILLOW STREET	95110	UST	00000068968

EPA Waste Codes Addendum

Code	Description
D001	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-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.
D002	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.
D003	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.
D004	ARSENIC
D005	BARIUM
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D010	SELENIUM
D011	SILVER
D018	BENZENE
D019	CARBON TETRACHLORIDE
D022	CHLOROFORM
F002	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

EPA Waste Codes Addendum

Code	Description
F003	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.
F005	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.
F006	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.
F007	SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS

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.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List
Source: EPA
Telephone: N/A
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).

Date of Government Version: 06/13/00
Date Made Active at EDR: 07/06/00
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 06/27/00
Elapsed ASTM days: 9
Date of Last EDR Contact: 08/07/00

DELISTED NPL: NPL Deletions
Source: EPA
Telephone: N/A
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: 06/13/00
Date Made Active at EDR: 07/06/00
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 06/27/00
Elapsed ASTM days: 9
Date of Last EDR Contact: 05/09/00

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
Source: EPA
Telephone: 703-413-0223
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: 04/16/00
Date Made Active at EDR: 08/16/00
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 06/05/00
Elapsed ASTM days: 72
Date of Last EDR Contact: 05/31/00

CERCLIS-NFRAP: No Further Remedial Action Planned
Source: EPA
Telephone: 703-413-0223
As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Supertund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 04/16/00
Date Made Active at EDR: 08/16/00
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 06/05/00
Elapsed ASTM days: 72
Date of Last EDR Contact: 05/31/00

CORRACTS: Corrective Action Report
Source: EPA
Telephone: 800-424-9346
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 04/20/00
Date Made Active at EDR: 08/01/00
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 06/12/00
Elapsed ASTM days: 50
Date of Last EDR Contact: 06/12/00

RCRIS: Resource Conservation and Recovery Information System
Source: EPA/NTIS
Telephone: 800-424-9346
Resource Conservation and Recovery Information System. RCRIS 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).

Date of Government Version: 05/18/00
Date Made Active at EDR: 08/01/00
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 06/01/00
Elapsed ASTM days: 61
Date of Last EDR Contact: 06/19/00

ERNS: Emergency Response Notification System
Source: EPA/NTIS
Telephone: 202-260-2342
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 05/30/00
Date Made Active at EDR: 07/06/00
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 06/02/00
Elapsed ASTM days: 34
Date of Last EDR Contact: 08/02/00

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System
Source: EPA/NTIS
Telephone: 800-424-9346
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: 12/31/97
Database Release Frequency: Biennially
Date of Last EDR Contact: 06/19/00
Date of Next Scheduled EDR Contact: 09/18/00

CONSENT: Superfund (CERCLA) Consent Decrees
Source: EPA Regional Offices
Telephone: Varies
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: N/A
Database Release Frequency: Varies
Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

ROD: Records Of Decision
Source: NTIS
Telephone: 703-416-0223
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: 01/31/99
Database Release Frequency: Annually
Date of Last EDR Contact: 07/12/00
Date of Next Scheduled EDR Contact: 10/09/00

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report
Source: EPA
Telephone: N/A
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: 10/13/99 — Date of Last EDR Contact: 07/13/00
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 10/09/00

HMIRS: Hazardous Materials Information Reporting System
Source: U.S. Department of Transportation
Telephone: 202-366-4526
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/30/99 — Date of Last EDR Contact: 07/25/00
Database Release Frequency: Annually — Date of Next Scheduled EDR Contact: 10/23/00

MLTS: Material Licensing Tracking System
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
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: 04/23/00 — Date of Last EDR Contact: 07/10/00
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 10/09/00

MINES: Mines Master Index File
Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 08/01/98 — Date of Last EDR Contact: 07/06/00
Database Release Frequency: Semi-Annually — Date of Next Scheduled EDR Contact: 10/02/00

NPL LIENS: Federal Superfund Liens
Source: EPA
Telephone: 205-564-4267
Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (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 receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91 — Date of Last EDR Contact: 05/22/00
Database Release Frequency: No Update Planned — Date of Next Scheduled EDR Contact: 08/21/00

PADS: PCB Activity Database System
Source: EPA
Telephone: 202-260-3936
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: 01/01/00 — Date of Last EDR Contact: 05/15/00
Database Release Frequency: No Update Planned — Date of Next Scheduled EDR Contact: 08/14/00

RAATS: RCRA Administrative Action Tracking System
Source: EPA
Telephone: 202-564-4104
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: 04/17/95 — Date of Last EDR Contact: 06/12/00
Database Release Frequency: No Update Planned — Date of Next Scheduled EDR Contact: 09/11/00

TRIS: Toxic Chemical Release Inventory System
Source: EPA
Telephone: 202-260-1531
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: 12/31/97
Database Release Frequency: Annually
Date of Last EDR Contact: 07/21/00
Date of Next Scheduled EDR Contact: 09/25/00

TSCA: Toxic Substances Control Act
Source: EPA
Telephone: 202-260-1444
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.

Date of Government Version: 12/31/98
Database Release Frequency: Every 4 Years
Date of Last EDR Contact: 07/25/00
Date of Next Scheduled EDR Contact: 10/23/00

STATE OF CALIFORNIA ASTM STANDARD RECORDS

CAL-SITES (AWP): Annual Workplan
Source: California Environmental Protection Agency
Telephone: 916-323-3400
Known Hazardous Waste Sites. California DTSC's Annual Workplan (AWP), formerly BEP, identifies known hazardous substance sites targeted for cleanup.

Date of Government Version: 03/10/00
Date Made Active at EDR: 05/10/00
Database Release Frequency: Annually
Date of Data Arrival at EDR: 04/10/00
Elapsed ASTM days: 30
Date of Last EDR Contact: 07/31/00

CAL-SITES (ASPIS): Calsites
Source: Department of Toxic Substance Control
Telephone: 916-323-3400
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.

Date of Government Version: 04/01/00
Date Made Active at EDR: 05/26/00
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 04/24/00
Elapsed ASTM days: 32
Date of Last EDR Contact: 06/15/00

CHMIRS: California Hazardous Material Incident Report System
Source: Office of Emergency Services
Telephone: 916-464-3283
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/94
Date Made Active at EDR: 04/24/95
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 03/13/95
Elapsed ASTM days: 42
Date of Last EDR Contact: 06/07/00

CORTESE: Cortese
Source: CAL EPA/Office of Emergency Information
Telephone: 916-327-1848
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: 04/01/98
Date Made Active at EDR: 09/23/98
Database Release Frequency: Varies
Date of Data Arrival at EDR: 08/26/98
Elapsed ASTM days: 28
Date of Last EDR Contact: 07/31/00

NOTIFY 65: Proposition 65
Source: State Water Resources Control Board
Telephone: 916-657-0696
Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/93
Date Made Active at EDR: 11/19/93
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 11/01/93
Elapsed ASTM days: 18
Date of Last EDR Contact: 07/25/00

TOXIC PITS: Toxic Pits
Source: State Water Resources Control Board
Telephone: 916-227-4364
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: 07/01/95
Date Made Active at EDR: 09/26/95
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 08/30/95
Elapsed ASTM days: 27
Date of Last EDR Contact: 08/07/00

SWF/LF (SWIS): Solid Waste Information System
Source: Integrated Waste Management Board
Telephone: 916-255-4035
Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/13/00
Date Made Active at EDR: 07/14/00
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 06/19/00
Elapsed ASTM days: 25
Date of Last EDR Contact: 06/19/00

WMUDS/SWAT: Waste Management Unit Database
Source: State Water Resources Control Board
Telephone: 916-227-4448
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: 04/01/00
Date Made Active at EDR: 05/10/00
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 04/10/00
Elapsed ASTM days: 30
Date of Last EDR Contact: 06/12/00

LUST: Leaking Underground Storage Tank Information System
Source: State Water Resources Control Board
Telephone: 916-445-6532
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.

Date of Government Version: 07/05/00
Date Made Active at EDR: 08/25/00
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 07/10/00
Elapsed ASTM days: 46
Date of Last EDR Contact: 07/10/00

CA UST:

UST: Hazardous Substance Storage Container Database
Source: State Water Resources Control Board
Telephone: 916-227-4408
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: 10/15/90
Date Made Active at EDR: 02/12/91
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 01/25/91
Elapsed ASTM days: 18
Date of Last EDR Contact: 07/19/00

BEP: Bond Expenditure Plan
Source: Department of Health Services
Telephone: 916-255-2118
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: 01/01/89
Date Made Active at EDR: 08/02/94
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 07/27/94
Elapsed ASTM days: 6
Date of Last EDR Contact: 05/31/94

FID: Facility Inventory Database
Source: California Environmental Protection Agency
Telephone: 916-445-6532
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: 10/31/94
Date Made Active at EDR: 09/29/95
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 09/05/95
Elapsed ASTM days: 24
Date of Last EDR Contact: 12/28/98

STATE OF CALIFORNIA ASTM SUPPLEMENTAL RECORDS

AST: Aboveground Petroleum Storage Tank Facilities
Source: State Water Resources Control Board
Telephone: 916-227-4382
Registered Aboveground Storage Tanks.

Date of Government Version: 06/08/00
Database Release Frequency: Quarterly
Date of Last EDR Contact: 08/07/00
Date of Next Scheduled EDR Contact: 11/06/00

WDS: Waste Discharge System
Source: State Water Resources Control Board
Telephone: 916-657-1571
Sites which have been issued waste discharge requirements.

Date of Government Version: 03/22/00
Database Release Frequency: Quarterly
Date of Last EDR Contact: 06/26/00
Date of Next Scheduled EDR Contact: 09/25/00

HAZNET: Hazardous Waste Information System
Source: California Environmental Protection Agency
Telephone: 916-324-1781
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: 12/31/98
Database Release Frequency: Annually
Date of Last EDR Contact: 05/26/00
Date of Next Scheduled EDR Contact: 08/14/00

LOCAL RECORDS

ALAMEDA COUNTY:

Local Oversight Program Listing of UGT Cleanup Sites
Source: Alameda County Environmental Health Services
Telephone: 510-567-6700

Date of Government Version: 01/03/00
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 08/01/00
Date of Next Scheduled EDR Contact: 10/30/00

Underground Tanks
Source: Alameda County Environmental Health Services
Telephone: 510-567-6700

Date of Government Version: 01/03/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 08/01/00
Date of Next Scheduled EDR Contact: 10/30/00

CONTRA COSTA COUNTY:

SL: Site List
Source: Contra Costa Health Services Department
Telephone: 925-646-2286
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 05/08/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 06/05/00
Date of Next Scheduled EDR Contact: 09/04/00

KERN COUNTY:

UST: Sites & Tanks Listing
Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Kern County Sites and Tanks Listing.

Date of Government Version: 06/09/99
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/09/00
Date of Next Scheduled EDR Contact: 09/04/00

LOS ANGELES COUNTY:

SWF/LF: List of Solid Waste Facilities
Source: La County Department of Public Works
Telephone: 818-458-5185

Date of Government Version: 09/16/98
Database Release Frequency: Annually

Date of Last EDR Contact: 05/25/00
Date of Next Scheduled EDR Contact: 08/21/00

CA City of El Segundo UST
Source: City of El Segundo Fire Department
Telephone: 310-607-2239

Date of Government Version: 02/01/00
Database Release Frequency: N/A

Date of Last EDR Contact: 05/22/00
Date of Next Scheduled EDR Contact: 08/21/00

CA City of Long Beach UST
Source: City of Long Beach Fire Department
Telephone: 562-570-2543

Date of Government Version: 10/01/99
Database Release Frequency: N/A

Date of Last EDR Contact: 05/31/00
Date of Next Scheduled EDR Contact: 08/28/00

CA City of Torrance UST
Source: City of Torrance Fire Department
Telephone: 310-618-2973

Date of Government Version: 02/01/00
Database Release Frequency: N/A

Date of Last EDR Contact: 05/22/00
Date of Next Scheduled EDR Contact: 08/21/00

City of Los Angeles Landfills
Source: Engineering & Construction Division
Telephone: 213-473-7869

Date of Government Version: 08/31/99
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 06/21/00
Date of Next Scheduled EDR Contact: 09/18/00

HMS: Street Number List
Source: Department of Public Works
Telephone: 626-458-3517
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 04/27/99
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/28/00
Date of Next Scheduled EDR Contact: 10/09/00

Site Mitigation List
Source: Community Health Services
Telephone: 323-890-7806
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 06/02/00
Database Release Frequency: Annually

Date of Last EDR Contact: 05/22/00
Date of Next Scheduled EDR Contact: 08/21/00

San Gabriel Valley Areas of Concern
Source: EPA Region 9
Telephone: 415-744-2407
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/98
Database Release Frequency: N/A

Date of Last EDR Contact: 06/29/99
Date of Next Scheduled EDR Contact: N/A

MARIN COUNTY:

UST Sites
Source: Public Works Department Waste Management
Telephone: 415-499-6647
Currently permitted USTs in Marin County.

Date of Government Version: 03/01/99
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 08/08/00
Date of Next Scheduled EDR Contact: 11/06/00

NAPA COUNTY:

LUST: Sites With Reported Contamination
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

Date of Government Version: 08/27/99
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/05/00
Date of Next Scheduled EDR Contact: 10/02/00

UST: Closed and Operating Underground Storage Tank Sites
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

Date of Government Version: 08/30/99
Database Release Frequency: Annually

Date of Last EDR Contact: 07/05/00
Date of Next Scheduled EDR Contact: 09/18/00

ORANGE COUNTY:

LUST: List of Underground Storage Tank Cleanups
Source: Health Care Agency
Telephone: 714-834-3446
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 04/04/00
Database Release Frequency: Quarterly
Date of Last EDR Contact: 06/12/00
Date of Next Scheduled EDR Contact: 09/11/00

UST: List of Underground Storage Tank Facilities
Source: Health Care Agency
Telephone: 714-834-3446
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/04/00
Database Release Frequency: Quarterly
Date of Last EDR Contact: 06/12/00
Date of Next Scheduled EDR Contact: 09/11/00

List of Industrial Site Cleanups
Source: Health Care Agency
Telephone: 714-834-3446
Petroleum and non-petroleum spills.

Date of Government Version: 01/19/99
Database Release Frequency: Quarterly
Date of Last EDR Contact: 06/12/00
Date of Next Scheduled EDR Contact: 09/11/00

PLACER COUNTY:

MS: Master List of Facilities
Source: Placer County Health and Human Services
Telephone: 530-889-7335
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 04/11/00
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 06/26/00
Date of Next Scheduled EDR Contact: 09/25/00

RIVERSIDE COUNTY:

LUST: Listing of Underground Tank Cleanup Sites
Source: Department of Public Health
Telephone: 909-358-5055
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/03/00
Database Release Frequency: Quarterly
Date of Last EDR Contact: 07/25/00
Date of Next Scheduled EDR Contact: 10/23/00

UST: Tank List
Source: Health Services Agency
Telephone: 909-358-5055

Date of Government Version: 01/04/00
Database Release Frequency: Quarterly
Date of Last EDR Contact: 07/25/00
Date of Next Scheduled EDR Contact: 10/23/00

SACRAMENTO COUNTY:

Toxisite List
Source: Sacramento County Environmental Management
Telephone: 916-875-8450

Date of Government Version: 12/01/98
Database Release Frequency: Quarterly

Date of Last EDR Contact: 08/09/00
Date of Next Scheduled EDR Contact: 11/06/00

ML: Regulatory Compliance Master List
Source: Sacramento County Environmental Management
Telephone: 916-875-8450
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 04/01/99
Database Release Frequency: Quarterly

Date of Last EDR Contact: 08/09/00
Date of Next Scheduled EDR Contact: 11/06/00

SAN BERNARDINO COUNTY:

DEHS Permit System Print-Out By Location
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 07/01/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/12/00
Date of Next Scheduled EDR Contact: 09/11/00

SAN DIEGO COUNTY:

SWF/LF: Solid Waste Facilities
Source: Department of Health Services
Telephone: 619-338-2209
San Diego County Solid Waste Facilities.

Date of Government Version: 07/01/98
Database Release Frequency: Annually

Date of Last EDR Contact: 06/01/00
Date of Next Scheduled EDR Contact: 08/28/00

HMMD: Hazardous Materials Management Division Database
Source: Hazardous Materials Management Division
Telephone: 619-338-2268
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: 07/09/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/10/00
Date of Next Scheduled EDR Contact: 10/09/00

SAN FRANCISCO COUNTY:

LUST: Local Oversite Facilities
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920

Date of Government Version: 06/13/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/12/00
Date of Next Scheduled EDR Contact: 09/11/00

Underground Storage Tank Information
Source: Department of Public Health
Telephone: 415-252-3920

Date of Government Version: 06/13/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/12/00
Date of Next Scheduled EDR Contact: 09/11/00

SAN MATEO COUNTY:

LUST: Fuel Leak List
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921

Date of Government Version: 04/05/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/31/00
Date of Next Scheduled EDR Contact: 10/30/00

Business Inventory
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 06/24/99
Database Release Frequency: Annually

Date of Last EDR Contact: 07/25/00
Date of Next Scheduled EDR Contact: 10/16/00

SANTA CLARA COUNTY:

LUST: Fuel Leak Site Activity Report
Source: Santa Clara Valley Water District
Telephone: 408-927-0710

Date of Government Version: 07/01/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/07/00
Date of Next Scheduled EDR Contact: 10/02/00

Hazmat Facilities
Source: City of San Jose Fire Department
Telephone: 408-277-4659

Date of Government Version: 03/20/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/12/00
Date of Next Scheduled EDR Contact: 09/11/00

SOLANO COUNTY:

LUST: Leaking Undergroung Storage Tanks
Source: Solano County Department of Environmental Management
Telephone: 707-421-6770

Date of Government Version: 06/01/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/19/00
Date of Next Scheduled EDR Contact: 09/18/00

UST: Underground Storage Tanks
Source: Solano County Department of Environmental Management
Telephone: 707-421-6770

Date of Government Version: 06/01/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/19/00
Date of Next Scheduled EDR Contact: 09/18/00

SONOMA COUNTY:

LUST Sites
Source: Department of Health Services
Telephone: 707-525-6565

Date of Government Version: 05/16/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/31/00
Date of Next Scheduled EDR Contact: 10/30/00

SUTTER COUNTY:

UST: Underground Storage Tanks
Source: Sutter County Department of Agriculture
Telephone: 530-741-7504

Date of Government Version: 07/01/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/11/00
Date of Next Scheduled EDR Contact: 10/09/00

VENTURA COUNTY:

SWF/LF: Inventory of Illegal Abandoned and Inactive Sites
Source: Environmental Health Division
Telephone: 805-654-2813
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 06/01/99
Database Release Frequency: Annually

Date of Last EDR Contact: 05/31/00
Date of Next Scheduled EDR Contact: 08/28/00

LUST: Listing of Underground Tank Cleanup Sites
Source: Environmental Health Division
Telephone: 805-654-2813
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 02/24/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/19/00
Date of Next Scheduled EDR Contact: 09/18/00

UST: Underground Tank Closed Sites List
Source: Environmental Health Division
Telephone: 805-654-2813
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/24/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/19/00
Date of Next Scheduled EDR Contact: 10/16/00

BWT: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
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: 06/09/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/19/99
Date of Next Scheduled EDR Contact: 09/18/00

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Source: Yolo County Department of Health
Telephone: 530-666-8646

Date of Government Version: 02/16/00
Database Release Frequency: Annually

Date of Last EDR Contact: 07/25/00
Date of Next Scheduled EDR Contact: 10/23/00

California Regional Water Quality Control Board (RWQCB) LUST Records

LUST REG 1: Active Toxic Site Investigation
Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-576-2220

Date of Government Version: 02/01/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/30/00
Date of Next Scheduled EDR Contact: 08/28/00

LUST REG 2: Fuel Leak List
Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457

Date of Government Version: 06/01/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/17/00
Date of Next Scheduled EDR Contact: 10/16/00

LUST REG 3: LUSTIS Database
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147

Date of Government Version: 05/01/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/26/00
Date of Next Scheduled EDR Contact: 08/21/00

LUST REG 4: Underground Storage Tank Leak List
Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-266-6600

Date of Government Version: 05/16/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/07/00
Date of Next Scheduled EDR Contact: 10/02/00

LUST REG 5: Leaking Underground Storage Tank Database
Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-255-3125

Date of Government Version: 05/01/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/10/00
Date of Next Scheduled EDR Contact: 10/09/00

LUST REG 6L: Leaking Underground Storage Tank Case Listing
Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 916-542-5424

Date of Government Version: 07/12/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/12/00
Date of Next Scheduled EDR Contact: 10/09/00

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491

Date of Government Version: 04/01/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/10/00
Date of Next Scheduled EDR Contact: 10/09/00

LUST REG 7: Leaking Underground Storage Tank Case Listing
Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-346-7491

Date of Government Version: 04/27/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/05/00
Date of Next Scheduled EDR Contact: 10/02/00

LUST REG 8: (LUSTIS) Leaking Underground Storage Tanks
Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4498

Date of Government Version: 05/10/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/15/00
Date of Next Scheduled EDR Contact: 08/14/00

LUST REG 9: Leaking Underground Storage Tank Report
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 619-467-2952

Date of Government Version: 06/28/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/24/00
Date of Next Scheduled EDR Contact: 10/23/00

California Regional Water Quality Control Board (RWQCB) SLIC Records

SLIC REG 1: Active Toxic Site Investigations
Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220

Date of Government Version: 02/01/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/30/00
Date of Next Scheduled EDR Contact: 08/28/00

SLIC REG 2: North and South Bay Slic Report
Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 04/01/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/20/00
Date of Next Scheduled EDR Contact: 10/16/00

SLIC REG 3: SLIC Data
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/01/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/26/00
Date of Next Scheduled EDR Contact: 08/21/00

SLIC REG 4: SLIC Sites
Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/01/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/31/00
Date of Next Scheduled EDR Contact: 10/30/00

SLIC REG 5: SLIC List
Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-855-3075
Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 01/03/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/12/00
Date of Next Scheduled EDR Contact: 10/09/00

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583

Date of Government Version: 12/01/98
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/11/00
Date of Next Scheduled EDR Contact: 10/09/00

SLIC REG 8: SLIC List
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-3298

Date of Government Version: 07/27/99
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/13/00
Date of Next Scheduled EDR Contact: 10/09/00

SLIC REG 9: SLIC List
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980

Date of Government Version: 06/01/00
Database Release Frequency: Annually

Date of Last EDR Contact: 06/13/00
Date of Next Scheduled EDR Contact: 09/04/00

EDR PROPRIETARY DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

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The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

HISTORICAL AND 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.

Oil/Gas Pipelines/Electrical Transmission Lines: 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 and electrical transmission lines.

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.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 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 1999 from the U.S. Fish and Wildlife Service.

GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

1193 LICK AVENUE
1193 LICK AVENUE
SAN JOSE, CA 95110

TARGET PROPERTY COORDINATES

Latitude (North):	37.314201 - 37˚ 18' 51.1"
Longitude (West):	121.882896 - 121˚ 52' 58.4"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	598988.8
UTM Y (Meters):	4130109.5

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle 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. 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.

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.

USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property: 2437121-C8 SAN JOSE WEST, CA
Source: USGS 7.5 min quad index

GENERAL TOPOGRAPHIC GRADIENT AT TARGET PROPERTY

Target Property: General NNW

Source: General Topographic Gradient has been determined from the USGS 1 Degree 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.

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

Target Property County	FEMA Q3 Flood Data Electronic Coverage
SANTA CLARA, CA	YES

Flood Plain Panel at Target Property:	0603490031D / CBPP
Additional Panels in search area:	0603490025D / CBPP
	0603370255E / CBPP
	0603370265D / CBPP
	0603370245D / CBPP

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Coverage
SAN JOSE WEST	YES

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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Site-Specific Hydrogeological Data*:

Search Radius:	2.0 miles
Location Relative to TP:	1/4 - 1/2 Mile SE
Site Name:	Lew Smith
Site EPA ID Number:	CAD981677222
Groundwater Flow Direction:	REGIONALLY TO THE NW, WITH OCCASIONAL FLUCTUATIONS TO THE NE.
Measured Depth to Water:	17 feet to 20 feet.
Hydraulic Connection:	A hydraulic connection exists between the surficial and lower aquifers.
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: 2.000 Miles.

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.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

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

Geologic Code:	Q
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed 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.

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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

Soil Layer Information						
	Boundary			Classification		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)
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	Max: 0.60 Min: 0.20
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	Max: 0.60 Min: 0.20
3	41 inches	76 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COURSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 0.60 Min: 0.20

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

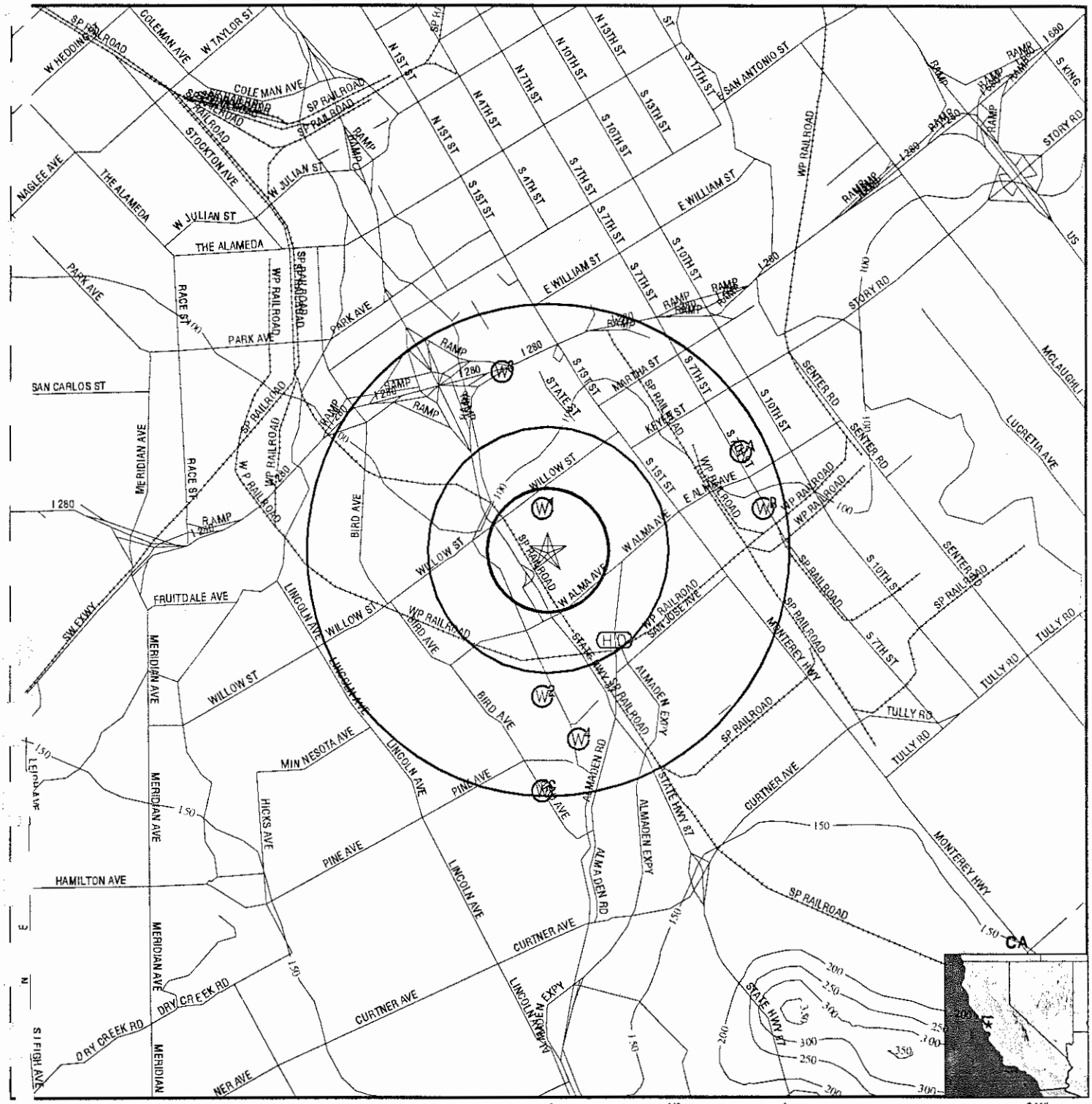
MAP ID	WELL ID	LOCATION FROM TP
1	7698	1/8 - 1/4 Mile North
2	7684	1/2 - 1 Mile South
3	7677	1/2 - 1 Mile NNW
4	7687	1/2 - 1 Mile South
A5	22506	1/2 - 1 Mile ENE
B6	7690	1/2 - 1 Mile East
B7	7689	1/2 - 1 Mile East
B8	7693	1/2 - 1 Mile East
B9	7692	1/2 - 1 Mile East
B10	7691	1/2 - 1 Mile East
B11	7695	1/2 - 1 Mile East
A12	7675	1/2 - 1 Mile ENE
C13	7703	1/2 - 1 Mile South
C14	7685	1/2 - 1 Mile South

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C15	7686	1/2 - 1 Mile South
C16	7688	1/2 - 1 Mile South

PHYSICAL SETTING SOURCE MAP - 0535832.1r



0 1/2 1 2 Miles

- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Water Wells
- Public Water Supply Wells
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Cluster of Multiple Icons
- Earthquake epicenter, Richter 5 or greater
- Closest Hydrogeological Data
- Oil, gas or related wells

TARGET PROPERTY:	1193 Lick Avenue	CUSTOMER:	Lowney Associates
ADDRESS:	1193 Lick Avenue	CONTACT:	Jane Fisher
CITY/STATE/ZIP:	San Jose CA 95110	INQUIRY #:	0535832.1r
LAT/LONG:	37.3142 / 121.8829	DATE:	September 01, 2000 3:52 pm

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
1 **North** **1/8 - 1/4 Mile** **Higher**	**CA WELLS**	**7698**

Water System Information:

Prime Station Code:	07S/01E-22H07 M	User ID:	HEN
FRDS Number:	4310011110	County:	Santa Clara
District Number:	05	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Untreated
Source Lat/Long:	371900.0 1215300.0	Precision:	1 Mile (One Minute)
Source Name:	TULLY WELL 04		
System Number:	4310011		
System Name:	San Jose Water Company		
Organization That Operates System:			
	1221 S. Bascom Avenue San Jose, CA 95128		
Pop Served:	944000	Connections:	206890
Area Served:	SAN JOSE VICINITY		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	11/02/1980	Findings:	17.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	11/02/1980	Findings:	2.000 UNITS
Chemical:	COLOR		
Sample Collected:	11/02/1980	Findings:	840.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	11/02/1980	Findings:	7.610
Chemical:	PH (LABORATORY)		
Sample Collected:	11/02/1980	Findings:	321.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	11/02/1980	Findings:	389.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	11/02/1980	Findings:	1.100 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	11/02/1980	Findings:	.110 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	11/02/1980	Findings:	388.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	11/02/1980	Findings:	59.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	11/02/1980	Findings:	58.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	11/02/1980	Findings:	34.000 MG/L
Chemical:	SODIUM		
Sample Collected:	11/02/1980	Findings:	.760
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	11/02/1980	Findings:	1.400 MG/L
Chemical:	POTASSIUM		
Sample Collected:	11/02/1980	Findings:	27.000 MG/L
Chemical:	CHLORIDE		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11/02/1980	Findings:	30.000 MG/L
Chemical:	SILICA		
Sample Collected:	11/02/1980	Findings:	10.000 UG/L
Chemical:	LITHIUM		
Sample Collected:	11/02/1980	Findings:	497.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	11/02/1980	Findings:	.430
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	11/02/1980	Findings:	18.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11/02/1980	Findings:	.009 UG/L
Chemical:	IODIDE		
Sample Collected:	11/02/1980	Findings:	.090 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	02/05/1982	Findings:	16.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	02/05/1982	Findings:	835.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	02/05/1982	Findings:	7.480
Chemical:	PH (LABORATORY)		
Sample Collected:	02/05/1982	Findings:	337.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	02/05/1982	Findings:	409.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	02/05/1982	Findings:	.800 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	02/05/1982	Findings:	.080 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	02/05/1982	Findings:	394.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	02/05/1982	Findings:	64.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	02/05/1982	Findings:	57.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	02/05/1982	Findings:	34.000 MG/L
Chemical:	SODIUM		
Sample Collected:	02/05/1982	Findings:	.750
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	02/05/1982	Findings:	1.400 MG/L
Chemical:	POTASSIUM		
Sample Collected:	02/05/1982	Findings:	29.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	02/05/1982	Findings:	.130 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	02/05/1982	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	02/05/1982	Findings:	10.000 UG/L
Chemical:	LITHIUM		
Sample Collected:	02/05/1982	Findings:	505.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	02/05/1982	Findings:	.360
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	02/05/1982	Findings:	18.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/05/1982	Findings:	.008 UG/L
Chemical:	IODIDE		
Sample Collected:	02/05/1982	Findings:	.050 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	07/10/1984	Findings:	.900 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	09/19/1984	Findings:	19.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	09/19/1984	Findings:	1.000 UNITS
Chemical:	COLOR		
Sample Collected:	09/19/1984	Findings:	859.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/19/1984	Findings:	7.590
Chemical:	PH (LABORATORY)		
Sample Collected:	09/19/1984	Findings:	339.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	09/19/1984	Findings:	412.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09/19/1984	Findings:	1.100 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	09/19/1984	Findings:	.140 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	09/19/1984	Findings:	392.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	09/19/1984	Findings:	59.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	09/19/1984	Findings:	59.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09/19/1984	Findings:	39.000 MG/L
Chemical:	SODIUM		
Sample Collected:	09/19/1984	Findings:	.850
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	09/19/1984	Findings:	1.300 MG/L
Chemical:	POTASSIUM		
Sample Collected:	09/19/1984	Findings:	34.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	09/19/1984	Findings:	.130 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	09/19/1984	Findings:	30.000 MG/L
Chemical:	SILICA		
Sample Collected:	09/19/1984	Findings:	529.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	09/19/1984	Findings:	.430
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	09/19/1984	Findings:	18.000 MG/L
Chemical:	NITRATE (AS NO3)		

Sample Collected:	09/19/1984	Findings:	.010 UG/L
Chemical:	IODIDE		
Sample Collected:	09/19/1984	Findings:	.200 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	03/20/1985	Findings:	.900 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	06/25/1985	Findings:	1.100 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	11/03/1986	Findings:	1.100 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	11/19/1986	Findings:	18.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	11/19/1986	Findings:	3.000 UNITS
Chemical:	COLOR		
Sample Collected:	11/19/1986	Findings:	920.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	11/19/1986	Findings:	7.940
Chemical:	PH (LABORATORY)		
Sample Collected:	11/19/1986	Findings:	354.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	11/19/1986	Findings:	427.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	11/19/1986	Findings:	2.500 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	11/19/1986	Findings:	.040 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	11/19/1986	Findings:	416.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	11/19/1986	Findings:	63.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	11/19/1986	Findings:	63.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	11/19/1986	Findings:	34.000 MG/L
Chemical:	SODIUM		
Sample Collected:	11/19/1986	Findings:	.720
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	11/19/1986	Findings:	1.400 MG/L
Chemical:	POTASSIUM		
Sample Collected:	11/19/1986	Findings:	36.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	11/19/1986	Findings:	.110 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	11/19/1986	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	11/19/1986	Findings:	539.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	11/19/1986	Findings:	.820
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	11/19/1986	Findings:	18.000 MG/L
Chemical:	NITRATE (AS NO3)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11/19/1986	Findings:	.007 UG/L
Chemical:	IODIDE		
Sample Collected:	09/21/1987	Findings:	1.200 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	03/21/1988	Findings:	17.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	03/21/1988	Findings:	850.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/21/1988	Findings:	7.760
Chemical:	PH (LABORATORY)		
Sample Collected:	03/21/1988	Findings:	344.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	03/21/1988	Findings:	416.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/21/1988	Findings:	1.600 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	03/21/1988	Findings:	.080 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	03/21/1988	Findings:	418.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	03/21/1988	Findings:	64.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/21/1988	Findings:	63.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/21/1988	Findings:	38.000 MG/L
Chemical:	SODIUM		
Sample Collected:	03/21/1988	Findings:	.810
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	03/21/1988	Findings:	1.500 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/21/1988	Findings:	37.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/21/1988	Findings:	.170 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	03/21/1988	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	03/21/1988	Findings:	240.000 UG/L
Chemical:	BARIUM		
Sample Collected:	03/21/1988	Findings:	530.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/21/1988	Findings:	.520
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	03/21/1988	Findings:	17.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/21/1988	Findings:	.007 UG/L
Chemical:	IODIDE		
Sample Collected:	03/21/1988	Findings:	.300 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	12/05/1988	Findings:	.900 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	12/18/1989	Findings:	1.100 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	12/26/1990	Findings:	.600 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	05/14/1991	Findings:	17.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	05/14/1991	Findings:	2.000 UNITS
Chemical:	COLOR		
Sample Collected:	05/14/1991	Findings:	865.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	05/14/1991	Findings:	7.730
Chemical:	PH (LABORATORY)		
Sample Collected:	05/14/1991	Findings:	338.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	05/14/1991	Findings:	410.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	05/14/1991	Findings:	1.500 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	05/14/1991	Findings:	.160 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	05/14/1991	Findings:	402.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	05/14/1991	Findings:	61.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	05/14/1991	Findings:	61.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	05/14/1991	Findings:	37.000 MG/L
Chemical:	SODIUM		
Sample Collected:	05/14/1991	Findings:	.800
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	05/14/1991	Findings:	1.300 MG/L
Chemical:	POTASSIUM		
Sample Collected:	05/14/1991	Findings:	36.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	05/14/1991	Findings:	.180 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	05/14/1991	Findings:	34.000 MG/L
Chemical:	SILICA		
Sample Collected:	05/14/1991	Findings:	290.000 UG/L
Chemical:	BARIUM		
Sample Collected:	05/14/1991	Findings:	519.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	05/14/1991	Findings:	.460
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	05/14/1991	Findings:	15.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05/14/1991	Findings:	.010 UG/L
Chemical:	IODIDE		
Sample Collected:	05/14/1991	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	02/26/1992	Findings:	2.000 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	02/26/1992	Findings:	1.300 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	08/27/1993	Findings:	14.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/08/1993	Findings:	.600 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	12/13/1994	Findings:	19.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	12/13/1994	Findings:	1.000 UNITS
Chemical:	COLOR		
Sample Collected:	12/13/1994	Findings:	959.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	12/13/1994	Findings:	7.650
Chemical:	PH (LABORATORY)		
Sample Collected:	12/13/1994	Findings:	344.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	12/13/1994	Findings:	417.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	12/13/1994	Findings:	1.300 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	12/13/1994	Findings:	.160 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	12/13/1994	Findings:	420.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	12/13/1994	Findings:	64.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	12/13/1994	Findings:	81.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	12/13/1994	Findings:	41.000 MG/L
Chemical:	SODIUM		
Sample Collected:	12/13/1994	Findings:	.870
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	12/13/1994	Findings:	1.500 MG/L
Chemical:	POTASSIUM		
Sample Collected:	12/13/1994	Findings:	51.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	12/13/1994	Findings:	.170 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	12/13/1994	Findings:	34.000 MG/L
Chemical:	SILICA		
Sample Collected:	12/13/1994	Findings:	440.000 UG/L
Chemical:	BARIUM		
Sample Collected:	12/13/1994	Findings:	11.000 UG/L
Chemical:	CHROMIUM (TOTAL)		
Sample Collected:	12/13/1994	Findings:	7.000 UG/L
Chemical:	SELENIUM		
Sample Collected:	12/13/1994	Findings:	566.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	12/13/1994	Findings:	.430
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	12/13/1994	Findings:	16.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/13/1994	Findings:	.009 UG/L
Chemical:	IODIDE		
Sample Collected:	12/13/1994	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	12/13/1994	Findings:	1.300 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12/13/1994	Findings:	1.900 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12/14/1994	Findings:	.700 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	03/14/1995	Findings:	1.800 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	03/14/1995	Findings:	2.000 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/11/1995	Findings:	2.400 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09/11/1995	Findings:	3.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12/05/1995	Findings:	11.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/06/1995	Findings:	.700 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	12/05/1996	Findings:	10.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/02/1997	Findings:	18.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	12/02/1997	Findings:	1.000 UNITS
Chemical:	COLOR		
Sample Collected:	12/02/1997	Findings:	831.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	12/02/1997	Findings:	7.730
Chemical:	PH (LABORATORY)		
Sample Collected:	12/02/1997	Findings:	344.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	12/02/1997	Findings:	417.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	12/02/1997	Findings:	1.500 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	12/02/1997	Findings:	.090 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	12/02/1997	Findings:	444.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	12/02/1997	Findings:	64.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	12/02/1997	Findings:	78.000 MG/L
Chemical:	MAGNESIUM		

Sample Collected:	12/02/1997	Findings:	41.000 MG/L
Chemical:	SODIUM		
Sample Collected:	12/02/1997	Findings:	41.000
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	12/02/1997	Findings:	2.100 MG/L
Chemical:	POTASSIUM		
Sample Collected:	12/02/1997	Findings:	58.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	12/02/1997	Findings:	.130 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	12/02/1997	Findings:	26.000 MG/L
Chemical:	SILICA		
Sample Collected:	12/02/1997	Findings:	260.000 UG/L
Chemical:	BARIUM		
Sample Collected:	12/02/1997	Findings:	6.000 UG/L
Chemical:	SELENIUM		
Sample Collected:	12/02/1997	Findings:	567.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	12/02/1997	Findings:	.502
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	12/02/1997	Findings:	12.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/02/1997	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	12/04/1997	Findings:	.700 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		

2
South
1/2 - 1 Mile
Higher

CA WELLS **7684**

Water System Information:

Prime Station Code:	07S/01E-20Q01 M	User ID:	HEN
FRDS Number:	4310011140	County:	Santa Clara
District Number:	05	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	371820.0 1215300.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WILLOW GLEN WAY WELL 01		
System Number:	4310011		
System Name:	San Jose Water Company		
Organization That Operates System:	1221 S. Bascom Avenue San Jose, CA 95128		
Pop Served:	944000	Connections:	206890
Area Served:	SAN JOSE VICINITY		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	03/08/1981	Findings:	17.000 **C**
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	03/08/1981	Findings:	2.000 UNITS
Chemical:	COLOR		
Sample Collected:	03/08/1981	Findings:	735.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/08/1981	Findings:	7.690
Chemical:	PH (LABORATORY)		
Sample Collected:	03/08/1981	Findings:	259.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	03/08/1981	Findings:	313.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/08/1981	Findings:	1.000 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	03/08/1981	Findings:	.080 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	03/08/1981	Findings:	320.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	03/08/1981	Findings:	70.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/08/1981	Findings:	35.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/08/1981	Findings:	32.000 MG/L
Chemical:	SODIUM		
Sample Collected:	03/08/1981	Findings:	.770
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	03/08/1981	Findings:	1.400 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/08/1981	Findings:	41.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/08/1981	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	03/08/1981	Findings:	60.000 UG/L
Chemical:	ZINC		
Sample Collected:	03/08/1981	Findings:	8.000 UG/L
Chemical:	LITHIUM		
Sample Collected:	03/08/1981	Findings:	.010 UG/L
Chemical:	FOAMING AGENTS (MBAS)		
Sample Collected:	03/08/1981	Findings:	435.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/08/1981	Findings:	.500
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	03/08/1981	Findings:	15.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/08/1981	Findings:	.014 UG/L
Chemical:	IODIDE		
Sample Collected:	03/08/1981	Findings:	.060 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	05/30/1983	Findings:	19.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	05/30/1983	Findings:	621.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	05/30/1983	Findings:	7.370
Chemical:	PH (LABORATORY)		
Sample Collected:	05/30/1983	Findings:	233.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	05/30/1983	Findings:	283.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	05/30/1983	Findings:	.500 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	05/30/1983	Findings:	.060 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	05/30/1983	Findings:	297.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	05/30/1983	Findings:	57.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	05/30/1983	Findings:	38.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	05/30/1983	Findings:	18.000 MG/L
Chemical:	SODIUM		
Sample Collected:	05/30/1983	Findings:	.450
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	05/30/1983	Findings:	1.000 MG/L
Chemical:	POTASSIUM		
Sample Collected:	05/30/1983	Findings:	36.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	05/30/1983	Findings:	26.000 MG/L
Chemical:	SILICA		
Sample Collected:	05/30/1983	Findings:	373.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	05/30/1983	Findings:	.050
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	05/30/1983	Findings:	14.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05/30/1983	Findings:	.150 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	10/17/1984	Findings:	19.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	10/17/1984	Findings:	795.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/17/1984	Findings:	7.310
Chemical:	PH (LABORATORY)		
Sample Collected:	10/17/1984	Findings:	289.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/17/1984	Findings:	352.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/17/1984	Findings:	.500 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	10/17/1984	Findings:	.070 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	10/17/1984	Findings:	375.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/17/1984	Findings:	63.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/17/1984	Findings:	53.000 MG/L
Chemical:	MAGNESIUM		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10/17/1984	Findings:	23.000 MG/L
Chemical:	SODIUM		
Sample Collected:	10/17/1984	Findings:	.520
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	10/17/1984	Findings:	1.200 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/17/1984	Findings:	38.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/17/1984	Findings:	26.000 MG/L
Chemical:	SILICA		
Sample Collected:	10/17/1984	Findings:	464.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/17/1984	Findings:	.120
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	10/17/1984	Findings:	26.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/17/1984	Findings:	.009 UG/L
Chemical:	IODIDE		
Sample Collected:	10/17/1984	Findings:	.200 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	08/01/1986	Findings:	20.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	08/01/1986	Findings:	5.000 UNITS
Chemical:	COLOR		
Sample Collected:	08/01/1986	Findings:	695.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	08/01/1986	Findings:	7.680
Chemical:	PH (LABORATORY)		
Sample Collected:	08/01/1986	Findings:	249.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	08/01/1986	Findings:	302.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	08/01/1986	Findings:	.400 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	08/01/1986	Findings:	.020 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	08/01/1986	Findings:	346.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	08/01/1986	Findings:	61.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	08/01/1986	Findings:	47.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	08/01/1986	Findings:	17.000 MG/L
Chemical:	SODIUM		
Sample Collected:	08/01/1986	Findings:	.400
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	08/01/1986	Findings:	1.100 MG/L
Chemical:	POTASSIUM		
Sample Collected:	08/01/1986	Findings:	41.000 MG/L
Chemical:	CHLORIDE		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08/01/1986	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	08/01/1986	Findings:	400.000 UG/L
Chemical:	BARIUM		
Sample Collected:	08/01/1986	Findings:	424.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08/01/1986	Findings:	.040
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	08/01/1986	Findings:	19.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/01/1986	Findings:	.011 UG/L
Chemical:	IODIDE		
Sample Collected:	08/01/1986	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	09/23/1987	Findings:	19.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	09/23/1987	Findings:	700.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/23/1987	Findings:	7.790
Chemical:	PH (LABORATORY)		
Sample Collected:	09/23/1987	Findings:	241.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	09/23/1987	Findings:	291.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09/23/1987	Findings:	1.200 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	09/23/1987	Findings:	.060 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	09/23/1987	Findings:	306.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	09/23/1987	Findings:	55.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	09/23/1987	Findings:	41.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09/23/1987	Findings:	17.000 MG/L
Chemical:	SODIUM		
Sample Collected:	09/23/1987	Findings:	.420
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	09/23/1987	Findings:	1.200 MG/L
Chemical:	POTASSIUM		
Sample Collected:	09/23/1987	Findings:	34.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	09/23/1987	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	09/23/1987	Findings:	180.000 UG/L
Chemical:	BARIUM		
Sample Collected:	09/23/1987	Findings:	380.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	09/23/1987	Findings:	.470
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09/23/1987	Findings:	17.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/23/1987	Findings:	.007 UG/L
Chemical:	IODIDE		
Sample Collected:	09/23/1987	Findings:	.200 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	07/25/1990	Findings:	19.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	07/25/1990	Findings:	2.000 UNITS
Chemical:	COLOR		
Sample Collected:	07/25/1990	Findings:	595.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/25/1990	Findings:	7.340
Chemical:	PH (LABORATORY)		
Sample Collected:	07/25/1990	Findings:	215.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	07/25/1990	Findings:	261.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/25/1990	Findings:	.400 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	07/25/1990	Findings:	.070 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	07/25/1990	Findings:	276.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	07/25/1990	Findings:	52.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/25/1990	Findings:	34.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07/25/1990	Findings:	17.000 MG/L
Chemical:	SODIUM		
Sample Collected:	07/25/1990	Findings:	.440
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	07/25/1990	Findings:	1.100 MG/L
Chemical:	POTASSIUM		
Sample Collected:	07/25/1990	Findings:	36.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	07/25/1990	Findings:	.140 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	07/25/1990	Findings:	41.000 MG/L
Chemical:	SILICA		
Sample Collected:	07/25/1990	Findings:	180.000 UG/L
Chemical:	BARIUM		
Sample Collected:	07/25/1990	Findings:	357.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/25/1990	Findings:	- .120
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	07/25/1990	Findings:	9.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/25/1990	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04/24/1991	Findings:	.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	11/20/1992	Findings:	1.400 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	11/20/1992	Findings:	1.100 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	05/07/1993	Findings:	18.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	05/07/1993	Findings:	4.000 UNITS
Chemical:	COLOR		
Sample Collected:	05/07/1993	Findings:	670.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	05/07/1993	Findings:	7.430
Chemical:	PH (LABORATORY)		
Sample Collected:	05/07/1993	Findings:	205.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	05/07/1993	Findings:	249.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	05/07/1993	Findings:	.500 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	05/07/1993	Findings:	.070 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	05/07/1993	Findings:	300.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	05/07/1993	Findings:	55.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	05/07/1993	Findings:	41.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	05/07/1993	Findings:	19.000 MG/L
Chemical:	SODIUM		
Sample Collected:	05/07/1993	Findings:	.480
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	05/07/1993	Findings:	1.300 MG/L
Chemical:	POTASSIUM		
Sample Collected:	05/07/1993	Findings:	58.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	05/07/1993	Findings:	.120 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	05/07/1993	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	05/07/1993	Findings:	280.000 UG/L
Chemical:	BARIUM		
Sample Collected:	05/07/1993	Findings:	375.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	05/07/1993	Findings:	- .040
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	05/07/1993	Findings:	11.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05/07/1993	Findings:	.005 UG/L
Chemical:	IODIDE		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	05/07/1993	Findings:	.150 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	05/07/1993	Findings:	1.000 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/09/1993	Findings:	1.800 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/10/1994	Findings:	11.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/12/1995	Findings:	10.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11/05/1996	Findings:	17.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	11/05/1996	Findings:	1.000 UNITS
Chemical:	COLOR		
Sample Collected:	11/05/1996	Findings:	582.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	11/05/1996	Findings:	7.430
Chemical:	PH (LABORATORY)		
Sample Collected:	11/05/1996	Findings:	212.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	11/05/1996	Findings:	258.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	11/05/1996	Findings:	.500 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	11/05/1996	Findings:	.040 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	11/05/1996	Findings:	307.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	11/05/1996	Findings:	58.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	11/05/1996	Findings:	42.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	11/05/1996	Findings:	19.000 MG/L
Chemical:	SODIUM		
Sample Collected:	11/05/1996	Findings:	19.000
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	11/05/1996	Findings:	1.100 MG/L
Chemical:	POTASSIUM		
Sample Collected:	11/05/1996	Findings:	58.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	11/05/1996	Findings:	26.000 MG/L
Chemical:	SILICA		
Sample Collected:	11/05/1996	Findings:	294.000 UG/L
Chemical:	BARIUM		
Sample Collected:	11/05/1996	Findings:	382.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	11/05/1996	Findings:	.022
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	11/05/1996	Findings:	10.000 MG/L
Chemical:	NITRATE (AS NO3)		

Sample Collected:	11/05/1996	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	04/22/1997	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	04/22/1997	Findings:	.400 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	08/04/1997	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	08/04/1997	Findings:	.400 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10/07/1997	Findings:	.100 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10/08/1997	Findings:	10.000 MG/L
Chemical:	NITRATE (AS NO3)		

3
NNW
1/2 - 1 Mile
Lower

CA WELLS 7677

Water System Information:

Prime Station Code:	07S/01E-17L02 M	User ID:	HEN
FRDS Number:	4310011156	County:	Santa Clara
District Number:	05	Station Type:	WELL/AMBNT/MUN/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Untreated
Source Lat/Long:	371929.0 1215311.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	GRANT WELL 02		
System Number:	4310011		
System Name:	San Jose Water Company		
Organization That Operates System:	1221 S. Bascom Avenue San Jose, CA 95128		
Pop Served:	944000	Connections:	206890
Area Served:	SAN JOSE VICINITY		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	06/14/1995	Findings:	15.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/24/1995	Findings:	4.400 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10/25/1995	Findings:	19.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	10/25/1995	Findings:	4.000 UNITS
Chemical:	COLOR		
Sample Collected:	10/25/1995	Findings:	770.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/25/1995	Findings:	7.600
Chemical:	PH (LABORATORY)		
Sample Collected:	10/25/1995	Findings:	277.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/25/1995	Findings:	336.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/25/1995	Findings:	.900 MG/L
Chemical:	CARBONATE ALKALINITY		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10/25/1995	Findings:	.150 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	10/25/1995	Findings:	382.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/25/1995	Findings:	95.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/25/1995	Findings:	39.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/25/1995	Findings:	27.000 MG/L
Chemical:	SODIUM		
Sample Collected:	10/25/1995	Findings:	27.000
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	10/25/1995	Findings:	1.800 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/25/1995	Findings:	44.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/25/1995	Findings:	19.000 MG/L
Chemical:	SILICA		
Sample Collected:	10/25/1995	Findings:	167.000 UG/L
Chemical:	BARIUM		
Sample Collected:	10/25/1995	Findings:	8.000 UG/L
Chemical:	SELENIUM		
Sample Collected:	10/25/1995	Findings:	.040 UG/L
Chemical:	FOAMING AGENTS (MBAS)		
Sample Collected:	10/25/1995	Findings:	489.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/25/1995	Findings:	.480
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	10/25/1995	Findings:	33.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/25/1995	Findings:	.150 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	05/29/1996	Findings:	32.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/16/1996	Findings:	17.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	07/16/1996	Findings:	2.000 UNITS
Chemical:	COLOR		
Sample Collected:	07/16/1996	Findings:	796.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/16/1996	Findings:	7.750
Chemical:	PH (LABORATORY)		
Sample Collected:	07/16/1996	Findings:	268.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	07/16/1996	Findings:	324.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/16/1996	Findings:	1.200 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	07/16/1996	Findings:	.070 UG/L
Chemical:	PHOSPHATE		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07/16/1996	Findings:	365.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	07/16/1996	Findings:	96.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/16/1996	Findings:	34.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07/16/1996	Findings:	25.000 MG/L
Chemical:	SODIUM		
Sample Collected:	07/16/1996	Findings:	25.000
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	07/16/1996	Findings:	2.200 MG/L
Chemical:	POTASSIUM		
Sample Collected:	07/16/1996	Findings:	46.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	07/16/1996	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	07/16/1996	Findings:	240.000 UG/L
Chemical:	BARIUM		
Sample Collected:	07/16/1996	Findings:	6.000 UG/L
Chemical:	SELENIUM		
Sample Collected:	07/16/1996	Findings:	.030 UG/L
Chemical:	FOAMING AGENTS (MBAS)		
Sample Collected:	07/16/1996	Findings:	484.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/16/1996	Findings:	.595
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	07/16/1996	Findings:	29.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/16/1996	Findings:	.200 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	07/23/1996	Findings:	29.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/16/1996	Findings:	28.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/18/1996	Findings:	4.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12/04/1996	Findings:	30.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/25/1997	Findings:	29.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/11/1997	Findings:	27.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/08/1997	Findings:	32.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/18/1997	Findings:	35.000 MG/L
Chemical:	NITRATE (AS NO3)		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
4 **South** **1/2 - 1 Mile** **Higher**		**CA WELLS**	**7687**

Water System Information:

Prime Station Code:	07S/01E-20Q04 M	User ID:	HEN
FRDS Number:	4310011143	County:	Santa Clara
District Number:	05	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	371811.0 1215250.0	Precision:	0.5 Mile (30 Seconds)
Source Name:	WILLOW GLEN WAY WELL 04		
System Number:	4310011		
System Name:	San Jose Water Company		
Organization That Operates System:			
	1221 S. Bascom Avenue San Jose, CA 95128		
Pop Served:	944000	Connections:	206890
Area Served:	SAN JOSE VICINITY		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	12/16/1980	Findings:	17.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	12/16/1980	Findings:	740.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	12/16/1980	Findings:	7.370
Chemical:	PH (LABORATORY)		
Sample Collected:	12/16/1980	Findings:	277.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	12/16/1980	Findings:	336.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	12/16/1980	Findings:	.500 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	12/16/1980	Findings:	.070 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	12/16/1980	Findings:	350.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	12/16/1980	Findings:	58.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	12/16/1980	Findings:	50.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	12/16/1980	Findings:	20.000 MG/L
Chemical:	SODIUM		
Sample Collected:	12/16/1980	Findings:	.460
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	12/16/1980	Findings:	1.300 MG/L
Chemical:	POTASSIUM		
Sample Collected:	12/16/1980	Findings:	34.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	12/16/1980	Findings:	26.000 MG/L
Chemical:	SILICA		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	12/16/1980	Findings:	6.000 UG/L
Chemical:	LITHIUM		
Sample Collected:	12/16/1980	Findings:	427.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	12/16/1980	Findings:	.130
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	12/16/1980	Findings:	22.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/16/1980	Findings:	.240 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	09/07/1981	Findings:	210.000 UG/L
Chemical:	BARIUM		
Sample Collected:	09/08/1982	Findings:	18.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	09/08/1982	Findings:	5.000 UNITS
Chemical:	COLOR		
Sample Collected:	09/08/1982	Findings:	728.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/08/1982	Findings:	7.810
Chemical:	PH (LABORATORY)		
Sample Collected:	09/08/1982	Findings:	277.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	09/08/1982	Findings:	335.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09/08/1982	Findings:	1.500 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	09/08/1982	Findings:	.050 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	09/08/1982	Findings:	334.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	09/08/1982	Findings:	66.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	09/08/1982	Findings:	47.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09/08/1982	Findings:	21.000 MG/L
Chemical:	SODIUM		
Sample Collected:	09/08/1982	Findings:	.500
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	09/08/1982	Findings:	1.100 MG/L
Chemical:	POTASSIUM		
Sample Collected:	09/08/1982	Findings:	34.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	09/08/1982	Findings:	30.000 MG/L
Chemical:	SILICA		
Sample Collected:	09/08/1982	Findings:	6.000 UG/L
Chemical:	LITHIUM		
Sample Collected:	09/08/1982	Findings:	424.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	09/08/1982	Findings:	.550
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09/08/1982	Findings:	21.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/08/1982	Findings:	.006 UG/L
Chemical:	IODIDE		
Sample Collected:	09/08/1982	Findings:	.150 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	10/17/1984	Findings:	19.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	10/17/1984	Findings:	795.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/17/1984	Findings:	7.310
Chemical:	PH (LABORATORY)		
Sample Collected:	10/17/1984	Findings:	289.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/17/1984	Findings:	352.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/17/1984	Findings:	.500 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	10/17/1984	Findings:	.070 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	10/17/1984	Findings:	375.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/17/1984	Findings:	63.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/17/1984	Findings:	53.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/17/1984	Findings:	23.000 MG/L
Chemical:	SODIUM		
Sample Collected:	10/17/1984	Findings:	.520
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	10/17/1984	Findings:	1.200 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/17/1984	Findings:	38.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/17/1984	Findings:	26.000 MG/L
Chemical:	SILICA		
Sample Collected:	10/17/1984	Findings:	464.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/17/1984	Findings:	.120
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	10/17/1984	Findings:	26.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/17/1984	Findings:	.009 UG/L
Chemical:	IODIDE		
Sample Collected:	10/17/1984	Findings:	.200 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	11/17/1986	Findings:	18.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	11/17/1986	Findings:	2.000 UNITS
Chemical:	COLOR		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11/17/1986	Findings:	855.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	11/17/1986	Findings:	7.440
Chemical:	PH (LABORATORY)		
Sample Collected:	11/17/1986	Findings:	333.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	11/17/1986	Findings:	404.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	11/17/1986	Findings:	.800 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	11/17/1986	Findings:	.090 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	11/17/1986	Findings:	422.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	11/17/1986	Findings:	74.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	11/17/1986	Findings:	58.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	11/17/1986	Findings:	20.000 MG/L
Chemical:	SODIUM		
Sample Collected:	11/17/1986	Findings:	.420
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	11/17/1986	Findings:	1.100 MG/L
Chemical:	POTASSIUM		
Sample Collected:	11/17/1986	Findings:	40.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	11/17/1986	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	11/17/1986	Findings:	511.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	11/17/1986	Findings:	.370
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	11/17/1986	Findings:	30.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11/17/1986	Findings:	.007 UG/L
Chemical:	IODIDE		
Sample Collected:	11/17/1986	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	07/24/1988	Findings:	17.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	07/24/1988	Findings:	720.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/24/1988	Findings:	7.230
Chemical:	PH (LABORATORY)		
Sample Collected:	07/24/1988	Findings:	258.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	07/24/1988	Findings:	314.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/24/1988	Findings:	.400 MG/L
Chemical:	CARBONATE ALKALINITY		

Sample Collected:	07/24/1988	Findings:	.110 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	07/24/1988	Findings:	340.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	07/24/1988	Findings:	61.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/24/1988	Findings:	46.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07/24/1988	Findings:	19.000 MG/L
Chemical:	SODIUM		
Sample Collected:	07/24/1988	Findings:	.450
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	07/24/1988	Findings:	1.200 MG/L
Chemical:	POTASSIUM		
Sample Collected:	07/24/1988	Findings:	41.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	07/24/1988	Findings:	.140 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	07/24/1988	Findings:	34.000 MG/L
Chemical:	SILICA		
Sample Collected:	07/24/1988	Findings:	280.000 UG/L
Chemical:	BARIUM		
Sample Collected:	07/24/1988	Findings:	427.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/24/1988	Findings:	20.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/24/1988	Findings:	.006 UG/L
Chemical:	IODIDE		
Sample Collected:	07/24/1988	Findings:	.200 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	04/05/1990	Findings:	.800 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	03/18/1992	Findings:	14.500 UG/L
Chemical:	DICHLORODIFLUOROMETHANE		
Sample Collected:	11/20/1992	Findings:	18.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	11/20/1992	Findings:	2.000 UNITS
Chemical:	COLOR		
Sample Collected:	11/20/1992	Findings:	700.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	11/20/1992	Findings:	7.500
Chemical:	PH (LABORATORY)		
Sample Collected:	11/20/1992	Findings:	227.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	11/20/1992	Findings:	275.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	11/20/1992	Findings:	.600 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	11/20/1992	Findings:	317.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11/20/1992	Findings:	57.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	11/20/1992	Findings:	44.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	11/20/1992	Findings:	19.000 MG/L
Chemical:	SODIUM		
Sample Collected:	11/20/1992	Findings:	.460
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	11/20/1992	Findings:	1.400 MG/L
Chemical:	POTASSIUM		
Sample Collected:	11/20/1992	Findings:	51.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	11/20/1992	Findings:	.110 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	11/20/1992	Findings:	26.000 MG/L
Chemical:	SILICA		
Sample Collected:	11/20/1992	Findings:	240.000 UG/L
Chemical:	BARIUM		
Sample Collected:	11/20/1992	Findings:	388.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	11/20/1992	Findings:	.080
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	11/20/1992	Findings:	12.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11/20/1992	Findings:	.008 UG/L
Chemical:	IODIDE		
Sample Collected:	11/20/1992	Findings:	.150 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	04/07/1993	Findings:	12.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/10/1994	Findings:	12.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/06/1995	Findings:	3.700 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	02/06/1995	Findings:	2.000 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	05/31/1995	Findings:	19.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	05/31/1995	Findings:	697.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	05/31/1995	Findings:	7.730
Chemical:	PH (LABORATORY)		
Sample Collected:	05/31/1995	Findings:	224.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	05/31/1995	Findings:	271.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	05/31/1995	Findings:	1.000 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	05/31/1995	Findings:	.060 UG/L
Chemical:	PHOSPHATE		

Sample Collected:	05/31/1995	Findings:	312.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	05/31/1995	Findings:	51.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	05/31/1995	Findings:	49.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	05/31/1995	Findings:	20.000 MG/L
Chemical:	SODIUM		
Sample Collected:	05/31/1995	Findings:	20.000
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	05/31/1995	Findings:	1.400 MG/L
Chemical:	POTASSIUM		
Sample Collected:	05/31/1995	Findings:	58.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	05/31/1995	Findings:	26.000 MG/L
Chemical:	SILICA		
Sample Collected:	05/31/1995	Findings:	254.000 UG/L
Chemical:	BARIUM		
Sample Collected:	05/31/1995	Findings:	389.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	05/31/1995	Findings:	.270
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	05/31/1995	Findings:	12.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05/31/1995	Findings:	.007 UG/L
Chemical:	IODIDE		
Sample Collected:	05/31/1995	Findings:	.150 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	12/07/1995	Findings:	1.600 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12/07/1995	Findings:	4.900 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	04/18/1996	Findings:	12.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/16/1997	Findings:	11.000 MG/L
Chemical:	NITRATE (AS NO3)		

A5
ENE
1/2 - 1 Mile
Lower

CA WELLS **22506**

Water System Information:

Prime Station Code:	E43/028-SJWCS7	User ID:	HEN
FRDS Number:	4310028007	County:	Santa Clara
District Number:	05	Station Type:	WELL/RESVR/CANAL/AMBNT/MUN/INTAKE
Water Type:	M	Well Status:	CM
Source Lat/Long:	371909.7 1215208.2	Precision:	1,000 Feet (10 Seconds)
Source Name:	SOUTH CAMPUS SJWC - S 7TH ST CONNECTION		

System Number: 4310028
System Name: San Jose State University
Organization That Operates System:
One Washington Square
San Jose, CA 95192
Pop Served: 30000 Connections: 1000
Area Served: Not Reported

B6
East
1/2 - 1 Mile
Higher

CA WELLS 7690

Water System Information:

Prime Station Code:	07S/01E-21E03 M	User ID:	HEN
FRDS Number:	4310011031	County:	Santa Clara
District Number:	05	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	371900.0 1215200.0	Precision:	0.5 Mile (30 Seconds)
Source Name:	COTTAGE GROVE WELL 04		
System Number:	4310011		
System Name:	San Jose Water Company		
Organization That Operates System:	1221 S. Bascom Avenue San Jose, CA 95128		
Pop Served:	944000	Connections:	206890
Area Served:	SAN JOSE VICINITY		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	09/03/1981	Findings:	20.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	09/03/1981	Findings:	790.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/03/1981	Findings:	7.720
Chemical:	PH (LABORATORY)		
Sample Collected:	09/03/1981	Findings:	306.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	09/03/1981	Findings:	371.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09/03/1981	Findings:	1.300 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	09/03/1981	Findings:	.060 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	09/03/1981	Findings:	360.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	09/03/1981	Findings:	67.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	09/03/1981	Findings:	47.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09/03/1981	Findings:	30.000 MG/L
Chemical:	SODIUM		
Sample Collected:	09/03/1981	Findings:	.680
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	09/03/1981	Findings:	1.500 MG/L
Chemical:	POTASSIUM		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09/03/1981	Findings:	30.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	09/03/1981	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	09/03/1981	Findings:	10.000 UG/L
Chemical:	LITHIUM		
Sample Collected:	09/03/1981	Findings:	465.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	09/03/1981	Findings:	.570
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	09/03/1981	Findings:	16.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/03/1981	Findings:	.010 UG/L
Chemical:	IODIDE		
Sample Collected:	09/03/1981	Findings:	.050 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	10/31/1983	Findings:	21.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	10/31/1983	Findings:	792.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/31/1983	Findings:	7.720
Chemical:	PH (LABORATORY)		
Sample Collected:	10/31/1983	Findings:	297.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/31/1983	Findings:	359.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/31/1983	Findings:	1.300 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	10/31/1983	Findings:	.090 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	10/31/1983	Findings:	359.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/31/1983	Findings:	71.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/31/1983	Findings:	44.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/31/1983	Findings:	36.000 MG/L
Chemical:	SODIUM		
Sample Collected:	10/31/1983	Findings:	.820
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	10/31/1983	Findings:	1.700 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/31/1983	Findings:	32.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/31/1983	Findings:	.110 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	10/31/1983	Findings:	26.000 MG/L
Chemical:	SILICA		
Sample Collected:	10/31/1983	Findings:	483.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		

Sample Collected:	10/31/1983	Findings:	.580
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	10/31/1983	Findings:	17.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/31/1983	Findings:	.012 UG/L
Chemical:	IODIDE		
Sample Collected:	10/31/1983	Findings:	.200 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	02/22/1988	Findings:	20.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	02/22/1988	Findings:	770.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	02/22/1988	Findings:	7.770
Chemical:	PH (LABORATORY)		
Sample Collected:	02/22/1988	Findings:	293.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	02/22/1988	Findings:	354.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	02/22/1988	Findings:	1.400 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	02/22/1988	Findings:	.100 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	02/22/1988	Findings:	360.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	02/22/1988	Findings:	68.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	02/22/1988	Findings:	46.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	02/22/1988	Findings:	40.000 MG/L
Chemical:	SODIUM		
Sample Collected:	02/22/1988	Findings:	.920
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	02/22/1988	Findings:	1.400 MG/L
Chemical:	POTASSIUM		
Sample Collected:	02/22/1988	Findings:	38.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	02/22/1988	Findings:	.120 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	02/22/1988	Findings:	32.000 MG/L
Chemical:	SILICA		
Sample Collected:	02/22/1988	Findings:	360.000 UG/L
Chemical:	BARIUM		
Sample Collected:	02/22/1988	Findings:	497.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	02/22/1988	Findings:	.540
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	02/22/1988	Findings:	18.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/22/1988	Findings:	.015 UG/L
Chemical:	IODIDE		

Sample Collected:	02/22/1988	Findings:	.150 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	01/23/1991	Findings:	19.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	01/23/1991	Findings:	5.000 UNITS
Chemical:	COLOR		
Sample Collected:	01/23/1991	Findings:	860.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	01/23/1991	Findings:	7.620
Chemical:	PH (LABORATORY)		
Sample Collected:	01/23/1991	Findings:	316.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	01/23/1991	Findings:	383.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	01/23/1991	Findings:	1.100 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	01/23/1991	Findings:	.100 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	01/23/1991	Findings:	392.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	01/23/1991	Findings:	73.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	01/23/1991	Findings:	51.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	01/23/1991	Findings:	35.000 MG/L
Chemical:	SODIUM		
Sample Collected:	01/23/1991	Findings:	.770
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	01/23/1991	Findings:	1.800 MG/L
Chemical:	POTASSIUM		
Sample Collected:	01/23/1991	Findings:	33.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	01/23/1991	Findings:	.130 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	01/23/1991	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	01/23/1991	Findings:	300.000 UG/L
Chemical:	BARIUM		
Sample Collected:	01/23/1991	Findings:	511.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	01/23/1991	Findings:	.440
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	01/23/1991	Findings:	21.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01/23/1991	Findings:	.012 UG/L
Chemical:	IODIDE		
Sample Collected:	01/23/1991	Findings:	.250 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	10/10/1991	Findings:	1.300 PCI/L
Chemical:	GROSS ALPHA		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10/10/1991	Findings:	1.100 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/18/1993	Findings:	22.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/22/1994	Findings:	20.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	07/22/1994	Findings:	1.000 UNITS
Chemical:	COLOR		
Sample Collected:	07/22/1994	Findings:	800.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/22/1994	Findings:	7.690
Chemical:	PH (LABORATORY)		
Sample Collected:	07/22/1994	Findings:	312.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	07/22/1994	Findings:	378.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/22/1994	Findings:	1.300 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	07/22/1994	Findings:	.070 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	07/22/1994	Findings:	369.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	07/22/1994	Findings:	70.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/22/1994	Findings:	56.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07/22/1994	Findings:	37.000 MG/L
Chemical:	SODIUM		
Sample Collected:	07/22/1994	Findings:	.840
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	07/22/1994	Findings:	1.700 MG/L
Chemical:	POTASSIUM		
Sample Collected:	07/22/1994	Findings:	37.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	07/22/1994	Findings:	.180 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	07/22/1994	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	07/22/1994	Findings:	332.000 UG/L
Chemical:	BARIUM		
Sample Collected:	07/22/1994	Findings:	120.000 UG/L
Chemical:	IRON		
Sample Collected:	07/22/1994	Findings:	499.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/22/1994	Findings:	.490
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	07/22/1994	Findings:	19.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/22/1994	Findings:	.016 UG/L
Chemical:	IODIDE		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07/22/1994	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	03/08/1995	Findings:	3.000 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	03/08/1995	Findings:	2.100 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/11/1995	Findings:	15.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/09/1996	Findings:	12.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/30/1997	Findings:	19.400 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	09/30/1997	Findings:	717.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/30/1997	Findings:	7.750
Chemical:	PH (LABORATORY)		
Sample Collected:	09/30/1997	Findings:	312.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	09/30/1997	Findings:	377.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09/30/1997	Findings:	1.400 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	09/30/1997	Findings:	.060 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	09/30/1997	Findings:	379.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	09/30/1997	Findings:	71.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	09/30/1997	Findings:	59.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09/30/1997	Findings:	37.000 MG/L
Chemical:	SODIUM		
Sample Collected:	09/30/1997	Findings:	37.000
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	09/30/1997	Findings:	2.000 MG/L
Chemical:	POTASSIUM		
Sample Collected:	09/30/1997	Findings:	44.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	09/30/1997	Findings:	26.000 MG/L
Chemical:	SILICA		
Sample Collected:	09/30/1997	Findings:	247.000 UG/L
Chemical:	BARIUM		
Sample Collected:	09/30/1997	Findings:	7.000 UG/L
Chemical:	SELENIUM		
Sample Collected:	09/30/1997	Findings:	501.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	09/30/1997	Findings:	.561
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	09/30/1997	Findings:	12.000 MG/L
Chemical:	NITRATE (AS NO3)		

Sample Collected:	09/30/1997	Findings:	.200 NTU
Chemical:	TURBIDITY (LAB)		

B7
East
1/2 - 1 Mile
Higher

CA WELLS 7689

Water System Information:

Prime Station Code:	07S/01E-21E02 M	User ID:	HEN
FRDS Number:	4310011030	County:	Santa Clara
District Number:	05	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	371900.0 1215200.0	Precision:	Undefined
Source Name:	COTTAGE GROVE WELL 03		
System Number:	4310011		
System Name:	San Jose Water Company		
Organization That Operates System:			
	1221 S. Bascom Avenue		
	San Jose, CA 95128		
Pop Served:	944000	Connections:	206890
Area Served:	SAN JOSE VICINITY		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	03/08/1981	Findings:	18.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	03/08/1981	Findings:	1.000 UNITS
Chemical:	COLOR		
Sample Collected:	03/08/1981	Findings:	670.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/08/1981	Findings:	7.350
Chemical:	PH (LABORATORY)		
Sample Collected:	03/08/1981	Findings:	241.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	03/08/1981	Findings:	293.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/08/1981	Findings:	.400 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	03/08/1981	Findings:	.080 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	03/08/1981	Findings:	314.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	03/08/1981	Findings:	62.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/08/1981	Findings:	39.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/08/1981	Findings:	19.000 MG/L
Chemical:	SODIUM		
Sample Collected:	03/08/1981	Findings:	.460
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	03/08/1981	Findings:	1.000 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/08/1981	Findings:	36.000 MG/L
Chemical:	CHLORIDE		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/08/1981	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	03/08/1981	Findings:	250.000 UG/L
Chemical:	BARIUM		
Sample Collected:	03/08/1981	Findings:	8.000 UG/L
Chemical:	LITHIUM		
Sample Collected:	03/08/1981	Findings:	390.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/08/1981	Findings:	.080
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	03/08/1981	Findings:	19.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/08/1981	Findings:	.006 UG/L
Chemical:	IODIDE		
Sample Collected:	03/08/1981	Findings:	.070 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	03/07/1983	Findings:	20.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	03/07/1983	Findings:	741.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/07/1983	Findings:	7.710
Chemical:	PH (LABORATORY)		
Sample Collected:	03/07/1983	Findings:	279.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	03/07/1983	Findings:	338.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/07/1983	Findings:	1.200 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	03/07/1983	Findings:	.100 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	03/07/1983	Findings:	332.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	03/07/1983	Findings:	63.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/07/1983	Findings:	42.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/07/1983	Findings:	33.000 MG/L
Chemical:	SODIUM		
Sample Collected:	03/07/1983	Findings:	.790
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	03/07/1983	Findings:	1.500 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/07/1983	Findings:	32.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/07/1983	Findings:	30.000 MG/L
Chemical:	SILICA		
Sample Collected:	03/07/1983	Findings:	445.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/07/1983	Findings:	.500
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		

Sample Collected:	03/07/1983	Findings:	17.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/07/1983	Findings:	.017 UG/L
Chemical:	IODIDE		
Sample Collected:	03/07/1983	Findings:	.150 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	07/01/1985	Findings:	19.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	07/01/1985	Findings:	780.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/01/1985	Findings:	7.830
Chemical:	PH (LABORATORY)		
Sample Collected:	07/01/1985	Findings:	295.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	07/01/1985	Findings:	357.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/01/1985	Findings:	1.600 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	07/01/1985	Findings:	.070 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	07/01/1985	Findings:	334.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	07/01/1985	Findings:	65.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/01/1985	Findings:	42.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07/01/1985	Findings:	30.000 MG/L
Chemical:	SODIUM		
Sample Collected:	07/01/1985	Findings:	.710
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	07/01/1985	Findings:	1.300 MG/L
Chemical:	POTASSIUM		
Sample Collected:	07/01/1985	Findings:	29.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	07/01/1985	Findings:	.140 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	07/01/1985	Findings:	26.000 MG/L
Chemical:	SILICA		
Sample Collected:	07/01/1985	Findings:	447.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/01/1985	Findings:	.660
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	07/01/1985	Findings:	15.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/01/1985	Findings:	.014 UG/L
Chemical:	IODIDE		
Sample Collected:	07/01/1985	Findings:	.150 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	01/12/1989	Findings:	21.000 C
Chemical:	SOURCE TEMPERATURE C		

Sample Collected:	01/12/1989	Findings:	1.000 UNITS
Chemical:	COLOR		
Sample Collected:	01/12/1989	Findings:	790.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	01/12/1989	Findings:	7.630
Chemical:	PH (LABORATORY)		
Sample Collected:	01/12/1989	Findings:	286.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	01/12/1989	Findings:	346.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	01/12/1989	Findings:	1.000 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	01/12/1989	Findings:	.130 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	01/12/1989	Findings:	336.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	01/12/1989	Findings:	67.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	01/12/1989	Findings:	41.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	01/12/1989	Findings:	40.000 MG/L
Chemical:	SODIUM		
Sample Collected:	01/12/1989	Findings:	.950
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	01/12/1989	Findings:	1.400 MG/L
Chemical:	POTASSIUM		
Sample Collected:	01/12/1989	Findings:	42.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	01/12/1989	Findings:	.130 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	01/12/1989	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	01/12/1989	Findings:	270.000 UG/L
Chemical:	BARIUM		
Sample Collected:	01/12/1989	Findings:	1.200 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	01/12/1989	Findings:	475.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	01/12/1989	Findings:	.400
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	01/12/1989	Findings:	17.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01/12/1989	Findings:	.009 UG/L
Chemical:	IODIDE		
Sample Collected:	01/12/1989	Findings:	.300 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	04/07/1989	Findings:	2.600 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	04/07/1989	Findings:	1.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

Sample Collected:	07/26/1989	Findings:	1.100 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	03/23/1990	Findings:	2.100 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	03/23/1990	Findings:	1.400 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/23/1992	Findings:	21.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	09/23/1992	Findings:	5.000 UNITS
Chemical:	COLOR		
Sample Collected:	09/23/1992	Findings:	840.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/23/1992	Findings:	7.650
Chemical:	PH (LABORATORY)		
Sample Collected:	09/23/1992	Findings:	292.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	09/23/1992	Findings:	354.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09/23/1992	Findings:	1.100 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	09/23/1992	Findings:	.080 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	09/23/1992	Findings:	354.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	09/23/1992	Findings:	70.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	09/23/1992	Findings:	39.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09/23/1992	Findings:	35.000 MG/L
Chemical:	SODIUM		
Sample Collected:	09/23/1992	Findings:	.810
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	09/23/1992	Findings:	1.400 MG/L
Chemical:	POTASSIUM		
Sample Collected:	09/23/1992	Findings:	38.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	09/23/1992	Findings:	.130 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	09/23/1992	Findings:	30.000 MG/L
Chemical:	SILICA		
Sample Collected:	09/23/1992	Findings:	290.000 UG/L
Chemical:	BARIUM		
Sample Collected:	09/23/1992	Findings:	474.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	09/23/1992	Findings:	.440
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	09/23/1992	Findings:	16.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/23/1992	Findings:	.015 UG/L
Chemical:	IODIDE		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09/23/1992	Findings:	.500 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	09/23/1992	Findings:	2.000 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09/23/1992	Findings:	1.300 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	05/10/1993	Findings:	16.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/01/1994	Findings:	16.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/09/1995	Findings:	2.500 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	06/09/1995	Findings:	2.200 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12/05/1995	Findings:	4.400 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12/13/1995	Findings:	21.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	12/13/1995	Findings:	830.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	12/13/1995	Findings:	7.710
Chemical:	PH (LABORATORY)		
Sample Collected:	12/13/1995	Findings:	287.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	12/13/1995	Findings:	348.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	12/13/1995	Findings:	1.200 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	12/13/1995	Findings:	.190 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	12/13/1995	Findings:	350.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	12/13/1995	Findings:	71.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	12/13/1995	Findings:	45.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	12/13/1995	Findings:	38.000 MG/L
Chemical:	SODIUM		
Sample Collected:	12/13/1995	Findings:	38.000
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	12/13/1995	Findings:	2.300 MG/L
Chemical:	POTASSIUM		
Sample Collected:	12/13/1995	Findings:	36.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	12/13/1995	Findings:	.120 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	12/13/1995	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	12/13/1995	Findings:	237.000 UG/L
Chemical:	BARIUM		

Sample Collected:	12/13/1995	Findings:	475.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	12/13/1995	Findings:	.512
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	12/13/1995	Findings:	15.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/13/1995	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	12/05/1996	Findings:	11.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/18/1997	Findings:	11.000 MG/L
Chemical:	NITRATE (AS NO3)		

B8
East
1/2 - 1 Mile
Higher

CA WELLS 7693

Water System Information:

Prime Station Code:	07S/01E-21E06 M	User ID:	HEN
FRDS Number:	4310011034	County:	Santa Clara
District Number:	05	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	371900.0 1215200.0	Precision:	Undefined
Source Name:	COTTAGE GROVE WELL 07		
System Number:	4310011		
System Name:	San Jose Water Company		
Organization That Operates System:	1221 S. Bascom Avenue San Jose, CA 95128		
Pop Served:	944000	Connections:	206890
Area Served:	SAN JOSE VICINITY		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	01/14/1980	Findings:	20.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	01/14/1980	Findings:	770.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	01/14/1980	Findings:	7.650
Chemical:	PH (LABORATORY)		
Sample Collected:	01/14/1980	Findings:	295.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	01/14/1980	Findings:	357.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	01/14/1980	Findings:	1.100 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	01/14/1980	Findings:	.090 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	01/14/1980	Findings:	336.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	01/14/1980	Findings:	74.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	01/14/1980	Findings:	37.000 MG/L
Chemical:	MAGNESIUM		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	01/14/1980	Findings:	34.000 MG/L
Chemical:	SODIUM		
Sample Collected:	01/14/1980	Findings:	.820
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	01/14/1980	Findings:	1.600 MG/L
Chemical:	POTASSIUM		
Sample Collected:	01/14/1980	Findings:	30.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	01/14/1980	Findings:	24.000 MG/L
Chemical:	SILICA		
Sample Collected:	01/14/1980	Findings:	8.000 UG/L
Chemical:	LITHIUM		
Sample Collected:	01/14/1980	Findings:	451.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	01/14/1980	Findings:	.530
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	01/14/1980	Findings:	15.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01/14/1980	Findings:	.013 UG/L
Chemical:	IODIDE		
Sample Collected:	01/14/1980	Findings:	.060 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	04/15/1984	Findings:	20.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	04/15/1984	Findings:	789.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	04/15/1984	Findings:	7.750
Chemical:	PH (LABORATORY)		
Sample Collected:	04/15/1984	Findings:	283.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	04/15/1984	Findings:	343.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	04/15/1984	Findings:	1.300 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	04/15/1984	Findings:	.060 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	04/15/1984	Findings:	335.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	04/15/1984	Findings:	73.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	04/15/1984	Findings:	37.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	04/15/1984	Findings:	37.000 MG/L
Chemical:	SODIUM		
Sample Collected:	04/15/1984	Findings:	.890
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	04/15/1984	Findings:	1.500 MG/L
Chemical:	POTASSIUM		
Sample Collected:	04/15/1984	Findings:	34.000 MG/L
Chemical:	CHLORIDE		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04/15/1984	Findings:	19.000 MG/L
Chemical:	SILICA		
Sample Collected:	04/15/1984	Findings:	180.000 UG/L
Chemical:	BARIUM		
Sample Collected:	04/15/1984	Findings:	466.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	04/15/1984	Findings:	.610
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	04/15/1984	Findings:	17.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/15/1984	Findings:	.014 UG/L
Chemical:	IODIDE		
Sample Collected:	04/15/1984	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	07/11/1986	Findings:	20.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	07/11/1986	Findings:	805.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/11/1986	Findings:	7.460
Chemical:	PH (LABORATORY)		
Sample Collected:	07/11/1986	Findings:	311.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	07/11/1986	Findings:	378.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/11/1986	Findings:	.700 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	07/11/1986	Findings:	.120 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	07/11/1986	Findings:	386.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	07/11/1986	Findings:	78.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/11/1986	Findings:	47.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07/11/1986	Findings:	32.000 MG/L
Chemical:	SODIUM		
Sample Collected:	07/11/1986	Findings:	.710
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	07/11/1986	Findings:	1.200 MG/L
Chemical:	POTASSIUM		
Sample Collected:	07/11/1986	Findings:	39.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	07/11/1986	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	07/11/1986	Findings:	514.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/11/1986	Findings:	.380
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	07/11/1986	Findings:	18.000 MG/L
Chemical:	NITRATE (AS NO3)		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07/11/1986	Findings:	.016 UG/L
Chemical:	IODIDE		
Sample Collected:	07/11/1986	Findings:	.300 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	03/27/1987	Findings:	849.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/27/1987	Findings:	7.720
Chemical:	PH (LABORATORY)		
Sample Collected:	03/27/1987	Findings:	304.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	03/27/1987	Findings:	368.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/27/1987	Findings:	1.300 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	03/27/1987	Findings:	.100 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	03/27/1987	Findings:	358.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	03/27/1987	Findings:	71.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/27/1987	Findings:	44.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/27/1987	Findings:	38.000 MG/L
Chemical:	SODIUM		
Sample Collected:	03/27/1987	Findings:	.870
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	03/27/1987	Findings:	1.300 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/27/1987	Findings:	37.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/27/1987	Findings:	30.000 MG/L
Chemical:	SILICA		
Sample Collected:	03/27/1987	Findings:	580.000 UG/L
Chemical:	BARIUM		
Sample Collected:	03/27/1987	Findings:	12.000 UG/L
Chemical:	LEAD		
Sample Collected:	03/27/1987	Findings:	496.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/27/1987	Findings:	.590
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	03/27/1987	Findings:	18.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/27/1987	Findings:	.015 UG/L
Chemical:	IODIDE		
Sample Collected:	03/27/1987	Findings:	.300 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	03/23/1990	Findings:	19.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	03/23/1990	Findings:	1.000 UNITS
Chemical:	COLOR		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/23/1990	Findings:	850.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/23/1990	Findings:	7.780
Chemical:	PH (LABORATORY)		
Sample Collected:	03/23/1990	Findings:	330.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	03/23/1990	Findings:	399.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/23/1990	Findings:	1.600 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	03/23/1990	Findings:	.100 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	03/23/1990	Findings:	414.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	03/23/1990	Findings:	81.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/23/1990	Findings:	18.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/23/1990	Findings:	32.000 MG/L
Chemical:	SODIUM		
Sample Collected:	03/23/1990	Findings:	.680
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	03/23/1990	Findings:	2.600 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/23/1990	Findings:	35.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/23/1990	Findings:	.180 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	03/23/1990	Findings:	30.000 MG/L
Chemical:	SILICA		
Sample Collected:	03/23/1990	Findings:	230.000 UG/L
Chemical:	BARIUM		
Sample Collected:	03/23/1990	Findings:	530.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/23/1990	Findings:	.660
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	03/23/1990	Findings:	23.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/23/1990	Findings:	.009 UG/L
Chemical:	IODIDE		
Sample Collected:	03/23/1990	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	11/14/1990	Findings:	.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12/11/1990	Findings:	F 25.400 UG/L
Chemical:	DI(2-ETHYLHEXYL)PHTHALATE		
Sample Collected:	02/05/1992	Findings:	17.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	02/05/1992	Findings:	815.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	02/05/1992	Findings:	7.520
Chemical:	PH (LABORATORY)		
Sample Collected:	02/05/1992	Findings:	316.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	02/05/1992	Findings:	384.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	02/05/1992	Findings:	.900 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	02/05/1992	Findings:	.100 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	02/05/1992	Findings:	384.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	02/05/1992	Findings:	78.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	02/05/1992	Findings:	46.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	02/05/1992	Findings:	30.000 MG/L
Chemical:	SODIUM		
Sample Collected:	02/05/1992	Findings:	.670
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	02/05/1992	Findings:	1.800 MG/L
Chemical:	POTASSIUM		
Sample Collected:	02/05/1992	Findings:	28.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	02/05/1992	Findings:	30.000 MG/L
Chemical:	SILICA		
Sample Collected:	02/05/1992	Findings:	8.000 UG/L
Chemical:	LITHIUM		
Sample Collected:	02/05/1992	Findings:	500.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	02/05/1992	Findings:	.460
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	02/05/1992	Findings:	19.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/05/1992	Findings:	.011 UG/L
Chemical:	IODIDE		
Sample Collected:	02/05/1992	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	07/19/1993	Findings:	19.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	07/19/1993	Findings:	3.000 UNITS
Chemical:	COLOR		
Sample Collected:	07/19/1993	Findings:	885.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/19/1993	Findings:	7.630
Chemical:	PH (LABORATORY)		
Sample Collected:	07/19/1993	Findings:	289.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	07/19/1993	Findings:	350.000 MG/L
Chemical:	BICARBONATE ALKALINITY		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07/19/1993	Findings:	1.000 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	07/19/1993	Findings:	352.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	07/19/1993	Findings:	74.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/19/1993	Findings:	53.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07/19/1993	Findings:	35.000 MG/L
Chemical:	SODIUM		
Sample Collected:	07/19/1993	Findings:	.810
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	07/19/1993	Findings:	1.400 MG/L
Chemical:	POTASSIUM		
Sample Collected:	07/19/1993	Findings:	35.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	07/19/1993	Findings:	.210 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	07/19/1993	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	07/19/1993	Findings:	294.000 UG/L
Chemical:	BARIUM		
Sample Collected:	07/19/1993	Findings:	6.000 UG/L
Chemical:	SELENIUM		
Sample Collected:	07/19/1993	Findings:	475.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/19/1993	Findings:	.430
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	07/19/1993	Findings:	15.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/19/1993	Findings:	.006 UG/L
Chemical:	IODIDE		
Sample Collected:	07/19/1993	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	07/19/1993	Findings:	1.300 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	07/19/1993	Findings:	1.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10/05/1993	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	10/05/1993	Findings:	1.600 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/01/1994	Findings:	19.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05/17/1995	Findings:	16.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/12/1996	Findings:	19.400 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	03/12/1996	Findings:	1077.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/12/1996	Findings:	7.820
Chemical:	PH (LABORATORY)		
Sample Collected:	03/12/1996	Findings:	320.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	03/12/1996	Findings:	387.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/12/1996	Findings:	1.700 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	03/12/1996	Findings:	.090 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	03/12/1996	Findings:	376.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	03/12/1996	Findings:	77.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/12/1996	Findings:	55.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/12/1996	Findings:	34.000 MG/L
Chemical:	SODIUM		
Sample Collected:	03/12/1996	Findings:	34.000
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	03/12/1996	Findings:	1.700 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/12/1996	Findings:	38.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/12/1996	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	03/12/1996	Findings:	295.000 UG/L
Chemical:	BARIUM		
Sample Collected:	03/12/1996	Findings:	6.000 UG/L
Chemical:	SELENIUM		
Sample Collected:	03/12/1996	Findings:	505.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/12/1996	Findings:	.673
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	03/12/1996	Findings:	14.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/12/1996	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	09/20/1996	Findings:	3.300 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09/20/1996	Findings:	5.400 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/20/1996	Findings:	.102 PCI/L
Chemical:	URANIUM COUNTING ERROR		
Sample Collected:	03/17/1997	Findings:	13.000 MG/L
Chemical:	NITRATE (AS NO3)		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
B9 **East** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**7692**

Water System Information:

Prime Station Code:	07S/01E-21E05 M	User ID:	HEN
FRDS Number:	4310011033	County:	Santa Clara
District Number:	05	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	371900.0 1215200.0	Precision:	0.5 Mile (30 Seconds)
Source Name:	COTTAGE GROVE WELL 06		
System Number:	4310011		
System Name:	San Jose Water Company		
Organization That Operates System:			
	1221 S. Bascom Avenue San Jose, CA 95128		
Pop Served:	944000	Connections:	206890
Area Served:	SAN JOSE VICINITY		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	10/20/1980	Findings:	20.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	10/20/1980	Findings:	3.000 UNITS
Chemical:	COLOR		
Sample Collected:	10/20/1980	Findings:	780.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/20/1980	Findings:	7.740
Chemical:	PH (LABORATORY)		
Sample Collected:	10/20/1980	Findings:	291.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/20/1980	Findings:	352.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/20/1980	Findings:	1.300 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	10/20/1980	Findings:	.070 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	10/20/1980	Findings:	358.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/20/1980	Findings:	70.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/20/1980	Findings:	45.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/20/1980	Findings:	29.000 MG/L
Chemical:	SODIUM		
Sample Collected:	10/20/1980	Findings:	.670
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	10/20/1980	Findings:	1.500 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/20/1980	Findings:	29.000 MG/L
Chemical:	CHLORIDE		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10/20/1980	Findings:	30.000 MG/L
Chemical:	SILICA		
Sample Collected:	10/20/1980	Findings:	6.000 UG/L
Chemical:	LITHIUM		
Sample Collected:	10/20/1980	Findings:	466.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/20/1980	Findings:	.590
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	10/20/1980	Findings:	16.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/20/1980	Findings:	.015 UG/L
Chemical:	IODIDE		
Sample Collected:	10/20/1980	Findings:	.070 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	09/08/1982	Findings:	21.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	09/08/1982	Findings:	779.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/08/1982	Findings:	8.000
Chemical:	PH (LABORATORY)		
Sample Collected:	09/08/1982	Findings:	296.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	09/08/1982	Findings:	356.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09/08/1982	Findings:	2.400 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	09/08/1982	Findings:	.090 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	09/08/1982	Findings:	344.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	09/08/1982	Findings:	59.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	09/08/1982	Findings:	48.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09/08/1982	Findings:	32.000 MG/L
Chemical:	SODIUM		
Sample Collected:	09/08/1982	Findings:	.740
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	09/08/1982	Findings:	1.400 MG/L
Chemical:	POTASSIUM		
Sample Collected:	09/08/1982	Findings:	31.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	09/08/1982	Findings:	.110 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	09/08/1982	Findings:	34.000 MG/L
Chemical:	SILICA		
Sample Collected:	09/08/1982	Findings:	6.000 UG/L
Chemical:	LITHIUM		
Sample Collected:	09/08/1982	Findings:	461.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09/08/1982	Findings:	.780
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	09/08/1982	Findings:	16.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/08/1982	Findings:	.013 UG/L
Chemical:	IODIDE		
Sample Collected:	09/08/1982	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	04/19/1984	Findings:	21.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	04/19/1984	Findings:	3.000 UNITS
Chemical:	COLOR		
Sample Collected:	04/19/1984	Findings:	780.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	04/19/1984	Findings:	7.580
Chemical:	PH (LABORATORY)		
Sample Collected:	04/19/1984	Findings:	309.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	04/19/1984	Findings:	375.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	04/19/1984	Findings:	1.000 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	04/19/1984	Findings:	.110 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	04/19/1984	Findings:	369.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	04/19/1984	Findings:	64.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	04/19/1984	Findings:	51.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	04/19/1984	Findings:	32.000 MG/L
Chemical:	SODIUM		
Sample Collected:	04/19/1984	Findings:	.720
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	04/19/1984	Findings:	1.300 MG/L
Chemical:	POTASSIUM		
Sample Collected:	04/19/1984	Findings:	30.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	04/19/1984	Findings:	375.000 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	04/19/1984	Findings:	30.000 MG/L
Chemical:	SILICA		
Sample Collected:	04/19/1984	Findings:	484.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	04/19/1984	Findings:	.410
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	04/19/1984	Findings:	17.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/19/1984	Findings:	.011 UG/L
Chemical:	IODIDE		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04/19/1984	Findings:	.300 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	09/19/1984	Findings:	21.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	09/19/1984	Findings:	3.000 UNITS
Chemical:	COLOR		
Sample Collected:	09/19/1984	Findings:	780.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/19/1984	Findings:	7.580
Chemical:	PH (LABORATORY)		
Sample Collected:	09/19/1984	Findings:	309.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	09/19/1984	Findings:	375.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09/19/1984	Findings:	1.000 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	09/19/1984	Findings:	.110 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	09/19/1984	Findings:	369.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	09/19/1984	Findings:	64.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	09/19/1984	Findings:	51.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09/19/1984	Findings:	32.000 MG/L
Chemical:	SODIUM		
Sample Collected:	09/19/1984	Findings:	.720
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	09/19/1984	Findings:	1.300 MG/L
Chemical:	POTASSIUM		
Sample Collected:	09/19/1984	Findings:	30.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	09/19/1984	Findings:	.120 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	09/19/1984	Findings:	30.000 MG/L
Chemical:	SILICA		
Sample Collected:	09/19/1984	Findings:	484.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	09/19/1984	Findings:	.410
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	09/19/1984	Findings:	17.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/19/1984	Findings:	.011 UG/L
Chemical:	IODIDE		
Sample Collected:	09/19/1984	Findings:	.300 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	11/12/1986	Findings:	20.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	11/12/1986	Findings:	4.000 UNITS
Chemical:	COLOR		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11/12/1986	Findings:	795.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	11/12/1986	Findings:	7.710
Chemical:	PH (LABORATORY)		
Sample Collected:	11/12/1986	Findings:	317.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	11/12/1986	Findings:	384.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	11/12/1986	Findings:	1.300 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	11/12/1986	Findings:	.130 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	11/12/1986	Findings:	376.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	11/12/1986	Findings:	66.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	11/12/1986	Findings:	51.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	11/12/1986	Findings:	32.000 MG/L
Chemical:	SODIUM		
Sample Collected:	11/12/1986	Findings:	.720
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	11/12/1986	Findings:	1.300 MG/L
Chemical:	POTASSIUM		
Sample Collected:	11/12/1986	Findings:	34.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	11/12/1986	Findings:	.130 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	11/12/1986	Findings:	32.000 MG/L
Chemical:	SILICA		
Sample Collected:	11/12/1986	Findings:	499.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	11/12/1986	Findings:	.570
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	11/12/1986	Findings:	18.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11/12/1986	Findings:	.015 UG/L
Chemical:	IODIDE		
Sample Collected:	11/12/1986	Findings:	.700 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	03/04/1987	Findings:	18.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	03/04/1987	Findings:	830.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/04/1987	Findings:	7.710
Chemical:	PH (LABORATORY)		
Sample Collected:	03/04/1987	Findings:	298.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	03/04/1987	Findings:	361.000 MG/L
Chemical:	BICARBONATE ALKALINITY		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/04/1987	Findings:	1.300 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	03/04/1987	Findings:	.090 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	03/04/1987	Findings:	364.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	03/04/1987	Findings:	68.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/04/1987	Findings:	47.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/04/1987	Findings:	33.000 MG/L
Chemical:	SODIUM		
Sample Collected:	03/04/1987	Findings:	.750
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	03/04/1987	Findings:	1.400 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/04/1987	Findings:	34.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/04/1987	Findings:	.140 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	03/04/1987	Findings:	26.000 MG/L
Chemical:	SILICA		
Sample Collected:	03/04/1987	Findings:	520.000 UG/L
Chemical:	BARIUM		
Sample Collected:	03/04/1987	Findings:	472.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/04/1987	Findings:	.560
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	03/04/1987	Findings:	18.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/04/1987	Findings:	.012 UG/L
Chemical:	IODIDE		
Sample Collected:	03/04/1987	Findings:	.150 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	03/23/1990	Findings:	20.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	03/23/1990	Findings:	2.000 UNITS
Chemical:	COLOR		
Sample Collected:	03/23/1990	Findings:	810.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/23/1990	Findings:	7.690
Chemical:	PH (LABORATORY)		
Sample Collected:	03/23/1990	Findings:	328.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	03/23/1990	Findings:	398.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/23/1990	Findings:	1.300 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	03/23/1990	Findings:	.090 UG/L
Chemical:	PHOSPHATE		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/23/1990	Findings:	394.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	03/23/1990	Findings:	69.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/23/1990	Findings:	51.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/23/1990	Findings:	33.000 MG/L
Chemical:	SODIUM		
Sample Collected:	03/23/1990	Findings:	.720
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	03/23/1990	Findings:	2.400 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/23/1990	Findings:	32.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/23/1990	Findings:	.170 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	03/23/1990	Findings:	30.000 MG/L
Chemical:	SILICA		
Sample Collected:	03/23/1990	Findings:	250.000 UG/L
Chemical:	BARIUM		
Sample Collected:	03/23/1990	Findings:	504.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/23/1990	Findings:	.510
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	03/23/1990	Findings:	19.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/23/1990	Findings:	.010 UG/L
Chemical:	IODIDE		
Sample Collected:	03/23/1990	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	11/13/1990	Findings:	.800 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/19/1993	Findings:	20.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	07/19/1993	Findings:	1.000 UNITS
Chemical:	COLOR		
Sample Collected:	07/19/1993	Findings:	865.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/19/1993	Findings:	7.600
Chemical:	PH (LABORATORY)		
Sample Collected:	07/19/1993	Findings:	313.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	07/19/1993	Findings:	379.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/19/1993	Findings:	1.000 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	07/19/1993	Findings:	.050 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	07/19/1993	Findings:	358.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07/19/1993	Findings:	69.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/19/1993	Findings:	56.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07/19/1993	Findings:	35.000 MG/L
Chemical:	SODIUM		
Sample Collected:	07/19/1993	Findings:	.800
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	07/19/1993	Findings:	1.400 MG/L
Chemical:	POTASSIUM		
Sample Collected:	07/19/1993	Findings:	35.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	07/19/1993	Findings:	.220 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	07/19/1993	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	07/19/1993	Findings:	317.000 UG/L
Chemical:	BARIUM		
Sample Collected:	07/19/1993	Findings:	484.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/19/1993	Findings:	.400
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	07/19/1993	Findings:	14.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/19/1993	Findings:	.007 UG/L
Chemical:	IODIDE		
Sample Collected:	07/19/1993	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	02/09/1994	Findings:	2.600 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	02/09/1994	Findings:	2.000 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/01/1994	Findings:	17.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/02/1995	Findings:	10.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/18/1996	Findings:	20.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	06/18/1996	Findings:	2.000 UNITS
Chemical:	COLOR		
Sample Collected:	06/18/1996	Findings:	808.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	06/18/1996	Findings:	7.760
Chemical:	PH (LABORATORY)		
Sample Collected:	06/18/1996	Findings:	314.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	06/18/1996	Findings:	380.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	06/18/1996	Findings:	1.500 MG/L
Chemical:	CARBONATE ALKALINITY		

Sample Collected:	06/18/1996	Findings:	.120 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	06/18/1996	Findings:	378.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	06/18/1996	Findings:	71.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	06/18/1996	Findings:	60.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	06/18/1996	Findings:	35.000 MG/L
Chemical:	SODIUM		
Sample Collected:	06/18/1996	Findings:	35.000
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	06/18/1996	Findings:	2.500 MG/L
Chemical:	POTASSIUM		
Sample Collected:	06/18/1996	Findings:	41.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	06/18/1996	Findings:	30.000 MG/L
Chemical:	SILICA		
Sample Collected:	06/18/1996	Findings:	312.000 UG/L
Chemical:	BARIUM		
Sample Collected:	06/18/1996	Findings:	7.000 UG/L
Chemical:	SELENIUM		
Sample Collected:	06/18/1996	Findings:	506.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	06/18/1996	Findings:	.575
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	06/18/1996	Findings:	14.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/18/1996	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	06/18/1996	Findings:	5.000 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/30/1997	Findings:	12.000 MG/L
Chemical:	NITRATE (AS NO3)		

B10
East
1/2 - 1 Mile
Higher

CA WELLS 7691

Water System Information:

Prime Station Code:	07S/01E-21E04 M	User ID:	HEN
FRDS Number:	4310011032	County:	Santa Clara
District Number:	05	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	371900.0 1215200.0	Precision:	0.5 Mile (30 Seconds)
Source Name:	COTTAGE GROVE WELL 05 - INACTIVE		

System Number: 4310011
System Name: San Jose Water Company
Organization That Operates System:
1221 S. Bascom Avenue
San Jose, CA 95128
Pop Served: 944000 Connections: 206890
Area Served: SAN JOSE VICINITY

B11
East
1/2 - 1 Mile
Higher

CA WELLS 7695

Water System Information:

Prime Station Code:	07S/01E-22H04 M	User ID:	HEN
FRDS Number:	4310011107	County:	Santa Clara
District Number:	05	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Untreated
Source Lat/Long:	371900.0 1215200.0	Precision:	1 Mile (One Minute)
Source Name:	TULLY WELL 01		
System Number:	4310011		
System Name:	San Jose Water Company		
Organization That Operates System:	1221 S. Bascom Avenue San Jose, CA 95128		
Pop Served:	944000	Connections:	206890
Area Served:	SAN JOSE VICINITY		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	04/10/1980	Findings:	20.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	04/10/1980	Findings:	808.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	04/10/1980	Findings:	7.600
Chemical:	PH (LABORATORY)		
Sample Collected:	04/10/1980	Findings:	333.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	04/10/1980	Findings:	404.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	04/10/1980	Findings:	1.100 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	04/10/1980	Findings:	.140 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	04/10/1980	Findings:	392.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	04/10/1980	Findings:	58.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	04/10/1980	Findings:	60.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	04/10/1980	Findings:	34.000 MG/L
Chemical:	SODIUM		
Sample Collected:	04/10/1980	Findings:	.750
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	04/10/1980	Findings:	1.400 MG/L
Chemical:	POTASSIUM		

Sample Collected:	04/10/1980	Findings:	28.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	04/10/1980	Findings:	.150 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	04/10/1980	Findings:	36.000 MG/L
Chemical:	SILICA		
Sample Collected:	04/10/1980	Findings:	503.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	04/10/1980	Findings:	.420
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	04/10/1980	Findings:	14.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/10/1980	Findings:	.010 UG/L
Chemical:	IODIDE		
Sample Collected:	04/10/1980	Findings:	.050 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	02/03/1981	Findings:	18.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	02/03/1981	Findings:	780.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	02/03/1981	Findings:	7.660
Chemical:	PH (LABORATORY)		
Sample Collected:	02/03/1981	Findings:	297.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	02/03/1981	Findings:	360.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	02/03/1981	Findings:	1.100 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	02/03/1981	Findings:	.100 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	02/03/1981	Findings:	350.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	02/03/1981	Findings:	60.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	02/03/1981	Findings:	49.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	02/03/1981	Findings:	32.000 MG/L
Chemical:	SODIUM		
Sample Collected:	02/03/1981	Findings:	.730
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	02/03/1981	Findings:	1.300 MG/L
Chemical:	POTASSIUM		
Sample Collected:	02/03/1981	Findings:	30.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	02/03/1981	Findings:	.150 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	02/03/1981	Findings:	30.000 MG/L
Chemical:	SILICA		
Sample Collected:	02/03/1981	Findings:	240.000 UG/L
Chemical:	BARIUM		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	02/03/1981	Findings:	70.000 UG/L
Chemical:	ZINC		
Sample Collected:	02/03/1981	Findings:	10.000 UG/L
Chemical:	LITHIUM		
Sample Collected:	02/03/1981	Findings:	.010 UG/L
Chemical:	FOAMING AGENTS (MBAS)		
Sample Collected:	02/03/1981	Findings:	462.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	02/03/1981	Findings:	.460
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	02/03/1981	Findings:	13.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/03/1981	Findings:	.012 UG/L
Chemical:	IODIDE		
Sample Collected:	02/03/1981	Findings:	.050 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	03/20/1985	Findings:	.600 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	08/26/1985	Findings:	18.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	08/26/1985	Findings:	850.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	08/26/1985	Findings:	7.880
Chemical:	PH (LABORATORY)		
Sample Collected:	08/26/1985	Findings:	357.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	08/26/1985	Findings:	431.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	08/26/1985	Findings:	2.200 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	08/26/1985	Findings:	.110 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	08/26/1985	Findings:	427.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	08/26/1985	Findings:	63.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	08/26/1985	Findings:	65.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	08/26/1985	Findings:	34.000 MG/L
Chemical:	SODIUM		
Sample Collected:	08/26/1985	Findings:	.720
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	08/26/1985	Findings:	1.500 MG/L
Chemical:	POTASSIUM		
Sample Collected:	08/26/1985	Findings:	33.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	08/26/1985	Findings:	.140 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	08/26/1985	Findings:	30.000 MG/L
Chemical:	SILICA		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08/26/1985	Findings:	528.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08/26/1985	Findings:	.770
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	08/26/1985	Findings:	15.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/26/1985	Findings:	.015 UG/L
Chemical:	IODIDE		
Sample Collected:	08/26/1985	Findings:	.150 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	01/09/1986	Findings:	.800 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	04/01/1986	Findings:	1.200 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	03/11/1988	Findings:	18.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	03/11/1988	Findings:	3.000 UNITS
Chemical:	COLOR		
Sample Collected:	03/11/1988	Findings:	840.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/11/1988	Findings:	7.730
Chemical:	PH (LABORATORY)		
Sample Collected:	03/11/1988	Findings:	328.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	03/11/1988	Findings:	397.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/11/1988	Findings:	1.400 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	03/11/1988	Findings:	.140 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	03/11/1988	Findings:	414.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	03/11/1988	Findings:	62.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/11/1988	Findings:	63.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/11/1988	Findings:	35.000 MG/L
Chemical:	SODIUM		
Sample Collected:	03/11/1988	Findings:	.750
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	03/11/1988	Findings:	1.500 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/11/1988	Findings:	37.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/11/1988	Findings:	.140 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	03/11/1988	Findings:	30.000 MG/L
Chemical:	SILICA		
Sample Collected:	03/11/1988	Findings:	270.000 UG/L
Chemical:	BARIUM		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/11/1988	Findings:	522.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/11/1988	Findings:	.480
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	03/11/1988	Findings:	15.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/11/1988	Findings:	.009 UG/L
Chemical:	IODIDE		
Sample Collected:	03/11/1988	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	03/21/1988	Findings:	1.000 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	09/08/1988	Findings:	.800 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	03/17/1989	Findings:	.800 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	03/26/1990	Findings:	.900 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	05/14/1991	Findings:	17.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	05/14/1991	Findings:	3.000 UNITS
Chemical:	COLOR		
Sample Collected:	05/14/1991	Findings:	870.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	05/14/1991	Findings:	7.770
Chemical:	PH (LABORATORY)		
Sample Collected:	05/14/1991	Findings:	348.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	05/14/1991	Findings:	422.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	05/14/1991	Findings:	1.700 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	05/14/1991	Findings:	.100 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	05/14/1991	Findings:	404.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	05/14/1991	Findings:	61.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	05/14/1991	Findings:	64.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	05/14/1991	Findings:	36.000 MG/L
Chemical:	SODIUM		
Sample Collected:	05/14/1991	Findings:	.780
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	05/14/1991	Findings:	1.300 MG/L
Chemical:	POTASSIUM		
Sample Collected:	05/14/1991	Findings:	35.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	05/14/1991	Findings:	.160 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	05/14/1991	Findings:	36.000 MG/L
Chemical:	SILICA		
Sample Collected:	05/14/1991	Findings:	290.000 UG/L
Chemical:	BARIUM		
Sample Collected:	05/14/1991	Findings:	.020 UG/L
Chemical:	FOAMING AGENTS (MBAS)		
Sample Collected:	05/14/1991	Findings:	521.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	05/14/1991	Findings:	.520
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	05/14/1991	Findings:	15.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05/14/1991	Findings:	.019 UG/L
Chemical:	IODIDE		
Sample Collected:	05/14/1991	Findings:	.150 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	02/26/1992	Findings:	2.100 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	02/26/1992	Findings:	1.300 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	05/24/1993	Findings:	15.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/01/1994	Findings:	.700 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	12/13/1994	Findings:	19.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	12/13/1994	Findings:	2.000 UNITS
Chemical:	COLOR		
Sample Collected:	12/13/1994	Findings:	894.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	12/13/1994	Findings:	7.670
Chemical:	PH (LABORATORY)		
Sample Collected:	12/13/1994	Findings:	332.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	12/13/1994	Findings:	403.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	12/13/1994	Findings:	1.300 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	12/13/1994	Findings:	.120 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	12/13/1994	Findings:	394.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	12/13/1994	Findings:	58.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	12/13/1994	Findings:	77.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	12/13/1994	Findings:	36.000 MG/L
Chemical:	SODIUM		
Sample Collected:	12/13/1994	Findings:	.790
Chemical:	SODIUM ABSORPTION RATIO		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	12/13/1994	Findings:	1.500 MG/L
Chemical:	POTASSIUM		
Sample Collected:	12/13/1994	Findings:	44.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	12/13/1994	Findings:	.160 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	12/13/1994	Findings:	36.000 MG/L
Chemical:	SILICA		
Sample Collected:	12/13/1994	Findings:	385.000 UG/L
Chemical:	BARIUM		
Sample Collected:	12/13/1994	Findings:	12.000 UG/L
Chemical:	CHROMIUM (TOTAL)		
Sample Collected:	12/13/1994	Findings:	524.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	12/13/1994	Findings:	.400
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	12/13/1994	Findings:	13.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/13/1994	Findings:	.011 UG/L
Chemical:	IODIDE		
Sample Collected:	12/13/1994	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	03/14/1995	Findings:	13.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/14/1995	Findings:	2.200 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	03/14/1995	Findings:	2.000 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	03/21/1995	Findings:	.600 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	09/11/1995	Findings:	2.300 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09/11/1995	Findings:	3.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	03/11/1997	Findings:	19.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	03/11/1997	Findings:	1.000 UNITS
Chemical:	COLOR		
Sample Collected:	03/11/1997	Findings:	751.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/11/1997	Findings:	7.650
Chemical:	PH (LABORATORY)		
Sample Collected:	03/11/1997	Findings:	336.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	03/11/1997	Findings:	408.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/11/1997	Findings:	1.200 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	03/11/1997	Findings:	.070 UG/L
Chemical:	PHOSPHATE		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04/08/1981	Findings:	11.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/20/1984	Findings:	.130 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	03/20/1984	Findings:	12.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/14/1985	Findings:	826.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/14/1985	Findings:	7.600
Chemical:	PH (LABORATORY)		
Sample Collected:	03/14/1985	Findings:	288.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/14/1985	Findings:	384.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	03/14/1985	Findings:	65.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/14/1985	Findings:	54.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/14/1985	Findings:	32.000 MG/L
Chemical:	SODIUM		
Sample Collected:	03/14/1985	Findings:	28.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/14/1985	Findings:	150.000 UG/L
Chemical:	IRON		
Sample Collected:	03/14/1985	Findings:	250.000 UG/L
Chemical:	ZINC		
Sample Collected:	03/14/1985	Findings:	470.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	04/18/1988	Findings:	1.900 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	05/09/1989	Findings:	.830 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/03/1990	Findings:	750.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/03/1990	Findings:	7.600
Chemical:	PH (LABORATORY)		
Sample Collected:	09/03/1990	Findings:	300.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09/03/1990	Findings:	390.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	09/03/1990	Findings:	67.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	09/03/1990	Findings:	54.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09/03/1990	Findings:	32.000 MG/L
Chemical:	SODIUM		
Sample Collected:	09/03/1990	Findings:	29.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	09/03/1990	Findings:	170.000 UG/L
Chemical:	BARIUM		

Sample Collected:	07/14/1993	Findings:	.390 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	07/14/1993	Findings:	30.000 UG/L
Chemical:	MANGANESE		
Sample Collected:	07/14/1993	Findings:	474.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/14/1993	Findings:	11.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/14/1993	Findings:	.010 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	01/27/1997	Findings:	12.000 MG/L
Chemical:	NITRATE (AS NO3)		

C13
South
1/2 - 1 Mile
Higher

CA WELLS 7703

Water System Information:

Prime Station Code:	07S/01E-26D02 M	User ID:	HEN
FRDS Number:	4310011086	County:	Santa Clara
District Number:	05	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Untreated
Source Lat/Long:	371800.0 1215300.0	Precision:	1 Mile (One Minute)
Source Name:	SENTER WELL 01		
System Number:	4310011		
System Name:	San Jose Water Company		
Organization That Operates System:	1221 S. Bascom Avenue San Jose, CA 95128		
Pop Served:	944000	Connections:	206890
Area Served:	SAN JOSE VICINITY		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	08/05/1980	Findings:	18.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	08/05/1980	Findings:	1.000 UNITS
Chemical:	COLOR		
Sample Collected:	08/05/1980	Findings:	770.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	08/05/1980	Findings:	7.650
Chemical:	PH (LABORATORY)		
Sample Collected:	08/05/1980	Findings:	315.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	08/05/1980	Findings:	381.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	08/05/1980	Findings:	1.200 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	08/05/1980	Findings:	.130 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	08/05/1980	Findings:	358.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	08/05/1980	Findings:	54.000 MG/L
Chemical:	CALCIUM		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08/27/1981	Findings:	28.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	08/27/1981	Findings:	.140 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	08/27/1981	Findings:	34.000 MG/L
Chemical:	SILICA		
Sample Collected:	08/27/1981	Findings:	130.000 UG/L
Chemical:	BARIUM		
Sample Collected:	08/27/1981	Findings:	10.000 UG/L
Chemical:	LITHIUM		
Sample Collected:	08/27/1981	Findings:	482.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08/27/1981	Findings:	.330
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	08/27/1981	Findings:	17.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/27/1981	Findings:	.008 UG/L
Chemical:	IODIDE		
Sample Collected:	08/27/1981	Findings:	.050 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	06/03/1982	Findings:	20.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	06/03/1982	Findings:	795.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	06/03/1982	Findings:	7.590
Chemical:	PH (LABORATORY)		
Sample Collected:	06/03/1982	Findings:	307.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	06/03/1982	Findings:	372.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	06/03/1982	Findings:	1.000 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	06/03/1982	Findings:	.100 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	06/03/1982	Findings:	364.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	06/03/1982	Findings:	58.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	06/03/1982	Findings:	53.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	06/03/1982	Findings:	33.000 MG/L
Chemical:	SODIUM		
Sample Collected:	06/03/1982	Findings:	.750
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	06/03/1982	Findings:	1.300 MG/L
Chemical:	POTASSIUM		
Sample Collected:	06/03/1982	Findings:	28.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	06/03/1982	Findings:	.150 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08/08/1983	Findings:	.012 UG/L
Chemical:	IODIDE		
Sample Collected:	08/08/1983	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	05/22/1984	Findings:	2.500 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	06/12/1984	Findings:	18.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	06/12/1984	Findings:	850.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	06/12/1984	Findings:	7.610
Chemical:	PH (LABORATORY)		
Sample Collected:	06/12/1984	Findings:	318.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	06/12/1984	Findings:	386.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	06/12/1984	Findings:	1.100 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	06/12/1984	Findings:	.120 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	06/12/1984	Findings:	390.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	06/12/1984	Findings:	56.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	06/12/1984	Findings:	61.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	06/12/1984	Findings:	36.000 MG/L
Chemical:	SODIUM		
Sample Collected:	06/12/1984	Findings:	.790
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	06/12/1984	Findings:	1.400 MG/L
Chemical:	POTASSIUM		
Sample Collected:	06/12/1984	Findings:	31.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	06/12/1984	Findings:	.140 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	06/12/1984	Findings:	30.000 MG/L
Chemical:	SILICA		
Sample Collected:	06/12/1984	Findings:	240.000 UG/L
Chemical:	BARIUM		
Sample Collected:	06/12/1984	Findings:	509.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	06/12/1984	Findings:	.400
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	06/12/1984	Findings:	16.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/12/1984	Findings:	.009 UG/L
Chemical:	IODIDE		
Sample Collected:	06/12/1984	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	12/10/1985	Findings:	2.200 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	03/18/1986	Findings:	2.800 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	06/19/1986	Findings:	2.700 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	09/22/1986	Findings:	2.100 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	10/27/1986	Findings:	2.800 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	11/12/1986	Findings:	17.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	11/12/1986	Findings:	2.000 UNITS
Chemical:	COLOR		
Sample Collected:	11/12/1986	Findings:	810.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	11/12/1986	Findings:	7.660
Chemical:	PH (LABORATORY)		
Sample Collected:	11/12/1986	Findings:	327.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	11/12/1986	Findings:	396.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	11/12/1986	Findings:	1.200 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	11/12/1986	Findings:	.020 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	11/12/1986	Findings:	388.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	11/12/1986	Findings:	669.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	11/12/1986	Findings:	52.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	11/12/1986	Findings:	19.000 MG/L
Chemical:	SODIUM		
Sample Collected:	11/12/1986	Findings:	.420
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	11/12/1986	Findings:	1.200 MG/L
Chemical:	POTASSIUM		
Sample Collected:	11/12/1986	Findings:	33.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	11/12/1986	Findings:	.180 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	11/12/1986	Findings:	39.000 MG/L
Chemical:	SILICA		
Sample Collected:	11/12/1986	Findings:	476.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	11/12/1986	Findings:	.560
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	11/12/1986	Findings:	18.000 MG/L
Chemical:	NITRATE (AS NO3)		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09/23/1987	Findings:	.200 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	12/08/1987	Findings:	1.700 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	03/11/1988	Findings:	1.700 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	06/20/1988	Findings:	2.500 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	09/08/1988	Findings:	1.900 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	12/05/1988	Findings:	1.500 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	03/06/1989	Findings:	1.400 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	07/06/1989	Findings:	1.300 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	09/25/1989	Findings:	1.300 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	12/18/1989	Findings:	1.400 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	03/20/1990	Findings:	1.600 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	06/05/1990	Findings:	1.200 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	09/10/1990	Findings:	1.000 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	10/09/1990	Findings:	18.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	10/09/1990	Findings:	820.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/09/1990	Findings:	7.780
Chemical:	PH (LABORATORY)		
Sample Collected:	10/09/1990	Findings:	304.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/09/1990	Findings:	368.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/09/1990	Findings:	1.500 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	10/09/1990	Findings:	.180 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	10/09/1990	Findings:	372.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/09/1990	Findings:	52.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/09/1990	Findings:	60.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/09/1990	Findings:	36.000 MG/L
Chemical:	SODIUM		
Sample Collected:	10/09/1990	Findings:	.810
Chemical:	SODIUM ABSORPTION RATIO		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	06/14/1993	Findings:	57.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	06/14/1993	Findings:	77.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	06/14/1993	Findings:	37.000 MG/L
Chemical:	SODIUM		
Sample Collected:	06/14/1993	Findings:	.800
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	06/14/1993	Findings:	1.300 MG/L
Chemical:	POTASSIUM		
Sample Collected:	06/14/1993	Findings:	40.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	06/14/1993	Findings:	.210 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	06/14/1993	Findings:	32.000 MG/L
Chemical:	SILICA		
Sample Collected:	06/14/1993	Findings:	360.000 UG/L
Chemical:	BARIUM		
Sample Collected:	06/14/1993	Findings:	15.000 UG/L
Chemical:	CHROMIUM (TOTAL)		
Sample Collected:	06/14/1993	Findings:	6.000 UG/L
Chemical:	SELENIUM		
Sample Collected:	06/14/1993	Findings:	.800 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	06/14/1993	Findings:	533.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	06/14/1993	Findings:	.450
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	06/14/1993	Findings:	14.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/14/1993	Findings:	.006 UG/L
Chemical:	IODIDE		
Sample Collected:	06/14/1993	Findings:	.150 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	12/08/1993	Findings:	1.000 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	02/24/1994	Findings:	.900 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	05/26/1994	Findings:	15.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/13/1994	Findings:	1.100 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	09/07/1994	Findings:	1.400 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	12/14/1994	Findings:	1.000 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	03/16/1995	Findings:	1.200 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	06/14/1995	Findings:	1.200 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		

Sample Collected:	07/16/1996	Findings:	533.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/16/1996	Findings:	.534
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	07/16/1996	Findings:	11.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/16/1996	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	09/15/1996	Findings:	.900 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	03/04/1997	Findings:	.800 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	06/10/1997	Findings:	1.300 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	06/10/1997	Findings:	.500 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/23/1997	Findings:	1.000 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	09/10/1997	Findings:	12.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/10/1997	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09/10/1997	Findings:	.400 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/10/1997	Findings:	1.000 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		

C14
South
1/2 - 1 Mile
Higher

CA WELLS 7685

Water System Information:

Prime Station Code:	07S/01E-20Q02 M	User ID:	HEN
FRDS Number:	4310011141	County:	Santa Clara
District Number:	05	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	371800.0 1215300.0	Precision:	0.5 Mile (30 Seconds)
Source Name:	WILLOW GLEN WAY WELL 02		
System Number:	4310011		
System Name:	San Jose Water Company		
Organization That Operates System:	1221 S. Bascom Avenue San Jose, CA 95128		
Pop Served:	944000	Connections:	206890
Area Served:	SAN JOSE VICINITY		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	11/05/1985	Findings:	3.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	11/05/1985	Findings:	2.000 UNITS
Chemical:	COLOR		
Sample Collected:	11/05/1985	Findings:	705.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09/23/1987	Findings:	.060 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	09/23/1987	Findings:	324.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	09/23/1987	Findings:	61.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	09/23/1987	Findings:	42.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09/23/1987	Findings:	18.000 MG/L
Chemical:	SODIUM		
Sample Collected:	09/23/1987	Findings:	.430
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	09/23/1987	Findings:	1.300 MG/L
Chemical:	POTASSIUM		
Sample Collected:	09/23/1987	Findings:	41.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	09/23/1987	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	09/23/1987	Findings:	180.000 UG/L
Chemical:	BARIUM		
Sample Collected:	09/23/1987	Findings:	408.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	09/23/1987	Findings:	.430
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	09/23/1987	Findings:	21.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/23/1987	Findings:	.007 UG/L
Chemical:	IODIDE		
Sample Collected:	09/23/1987	Findings:	.250 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	07/25/1990	Findings:	18.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	07/25/1990	Findings:	2.000 UNITS
Chemical:	COLOR		
Sample Collected:	07/25/1990	Findings:	615.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/25/1990	Findings:	7.410
Chemical:	PH (LABORATORY)		
Sample Collected:	07/25/1990	Findings:	221.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	07/25/1990	Findings:	268.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/25/1990	Findings:	.500 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	07/25/1990	Findings:	.060 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	07/25/1990	Findings:	288.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	07/25/1990	Findings:	54.000 MG/L
Chemical:	CALCIUM		

Sample Collected:	08/25/1993	Findings:	.460
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	08/25/1993	Findings:	1.300 MG/L
Chemical:	POTASSIUM		
Sample Collected:	08/25/1993	Findings:	56.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	08/25/1993	Findings:	.130 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	08/25/1993	Findings:	17.000 MG/L
Chemical:	SILICA		
Sample Collected:	08/25/1993	Findings:	310.000 UG/L
Chemical:	BARIUM		
Sample Collected:	08/25/1993	Findings:	365.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08/25/1993	Findings:	.130
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	08/25/1993	Findings:	9.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/25/1993	Findings:	.005 UG/L
Chemical:	IODIDE		
Sample Collected:	08/25/1993	Findings:	.150 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	08/25/1993	Findings:	1.200 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/10/1994	Findings:	11.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05/17/1995	Findings:	10.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/20/1996	Findings:	18.300 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	03/20/1996	Findings:	935.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/20/1996	Findings:	7.890
Chemical:	PH (LABORATORY)		
Sample Collected:	03/20/1996	Findings:	209.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	03/20/1996	Findings:	252.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/20/1996	Findings:	1.300 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	03/20/1996	Findings:	.030 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	03/20/1996	Findings:	302.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	03/20/1996	Findings:	57.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/20/1996	Findings:	40.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/20/1996	Findings:	20.000 MG/L
Chemical:	SODIUM		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	12/16/1980	Findings:	269.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	12/16/1980	Findings:	327.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	12/16/1980	Findings:	.500 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	12/16/1980	Findings:	.080 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	12/16/1980	Findings:	344.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	12/16/1980	Findings:	68.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	12/16/1980	Findings:	42.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	12/16/1980	Findings:	19.000 MG/L
Chemical:	SODIUM		
Sample Collected:	12/16/1980	Findings:	.440
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	12/16/1980	Findings:	1.400 MG/L
Chemical:	POTASSIUM		
Sample Collected:	12/16/1980	Findings:	36.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	12/16/1980	Findings:	26.000 MG/L
Chemical:	SILICA		
Sample Collected:	12/16/1980	Findings:	6.000 UG/L
Chemical:	LITHIUM		
Sample Collected:	12/16/1980	Findings:	435.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	12/16/1980	Findings:	.150
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	12/16/1980	Findings:	26.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/16/1980	Findings:	.130 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	09/08/1982	Findings:	18.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	09/08/1982	Findings:	2.000 UNITS
Chemical:	COLOR		
Sample Collected:	09/08/1982	Findings:	777.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/08/1982	Findings:	7.840
Chemical:	PH (LABORATORY)		
Sample Collected:	09/08/1982	Findings:	283.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	09/08/1982	Findings:	342.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09/08/1982	Findings:	1.600 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	09/08/1982	Findings:	.070 UG/L
Chemical:	PHOSPHATE		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10/17/1984	Findings:	1.300 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/17/1984	Findings:	41.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/17/1984	Findings:	26.000 MG/L
Chemical:	SILICA		
Sample Collected:	10/17/1984	Findings:	479.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/17/1984	Findings:	.180
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	10/17/1984	Findings:	27.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/17/1984	Findings:	.007 UG/L
Chemical:	IODIDE		
Sample Collected:	10/17/1984	Findings:	.300 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	11/17/1986	Findings:	18.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	11/17/1986	Findings:	1.000 UNITS
Chemical:	COLOR		
Sample Collected:	11/17/1986	Findings:	88.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	11/17/1986	Findings:	7.540
Chemical:	PH (LABORATORY)		
Sample Collected:	11/17/1986	Findings:	324.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	11/17/1986	Findings:	394.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	11/17/1986	Findings:	.900 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	11/17/1986	Findings:	.100 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	11/17/1986	Findings:	443.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	11/17/1986	Findings:	822.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	11/17/1986	Findings:	58.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	11/17/1986	Findings:	17.000 MG/L
Chemical:	SODIUM		
Sample Collected:	11/17/1986	Findings:	.350
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	11/17/1986	Findings:	1.200 MG/L
Chemical:	POTASSIUM		
Sample Collected:	11/17/1986	Findings:	46.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	11/17/1986	Findings:	26.000 MG/L
Chemical:	SILICA		
Sample Collected:	11/17/1986	Findings:	533.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		

Sample Collected:	10/17/1991	Findings:	18.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	10/17/1991	Findings:	1.000 UNITS
Chemical:	COLOR		
Sample Collected:	10/17/1991	Findings:	645.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/17/1991	Findings:	7.400
Chemical:	PH (LABORATORY)		
Sample Collected:	10/17/1991	Findings:	230.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/17/1991	Findings:	279.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/17/1991	Findings:	.500 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	10/17/1991	Findings:	.100 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	10/17/1991	Findings:	298.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/17/1991	Findings:	55.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/17/1991	Findings:	38.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/17/1991	Findings:	19.000 MG/L
Chemical:	SODIUM		
Sample Collected:	10/17/1991	Findings:	.480
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	10/17/1991	Findings:	1.200 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/17/1991	Findings:	38.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/17/1991	Findings:	.130 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	10/17/1991	Findings:	30.000 MG/L
Chemical:	SILICA		
Sample Collected:	10/17/1991	Findings:	220.000 UG/L
Chemical:	BARIUM		
Sample Collected:	10/17/1991	Findings:	374.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/17/1991	Findings:	- .020
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	10/17/1991	Findings:	11.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/17/1991	Findings:	.005 UG/L
Chemical:	IODIDE		
Sample Collected:	10/17/1991	Findings:	.150 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	10/17/1991	Findings:	1.600 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	10/17/1991	Findings:	1.200 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	02/06/1995	Findings:	1.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	04/11/1995	Findings:	15.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/11/1995	Findings:	1.700 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	04/11/1995	Findings:	1.900 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	04/18/1996	Findings:	15.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/09/1997	Findings:	18.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	04/09/1997	Findings:	691.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	04/09/1997	Findings:	7.240
Chemical:	PH (LABORATORY)		
Sample Collected:	04/09/1997	Findings:	262.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	04/09/1997	Findings:	319.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	04/09/1997	Findings:	.400 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	04/09/1997	Findings:	.080 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	04/09/1997	Findings:	357.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	04/09/1997	Findings:	66.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	04/09/1997	Findings:	52.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	04/09/1997	Findings:	23.000 MG/L
Chemical:	SODIUM		
Sample Collected:	04/09/1997	Findings:	23.000
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	04/09/1997	Findings:	1.700 MG/L
Chemical:	POTASSIUM		
Sample Collected:	04/09/1997	Findings:	58.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	04/09/1997	Findings:	26.000 MG/L
Chemical:	SILICA		
Sample Collected:	04/09/1997	Findings:	346.000 UG/L
Chemical:	BARIUM		
Sample Collected:	04/09/1997	Findings:	442.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	04/09/1997	Findings:	.067
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	04/09/1997	Findings:	14.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/09/1997	Findings:	.050 NTU
Chemical:	TURBIDITY (LAB)		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	02/07/1982	Findings:	378.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	02/07/1982	Findings:	.200
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	02/07/1982	Findings:	15.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/07/1982	Findings:	.006 UG/L
Chemical:	IODIDE		
Sample Collected:	02/07/1982	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	01/25/1984	Findings:	20.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	01/25/1984	Findings:	638.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	01/25/1984	Findings:	7.370
Chemical:	PH (LABORATORY)		
Sample Collected:	01/25/1984	Findings:	241.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	01/25/1984	Findings:	293.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	01/25/1984	Findings:	.500 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	01/25/1984	Findings:	.070 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	01/25/1984	Findings:	303.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	01/25/1984	Findings:	55.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	01/25/1984	Findings:	40.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	01/25/1984	Findings:	18.000 MG/L
Chemical:	SODIUM		
Sample Collected:	01/25/1984	Findings:	.450
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	01/25/1984	Findings:	1.000 MG/L
Chemical:	POTASSIUM		
Sample Collected:	01/25/1984	Findings:	33.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	01/25/1984	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	01/25/1984	Findings:	382.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	01/25/1984	Findings:	.040
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	01/25/1984	Findings:	12.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01/25/1984	Findings:	.007 UG/L
Chemical:	IODIDE		
Sample Collected:	01/25/1984	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08/18/1988	Findings:	174.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	08/18/1988	Findings:	.300 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	08/18/1988	Findings:	.100 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	08/18/1988	Findings:	298.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	08/18/1988	Findings:	55.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	08/18/1988	Findings:	39.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	08/18/1988	Findings:	15.000 MG/L
Chemical:	SODIUM		
Sample Collected:	08/18/1988	Findings:	.380
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	08/18/1988	Findings:	1.000 MG/L
Chemical:	POTASSIUM		
Sample Collected:	08/18/1988	Findings:	36.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	08/18/1988	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	08/18/1988	Findings:	260.000 UG/L
Chemical:	BARIUM		
Sample Collected:	08/18/1988	Findings:	370.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08/18/1988	Findings:	- .180
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	08/18/1988	Findings:	13.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/18/1988	Findings:	.005 UG/L
Chemical:	IODIDE		
Sample Collected:	08/18/1988	Findings:	.050 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	10/17/1991	Findings:	19.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	10/17/1991	Findings:	610.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/17/1991	Findings:	7.310
Chemical:	PH (LABORATORY)		
Sample Collected:	10/17/1991	Findings:	209.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/17/1991	Findings:	254.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/17/1991	Findings:	.400 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	10/17/1991	Findings:	.100 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	10/17/1991	Findings:	282.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		

Sample Collected:	12/13/1994	Findings:	54.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	12/13/1994	Findings:	44.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	12/13/1994	Findings:	19.000 MG/L
Chemical:	SODIUM		
Sample Collected:	12/13/1994	Findings:	.480
Chemical:	SODIUM ABSORPTION RATIO		
Sample Collected:	12/13/1994	Findings:	1.300 MG/L
Chemical:	POTASSIUM		
Sample Collected:	12/13/1994	Findings:	57.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	12/13/1994	Findings:	.110 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	12/13/1994	Findings:	28.000 MG/L
Chemical:	SILICA		
Sample Collected:	12/13/1994	Findings:	218.000 UG/L
Chemical:	BARIUM		
Sample Collected:	12/13/1994	Findings:	369.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	12/13/1994	Findings:	10.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/13/1994	Findings:	.100 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	10/05/1995	Findings:	12.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/23/1996	Findings:	9.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11/04/1997	Findings:	18.300 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	11/04/1997	Findings:	609.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	11/04/1997	Findings:	7.400
Chemical:	PH (LABORATORY)		
Sample Collected:	11/04/1997	Findings:	210.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	11/04/1997	Findings:	256.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	11/04/1997	Findings:	.400 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	11/04/1997	Findings:	.040 UG/L
Chemical:	PHOSPHATE		
Sample Collected:	11/04/1997	Findings:	306.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	11/04/1997	Findings:	53.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	11/04/1997	Findings:	42.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	11/04/1997	Findings:	16.000 MG/L
Chemical:	SODIUM		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

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.

SANTA CLARA COUNTY, CA

Number of sites tested: 70

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.363 pCi/L	91%	9%	0%
Living Area - 2nd Floor	2.100 pCi/L	100%	0%	0%
Basement	2.300 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

California Drinking Water Quality Database
Source: Department of Health Services
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.

California Oil and Gas Well Locations for District 2 and 6
Source: Department of Conservation
Telephone: 916-323-1779

RADON

Area Radon Information: 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.

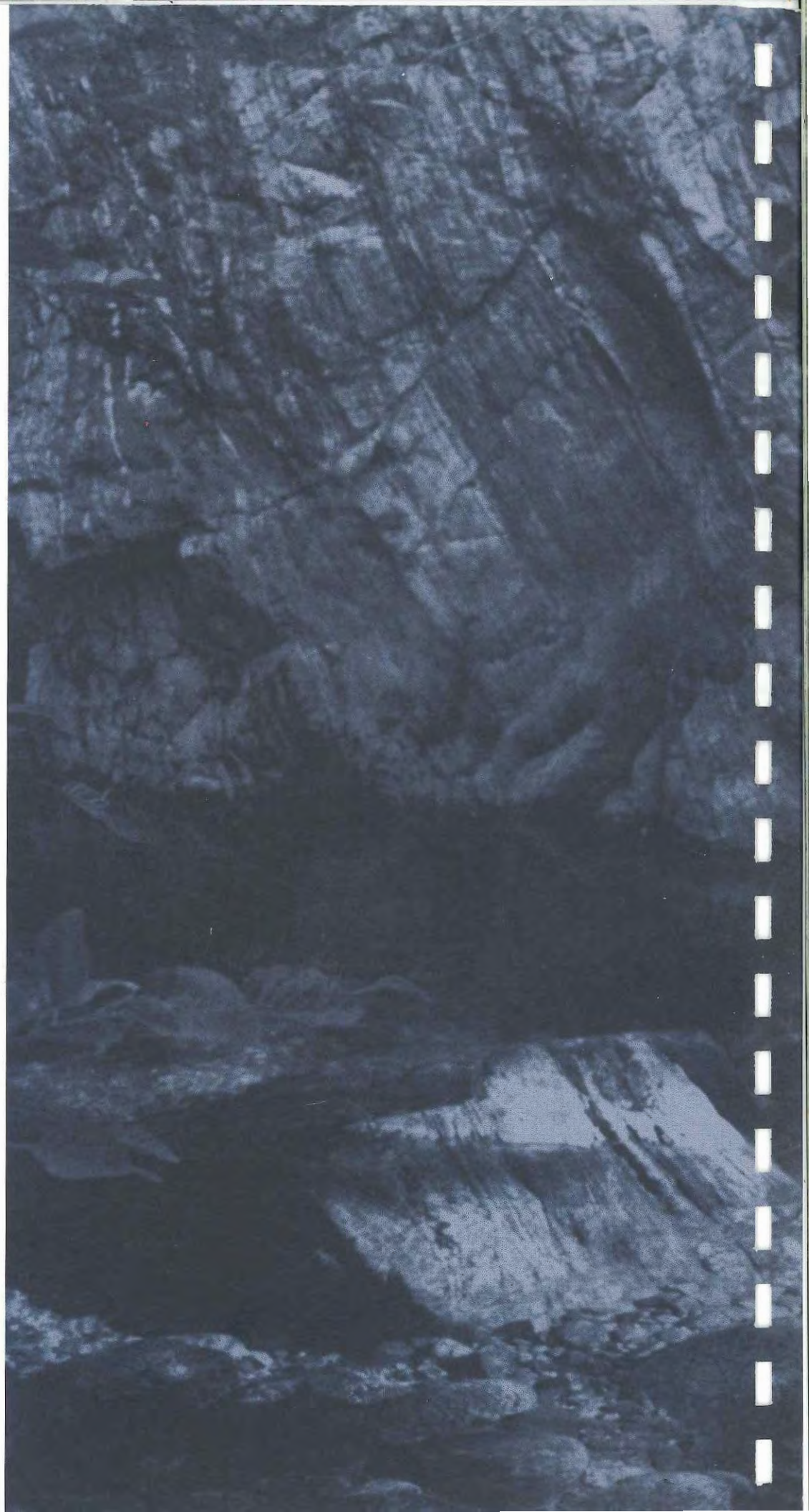
EPA Radon Zones: Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

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.

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services



LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

Soil and Ground Water Quality Evaluation

1193 Lick Avenue
San Jose, California

This report has been prepared for:

Castle Group California, Inc.
424 Kent Drive, Mountain View, California 94043

November 27, 2000
Project No. 113-11N

S. Jane Fisher
Staff Geologist

Robert M. Bacci, I.H.I.T., C.A.C.
Project Industrial Hygienist

Stason I. Foster, P.E.
Principal Environmental Engineer

REGISTERED PROFESSIONAL ENGINEER
STASON I. FOSTER
No. 051495
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CIVIL
STATE OF CALIFORNIA

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SOIL AND GROUND WATER QUALITY EVALUATION

1193 LICK AVENUE

SAN JOSE, CALIFORNIA

1.0 INTRODUCTION

1.1 Purpose

In this report, we present the results of the soil and ground water quality evaluation performed at 1193 Lick Avenue in San Jose, California (Figure 1). A geophysical survey was additionally completed over the vacant portion of the property to locate buried metallic objects. This work was performed for Castle Group California, Inc., who plans to purchase the site for future residential development.

1.2 Site Background

The approximately 11-acre site, owned by the Santa Clara Valley Transportation Authority (VTA), is located at 1193 Lick Avenue in San Jose, California and is denoted as assessor's parcel number (APN) 434-13-032 (Figure 2). Approximately 7 acres of the northwestern portion of the Site is vacant. Two building structures, occupied by the Tamien Childcare Facility and Provider-Training, Resource, and Activity Center (PTRAC), and a parking lot are located on the southeastern portion of the Site.

According to historic topographic maps, the site has been developed with two structures present since 1899. The use of these structures prior to 1915 is unknown; however, the site was occupied by the San Jose Cannery Company from 1915 until the mid-1960s, when the site was purchased by the California Canners and Growers. The site was used for a cannery operation until 1984, at which time the site was leased to multiple tenants for uses including mechanical repair, painting, and storage of automobiles and trucks; wood working and machine shops; forklift repair; piano repair; anodizing; used tire storage; and general yard and warehouse storage. When the current site owner, VTA, purchased the property in 1988-1989, most of the tenants vacated the property without removing hazardous materials. According to VTA, cleanup of the site was initiated in 1989 to remove and dispose hazardous materials prior to demolition of existing structures.

TERRATECH, Inc. issued a report to Santa Clara County Transit District in May 1987 for the Alma Terminal Contamination Investigation, focusing on the investigation conducted at 1193 Lick Avenue. The locations of site features at the time of their investigation are shown on Figure 3. At the time of the investigation, the Santa Clara County Transit District was considering the purchase and development of the site into a multi-modal transit facility. The report provided information on the site history, soil and ground water quality, the existence of hazardous materials, and a cost estimate for cleanup.

Three sumps and two USTs (identified by TERRATECH) were removed from the site during VTA demolition activities in 1989-1990. Approximately 200 cubic yards of impacted soil from the area surrounding the 500-gallon and 18,000-gallon USTs were excavated and aerated on-site. Several ground water monitoring wells also were installed and periodically sampled over a period of several years. After completion of this remediation and site characterization work, a no further action/case closure letter was issued by the SCVWD on September 14, 1997 for the USTs and sumps.

Lowney Associates conducted a Phase I Environmental Site Assessment for the Site in October 2000. Our investigation revealed that various remedial activities for the site were recommended by TERRATECH. Reports, however, indicating that the recommendations for site cleanup were successfully achieved were not available for our review. Since no post-cleanup sampling data could be obtained, we recommended that soil and ground water samples be collected to evaluate the effectiveness of the reported cleanup activities and to evaluate other areas of potential concern. A geophysical survey of the site was recommended to evaluate the presence of buried objects originating from historic uses.

1.3 Scope of Work

The scope of work for this study was outlined in our agreement dated October 19, 2000 and included the following tasks.

- Collect nine near surface soil samples for laboratory analysis, at approximate depths of ½ to 1 foot, from the former location of the railroad tracks, the former anodizing area, and areas of soil observed to contain building debris.
- Drill two exploratory borings to depths of 5 feet near the former incinerator area.
- Drill two exploratory borings to depths of 25 feet for the collection of ground water samples for laboratory analysis from down-gradient portions of the site.
- Evaluate the presence of underground metallic objects using geophysical techniques.

2.0 SOIL AND GROUND WATER QUALITY EVALUATION

2.1 Subsurface Investigation

On November 3, 2000, Jane Fisher, Staff Geologist, directed a subsurface exploration program and logged two borings (EB-1 and EB-2), to approximate depths of 5 feet, in the former incinerator area (Figure 2). Each boring was continuously sampled using a hydraulic geo-probe type drill rig. The soil samples were observed for evidence of burnt material or waste. A dark brown silty sand with clay fill was encountered to a depth of 5 feet. No burnt material or waste was observed in the fill; therefore, no samples were submitted for analysis.

Nine near surface soil samples were collected from a depth of approximately ½ to 1 foot using handheld sampling methods. Three soil samples were collected from each of the following locations:

- Former anodizing area
- Former railroad track area
- Areas of soil containing building debris (based on visual observations)

The near surface soil (ground surface to 1 foot below grade) at the site consisted of a dark brown sandy clay fill. Concrete debris was encountered in the fill at the ground surface. Soil sampling protocol is presented in Appendix A.

Two exploratory borings (EB-3 and EB-4) were drilled in down-gradient areas of the site to a depth of 25 feet for the collection of ground water samples. EB-3 was located in the northwest vacant portion of the property, approximately 80 feet from the property boundary (Figure 2). EB-4 was located in the southwestern portion of the property in the Tamien Station handicap parking area (Figure 2). Ground water was encountered within a black high plasticity clay at an approximate depth of 20 feet. Due to the low hydraulic conductivity of the clay and the clogging of the screen by the clay, a limited volume of ground water was collected from EB-3 and no ground water could be collected from EB-4.

2.2 Soil Sample Collection and Analyses

The near surface soil samples collected from the former railroad track area were analyzed for 17 California Assessment Manual (CAM) metals; pesticides and polychlorinated biphenyls (PCBs) (EPA Test Method 8080); and total recoverable petroleum hydrocarbons (TRPH) (Standard Test Method 418.1). The three near surface soil samples collected from the former anodizing area were analyzed for pH and 17 CAM metals. Near surface soil samples collected from areas of soil containing building debris were analyzed for lead and asbestos. Soil samples collected from the former incinerator area were not submitted for analyses due to the absence of burnt material or waste.

A summary of the analytical results is presented in Table 1. The analytical results for all 17 CAM metals were not included in Table 1 because the concentrations detected for most metals were typical of natural background concentrations for soils or were not detected. Copies of the analytical reports and chain of custody documentation are presented in Appendix B.

Table 1. Selected Analytical Results of Soil Samples
(concentrations in parts per million)

Boring Number	Location	Depth (feet)	TRPH	Lead	Mercury	Thallium	Nickel	Pesticides	PCBs	pH
EB-5[a]	Debris area	½	NA	75	NA	NA	NA	NA	NA	NA
EB-6	Railroad tracks	½	14	15	0.95	20	150	ND	ND	NA
EB-7	Railroad tracks	½	< 5.0	6.8	0.87	16	200	ND	ND	NA
EB-8	Railroad tracks	½	290	11	2.3	11	160	ND	ND	NA
EB-9	Anodizing area	½	NA	5.1	0.60	11	200	NA	NA	7.7
EB-10	Anodizing area	½	NA	17	2.3	14	200	NA	NA	7.3
EB-11	Anodizing area	½	NA	8.9	2.3	8.2	210	NA	NA	7.3
EB-12[a]	Debris area	½	NA	8.0	NA	NA	NA	NA	NA	NA
EB-13[a]	Debris area	½	NA	120	NA	NA	NA	NA	NA	NA
Residential PRG*			NE	400	23	6.3	150	Various	210	NE
Industrial PRG*			NE	1,000	610	160	41,000	Various	210	NE

< Indicates that the compound was not detected at or above the stated laboratory reporting limit
* Preliminary Remediation Goal–EPA Region 9, 1999
NE Not established
NA Not analyzed
ND Not detected (detection limits vary)
a Also analyzed for asbestos - None was detected

The preliminary remediation goals (PRGs) presented in Table 1 are risk-based concentrations developed by EPA Region 9. PRGs are for use as screening levels in determining if further evaluation is warranted, in prioritizing areas of concern, in establishing initial cleanup goals, and in estimation of potential health risks.

The PRGs are chemical concentrations that correspond to fixed levels of risk (either a cancer risk of one in one million [10^{-6}] or a non-carcinogenic hazard quotient of one, whichever occurs at a lower concentration). These levels are based on common exposure pathways. Chemical concentrations above the PRGs would not automatically designate the site as a health threat or trigger a response action.

2.3 Ground Water Sample Collection and Analyses

To evaluate ground water quality at the site, a ground water grab sample was collected from EB-3. A discussion of sampling protocol is included in Appendix A.

The ground water sample was analyzed for total petroleum hydrocarbons as gasoline (TPHg); benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl-tert-butyl ether (MTBE) (EPA Test Method 8015/8020); and halogenated volatile organic compounds (VOCs) (EPA Test Method 8260). These analyses were selected to help evaluate potential impacts to ground water by past site uses. Due to the low hydraulic conductivity of the unconfined aquifer, an insufficient amount of ground water was available for the proposed total petroleum hydrocarbons as diesel analysis.

Table 2. Analytical Results of Ground Water Sample
(concentrations in parts per billion)

Boring	Date	TPHg	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	VOCs
EB-3	11-3-00	< 50.0	< 0.500	< 0.500	< 0.500	< 0.500	< 5.00	ND
MCL*		NE	1.0	150	700	1,750	13	

< Indicates that the compound was not detected at or above the stated laboratory reporting limit
* Drinking water Maximum Contaminant Levels–California DHS, May 23, 2000
NE Not established
ND Not detected (detection limits vary)

4.0 GEOPHYSICAL SURVEY

To evaluate whether underground storage tanks (USTs) or other subsurface metallic structures may be present in the vacant portion of the site, registered geophysicist Jim Rezowalli used a magnetometer to map the vertical magnetic gradient over the approximately 7-acre portion of the site.

The magnetic gradient varies throughout the site indicating areas of subsurface ferrous metal. Metal objects will produce magnetic anomalies with characteristic shapes and magnitudes if not masked by overlying or nearby metallic debris. Magnetic data were collected on stations at 10-foot intervals along traverse lines spaced 10 feet apart. The data were downloaded to a computer and contoured (Figure 4). A copy of the geophysical report is located in Appendix C. Several magnetic anomalies were located by the survey. The locations of each anomaly are shown on Figure 4.

Test pits were excavated on-site for the identification of buried metallic source material creating the observed magnetic anomalies. The test pit locations and material encountered during excavation are described on Figure 4. The majority of magnetic anomalies appeared to have been generated by the presence of buried steel piping. The largest magnetic anomaly, located in the southwest portion of the vacant lot, was generated by the presence of a 10-ft section of railroad tracks buried approximately 4 feet below grade. No USTs or other items of environmental concern were identified in any of the test pits.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Soil Quality – Petroleum Hydrocarbons, Pesticides and PCBs

The analysis of soil samples collected in the area of the former railroad tracks (EB-6, 7, and 8) detected low levels of oil range petroleum hydrocarbons (up to 290 ppm). High molecular weight petroleum hydrocarbons, such as oil, typically exhibit characteristics of low toxicity and low mobility in the environment. Thus, the residual petroleum hydrocarbons detected do not appear to pose a significant

threat to human health or the environment. We would expect the remaining hydrocarbons levels to degrade naturally over time.

Pesticides and PCBs were not detected in soil samples collected from the railroad track area.

5.2 Soil Quality – Metals

Metals analyses were performed on soil samples collected from the former railroad track and anodizing areas. Analyses for lead also were conducted on the samples collected from the building debris area.

Most of the metal concentrations detected appear typical of naturally occurring background levels. However, lead, mercury, thallium, and nickel levels appear slightly higher than typical (average) background concentrations.

For lead, only two of the nine samples exceeded the average background level for lead of 24 ppm (Bradford et al. 1996). These two samples were from debris areas and may be related to the presence of lead-based paint on the former buildings. None of the lead concentrations exceed the residential PRG of 400 ppm; thus, the detected lead levels do not appear to pose a significant threat to human health or the environment.

Background levels for mercury and thallium in soil are typically less than 1 ppm and for nickel, less than about 75 ppm. Mercury levels detected at the site (average of 1.6 ppm) do appear higher than typical, but are well below the residential PRG of 23 ppm.

Thallium and nickel levels also appear higher than typical background concentrations. However, the levels detected in each sample, even those from different areas of the site, are relatively consistent. Based on the consistent concentrations and lack of a suspected source, the levels may be naturally occurring. Dragun (1988) reports typical ranges for thallium of 0.1 to 12 ppm and for nickel of 5 to 1,000 ppm. The levels detected on-site are similar to these reported ranges.

In some cases, the predictive risk-based models used to develop the PRGs generate levels that lie below typical background concentrations. If natural background concentrations are higher than the risk-based PRGs, an adjustment of the PRG is probably needed. In addition, the PRGs are conservatively based on a cancer risk level of one-in-one-million. The EPA considers a cancer risk range of 10E-4 (one-in-ten-thousand) to 10E-6 (one-in-one-million) to be acceptable. Although the thallium and nickel levels detected slightly exceed the PRGs, they do not appear to pose a significant threat to human health or the environment.

5.3 Ground Water Quality

To evaluate ground water quality at the site, a ground water grab sample was collected from EB-3. Petroleum hydrocarbons, BTEX, and VOCs were not detected in the ground water sample collected. Based on these results, ground water at the site does not appear to be significantly impacted.

5.4 Buried Debris

The concrete and metallic debris observed on the vacant portion of the site did not appear likely to significantly impact underlying soil quality. The debris was encountered from the surface to an approximate depth of 4 feet below grade. For geotechnical purposes, the buried debris will likely need to be removed from the site prior to development. Based on the site history, other areas of buried debris (such as concrete and other non-metallic items) may be present on-site and may be encountered during grading activities.

5.5 General Conclusions

We understand that Castle Group California, Inc. is considering purchasing the property for town-home type residential development. Based on the information obtained during this study, the planned use appears compatible with the known on-site environmental conditions. No further environmental work appears required at this time.

6.0 LIMITATIONS

This report was prepared for the use of Castle Group California, Inc. in evaluating soil and ground water quality at 1193 Lick Avenue at the time of this study. We make no warranty, expressed or implied, except that our services have been performed in accordance with environmental principles generally accepted at this time and location. The chemical and other data presented in this report can change over time and are applicable only to the time this study was performed. We are not responsible for the data presented by others.

The accuracy and reliability of geo- or hydrochemical studies are a reflection of the number and type of samples taken and extent of the analyses conducted, and are thus inherently limited and dependent upon the resources expended. Chemical analyses were performed for specific parameters during this investigation, as detailed in the scope of services. Please note that additional constituents not analyzed for during this evaluation may be present in soil and ground water at the site. Our sampling and analytical plan was designed using accepted environmental principles and our judgment for the performance of a soil and ground water quality evaluation and was based on the degree of investigation approved by you. It is possible to obtain a greater degree of certainty, if desired, by implementing a more rigorous soil and ground water sampling program or evaluating the risk posed by the contaminants detected, if any.

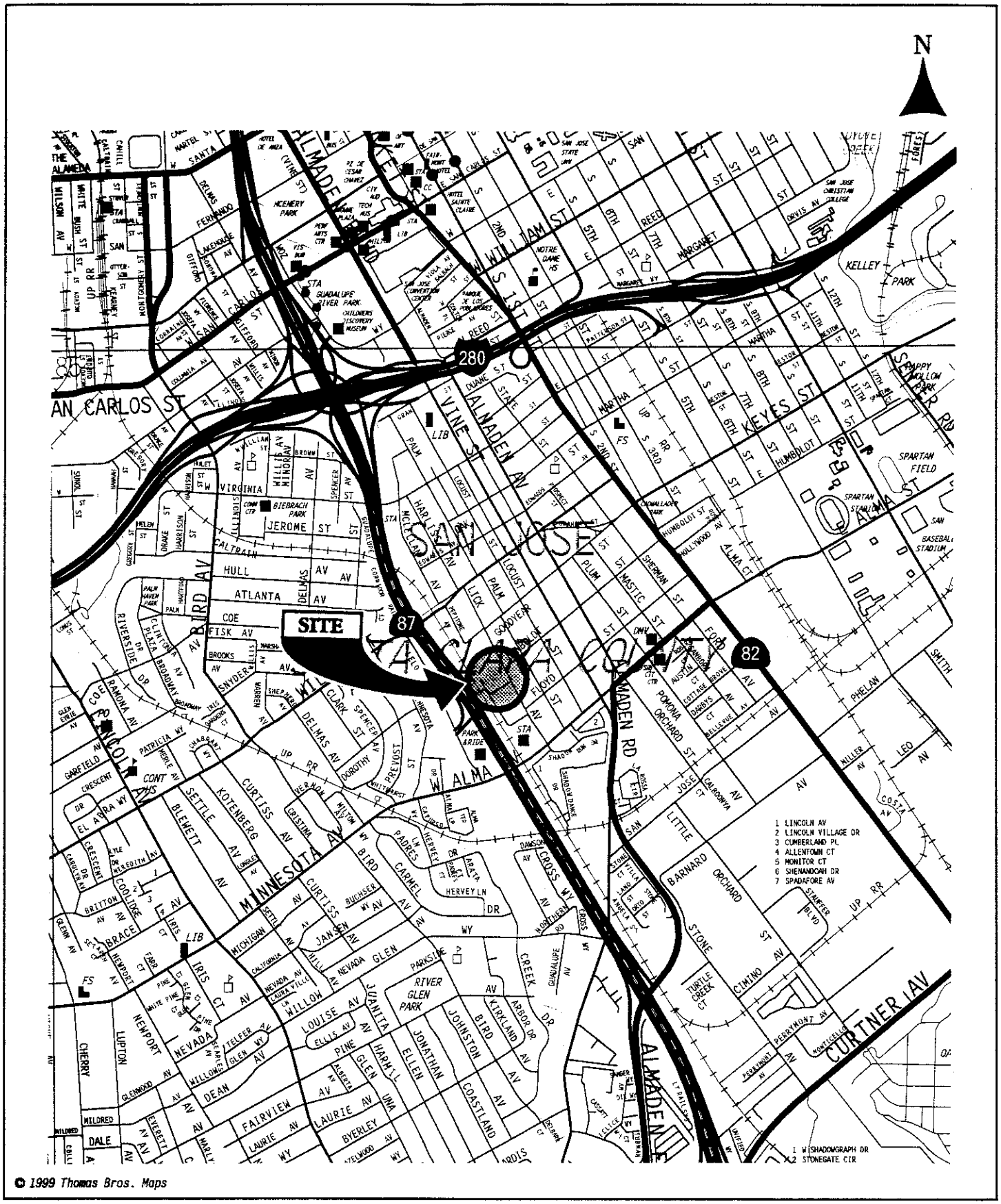
Magnetic methods locate ferrous objects from the anomalies they produce in the earth's magnetic field. Some ferrous objects may not produce an anomaly. Some possible reasons are that the object is buried too deep, the object is too small, the object is buried under or near another ferrous object, or an object is buried near a utility. The anomalies from metal on the ground surface can mask the anomalies from objects buried below them. Surface construction debris was present on different parts of the site. It is possible buried objects were not detected due to interference from metal objects on the surface.

7.0 REFERENCES

Bradford, G.R., Chang, A.C., Page, A.L., Bakhtar, D., Frampton, J.A., and Wright, H. 1996. Background Concentrations of Trace and Major Elements in California Soils.

Dragun, James, Ph.D. 1988. *The Soil Chemistry of Hazardous Materials.*

* * * * * * * * * * * * * *



11/00PEB

VICINITY MAP

1193 LICK AVENUE SOIL AND GROUND WATER EVALUATION

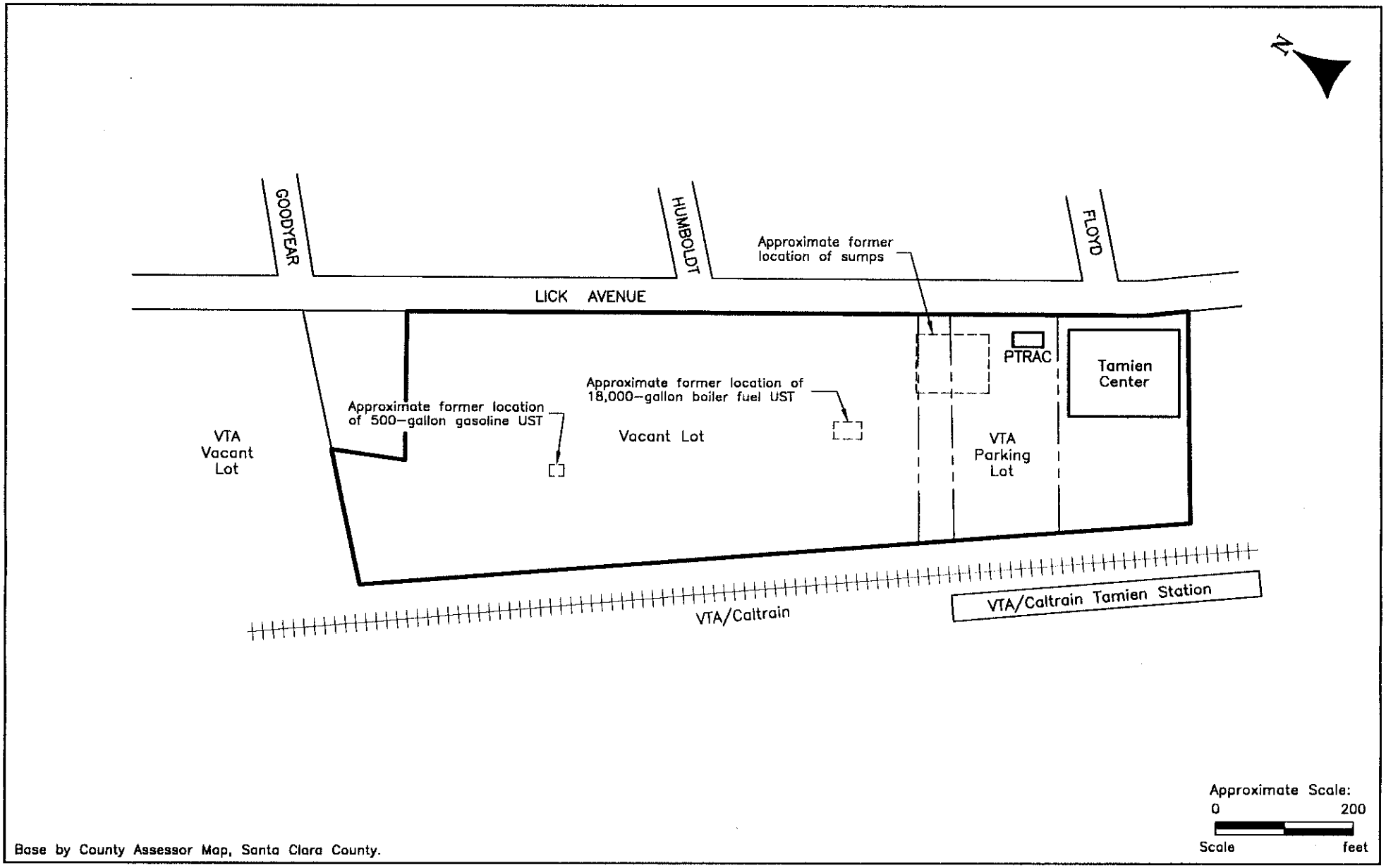
San Jose, California

LOVNEY ASSOCIATES

Environmental/Geotechnical/Engineering Services

FIGURE 1

113-11N



11/00*EB

SITE PLAN

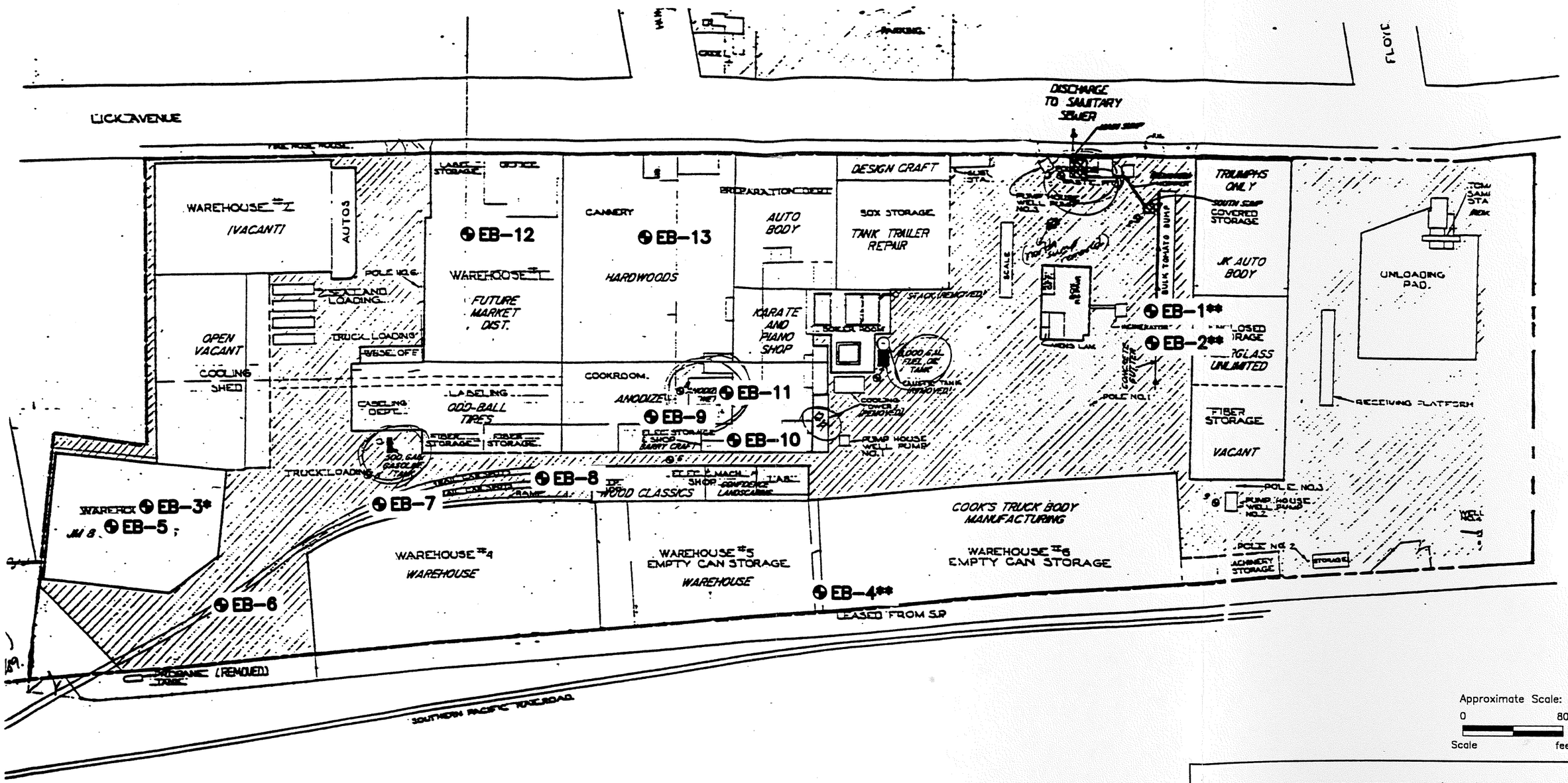
1193 LICK AVENUE SOIL AND GROUND WATER EVALUATION

San Jose, California

LOVNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 2

113-11N



LEGEND

⊕ – Approximate location of exploratory boring

*Ground water sample location

**No samples taken

Base by Terratech, dated 5/8/87.

HISTORIC SITE PLAN (1987)

1193 LICK AVENUE SOIL AND GROUND WATER EVALUATION
San Jose, California

LOVNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 3

113–11N

9/00*EB

APPENDIX A

SUBSURFACE INVESTIGATION AND SAMPLING PROTOCOL

The initial subsurface investigation was performed on November 3, 2000 using a geo-probe type drill rig for the deeper exploratory borings. A handheld hammer-driven tube sampler was used to collect the shallow soil samples. Soil samples for laboratory analysis were collected in brass liners. The ends of the liners were covered in Teflon film, fitted with plastic end caps, taped, and labeled with a unique identification number. The samples were then placed in an ice- chilled cooler, and transported to a state-certified analytical laboratory with chain of custody documentation. Ground water samples were collected in appropriate sample bottles, labeled, and immediately placed into an ice-chilled chest for delivery to a state-certified analytical laboratory for analysis.

A backhoe was used to excavate test pits during the magnetic anomaly source identification, performed on November 17, 2000.

APPENDIX B

ANALYTICAL RESULTS

The chilled samples were delivered to a state-certified analytical laboratory. Chain of custody documentation was maintained for all samples. Attached are copies of the analytical results and the chain of custody forms.

Sequoia
Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612
www.sequoialabs.com

November 15, 2000

Robert Bacci
Lowney Associates
405 Clyde Ave.
Mountain View, CA 94043

RE: 1193 Lick Avenue
Sequoia Analytical #L011051

Dear Mr. Robert Bacci:

Enclosed you will find results for your samples received by the laboratory on November 3, 2000. The asbestos test your requested was subcontracted to and analyzed by R.J. Lee Group, Inc. located in San Leandro, California.

The sample summary is as follows:

Lowney Sample ID	Sequoia Analytical #	RJ Lee Group #
EB-12	L011051-01	1724938CPL
EB-13	L011051-06	1724939CPL
EB-5	L011051-08	1724940CPL

If you have any questions, comments or concerns, please do not hesitate to contact me either by e-mail at lpelt@sequoialabs.com or by phone at (650) 232-9600.

I look forward to building and maintaining a growing working relationship with you.

Sincerely,

Latonya K. Pelt

Latonya K. Pelt
Project Manager

NOV 2 7 2000

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612
www.sequoialabs.com

Lowney Associates	Project:	1193 Lick Ave.	Sampled:	11/3/00
405 Clyde Ave	Project Number:	113-11N	Received:	11/3/00
Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

ANALYTICAL REPORT FOR L011051

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
EB-12	L011051-01	Soil	11/3/00
EB-11	L011051-02	Soil	11/3/00
EB-10	L011051-03	Soil	11/3/00
EB-8	L011051-04	Soil	11/3/00
EB-9	L011051-05	Soil	11/3/00
EB-13	L011051-06	Soil	11/3/00
EB-7	L011051-07	Soil	11/3/00
EB-5	L011051-08	Soil	11/3/00
EB-6	L011051-09	Soil	11/3/00
EB-3	L011051-10	Water	11/3/00

The results in this report apply to the samples analyzed in accordance with the chain of custody document.
This analytical report must be reproduced in its entirety.

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612
www.sequoialabs.com

Lowney Associates	Project:	1193 Lick Ave.	Sampled:	11/3/00
405 Clyde Ave	Project Number:	113-11N	Received:	11/3/00
Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - San Carlos

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
EB-3			**L011051-10**				**Water**	
Purgeable Hydrocarbons as Gasoline	0110041	11/8/00	11/8/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	*"*	*"*	*"*	*70.0-130*		*89.5*	*%*	

**Refer to end of report for text of notes and definitions.*

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
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www.sequoialabs.com

Lowney Associates	Project:	1193 Lick Ave.	Sampled:	11/3/00
405 Clyde Ave	Project Number:	113-11N	Received:	11/3/00
Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - San Carlos

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
EB-3			**L011051-10**				**Water**	
Benzene	0110026	11/6/00	11/6/00		2.00	ND	ug/l	
Bromobenzene	"	"	"		2.00	ND	"	
Bromochloromethane	"	"	"		2.00	ND	"	
Bromodichloromethane	"	"	"		2.00	ND	"	
Bromoform	"	"	"		2.00	ND	"	
Bromomethane	"	"	"		5.00	ND	"	
n-Butylbenzene	"	"	"		2.00	ND	"	
sec-Butylbenzene	"	"	"		2.00	ND	"	
tert-Butylbenzene	"	"	"		2.00	ND	"	
Carbon tetrachloride	"	"	"		2.00	ND	"	
Chlorobenzene	"	"	"		2.00	ND	"	
Chloroethane	"	"	"		5.00	ND	"	
Chloroform	"	"	"		2.00	ND	"	
Chloromethane	"	"	"		5.00	ND	"	
2-Chlorotoluene	"	"	"		2.00	ND	"	
4-Chlorotoluene	"	"	"		2.00	ND	"	
Dibromochloromethane	"	"	"		2.00	ND	"	
1,2-Dibromoethane	"	"	"		2.00	ND	"	
Dibromomethane	"	"	"		2.00	ND	"	
1,2-Dibromo-3-chloropropane	"	"	"		5.00	ND	"	
1,2-Dichlorobenzene	"	"	"		2.00	ND	"	
1,3-Dichlorobenzene	"	"	"		2.00	ND	"	
1,4-Dichlorobenzene	"	"	"		2.00	ND	"	
Dichlorodifluoromethane	"	"	"		5.00	ND	"	
1,1-Dichloroethane	"	"	"		2.00	ND	"	
1,2-Dichloroethane	"	"	"		2.00	ND	"	
1,1-Dichloroethene	"	"	"		2.00	ND	"	
cis-1,2-Dichloroethene	"	"	"		2.00	ND	"	
trans-1,2-Dichloroethene	"	"	"		2.00	ND	"	
1,2-Dichloropropane	"	"	"		2.00	ND	"	
1,3-Dichloropropane	"	"	"		2.00	ND	"	
2,2-Dichloropropane	"	"	"		2.00	ND	"	
1,1-Dichloropropene	"	"	"		2.00	ND	"	
Ethylbenzene	"	"	"		2.00	ND	"	
Hexachlorobutadiene	"	"	"		2.00	ND	"	
Isopropylbenzene	"	"	"		2.00	ND	"	
p-Isopropyltoluene	"	"	"		2.00	ND	"	
Methylene chloride	"	"	"		5.00	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
n-Propylbenzene	"	"	"		2.00	ND	"	
Styrene	"	"	"		2.00	ND	"	

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405 Clyde Ave	Project Number:	113-11N	Received:	11/3/00
Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - San Carlos

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
EB-3 (continued)			**L011051-10**				**Water**	
1,1,1,2-Tetrachloroethane	0110026	11/6/00	11/6/00		2.00	ND	ug/l	
1,1,2,2-Tetrachloroethane	"	"	"		2.00	ND	"	
Tetrachloroethene	"	"	"		2.00	ND	"	
Toluene	"	"	"		2.00	ND	"	
1,2,3-Trichlorobenzene	"	"	"		2.00	ND	"	
1,2,4-Trichlorobenzene	"	"	"		2.00	ND	"	
1,1,1-Trichloroethane	"	"	"		2.00	ND	"	
1,1,2-Trichloroethane	"	"	"		2.00	ND	"	
Trichloroethene	"	"	"		2.00	ND	"	
Trichlorofluoromethane	"	"	"		5.00	ND	"	
1,2,3-Trichloropropane	"	"	"		2.00	ND	"	
1,2,4-Trimethylbenzene	"	"	"		2.00	ND	"	
1,3,5-Trimethylbenzene	"	"	"		2.00	ND	"	
Vinyl chloride	"	"	"		2.00	ND	"	
Total Xylenes	"	"	"		2.00	ND	"	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*95.6*	*%*	
Surrogate: Toluene-d8	"	"	"	*88.0-110*		*102*	"	
Surrogate: 4-BFB	"	"	"	*86.0-115*		*95.8*	"	

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Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Walnut Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
EB-12			**L011051-01**				**Soil**	
Lead	0K07004	11/7/00	11/11/00	EPA 6010A	1.0	**8.0**	mg/kg	
EB-11			**L011051-02**				**Soil**	
Antimony	0K07004	11/7/00	11/11/00	EPA 6010A	5.0	ND	mg/kg	
Arsenic	"	"	"	EPA 6010A	5.0	ND	"	
Barium	"	"	"	EPA 6010A	0.50	**210**	"	
Beryllium	"	"	"	EPA 6010A	0.50	ND	"	
Cadmium	"	"	"	EPA 6010A	0.50	ND	"	
Chromium	"	"	"	EPA 6010A	0.50	**130**	"	
Cobalt	"	"	"	EPA 6010A	0.50	**26**	"	
Copper	"	"	"	EPA 6010A	0.50	**49**	"	
Lead	"	"	"	EPA 6010A	1.0	**8.9**	"	
Molybdenum	"	"	"	EPA 6010A	0.50	ND	"	
Nickel	"	"	"	EPA 6010A	1.0	**210**	"	
Selenium	"	"	11/14/00	EPA 6010A	5.0	ND	"	
Silver	"	"	"	EPA 6010A	0.50	**3.2**	"	
Thallium	"	"	11/11/00	EPA 6010A	5.0	**8.2**	"	
Vanadium	"	"	"	EPA 6010A	0.50	**78**	"	
Zinc	"	"	"	EPA 6010A	1.0	**79**	"	
Mercury	0K07005	"	11/7/00	EPA 7471A	0.20	**2.3**	"	
EB-10			**L011051-03**				**Soil**	
Antimony	0K07004	11/7/00	11/11/00	EPA 6010A	5.0	ND	mg/kg	
Arsenic	"	"	"	EPA 6010A	5.0	**5.4**	"	
Barium	"	"	"	EPA 6010A	0.50	**180**	"	
Beryllium	"	"	"	EPA 6010A	0.50	ND	"	
Cadmium	"	"	"	EPA 6010A	0.50	ND	"	
Chromium	"	"	"	EPA 6010A	0.50	**120**	"	
Cobalt	"	"	"	EPA 6010A	0.50	**22**	"	
Copper	"	"	"	EPA 6010A	0.50	**72**	"	
Lead	"	"	"	EPA 6010A	1.0	**17**	"	
Molybdenum	"	"	"	EPA 6010A	0.50	ND	"	
Nickel	"	"	"	EPA 6010A	1.0	**200**	"	
Selenium	"	"	11/14/00	EPA 6010A	5.0	ND	"	
Silver	"	"	"	EPA 6010A	0.50	**3.7**	"	
Thallium	"	"	11/11/00	EPA 6010A	5.0	**14**	"	
Vanadium	"	"	"	EPA 6010A	0.50	**68**	"	
Zinc	"	"	"	EPA 6010A	1.0	**84**	"	
Mercury	0K07005	"	11/7/00	EPA 7471A	0.20	**2.3**	"	

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405 Clyde Ave	Project Number:	113-11N	Received:	11/3/00
Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Walnut Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
EB-8			**L011051-04**				**Soil**	
Antimony	0K07004	11/7/00	11/11/00	EPA 6010A	5.0	ND	mg/kg	
Arsenic	"	"	"	EPA 6010A	5.0	ND	"	
Barium	"	"	"	EPA 6010A	0.50	**160**	"	
Beryllium	"	"	"	EPA 6010A	0.50	ND	"	
Cadmium	"	"	"	EPA 6010A	0.50	ND	"	
Chromium	"	"	"	EPA 6010A	0.50	**120**	"	
Cobalt	"	"	"	EPA 6010A	0.50	**21**	"	
Copper	"	"	"	EPA 6010A	0.50	**44**	"	
Lead	"	"	"	EPA 6010A	1.0	**11**	"	
Molybdenum	"	"	"	EPA 6010A	0.50	ND	"	
Nickel	"	"	"	EPA 6010A	1.0	**160**	"	
Selenium	"	"	11/14/00	EPA 6010A	5.0	ND	"	
Silver	"	"	"	EPA 6010A	0.50	ND	"	
Thallium	"	"	11/11/00	EPA 6010A	5.0	**11**	"	
Vanadium	"	"	"	EPA 6010A	0.50	**66**	"	
Zinc	"	"	"	EPA 6010A	1.0	**71**	"	
Mercury	0K07005	"	11/7/00	EPA 7471A	0.20	**2.3**	"	
EB-9			**L011051-05**				**Soil**	
Antimony	0K07004	11/7/00	11/11/00	EPA 6010A	5.0	ND	mg/kg	
Arsenic	"	"	"	EPA 6010A	5.0	ND	"	
Barium	"	"	"	EPA 6010A	0.50	**170**	"	
Beryllium	"	"	"	EPA 6010A	0.50	**0.51**	"	
Cadmium	"	"	"	EPA 6010A	0.50	ND	"	
Chromium	"	"	"	EPA 6010A	0.50	**140**	"	
Cobalt	"	"	"	EPA 6010A	0.50	**26**	"	
Copper	"	"	"	EPA 6010A	0.50	**48**	"	
Lead	"	"	"	EPA 6010A	1.0	**5.1**	"	
Molybdenum	"	"	"	EPA 6010A	0.50	ND	"	
Nickel	"	"	"	EPA 6010A	1.0	**200**	"	
Selenium	"	"	11/14/00	EPA 6010A	5.0	ND	"	
Silver	"	"	"	EPA 6010A	0.50	ND	"	
Thallium	"	"	11/11/00	EPA 6010A	5.0	**11**	"	
Vanadium	"	"	"	EPA 6010A	0.50	**85**	"	
Zinc	"	"	"	EPA 6010A	1.0	**73**	"	
Mercury	0K07005	"	11/7/00	EPA 7471A	0.040	**0.60**	"	
EB-13			**L011051-06**				**Soil**	
Lead	0K07004	11/7/00	11/11/00	EPA 6010A	1.0	**120**	mg/kg	

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Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Walnut Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
EB-7			**L011051-07**				**Soil**	
Antimony	0K07004	11/7/00	11/11/00	EPA 6010A	5.0	ND	mg/kg	
Arsenic	"	"	"	EPA 6010A	5.0	**6.2**	"	
Barium	"	"	"	EPA 6010A	0.50	**190**	"	
Beryllium	"	"	"	EPA 6010A	0.50	**0.55**	"	
Cadmium	"	"	"	EPA 6010A	0.50	ND	"	
Chromium	"	"	"	EPA 6010A	0.50	**140**	"	
Cobalt	"	"	"	EPA 6010A	0.50	**26**	"	
Copper	"	"	"	EPA 6010A	0.50	**51**	"	
Lead	"	"	"	EPA 6010A	1.0	**6.8**	"	
Molybdenum	"	"	"	EPA 6010A	0.50	ND	"	
Nickel	"	"	"	EPA 6010A	1.0	**200**	"	
Selenium	"	"	11/14/00	EPA 6010A	5.0	ND	"	
Silver	"	"	"	EPA 6010A	0.50	**2.7**	"	
Thallium	"	"	11/11/00	EPA 6010A	5.0	**16**	"	
Vanadium	"	"	"	EPA 6010A	0.50	**84**	"	
Zinc	"	"	"	EPA 6010A	1.0	**70**	"	
Mercury	0K07005	"	11/7/00	EPA 7471A	0.050	**0.87**	"	
EB-5			**L011051-08**				**Soil**	
Lead	0K07004	11/7/00	11/11/00	EPA 6010A	1.0	**75**	mg/kg	
EB-6			**L011051-09**				**Soil**	
Antimony	0K07004	11/7/00	11/11/00	EPA 6010A	5.0	ND	mg/kg	
Arsenic	"	"	"	EPA 6010A	5.0	ND	"	
Barium	"	"	"	EPA 6010A	0.50	**150**	"	
Beryllium	"	"	"	EPA 6010A	0.50	ND	"	
Cadmium	"	"	"	EPA 6010A	0.50	ND	"	
Chromium	"	"	"	EPA 6010A	0.50	**98**	"	
Cobalt	"	"	"	EPA 6010A	0.50	**20**	"	
Copper	"	"	"	EPA 6010A	0.50	**55**	"	
Lead	"	"	"	EPA 6010A	1.0	**15**	"	
Molybdenum	"	"	"	EPA 6010A	0.50	ND	"	
Nickel	"	"	"	EPA 6010A	1.0	**150**	"	
Selenium	"	"	11/14/00	EPA 6010A	5.0	ND	"	
Silver	"	"	"	EPA 6010A	0.50	**3.8**	"	
Thallium	"	"	11/11/00	EPA 6010A	5.0	**20**	"	
Vanadium	"	"	"	EPA 6010A	0.50	**64**	"	
Zinc	"	"	"	EPA 6010A	1.0	**79**	"	
Mercury	0K07005	"	11/7/00	EPA 7471A	0.050	**0.95**	"	

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Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Walnut Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
EB-11			**L011051-02**				**Soil**	
pH	0K08009	11/8/00	11/8/00	EPA 9045B	0.10	**7.3**	pH Units	
EB-10			**L011051-03**				**Soil**	
pH	0K08009	11/8/00	11/8/00	EPA 9045B	0.10	**7.3**	pH Units	
EB-8			**L011051-04**				**Soil**	
TRPH	0K08012	11/8/00	11/8/00	EPA 418.1	5.0	**290**	mg/kg	
EB-9			**L011051-05**				**Soil**	
pH	0K08009	11/8/00	11/8/00	EPA 9045B	0.10	**7.7**	pH Units	
EB-7			**L011051-07**				**Soil**	
TRPH	0K08012	11/8/00	11/8/00	EPA 418.1	5.0	ND	mg/kg	
EB-6			**L011051-09**				**Soil**	
TRPH	0K08012	11/8/00	11/8/00	EPA 418.1	5.0	**14**	mg/kg	

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Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Organochlorine Pesticides by EPA Method 8081A
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
EB-8			**L011051-04**				**Soil**	**1**
Aldrin	0110183	11/7/00	11/14/00	EPA 8081A	8.50	ND	ug/kg	
alpha-BHC	"	"	"	EPA 8081A	16.5	ND	"	
beta-BHC	"	"	"	EPA 8081A	16.5	ND	"	
delta-BHC	"	"	"	EPA 8081A	16.5	ND	"	
gamma-BHC (Lindane)	"	"	"	EPA 8081A	8.50	ND	"	
Chlordane (tech)	"	"	"	EPA 8081A	165	ND	"	
4,4'-DDD	"	"	"	EPA 8081A	16.5	ND	"	
4,4'-DDE	"	"	"	EPA 8081A	16.5	ND	"	
4,4'-DDT	"	"	"	EPA 8081A	16.5	ND	"	
Dieldrin	"	"	"	EPA 8081A	16.5	ND	"	
Endosulfan I	"	"	"	EPA 8081A	8.50	ND	"	
Endosulfan II	"	"	"	EPA 8081A	16.5	ND	"	
Endosulfan sulfate	"	"	"	EPA 8081A	16.5	ND	"	
Endrin	"	"	"	EPA 8081A	8.50	ND	"	
Endrin aldehyde	"	"	"	EPA 8081A	33.0	ND	"	
Heptachlor	"	"	"	EPA 8081A	8.50	ND	"	
Heptachlor epoxide	"	"	"	EPA 8081A	8.50	ND	"	
Methoxychlor	"	"	"	EPA 8081A	33.0	ND	"	
Toxaphene	"	"	"	EPA 8081A	330	ND	"	
Surrogate: Tetrachloro-meta-xylene	"	"	"	*43.5-108*		*79.2*	*%*	
Surrogate: Decachlorobiphenyl	"	"	"	*45.5-115*		*83.7*	"	
EB-7			**L011051-07**				**Soil**	**1**
Aldrin	0110183	11/7/00	11/14/00	EPA 8081A	1.70	ND	ug/kg	
alpha-BHC	"	"	"	EPA 8081A	3.30	ND	"	
beta-BHC	"	"	"	EPA 8081A	3.30	ND	"	
delta-BHC	"	"	"	EPA 8081A	3.30	ND	"	
gamma-BHC (Lindane)	"	"	"	EPA 8081A	1.70	ND	"	
Chlordane (tech)	"	"	"	EPA 8081A	33.0	ND	"	
4,4'-DDD	"	"	"	EPA 8081A	3.30	ND	"	
4,4'-DDE	"	"	"	EPA 8081A	3.30	ND	"	
4,4'-DDT	"	"	"	EPA 8081A	3.30	ND	"	
Dieldrin	"	"	"	EPA 8081A	3.30	ND	"	
Endosulfan I	"	"	"	EPA 8081A	1.70	ND	"	
Endosulfan II	"	"	"	EPA 8081A	3.30	ND	"	
Endosulfan sulfate	"	"	"	EPA 8081A	3.30	ND	"	
Endrin	"	"	"	EPA 8081A	1.70	ND	"	
Endrin aldehyde	"	"	"	EPA 8081A	6.60	ND	"	
Heptachlor	"	"	"	EPA 8081A	1.70	ND	"	
Heptachlor epoxide	"	"	"	EPA 8081A	1.70	ND	"	
Methoxychlor	"	"	"	EPA 8081A	6.60	ND	"	

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Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Organochlorine Pesticides by EPA Method 8081A
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
EB-7 (continued)			**L011051-07**				**Soil**	**1**
Toxaphene	0110183	11/7/00	11/14/00	EPA 8081A	66.0	ND	ug/kg	
Surrogate: Tetrachloro-meta-xylene	"	"	"	*43.5-108*		*94.8*	*%*	
Surrogate: Decachlorobiphenyl	"	"	"	*45.5-115*		*91.9*	"	
EB-6			**L011051-09**				**Soil**	**1**
Aldrin	0110183	11/7/00	11/14/00	EPA 8081A	3.40	ND	ug/kg	
alpha-BHC	"	"	"	EPA 8081A	6.60	ND	"	
beta-BHC	"	"	"	EPA 8081A	6.60	ND	"	
delta-BHC	"	"	"	EPA 8081A	6.60	ND	"	
gamma-BHC (Lindane)	"	"	"	EPA 8081A	3.40	ND	"	
Chlordane (tech)	"	"	"	EPA 8081A	66.0	ND	"	
4,4'-DDD	"	"	"	EPA 8081A	6.60	ND	"	
4,4'-DDE	"	"	"	EPA 8081A	6.60	ND	"	
4,4'-DDT	"	"	"	EPA 8081A	6.60	ND	"	
Dieldrin	"	"	"	EPA 8081A	6.60	ND	"	
Endosulfan I	"	"	"	EPA 8081A	3.40	ND	"	
Endosulfan II	"	"	"	EPA 8081A	6.60	ND	"	
Endosulfan sulfate	"	"	"	EPA 8081A	6.60	ND	"	
Endrin	"	"	"	EPA 8081A	3.40	ND	"	
Endrin aldehyde	"	"	"	EPA 8081A	13.2	ND	"	
Heptachlor	"	"	"	EPA 8081A	3.40	ND	"	
Heptachlor epoxide	"	"	"	EPA 8081A	3.40	ND	"	
Methoxychlor	"	"	"	EPA 8081A	13.2	ND	"	
Toxaphene	"	"	"	EPA 8081A	132	ND	"	
Surrogate: Tetrachloro-meta-xylene	"	"	"	*43.5-108*		*82.9*	*%*	
Surrogate: Decachlorobiphenyl	"	"	"	*45.5-115*		*80.1*	"	

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Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Polychlorinated Biphenyls by EPA Method 8082
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
EB-8			**L011051-04**				**Soil**	**1,2**
PCB-1016	0110183	11/7/00	11/9/00	EPA 8082	33.0	ND	ug/kg	
PCB-1221	"	"	"	EPA 8082	33.0	ND	"	
PCB-1232	"	"	"	EPA 8082	33.0	ND	"	
PCB-1242	"	"	"	EPA 8082	33.0	ND	"	
PCB-1248	"	"	"	EPA 8082	33.0	ND	"	
PCB-1254	"	"	"	EPA 8082	33.0	ND	"	
PCB-1260	"	"	"	EPA 8082	33.0	ND	"	
Surrogate: Decachlorobiphenyl	"	"	"	*45.5-115*		*75.6*	*%*	
EB-7			**L011051-07**				**Soil**	**1,2**
PCB-1016	0110183	11/7/00	11/9/00	EPA 8082	33.0	ND	ug/kg	
PCB-1221	"	"	"	EPA 8082	33.0	ND	"	
PCB-1232	"	"	"	EPA 8082	33.0	ND	"	
PCB-1242	"	"	"	EPA 8082	33.0	ND	"	
PCB-1248	"	"	"	EPA 8082	33.0	ND	"	
PCB-1254	"	"	"	EPA 8082	33.0	ND	"	
PCB-1260	"	"	"	EPA 8082	33.0	ND	"	
Surrogate: Decachlorobiphenyl	"	"	"	*45.5-115*		*75.3*	*%*	
EB-6			**L011051-09**				**Soil**	**1,2**
PCB-1016	0110183	11/7/00	11/9/00	EPA 8082	33.0	ND	ug/kg	
PCB-1221	"	"	"	EPA 8082	33.0	ND	"	
PCB-1232	"	"	"	EPA 8082	33.0	ND	"	
PCB-1242	"	"	"	EPA 8082	33.0	ND	"	
PCB-1248	"	"	"	EPA 8082	33.0	ND	"	
PCB-1254	"	"	"	EPA 8082	33.0	ND	"	
PCB-1260	"	"	"	EPA 8082	33.0	ND	"	
Surrogate: Decachlorobiphenyl	"	"	"	*45.5-115*		*84.3*	*%*	

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Lowney Associates	Project:	1193 Lick Ave.	Sampled:	11/3/00
405 Clyde Ave	Project Number:	113-11N	Received:	11/3/00
Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0110041	**Date Prepared: 11/8/00**				**Extraction Method: EPA 5030B [P/T]**					
Blank	**0110041-BLK1**									
Purgeable Hydrocarbons as Gasoline	11/8/00			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**5.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.68*	"	*70.0-130*	*96.8*			
LCS	**0110041-BS1**									
Benzene	11/8/00	10.0		10.9	ug/l	70.0-130	109			
Toluene	"	10.0		9.91	"	70.0-130	99.1			
Ethylbenzene	"	10.0		9.72	"	70.0-130	97.2			
Xylenes (total)	"	30.0		28.7	"	70.0-130	95.7			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.61*	"	*70.0-130*	*96.1*			
LCS	**0110041-BS2**									
Purgeable Hydrocarbons as Gasoline	11/8/00	250		268	ug/l	70.0-130	107			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.45*	"	*70.0-130*	*94.5*			
Matrix Spike	**0110041-MS1**		**L011005-05**							
Benzene	11/9/00	10.0	ND	12.5	ug/l	60.0-140	**125**			
Toluene	"	10.0	1.22	12.7	"	60.0-140	**115**			
Ethylbenzene	"	10.0	ND	11.5	"	60.0-140	**115**			
Xylenes (total)	"	30.0	0.713	34.0	"	60.0-140	**111**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.81*	"	*70.0-130*	*98.1*			
Matrix Spike Dup	**0110041-MSD1**		**L011005-05**							
Benzene	11/9/00	10.0	ND	10.5	ug/l	60.0-140	**105**	25.0	**17.4**	
Toluene	"	10.0	1.22	10.8	"	60.0-140	**95.8**	25.0	**18.2**	
Ethylbenzene	"	10.0	ND	9.73	"	60.0-140	**97.3**	25.0	**16.7**	
Xylenes (total)	"	30.0	0.713	29.1	"	60.0-140	**94.6**	25.0	**16.0**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.98*	"	*70.0-130*	*89.8*			

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405 Clyde Ave	Project Number:	113-11N	Received:	11/3/00
Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Volatile Organic Compounds by EPA Method 8260B/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0110026	**Date Prepared: 11/5/00**				**Extraction Method: EPA 5030B [P/T]**					
Blank	**0110026-BLK1**									
Benzene	11/5/00			**ND**	ug/l	**2.00**				
Bromobenzene	"			**ND**	"	**2.00**				
Bromochloromethane	"			**ND**	"	**2.00**				
Bromodichloromethane	"			**ND**	"	**2.00**				
Bromoform	"			**ND**	"	**2.00**				
Bromomethane	"			**ND**	"	**5.00**				
n-Butylbenzene	"			**ND**	"	**2.00**				
sec-Butylbenzene	"			**ND**	"	**2.00**				
tert-Butylbenzene	"			**ND**	"	**2.00**				
Carbon tetrachloride	"			**ND**	"	**2.00**				
Chlorobenzene	"			**ND**	"	**2.00**				
Chloroethane	"			**ND**	"	**5.00**				
Chloroform	"			**ND**	"	**2.00**				
Chloromethane	"			**ND**	"	**5.00**				
2-Chlorotoluene	"			**ND**	"	**2.00**				
4-Chlorotoluene	"			**ND**	"	**2.00**				
Dibromochloromethane	"			**ND**	"	**2.00**				
1,2-Dibromoethane	"			**ND**	"	**2.00**				
Dibromomethane	"			**ND**	"	**2.00**				
1,2-Dibromo-3-chloropropane	"			**ND**	"	**5.00**				
1,2-Dichlorobenzene	"			**ND**	"	**2.00**				
1,3-Dichlorobenzene	"			**ND**	"	**2.00**				
1,4-Dichlorobenzene	"			**ND**	"	**2.00**				
Dichlorodifluoromethane	"			**ND**	"	**5.00**				
1,1-Dichloroethane	"			**ND**	"	**2.00**				
1,2-Dichloroethane	"			**ND**	"	**2.00**				
1,1-Dichloroethene	"			**ND**	"	**2.00**				
cis-1,2-Dichloroethene	"			**ND**	"	**2.00**				
trans-1,2-Dichloroethene	"			**ND**	"	**2.00**				
1,2-Dichloropropane	"			**ND**	"	**2.00**				
1,3-Dichloropropane	"			**ND**	"	**2.00**				
2,2-Dichloropropane	"			**ND**	"	**2.00**				
1,1-Dichloropropene	"			**ND**	"	**2.00**				
Ethylbenzene	"			**ND**	"	**2.00**				
Hexachlorobutadiene	"			**ND**	"	**2.00**				
Isopropylbenzene	"			**ND**	"	**2.00**				
p-Isopropyltoluene	"			**ND**	"	**2.00**				
Methylene chloride	"			**ND**	"	**5.00**				
Naphthalene	"			**ND**	"	**5.00**				
n-Propylbenzene	"			**ND**	"	**2.00**				

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Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Volatile Organic Compounds by EPA Method 8260B/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)	**0110026-BLK1**									
Styrene	11/5/00			**ND**	ug/l	**2.00**				
1,1,1,2-Tetrachloroethane	"			**ND**	"	**2.00**				
1,1,2,2-Tetrachloroethane	"			**ND**	"	**2.00**				
Tetrachloroethene	"			**ND**	"	**2.00**				
Toluene	"			**ND**	"	**2.00**				
1,2,3-Trichlorobenzene	"			**ND**	"	**2.00**				
1,2,4-Trichlorobenzene	"			**ND**	"	**2.00**				
1,1,1-Trichloroethane	"			**ND**	"	**2.00**				
1,1,2-Trichloroethane	"			**ND**	"	**2.00**				
Trichloroethene	"			**ND**	"	**2.00**				
Trichlorofluoromethane	"			**ND**	"	**5.00**				
1,2,3-Trichloropropane	"			**ND**	"	**2.00**				
1,2,4-Trimethylbenzene	"			**ND**	"	**2.00**				
1,3,5-Trimethylbenzene	"			**ND**	"	**2.00**				
Vinyl chloride	"			**ND**	"	**2.00**				
Total Xylenes	"			**ND**	"	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*50.5*	"	*76.0-114*	*101*			
Surrogate: Toluene-d8	"	*50.0*		*49.3*	"	*88.0-110*	*98.6*			
Surrogate: 4-BFB	"	*50.0*		*50.2*	"	*86.0-115*	*100*			
Blank	**0110026-BLK3**									
Benzene	11/9/00			**ND**	ug/l	**2.00**				
Bromobenzene	"			**ND**	"	**2.00**				
Bromochloromethane	"			**ND**	"	**2.00**				
Bromodichloromethane	"			**ND**	"	**2.00**				
Bromoform	"			**ND**	"	**2.00**				
Bromomethane	"			**ND**	"	**5.00**				
n-Butylbenzene	"			**ND**	"	**2.00**				
sec-Butylbenzene	"			**ND**	"	**2.00**				
tert-Butylbenzene	"			**ND**	"	**2.00**				
Carbon tetrachloride	"			**ND**	"	**2.00**				
Chlorobenzene	"			**ND**	"	**2.00**				
Chloroethane	"			**ND**	"	**5.00**				
Chloroform	"			**ND**	"	**2.00**				
Chloromethane	"			**ND**	"	**5.00**				
2-Chlorotoluene	"			**ND**	"	**2.00**				
4-Chlorotoluene	"			**ND**	"	**2.00**				
Dibromochloromethane	"			**ND**	"	**2.00**				
1,2-Dibromoethane	"			**ND**	"	**2.00**				
Dibromomethane	"			**ND**	"	**2.00**				
1,2-Dibromo-3-chloropropane	"			**ND**	"	**5.00**				

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Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Volatile Organic Compounds by EPA Method 8260B/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)	**0110026-BLK3**									
1,2-Dichlorobenzene	11/9/00			**ND**	ug/l	**2.00**				
1,3-Dichlorobenzene	"			**ND**	"	**2.00**				
1,4-Dichlorobenzene	"			**ND**	"	**2.00**				
Dichlorodifluoromethane	"			**ND**	"	**5.00**				
1,1-Dichloroethane	"			**ND**	"	**2.00**				
1,2-Dichloroethane	"			**ND**	"	**2.00**				
1,1-Dichloroethene	"			**ND**	"	**2.00**				
cis-1,2-Dichloroethene	"			**ND**	"	**2.00**				
trans-1,2-Dichloroethene	"			**ND**	"	**2.00**				
1,2-Dichloropropane	"			**ND**	"	**2.00**				
1,3-Dichloropropane	"			**ND**	"	**2.00**				
2,2-Dichloropropane	"			**ND**	"	**2.00**				
1,1-Dichloropropene	"			**ND**	"	**2.00**				
Ethylbenzene	"			**ND**	"	**2.00**				
Hexachlorobutadiene	"			**ND**	"	**2.00**				
Isopropylbenzene	"			**ND**	"	**2.00**				
p-Isopropyltoluene	"			**ND**	"	**2.00**				
Methylene chloride	"			**ND**	"	**5.00**				
Naphthalene	"			**ND**	"	**5.00**				
n-Propylbenzene	"			**ND**	"	**2.00**				
Styrene	"			**ND**	"	**2.00**				
1,1,1,2-Tetrachloroethane	"			**ND**	"	**2.00**				
1,1,2,2-Tetrachloroethane	"			**ND**	"	**2.00**				
Tetrachloroethene	"			**ND**	"	**2.00**				
Toluene	"			**ND**	"	**2.00**				
1,2,3-Trichlorobenzene	"			**ND**	"	**2.00**				
1,2,4-Trichlorobenzene	"			**ND**	"	**2.00**				
1,1,1-Trichloroethane	"			**ND**	"	**2.00**				
1,1,2-Trichloroethane	"			**ND**	"	**2.00**				
Trichloroethene	"			**ND**	"	**2.00**				
Trichlorofluoromethane	"			**ND**	"	**5.00**				
1,2,3-Trichloropropane	"			**ND**	"	**2.00**				
1,2,4-Trimethylbenzene	"			**ND**	"	**2.00**				
1,3,5-Trimethylbenzene	"			**ND**	"	**2.00**				
Vinyl chloride	"			**ND**	"	**2.00**				
Total Xylenes	"			**ND**	"	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*52.1*	"	*76.0-114*	*104*			
Surrogate: Toluene-d8	"	*50.0*		*48.0*	"	*88.0-110*	*96.0*			
Surrogate: 4-BFB	"	*50.0*		*47.9*	"	*86.0-115*	*95.8*			

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Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Volatile Organic Compounds by EPA Method 8260B/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank	**0110026-BLK4**									
Benzene	11/10/00			**ND**	ug/l	**2.00**				
Bromobenzene	"			**ND**	"	**2.00**				
Bromochloromethane	"			**ND**	"	**2.00**				
Bromodichloromethane	"			**ND**	"	**2.00**				
Bromoform	"			**ND**	"	**2.00**				
Bromomethane	"			**ND**	"	**5.00**				
n-Butylbenzene	"			**ND**	"	**2.00**				
sec-Butylbenzene	"			**ND**	"	**2.00**				
tert-Butylbenzene	"			**ND**	"	**2.00**				
Carbon tetrachloride	"			**ND**	"	**2.00**				
Chlorobenzene	"			**ND**	"	**2.00**				
Chloroethane	"			**ND**	"	**5.00**				
Chloroform	"			**ND**	"	**2.00**				
Chloromethane	"			**ND**	"	**5.00**				
2-Chlorotoluene	"			**ND**	"	**2.00**				
4-Chlorotoluene	"			**ND**	"	**2.00**				
Dibromochloromethane	"			**ND**	"	**2.00**				
1,2-Dibromoethane	"			**ND**	"	**2.00**				
Dibromomethane	"			**ND**	"	**2.00**				
1,2-Dibromo-3-chloropropane	"			**ND**	"	**5.00**				
1,2-Dichlorobenzene	"			**ND**	"	**2.00**				
1,3-Dichlorobenzene	"			**ND**	"	**2.00**				
1,4-Dichlorobenzene	"			**ND**	"	**2.00**				
Dichlorodifluoromethane	"			**ND**	"	**5.00**				
1,1-Dichloroethane	"			**ND**	"	**2.00**				
1,2-Dichloroethane	"			**ND**	"	**2.00**				
1,1-Dichloroethene	"			**ND**	"	**2.00**				
cis-1,2-Dichloroethene	"			**ND**	"	**2.00**				
trans-1,2-Dichloroethene	"			**ND**	"	**2.00**				
1,2-Dichloropropane	"			**ND**	"	**2.00**				
1,3-Dichloropropane	"			**ND**	"	**2.00**				
2,2-Dichloropropane	"			**ND**	"	**2.00**				
1,1-Dichloropropene	"			**ND**	"	**2.00**				
Ethylbenzene	"			**ND**	"	**2.00**				
Hexachlorobutadiene	"			**ND**	"	**2.00**				
Isopropylbenzene	"			**ND**	"	**2.00**				
p-Isopropyltoluene	"			**ND**	"	**2.00**				
Methylene chloride	"			**ND**	"	**5.00**				
Naphthalene	"			**ND**	"	**5.00**				
n-Propylbenzene	"			**ND**	"	**2.00**				
Styrene	"			**ND**	"	**2.00**				

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405 Clyde Ave	Project Number:	113-11N	Received:	11/3/00
Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Volatile Organic Compounds by EPA Method 8260B/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)	**0110026-BLK4**									
1,1,1,2-Tetrachloroethane	11/10/00			**ND**	ug/l	**2.00**				
1,1,2,2-Tetrachloroethane	"			**ND**	"	**2.00**				
Tetrachloroethene	"			**ND**	"	**2.00**				
Toluene	"			**ND**	"	**2.00**				
1,2,3-Trichlorobenzene	"			**ND**	"	**2.00**				
1,2,4-Trichlorobenzene	"			**ND**	"	**2.00**				
1,1,1-Trichloroethane	"			**ND**	"	**2.00**				
1,1,2-Trichloroethane	"			**ND**	"	**2.00**				
Trichloroethene	"			**ND**	"	**2.00**				
Trichlorofluoromethane	"			**ND**	"	**5.00**				
1,2,3-Trichloropropane	"			**ND**	"	**2.00**				
1,2,4-Trimethylbenzene	"			**ND**	"	**2.00**				
1,3,5-Trimethylbenzene	"			**ND**	"	**2.00**				
Vinyl chloride	"			**ND**	"	**2.00**				
Total Xylenes	"			**ND**	"	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*52.9*	"	*76.0-114*	*106*			
Surrogate: Toluene-d8	"	*50.0*		*48.9*	"	*88.0-110*	*97.8*			
Surrogate: 4-BFB	"	*50.0*		*49.2*	"	*86.0-115*	*98.4*			
LCS	**0110026-BS1**									
Benzene	11/5/00	50.0		41.8	ug/l	70.0-130	83.6			
Chlorobenzene	"	50.0		41.3	"	70.0-130	82.6			
1,1-Dichloroethene	"	50.0		49.7	"	70.0-130	99.4			
Toluene	"	50.0		41.7	"	70.0-130	83.4			
Trichloroethene	"	50.0		39.6	"	70.0-130	79.2			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*49.4*	"	*76.0-114*	*98.8*			
Surrogate: Toluene-d8	"	*50.0*		*49.1*	"	*88.0-110*	*98.2*			
Surrogate: 4-BFB	"	*50.0*		*47.5*	"	*86.0-115*	*95.0*			
LCS	**0110026-BS3**									
Benzene	11/9/00	50.0		39.4	ug/l	70.0-130	78.8			
Chlorobenzene	"	50.0		39.1	"	70.0-130	78.2			
1,1-Dichloroethene	"	50.0		46.6	"	70.0-130	93.2			
Toluene	"	50.0		38.8	"	70.0-130	77.6			
Trichloroethene	"	50.0		38.3	"	70.0-130	76.6			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*49.1*	"	*76.0-114*	*98.2*			
Surrogate: Toluene-d8	"	*50.0*		*49.2*	"	*88.0-110*	*98.4*			
Surrogate: 4-BFB	"	*50.0*		*44.8*	"	*86.0-115*	*89.6*			
LCS	**0110026-BS4**									
Benzene	11/10/00	50.0		50.3	ug/l	70.0-130	101			

Sequoia Analytical

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owney Associates	Project:	1193 Lick Ave.	Sampled:	11/3/00
05 Clyde Ave	Project Number:	113-11N	Received:	11/3/00
Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Volatile Organic Compounds by EPA Method 8260B/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**0110026-BS4**									
hlorobenzene	11/10/00	50.0		48.7	ug/l	70.0-130	97.4			
,1-Dichloroethene	"	50.0		62.0	"	70.0-130	124			
Toluene	"	50.0		48.2	"	70.0-130	96.4			
richloroethene	"	50.0		45.0	"	70.0-130	90.0			
urrogate: 1,2-Dichloroethane-d4	*"*	*50.0*		*50.6*	*"*	*76.0-114*	*101*			
Surrogate: Toluene-d8	*"*	*50.0*		*49.9*	*"*	*88.0-110*	*99.8*			
Surrogate: 4-BFB	*"*	*50.0*		*48.0*	*"*	*86.0-115*	*96.0*			
atrix Spike	**0110026-MS1**		**L010204-01**							
Benzene	11/5/00	50.0	ND	46.5	ug/l	60.0-140	**93.0**			
hlorobenzene	"	50.0	ND	46.7	"	60.0-140	**93.4**			
,1-Dichloroethene	"	50.0	ND	56.5	"	60.0-140	**113**			
oluene	"	50.0	ND	47.1	"	60.0-140	**94.2**			
Trichloroethene	"	50.0	ND	46.1	"	60.0-140	**92.2**			
urrogate: 1,2-Dichloroethane-d4	*"*	*50.0*		*49.9*	*"*	*76.0-114*	*99.8*			
urrogate: Toluene-d8	*"*	*50.0*		*48.4*	*"*	*88.0-110*	*96.8*			
Surrogate: 4-BFB	*"*	*50.0*		*47.1*	*"*	*86.0-115*	*94.2*			
atrix Spike Dup	**0110026-MSD1**		**L010204-01**							
enzene	11/5/00	50.0	ND	44.1	ug/l	60.0-140	**88.2**	25.0	**5.30**	
Chlorobenzene	"	50.0	ND	45.1	"	60.0-140	**90.2**	25.0	**3.49**	
,1-Dichloroethene	"	50.0	ND	50.2	"	60.0-140	**100**	25.0	**12.2**	
oluene	"	50.0	ND	41.9	"	60.0-140	**83.8**	25.0	**11.7**	
Trichloroethene	"	50.0	ND	43.4	"	60.0-140	**86.8**	25.0	**6.03**	
urrogate: 1,2-Dichloroethane-d4	*"*	*50.0*		*48.8*	*"*	*76.0-114*	*97.6*			
urrogate: Toluene-d8	*"*	*50.0*		*47.9*	*"*	*88.0-110*	*95.8*			
urrogate: 4-BFB	*"*	*50.0*		*49.6*	*"*	*86.0-115*	*99.2*			

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Lowney Associates	Project:	1193 Lick Ave.	Sampled:	11/3/00
505 Clyde Ave	Project Number:	113-11N	Received:	11/3/00
Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Total Metals by EPA 6000/7000 Series Methods/Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0K07004	**Date Prepared: 11/7/00**				**Extraction Method: EPA 3050B**					
Blank	**0K07004-BLK1**									
Antimony	11/13/00			**ND**	mg/kg	**5.0**				
Lead	11/11/00			**ND**	"	**1.0**				
Arsenic	11/13/00			**ND**	"	**5.0**				
Barium	"			**ND**	"	**0.50**				
Beryllium	"			**ND**	"	**0.50**				
Cadmium	11/11/00			**ND**	"	**0.50**				
Chromium	"			**ND**	"	**0.50**				
Cobalt	11/13/00			**ND**	"	**0.50**				
Copper	11/11/00			**ND**	"	**0.50**				
Lead	"			**ND**	"	**1.0**				
Molybdenum	11/13/00			**ND**	"	**0.50**				
Nickel	11/11/00			**ND**	"	**1.0**				
Selenium	11/13/00			**ND**	"	**50**				
Silver	"			**ND**	"	**0.50**				
Thallium	"			**ND**	"	**5.0**				
Vanadium	"			**ND**	"	**0.50**				
Zinc	11/11/00			**ND**	"	**1.0**				
LCS	**0K07004-BS1**									
Lead	11/11/00	50.0		52.4	mg/kg	80-120	105			
Cadmium	"	50.0		50.7	"	80-120	101			
Chromium	"	50.0		51.6	"	80-120	103			
Copper	"	50.0		52.5	"	80-120	105			
Lead	"	50.0		52.4	"	80-120	105			
Nickel	"	50.0		53.5	"	80-120	107			
Zinc	"	50.0		50.0	"	80-120	100			
LCS Dup	**0K07004-BSD1**									
Lead	11/11/00	50.0		54.1	mg/kg	80-120	108	20	3.19	
Cadmium	"	50.0		51.2	"	80-120	102	20	0.981	
Chromium	"	50.0		53.8	"	80-120	108	20	4.17	
Copper	"	50.0		55.4	"	80-120	111	20	5.38	
Lead	"	50.0		54.1	"	80-120	108	20	3.19	
Nickel	"	50.0		55.8	"	80-120	112	20	4.21	
Zinc	"	50.0		51.5	"	80-120	103	20	2.96	
Batch: 0K07005	**Date Prepared: 11/7/00**				**Extraction Method: EPA 7471A**					
Blank	**0K07005-BLK1**									
Mercury	11/7/00			**ND**	mg/kg	**0.010**				

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405 Clyde Ave	Project Number:	113-11N	Received:	11/3/00
Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Total Metals by EPA 6000/7000 Series Methods/Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS	**0K07005-BS1**									
Mercury	11/7/00	0.100		0.100	mg/kg	75-125	100			
LCS Dup	**0K07005-BSD1**									
Mercury	11/7/00	0.100		0.101	mg/kg	75-125	101	20	0.995	
Matrix Spike	**0K07005-MS1**		**W011129-01**							
Mercury	11/7/00	0.100	0.016	0.115	mg/kg	75-125	**99.0**			
Matrix Spike Dup	**0K07005-MSD1**		**W011129-01**							
Mercury	11/7/00	0.100	0.016	0.120	mg/kg	75-125	**104**	20	**4.26**	

**Refer to end of report for text of notes and definitions.*

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405 Clyde Ave	Project Number:	113-11N	Received:	11/3/00
Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Conventional Chemistry Parameters by APHA/EPA Methods/Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0K08009	**Date Prepared: 11/8/00**				**Extraction Method: General Preparation**					
Duplicate	**0K08009-DUP1**		**L011051-05**							
pH	11/8/00		7.7	7.7	pH Units			30	**0**	
Batch: 0K08012	**Date Prepared: 11/8/00**				**Extraction Method: EPA 418.1**					
Blank	**0K08012-BLK1**									
TRPH	11/8/00			**ND**	mg/kg	**5.0**				
LCS	**0K08012-BS1**									
TRPH	11/8/00	500		453	mg/kg	70-130	90.6			
LCS Dup	**0K08012-BSD1**									
TRPH	11/8/00	500		460	mg/kg	70-130	92.0	30	1.53	

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Lowney Associates	Project:	1193 Lick Ave.	Sampled:	11/3/00
405 Clyde Ave	Project Number:	113-11N	Received:	11/3/00
Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Organochlorine Pesticides by EPA Method 8081A/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0110183	**Date Prepared: 11/7/00**				**Extraction Method: EPA 3550A**					
Blank	**0110183-BLK1**									**1**
Aldrin	11/14/00			**ND**	ug/kg	**1.70**				
alpha-BHC	"			**ND**	"	**3.30**				
beta-BHC	"			**ND**	"	**3.30**				
delta-BHC	"			**ND**	"	**3.30**				
gamma-BHC (Lindane)	"			**ND**	"	**1.70**				
Chlordane (tech)	"			**ND**	"	**33.0**				
4,4'-DDD	"			**ND**	"	**3.30**				
4,4'-DDE	"			**ND**	"	**3.30**				
4,4'-DDT	"			**ND**	"	**3.30**				
Dieldrin	"			**ND**	"	**3.30**				
Endosulfan I	"			**ND**	"	**1.70**				
Endosulfan II	"			**ND**	"	**3.30**				
Endosulfan sulfate	"			**ND**	"	**3.30**				
Endrin	"			**ND**	"	**1.70**				
Endrin aldehyde	"			**ND**	"	**6.60**				
Heptachlor	"			**ND**	"	**1.70**				
Heptachlor epoxide	"			**ND**	"	**1.70**				
Methoxychlor	"			**ND**	"	**6.60**				
Toxaphene	"			**ND**	"	**66.0**				
Surrogate: Tetrachloro-meta-xylene	"	*66.7*		*68.0*	"	*43.5-108*	*102*			
Surrogate: Decachlorobiphenyl	"	*66.7*		*68.3*	"	*45.5-115*	*102*			
LCS	**0110183-BS1**									**1**
Aldrin	11/14/00	33.3		32.6	ug/kg	35.7-122	97.9			
gamma-BHC (Lindane)	"	33.3		33.9	"	56.9-123	102			
4,4'-DDT	"	33.3		36.4	"	67.1-122	109			
Dieldrin	"	33.3		35.6	"	62.2-107	107			
Endrin	"	33.3		37.0	"	56.3-120	111			
Heptachlor	"	33.3		38.3	"	43.2-110	115			3
Surrogate: Tetrachloro-meta-xylene	"	*66.7*		*70.0*	"	*43.5-108*	*105*			
Surrogate: Decachlorobiphenyl	"	*66.7*		*72.6*	"	*45.5-115*	*109*			
Matrix Spike	**0110183-MS1**		**P011104-01**							**1**
Aldrin	11/14/00	33.3	ND	34.3	ug/kg	16-132	**103**			
gamma-BHC (Lindane)	"	33.3	ND	34.5	"	30.3-124	**104**			
4,4'-DDT	"	33.3	ND	37.8	"	14-146	**114**			
Dieldrin	"	33.3	ND	37.6	"	32.5-122	**113**			
Endrin	"	33.3	ND	40.3	"	18-151	**121**			
Heptachlor	"	33.3	ND	39.9	"	25.9-129	**120**			
Surrogate: Tetrachloro-meta-xylene	"	*66.7*		*64.4*	"	*43.5-108*	*96.6*			

**Refer to end of report for text of notes and definitions.*

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405 Clyde Ave	Project Number:	113-11N	Received:	11/3/00
Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Organochlorine Pesticides by EPA Method 8081A/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)	**0110183-MS1**		**P011104-01**							1
Surrogate: Decachlorobiphenyl	*11/14/00*	*66.7*		*76.8*	*ug/kg*	*45.5-115*	*115*			
Matrix Spike Dup	**0110183-MSD1**		**P011104-01**							1
Aldrin	11/14/00	33.3	ND	32.4	ug/kg	16-132	**97.3**	35	**5.70**	
gamma-BHC (Lindane)	"	33.3	ND	33.3	"	30.3-124	**100**	35	**3.54**	
4,4'-DDT	"	33.3	ND	34.4	"	14-146	**103**	35	**9.42**	
Dieldrin	"	33.3	ND	35.2	"	32.5-122	**106**	35	**6.59**	
Endrin	"	33.3	ND	37.2	"	18-151	**112**	35	**8.00**	
Heptachlor	"	33.3	ND	37.9	"	25.9-129	**114**	35	**5.14**	
Surrogate: Tetrachloro-meta-xylene	*"*	*66.7*		*65.4*	*"*	*43.5-108*	*98.1*			
Surrogate: Decachlorobiphenyl	*"*	*66.7*		*76.4*	*"*	*45.5-115*	*115*			

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405 Clyde Ave	Project Number:	113-11N	Received:	11/3/00
Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Polychlorinated Biphenyls by EPA Method 8082/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0110183	**Date Prepared: 11/7/00**				**Extraction Method: EPA 3550A**					
Blank	**0110183-BLK1**									**1,2**
PCB-1016	11/9/00			**ND**	ug/kg	**33.0**				
PCB-1221	"			**ND**	"	**33.0**				
PCB-1232	"			**ND**	"	**33.0**				
PCB-1242	"			**ND**	"	**33.0**				
PCB-1248	"			**ND**	"	**33.0**				
PCB-1254	"			**ND**	"	**33.0**				
PCB-1260	"			**ND**	"	**33.0**				
Surrogate: Decachlorobiphenyl	*"*	*66.7*		*63.3*	*"*	*45.5-115*	*94.9*			
LCS	**0110183-BS2**									**1,2**
PCB-1016	11/9/00	333		298	ug/kg	56.9-115	89.5			
PCB-1260	"	333		323	"	71.4-120	97.0			
Surrogate: Decachlorobiphenyl	*"*	*66.7*		*66.5*	*"*	*45.5-115*	*99.7*			
Matrix Spike	**0110183-MS2**		**P011044-26**							**1,2**
PCB-1016	11/9/00	500	ND	488	ug/kg	23.3-142	**97.6**			
PCB-1260	"	500	ND	550	"	27.5-148	**110**			
Surrogate: Decachlorobiphenyl	*"*	*100*		*89.6*	*"*	*45.5-115*	*89.6*			
Matrix Spike Dup	**0110183-MSD2**		**P011044-26**							**1,2**
PCB-1016	11/9/00	500	ND	422	ug/kg	23.3-142	**84.4**	35	**14.5**	
PCB-1260	"	500	ND	475	"	27.5-148	**95.0**	35	**14.6**	
Surrogate: Decachlorobiphenyl	*"*	*100*		*90.4*	*"*	*45.5-115*	*90.4*			

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405 Clyde Ave	Project Number:	113-11N	Received:	11/3/00
Mountain View, CA 94043	Project Manager:	Robert Bacci	Reported:	11/15/00

Notes and Definitions

#	Note
1	To reduce matrix interference, the sample extract has undergone TBA (sulfur) clean-up, method 3660B.
2	To reduce matrix interference, the sample extract has undergone sulfuric acid clean-up, method 3665, which is specific to hydrocarbon contamination.
3	The percent recovery was outside QC acceptance limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

Test Report - Sequoia Analytical - San Carlos

Polarized Light Microscopy Analysis Results

Project AOC011152

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1724938CPL Brown soil	L011051-01	-	-	-	-	-	-	2 %	-	-	-	-	98 %	11/10/00 ACF
		NFM: Qtz, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Misc. Part.											Homogeneous	
1724939CPL Brown soil	L011051-06	-	-	-	-	-	-	4 %	-	-	-	-	96 %	11/10/00 ACF
		NFM: Qtz, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Misc. Part.											Homogeneous	
1724940CPL Brown soil	L011051-08	-	-	-	-	-	-	2 %	-	-	-	-	98 %	11/10/00 ACF
		NFM: Qtz, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Misc. Part.											Homogeneous	

Samples received on: Friday, November 3, 2000

Authorized Signature

Adam Fink, Geologist

Date Friday, November 10, 2000

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
San Leandro, CA 94577

Phone (510) 567-0480
Fax (510) 567-0488

NOV. 14. 2000 12:25PM R J LEE GROUP INC NO. 3745 P. 2

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

CHAIN OF CUSTODY RECORD

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☐ **San Ramon Office**
2258 Camino Ramon
San Ramon 94583
Tel: 925.275.2555
Fax: 925.275.2555

L011051

Project Name: 1193 Lick Avenue
Job No.: 113-11N
Report To: Robert Bacci
Sampler (print): S. Jane Fisher
Sampler (signature): S. Jane Fisher
QC Requirement: ☒ Level A (standard)

Turnaround Requirements
☒ 5 Working Days
☐ 48 Hours
☐ 24 Hours
☐ 2-3 Hours RUSH
☐ _____

ANALYSES REQUESTED

TPHGBM, 8260 = SC
Pest. + PCBs = PET
PH, MET., + O+G = WC
Asbestos = RJ Lee

Sample I.D.	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	TPH as gas/BTEX/MTBE (8015/8020)	TPH as silica	TRPH	Halogenated 82	Organics	Metals	Fuel	ASBESTOS	PCBs 8080 Pesticides	Fuel Scan 8020/8015M (Purgeable and Extractable)	CAM Metals (17)	pH	Remarks
EB-12	11-3-00	12:10	01	soil	1						X		X					
EB-11	11-3-00	11:55	02	soil	1											X	X	
EB-10	11-3-00	11:52	03	soil												X	X	
EB-8	11-3-00	11:35	04	soil				X						X		X		
EB-9	11-3-00	11:40	05	soil												X	X	
EB-13	11-3-00	12:05	06	soil							X		X					
EB-7	11-3-00	11:25	07	soil				X						X		X		
EB-5	11-3-00	10:55	08	soil							X		X					
EB-6	11-3-00	11:15	09	soil				X						X		X		
EB-3	11-3-00	9:00	10	water	6	X			X									

Relinquished By: S. Jane Fisher	Date: 11/3/00	Time: 12:30 (14:30)	Received By: Jerry Rivera	Date: 11/3	Time: 330
Relinquished By: Jerry Rivera	Date: 11/3	Time: 1440	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Lab of Record:		
			Received by Lab: Tina Ca	Date: 11/3/00	Time: 16:40

PM Initial:
Temp:

APPENDIX C

GEOPHYSICAL SURVEY

J R ASSOCIATES

Engineering Geophysics
1886 Emory Street
San Jose, CA 95126
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MAGNETIC INVESTIGATION
1193 LICK AVENUE
SAN JOSE, CALIFORNIA

November 20, 2000

For

Lowney Associates
405 Clyde Avenue
Mountain View, CA 94043

By

James Rezowalli, GP-921

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I INTRODUCTION

This report presents the results of a geophysical investigation performed at 1193 Lick Avenue in San Jose, California. The investigation was performed for Lowney Associates by J R Associates. The purpose of the investigation was to look for geophysical indications of buried tanks and buried metal debris. James Rezowalli, Principal Geophysicist, and Bob Wing, Technician, of J R Associates performed the field work in November of 2000.

A. Site

The site consists of a dirt lot approximately seven acres in size (Drawing 1). Lowney Associates provided us a map showing that there were once two fuel storage tanks buried at the site. The purpose of this investigation was to look for geophysical indications of underground storage tanks, buried structures, buried pipes and buried metal debris at the site.

II METHODS

Several geophysical techniques can detect buried objects. The most appropriate method for this site was a magnetic investigation. A magnetic investigation maps the Earth's magnetic field. The magnetic field is uniform throughout a site free of metal. The magnetic field at a site that contains ferrous metal is not uniform. Metal objects produce magnetic anomalies with characteristic shapes and magnitudes. For example, an anomaly caused by a buried fuel storage tank is characterized by a strong magnetic high just south of the center of the tank and a weaker magnetic low just north of the tank. Magnetic highs typically range from 150 gammas to 1500 gammas. Magnetic lows are usually half the value of the magnetic highs. This type of anomaly is what we use to locate buried fuel storage tanks.

A. Magnetic Instrumentation

We used a Geometrics model 858 cesium vapor magnetometer to collect magnetic data at the site. The magnetometer had one sensor and an electronics package. The magnetometer collected total field data. The magnetometer can discriminate to 0.1 gammas in a total field of 40,000 to 60,000 gammas. Magnetic readings were stored in memory with the time of day, station numbers and line numbers of the readings. The data were downloaded to a computer and contoured. A base station was placed on site and used to collect base line readings of the Earth's magnetic field. Data from the base station were used to correct for naturally occurring drift in the Earth's magnetic field.

B. Magnetic Field Procedures

We collected magnetic data throughout the seven acres (Drawing 2). Magnetic data were collected at 0.5 second intervals while walking along scan lines spaced 10 feet apart. The data were contoured to look for magnetic anomalies. An anomaly is indicated by a series of concentric magnetic contours. There were several magnetic anomalies at the site. These anomalies will be discussed next in the report.

III RESULTS

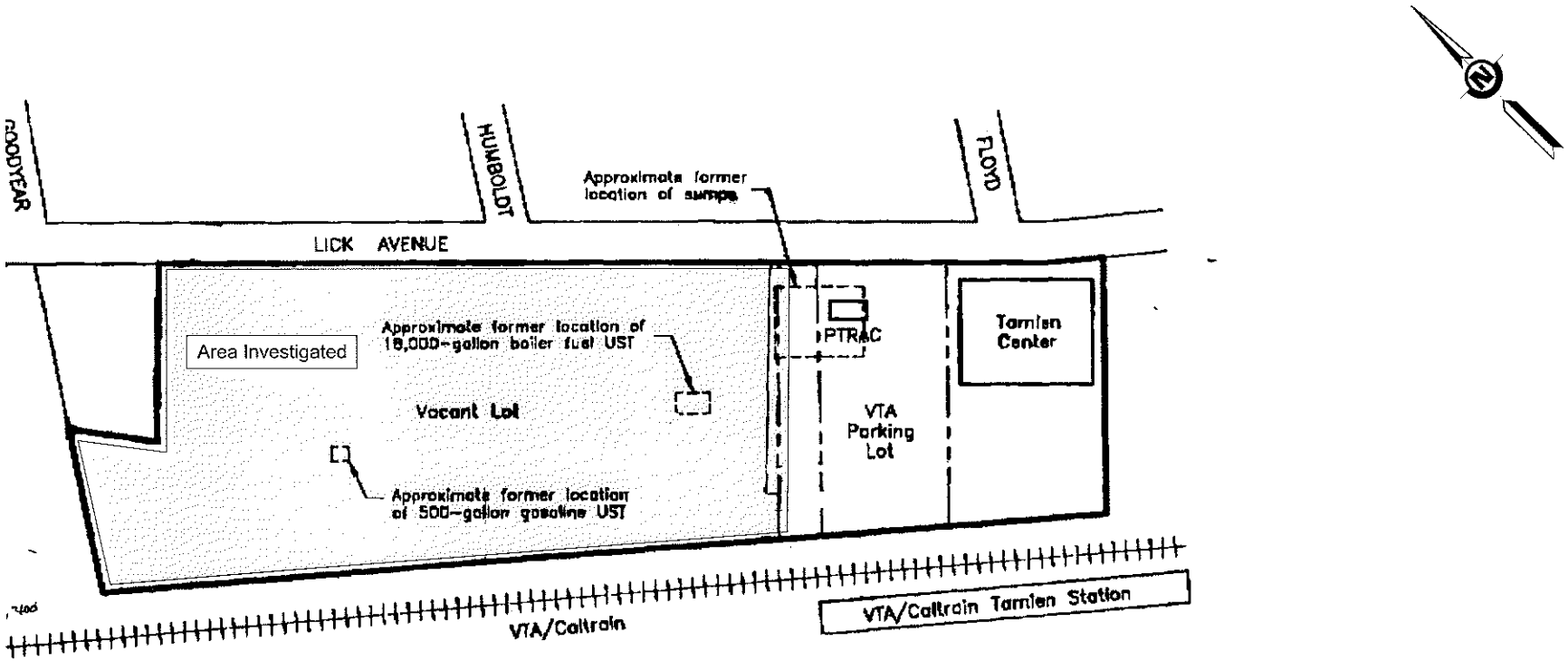
A. Magnetic Anomalies

Drawing 3 shows the contour map of the magnetic data. There were several magnetic anomalies in the data. Some anomalies were caused by surface metal. The surface metal included fencing and small pieces of metal debris. The anomalies caused by buried metal are shown in red on Drawing 3. The centers of the anomalies caused by buried metal were marked with wooden stakes in the field. The data suggest that some anomalies indicative of buried metal were caused by buried pipes. The locations of suspected pipelines are marked on the drawing.

B. Limitations

Magnetic methods locate ferrous objects from the anomalies they produce in the earth's magnetic field. It is possible some ferrous objects will not produce an anomaly. Some possible reasons are that the object is buried too deep, the object is too small, the object is buried under or near another ferrous object or an object is buried near a utility. It is possible there are materials buried at the site that were not detected by the magnetometer. We recommend rerunning the magnetic survey after the buried pipes and tanks have been removed. An anomaly caused by one buried object can mask an anomaly caused by another nearby object. Rerunning the magnetic survey will help determine if all the metal has been removed.

IV DRAWINGS



Site Map
1193 Lick Avenue
San Jose, California

SCALE:	No Scale		DRAWN BY: J.J.R.
DATE:	11-20-2000	JOB NUMBER: 160-010-00	REVISED:

J R ASSOCIATES Civil and Environmental Geophysics
1886 Emory Street, San Jose, CA (408) 293-7390

DRAWING NUMBER: 2

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

Geotechnical Investigation

1193 Lick Avenue

Tamien Station Townhomes

San Jose, California

Report No.113-11P has been prepared for:

Tamien Associates L.P.

c/o Castle Group California, Inc.

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April 13, 2001

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STATE OF CALIFORNIA

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GEOTECHNICAL INVESTIGATION

1193 LICK AVENUE

TAMIEN STATION TOWNHOMES

SAN JOSE, CALIFORNIA

1.0 INTRODUCTION

In this report we present the results of our geotechnical investigation for the residential development to be located in San Jose, California. The location of the site is shown on the Vicinity Map, Figure 1. The purpose of our investigation was to evaluate the subsurface conditions at the site and to provide geotechnical recommendations for design of the proposed development.

1.1 Project Description

As presently planned, the project consists of construction of 208 townhome units in nine buildings across the approximately 11-acre site located at 1193 Lick Avenue, adjacent to Tamien Station in San Jose, California. The proposed residential development will consist of two- to three-story, wood and/or steel frame structures over one level of below grade concrete parking structure. Cuts for these below grade parking areas are expected to be approximately 5 to 8-feet-deep. A portion of the site has been allocated as a park.

Structural loads were not available; however we assume structural loads will be representative of this type of structure. Asphalt concrete streets, driveways, and parking areas are also planned on site as well as underground utilities.

1.2 Scope of Services

Our scope of services was presented in detail in our agreement with you dated February 21, 2001. To accomplish this work, we provided the following services:

- Exploration of subsurface conditions by drilling five borings, advancing three Cone Penetration Tests (CPTs), and retrieving relatively undisturbed and bulk soil samples for observation and laboratory testing.

- Evaluation of the physical and engineering properties of the subsurface soils by visually classifying the samples and performing various laboratory tests on selected samples.

- Engineering analysis to evaluate site earthwork, building foundations, slabs-on-grade, retaining walls, and pavements.

2.3 Subsurface

Our borings drilled at the southern portion of the site (EB-1 and EB-2) in the existing Tamien Station parking area encountered a pavement section with 2½ to 3 inches of asphalt concrete over 9½ to10 inches of aggregate base. Approximately 12 inches of fill consisting of medium dense gravelly sand with clay was encountered below the pavement section in Boring EB-1.

The soil profile below the pavement sections for all but the northwestern portion of the site generally consists of approximately 8 to 9 feet of medium stiff to hard, low plasticity sandy clay with some interbedded sand seams overlying medium stiff to very stiff, high plasticity silty clays to a depth of 42 feet, the maximum depth explored. A layer of loose gravelly sand was observed between depths of approximately 5 to 7½ feet in Boring EB-2. A 1 to 2 thick layer of loose to medium dense sand was encountered between 4 to 6 feet in CPT-1. A plasticity Index (PI) test was performed on a representative sample from 4 feet in EB-1. The test indicated a PI of 8, which indicates low expansion potential.

The soil profile in the northwestern portion of the site (EB-3, EB-5, CPT-2, and CPT-3) generally consists of approximately 3 to 5 feet of very stiff sandy clay overlying loose to dense clayey and silty sands to a depth of approximately 10 feet. Medium stiff to very stiff, high plasticity silty clays were encountered below the clayey sands to a depth of 42 feet. The capping layer of sandy clay was not encountered in Boring EB-5; however, an approximately 2-foot-thick layer of medium dense gravelly sand fill exists at the surface. A PI test was performed on a representative sample from 12 feet in EB-5. The test indicated a PI of 36, which indicates high expansion potential.

Test pits TP-1 through TP-10 were performed as part of our environmental investigations at the site. The test pits encountered 1-4 feet of fill, likely associated with demolition of the pervious development at the site.

2.4 Ground Water

Free ground water was encountered during drilling in exploratory Borings EB-1 and EB-3 at depths ranging from 14 ½ to 21½ feet. Water levels were observed at depths between 15 to 20 feet in a previous investigation performed by Lowney Associates on-site in 1994 (Lick Avenue Ground Water Monitoring Report, 113-11J). Fluctuations in the level of the ground water may occur due to variations in rainfall, underground drainage patterns, and other factors not evident at the time measurements were made.

3.0 GEOLOGIC HAZARDS

A brief qualitative evaluation of geologic hazards was made during this investigation. Our comments concerning these hazards are presented below.

3.1 Fault Rupture Hazard

A Regional Fault Map illustrating known active faults relative to the site is presented in Figure 3. The site is not located within a currently designated Alquist-Priolo Earthquake Fault Zone (known formerly as a Special Studies Zone) or a City of San Jose Potential Hazard Zone. As shown on Figure 3, no known surface expression of active faults is believed to cross the site. Fault rupture through the site, therefore, is not anticipated.

3.2 Ground Shaking

Strong ground shaking can be expected at the site during moderate to severe earthquakes in the general region. This is common to virtually all developments in the San Francisco Bay Area. The "Seismicity" section that follows summarizes potential levels of ground shaking at the site.

3.3 Liquefaction

Soils most susceptible to liquefaction are clean, loose, saturated, uniformly graded, fine-grained sands. Some of the sand layers encountered in our borings and CPT's were loose to medium dense, but were found above the anticipated groundwater level or seasonal fluctuations. Medium dense to dense sands not susceptible to liquefaction were encountered below the groundwater level. This site is mapped by Geomatrix (1992) as having moderate liquefaction susceptibility. In our opinion, because our explorations did not find loose sands below the groundwater level, the potential for liquefaction is low during seismic shaking.

3.4 Differential Compaction

If near-surface soils vary in composition both vertically and laterally, strong earthquake shaking can cause non-uniform compaction of soil strata, resulting in movement of the near-surface soils. With the exception of the relatively thin loose to medium dense sands layers encountered between 3 to 10 feet in our exploration the subsurface soils encountered at the site are generally stiff and dense, and do not appear to change in thickness or consistency abruptly over short distances. A majority of these materials will be removed during the excavation for the garage parking structures. Recommendations for mitigating any loose sands below garage slab elevation are provided in the earthwork section of the report. Provided the loose sands are mitigated the probability of differential compaction affecting the proposed structures at the site is low.

3.5 Lateral Spreading

Lateral spreading typically occurs as a form of horizontal displacement of relatively flat-lying alluvial material toward an open or "free" face such as an open body of water, channel, or excavation. In soils this movement is generally due to failure along a weak plane, and may often be associated with liquefaction. As cracks

develop within the weakened material, blocks of soil displace laterally towards the open face. Cracking and lateral movement may gradually propagate away from the face as blocks continue to break free. Generally, failure in this mode is analytically unpredictable, since it is difficult to determine where the first tension crack will occur.

There are no creeks or open bodies of water within an appropriate distance from the site for lateral spreading to occur on the site. For this reason, the probability of lateral spreading occurring at the site during a seismic event is low.

4.0 SEISMICITY

4.1 Regional Active Faults

The San Francisco Bay Area is one of the most seismically active regions in the United States. The significant earthquakes that occur in the Bay Area are generally associated with crustal movement along well-defined, active fault zones of the San Andreas Fault system, which regionally trend in a northwesterly direction. The San Andreas Fault, which generated the great San Francisco earthquake of 1906, passes about 11 miles west of the site. Three other major active faults in the area are the Hayward Fault, located about 10 miles northeast of the site, and the Calaveras Fault, located about 10 miles northeast, the Monte Vista Shannon Fault, located about 6 miles southwest of the site.

4.2 Maximum Estimated Ground Shaking

We performed a Deterministic Seismic Hazard Analysis (DSHA) for this site. This analysis utilizes the maximum Moment Magnitude (M_w) for the controlling faults, published attenuation curves, the shortest distance to the fault, and site-specific response characteristics. Based on the attenuation methods of Campbell and Bozorgnia (1994), the mean peak ground acceleration (PGA) expected for this site is 0.43g from a magnitude 6.8 M_w event on the Monte Vista Shannon Fault, located about 6 miles to the southwest. If a 7.4 M_w event were to occur on the San Andreas Fault, located 11 miles to the west, the expected PGA is 0.32g.

4.5 UBC Site Coefficient

Based on our borings and alluvium thickness maps of Santa Clara County (Rogers and Williams 1974), the site is underlain by stiff soils extending to depths on the order of 450 to 500 feet. The California Division of Mines and Geology (CDMG) has recently issued maps locating "Active Fault Near-Source Zones" to be used with the 1997 Uniform Building Code ("Maps of Known Active Fault Near-Source Zones in California and Adjacent Portions of Nevada," CDMG/ICBO February 1998). Faults are classified as either "A," "B," or "C" as shown below. Only faults classified as "A" or "B" are mapped since faults classified as "C" do not increase the near-source factor.

Table 1. Seismic Source Definitions

Seismic Source Type	Seismic Source Description	Seismic Source Definition*	
		Maximum Moment Magnitude, M	Slip Rate, SR (mm/yr)
A	Faults that are capable of producing large magnitude events and that have a high rate of seismic activity.	$M \geq 7.0$	$SR \geq 5$
B	All faults other than Types A and C.	$M \geq 7.0$ $M < 7.0$ $M \geq 6.5$	$SR < 5$ $SR > 2$ $SR < 2$
C	Faults that are not capable of producing large magnitude earthquakes and that have a relatively low rate of seismic activity.	$M < 6.5$	$SR \leq 2$

*Note: Both maximum moment magnitude and slip rate conditions must be satisfied concurrently when determining seismic source type.

The following table lists Type A and Type B faults within 25 kilometers of the site:

Table 2. Approximate Distance to Seismic Sources

Fault	Seismic Source Type	Distance (kilometers)
**Hayward (Southeast Extension)	B	10
*Hayward (Total Length)	A	16
Calaveras	B	16
Monte Vista - Shannon	B	10
San Andreas (1906)	A	18

*Nearest Type A fault
**Nearest Type B fault

Based on this information, the site may be characterized for design based on Chapter 16 of the 1997 UBC using the information in Table 3 below.

Table 3. 1997 UBC Site Categorization and Site Coefficients

Categorization/Coefficient	Design Value
Soil Profile Type (Table 16-J)	S_D
Seismic Zone (Figure 16-2)	4
Seismic Zone Factor (Table 16-I)	0.4
Seismic Source Name	Monte Vista Shannon
Seismic Source Type (Table 16-U)	B
Distance to Seismic Source (kilometers)	10.0
*Near Source Factor N_a (Table 16-S)	1.00
Near Source Factor N_v (Table 16-T)	1.00
Seismic Coefficient C_a (Table 16-Q)	0.44
Seismic Coefficient C_v (Table 16-R)	0.64

*Note: For Seismic Zone 4, the near-source factor Na used to determine Ca need not exceed 1.1 for structures complying with all the conditions within UBC Section 1629.4.2.

5.0 CONCLUSIONS AND DEVELOPMENT CONSIDERATIONS

5.1 Conclusions

From a geotechnical engineering viewpoint the proposed development may be constructed as planned, provided design and construction is performed in accordance with the recommendations presented in this report.

The primary geotechnical concerns include the following:

- Existing fill, disturbed soils, and loose testpit backfill associated with the previous demolition and exploration activities at the site.
- Loose to medium dense sands at the anticipated footing depths.

A brief discussion of each geotechnical concern follows.

5.2 Undocumented Fill

Undocumented fills were encountered in our explorations ranging between 1 to 4 feet deep. Deeper undocumented fills may exist elsewhere on the site. We recommend that all existing fills be completely removed and backfilled with engineered fill. It is noted that the current grading concept will involve making cuts 5 to 8 feet below existing grades which appears to remove the existing fills; however if additional site fills are noted during mass excavation the fills should be removed. Detailed recommendations are presented in the "Earthwork" section of this report.

5.3 Loose to Medium Dense Sands at Footing Depths

Our subsurface investigation encountered loose to medium dense sands at the anticipated footing depths in several locations. We recommend that where sands are encountered within the building footprints, that the bottom of the footings be compacted in-place by mechanical (vibratory) means to a minimum relative compaction of 90 percent. Detailed recommendations are presented in the "Earthwork" section of this report

5.4 Plans, Specifications, and Construction Review

Because subsurface conditions may vary from those predicted by relatively small diameter, widely spaced borings, and to check that our recommendations have been properly implemented, we recommend we be retained to 1) review final construction plans and specifications and 2) observe the earthwork and foundation construction. Also, geotechnical conditions can be affected by the construction process. For the above reasons our geotechnical recommendations are contingent upon our firm providing geotechnical observation and testing services during construction.

6.0 EARTHWORK

The recommendations for earthwork and foundations presented in this report assume the structures will be founded 5 to 8 feet below existing grades. If the development and grading concept changes; we should be retained to review and revise our recommendations if necessary.

6.1 Clearing and Site Preparation

The site should be cleared of all surface and subsurface deleterious materials including any existing building foundations, slabs, irrigation lines, fills, pavements, debris, designated trees, shrubs, and associated roots. Abandonment of existing buried utilities is discussed below. Excavations extending below the planned finished site grades should be cleaned and backfilled with suitable material compacted as recommended in the "Compaction" section of this report. We recommend that the backfilling be carried out under our observation.

After clearing, any vegetated areas should be stripped to sufficient depth to remove all surface vegetation and topsoil containing greater than 3 percent organic matter by weight. At the time of our field investigation, we estimated that a stripping depth of approximately 3 inches would be required in vegetated areas. The actual stripping depth required depends on site usage prior to construction and should be established in the field by us at the time of construction. The stripped materials should be removed from the site or may be stockpiled for use in landscaped areas, if desired.

6.2 Removal of Existing Fill

All fills existing in building areas, pavement areas, and concrete landscape areas should be removed down to native soil. If the fill material meets the requirements in the "Material for Fill" section below, it may be reused as engineered fill. Side slopes of fill excavations in building and pavement areas should be sloped at inclinations no greater than 3:1 (horizontal to vertical) to minimize abrupt variations in fill thickness. All fill should be compacted in accordance with the recommendations for fill presented in the "Compaction" section of this report. In areas were the test pits will not be removed by the planned cuts, it is recommended that the fill in the test pits be removed and re-compacted when located in a pavement area per our recommendations in the "Compaction" section of this report. The locations of these test pits can be found on the Site Plan, Figure 2

6.3 Abandoned Utilities

Abandoned utilities within the proposed building areas should be removed in their entirety. Utilities within the proposed building areas would only be considered for in-place abandonment provided they do not conflict with new improvements, that the ends and all laterals are located and completely grouted, and the previous fills associated with the utility do not pose a risk to the structure.

Utilities outside the building areas should be removed or abandoned in-place by grouting or plugging the ends with concrete. Fills associated with utilities abandoned in-place could pose some risk of settlement; utilities that are plugged could also pose some risk of future collapse or erosion should they leak or become damaged. The potential risks are relatively low for small diameter pipes (4 inches or less) abandoned in-place and increasingly higher with increasing diameter.

6.4 Subgrade Preparation

After the site has been properly cleared, stripped, and necessary excavations have been made, exposed surface soils in those areas to receive fill, slabs-on-grade, or pavements should be scarified to a depth of 6 inches, moisture conditioned, and compacted in accordance with the recommendations for fill presented in the "Compaction" section. The finished compacted subgrade should be firm and non-yielding under the weight of compaction equipment.

It is noted that the moisture contents of the soils anticipated to be exposed at subgrade is estimated to range between 5 to 10 percent above optimum. The contractor should anticipate scarification and drying of these soils during subgrade preparation. Excavation and compaction with track and sheep's foot equipment should be anticipated to limit pumping conditions. We recommend that heavy rubber tired equipment be kept off the subgrade as much as practically possible because they may cause severe pumping conditions. If pumping conditions develop during construction, our office should be contacted to provide recommendations to mitigate the conditions.

6.5 Material for Fill

All on-site soils below the stripped layer having an organic content of less than 3 percent by weight are suitable for use as fill at the site. In general, fill material should not contain rocks or lumps larger than 6 inches in greatest dimension, with no more than 15 percent larger than 2½ inches. Imported and non-expansive fill material should be inorganic and should have a Plasticity Index of 15 or less. Import should have sufficient binder to prevent caving of the foundation and utility trenches. Proposed import material should be approved by a member of our staff at least four days prior to delivery to the site. Compliance testing for aggregate base may take up to 10 days to complete.

Consideration should also be given to the environmental characteristics as well as the corrosion potential of import soils. Laboratory testing, including pH, soluble sulfates, chlorides, and resistivity will provide information regarding corrosion potential. Import soils should not be more corrosive than the native materials.

6.7 Compaction

All fill, as well as scarified surface soils in those areas to receive fill or slabs-on-grade, should be compacted to at least 90 percent relative compaction as determined by ASTM Test Designation D1557, latest edition, with the exception of native expansive clays, native expansive clays should be completed to between 87 to 92 percent relative compaction at a moisture content of at least 3 percent above optimum. Fill greater than 5 feet in thickness should be compacted to at least 95 percent compaction for the portion below the upper 5 feet. Fill should be placed in lifts no greater than 8 inches in uncompacted thickness at a moisture content near the at least 2 percent over laboratory optimum. Each successive lift should be firm and non-yielding under the weight of construction equipment. It is noted that the existing site soils will have to be dried out to obtain compaction.

In pavement areas, the upper 6 inches of subgrade and full depth of aggregate base should be compacted to at least 95 percent relative compaction (ASTM D1557, latest edition). Native expansive clays encountered at the pavement subgrade level should be compacted as discussed above. Aggregate base and all import soils should be compacted at a moisture content near the laboratory optimum.

6.9 Wet Weather Conditions

Earthwork contractors should be made aware of the moisture sensitivity of clayey soils and potential compaction difficulties. If construction is undertaken during wet weather conditions, the surficial soils may become saturated, soft and unworkable. Subgrade stabilization techniques might include the use of engineering fabrics and/or crushed rock or chemical treatment. Therefore, we recommend that consideration be given to construction during summer months.

6.10 Trench Backfill

Bedding and shading materials to be used around underground utility pipes should be predominantly granular and should be placed and compacted in accordance with project specifications, local requirements or governing jurisdiction. General fill to be used above shading materials should be placed and compacted in accordance with local requirements or the recommendations contained in this section, whichever is more stringent.

On-site soils may be used as general fill above shading materials provided they meet the requirements of the "Material for Fill" section of this report. General fill should be placed in lifts not exceeding 8 inches in uncompacted thickness and should be compacted to at least 90 percent relative compaction (ASTM D1557, latest edition) by mechanical means only. Water jetting of trench backfill should not be allowed. The upper 6 inches of general fill in all pavement areas subject to wheel loads should be compacted to at least 95 percent relative compaction.

6.11 Temporary Slopes and Trench Excavations

The contractor should be responsible for all temporary slopes and trenches excavated at the site and design of any required temporary shoring. Shoring, bracing, and benching should be performed by the contractor in accordance with the strictest governing safety standards.

6.14 Basement Excavation Support

The walls of the basement excavation may be supported by several methods including tiebacks, soldier beams and wood lagging, or temporary slopes if space is adequate. The choice should be left to the contractor's judgment since economic considerations and/or the individual contractor's construction experience may determine which method is more economical and/or appropriate. Support of any adjacent existing structures without distress should also be the contractor's responsibility. We recommend that the contractor forward his plan for the support system to the structural engineer and geotechnical engineer for preconstruction review. In addition, it should be the contractor's responsibility to undertake a preconstruction survey with benchmarks and photographs of the adjacent properties.

6.15 Surface Drainage

Positive surface water drainage gradients should be provided within 5 feet of the buildings adjacent to the structures to direct surface water away from foundations and slabs towards suitable discharge facilities. Ponding of surface water should not be allowed on or adjacent to structures, slabs-on-grade, or pavements. Roof runoff should be directed away from foundation and slabs-on-grade. Roof runoff should be carried at least 5 feet away from foundations and slabs in closed conduits and directed to suitable discharge facilities.

6.17 Construction Observation

All grading and earthwork should be performed under the observation of our representative to check that the site is properly prepared, that selected fill materials are satisfactory, and that placement and compaction of fills is performed in accordance with our recommendations and the project specifications. Sufficient notification to us prior to earthwork is essential. The project plans and specifications should incorporate all recommendations contained in this report.

7.0 FOUNDATIONS

7.1 Footings

The proposed buildings may be supported on conventional continuous and/or isolated spread footings bearing on natural, undisturbed soil or compacted fill. All footings should have a minimum width of 18 inches and should extend at least

24 inches below lowest adjacent finished grade. Lowest adjacent finished grade may be taken as the bottom of interior slab-on-grade or the finished exterior grade, excluding landscape topsoil, whichever is lower.

Footings constructed in accordance with the above recommendations would be capable of supporting maximum allowable bearing pressures of 2,000 pounds per square foot (psf) for dead loads, 3,000 psf for combined dead and live loads, and 4,000 psf for all loads including wind or seismic. These allowable bearing pressures are based upon factors of safety of 3.0, 2.0, and 1.5 for dead, dead plus live, and seismic loads, respectively.

These maximum allowable bearing pressures are net values; the weight of the footing may be neglected for design purposes. All footings located adjacent to utility trenches should have their bearing surfaces below an imaginary 1:1 (horizontal:vertical) plane projected upward from the bottom edge of the trench to the footing.

All continuous footings should be reinforced with top and bottom steel to provide structural continuity and to help span local irregularities. Footing excavations should be kept moist by regular sprinkling with water to prevent desiccation. It is essential that we observe all footing excavations before reinforcing steel is placed.

We estimate that total foundation movement under dead plus live loads (250 to 325 kips) will be less than 1 inch, with post-construction differential movement of less than ½ inch between adjacent columns.

7.11 Lateral Loads

Lateral loads may be resisted by friction between the footings and the supporting subgrade. A maximum allowable frictional resistance of 0.25 may be used for design. In addition, lateral resistance may be provided by passive pressure acting against foundations poured neat against competent soil. We recommend that an allowable passive pressure based on an equivalent fluid pressure 300 pounds per cubic foot be used in design.

8.0 RETAINING WALLS

8.1 Lateral Earth Pressures

Any proposed retaining walls should be designed to resist lateral earth pressures from adjoining natural materials, backfill, and surcharge loads. Provided that adequate drainage is provided as recommended below, we recommend that walls restrained from movement at the top be designed to resist an equivalent fluid pressure of 45 pounds per cubic foot (pcf) plus a uniform pressure of 8H pounds per square foot, where H is the distance in feet between the bottom of the footing and the top of the retained soil. Restrained walls should also be designed to resist an additional uniform pressure equivalent to one-half of any surcharge loads

applied at the surface. Any unrestrained retaining walls with adequate drainage should be designed to resist an equivalent fluid pressure of 45 pcf plus one-third of any surcharge loads.

The above lateral earth pressures assume level backfill conditions and sufficient drainage behind the walls to prevent build-up of hydrostatic pressure from surface water infiltration and/or a rise in the ground water level. If adequate drainage is not provided, we recommend an equivalent fluid pressure of 40 pcf be added to the values recommended above for both restrained and unrestrained walls. Damp proofing of the walls should be included in areas where wall moisture and efflorescence would be undesirable.

8.2 Drainage

Adequate drainage may be provided by a subdrain system behind the 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 2 feet 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 TCMirafi 140N or equivalent. The upper 2 feet of wall backfill should consist of relatively impervious compacted on-site clayey soil. The subdrain outlet should be connected to a free-draining outlet or sump.

Miradrain, Geotech Drainage Panels, or Enkadrain drainage matting may be used for wall drainage as an alternative to the Class 2 Permeable Material or drain rock backfill. The drainage panel should be connected to the perforated pipe at the base of the wall.

8.3 Backfill

Backfill placed behind the walls should be compacted to at least 90 percent relative compaction using light compaction equipment. If heavy compaction equipment is used, the walls should be temporarily braced.

9.0 PAVEMENTS

9.1 Asphalt Concrete

We obtained a representative bulk sample of the surface soil from the parking area and performed an R-value test to provide data for pavement design. The results of the test are included in Appendix B and indicate an R-value of 23. Because surface soils vary across the site, we judged an R-value of 20 to be applicable for design. We estimated an R-value of 10 for the design of the pavements to be placed 3 to 6 feet below grade. These pavement recommendations are not suitable for asphalt concrete placed on native expansive soils found at 8 to 10 feet below the surface at

the site. We assume that Portland Cement Concrete Pavements (PCCP) will be used for the parking garages at this level. Recommendations for PCCP are presented in the following section. Using estimated traffic indices for various pavement-loading requirements, we developed the following recommended pavement sections based on Procedure 608 of the Caltrans Highway Design Manual, presented in Table 4, and Table 5.

Table 4 Recommended Below Grade Asphalt Concrete Pavement Design Alternatives
Pavement Components
Design R–Value = 10

General Traffic Condition	Design Traffic Index	Asphalt Concrete (Inches)	Aggregate Baserock* (Inches)	Total Thickness (Inches)
Automobile	4.0	2.5	7.0	9.5
Parking	4.5	2.5	8.5	11.0
Automobile	5.0	3.0	9.0	12.0
Parking Channel	5.5	3.0	11.0	14.0
Truck Access &	6.0	3.5	11.5	15.0
Parking Areas	6.5	4.0	13.0	17.0

*Caltrans Class 2 aggregate base; minimum R-value equal to 78.

Table 5. Recommended At Grade Asphalt Concrete Pavement Design Alternatives
Pavement Components
Design R–Value = 20

General Traffic Condition	Design Traffic Index	Asphalt Concrete (Inches)	Aggregate Baserock* (Inches)	Total Thickness (Inches)
Automobile	4.0	2.5	5.5	8.0
Parking	4.5	2.5	7.0	9.5
Automobile	5.0	3.0	7.0	10.0
Parking Channel	5.5	3.0	9.0	12.0
Truck Access &	6.0	3.5	9.5	13.0
Parking Areas	6.5	4.0	10.5	14.5

*Caltrans Class 2 aggregate base; minimum R-value equal to 78.

The traffic indices used in our pavement design are considered reasonable values for the proposed development and should provide a pavement life of approximately 20 years with a normal amount of flexible pavement maintenance. Because the native soils at the site are moderately to highly expansive, some increased maintenance and reduction in pavement life can be expected. The traffic parameters used for design were selected based on engineering judgment and not on information furnished to us such as an equivalent wheel load analysis or a traffic study.

9.2 Portland Cement Concrete Pavements

Recommendations for Portland Cement Concrete (PCC) pavements are presented below in Table 6 . These recommendations may be used for the proposed below-grade garage pavements and exterior pavements. Since the expected Average Daily Truck Traffic (ADTT) is not known at this time, we have provided alternatives for minimum pavement thickness. An allowable ADTT should be chosen that is greater than expected for the development. Since we do not anticipate substantial truck traffic in the garages, an allowable ADTT of 0.8 would be adequate for these areas, in our opinion.

Table 6. Recommended Minimum PCC Pavement Thickness

Allowable ADTT	Minimum PCC Pavement Thickness (inches)
0.8	5
13	5½
130	6

Our design is based on an R-value of 5 and a 28-day unconfined compressive strength for concrete of at least 3,500 pounds per square inch. In addition, our design assumes that pavements are restrained laterally by a concrete shoulder or curb and that all PCC pavements are underlain by at least 6 inches of Class 2 aggregate base or 6 inches of clean ¾-inch crushed rock, consolidated in-place. We recommend that adequate construction and control joints be used in design of the Portland Cement Concrete pavements to control the cracking inherent in this construction.

10.0 LIMITATIONS

This report has been prepared for the sole use of The Castle Group, specifically for design of the proposed two to three-story residential structures to be located at 1193 Lick Avenue San Jose, California. The opinions presented in this report have been formulated in accordance with generally accepted geotechnical engineering practices that exist in the San Francisco Bay Area at the time this report was prepared. No other warranty, expressed or implied, is made or should be inferred. We are not responsible for data presented by others.

The opinions, conclusions and recommendations contained in this report are based upon information obtained from explorations at widely separated locations, site reconnaissance, review of data made available to us, and upon local experience and engineering judgment. The recommendations presented in this report are based on the assumption that soil and geologic conditions at or between borings do not deviate substantially from those encountered. In addition, geotechnical issues may arise that are not apparent at this time.

The geotechnical engineer should be retained to review final plans and specifications when they are available to verify these documents are consistent with the intent of the geotechnical recommendations. The recommendations provided in this report are based on the assumption that we will be retained to provide observation and testing services during construction in order to evaluate compliance with our recommendations. If we are not retained for these services, Lowney Associates cannot assume any responsibility for any potential claims that may arise during or after construction as a result of misuse or misinterpretation of Lowney Associates' report by others. Furthermore, Lowney Associates will cease to be the Geotechnical-Engineer-of-Record at the time another consultant is retained for follow-up service to this report.

The opinions presented in this report are valid as of the present date for the property evaluated. Changes in the condition of a property can occur with the passage of time, whether due to natural processes or the works of man, on this or adjacent properties. In addition, changes in applicable standards of practice can occur, whether from legislation or the broadening of knowledge. Accordingly, the opinions presented in this report may be invalidated, wholly or partially, by changes outside of our control. Therefore, this report is subject to review and should not be relied upon after a period of three years, nor should it be used, or is it applicable, for any property other than that evaluated.

11.0 REFERENCES

11.1 Literature

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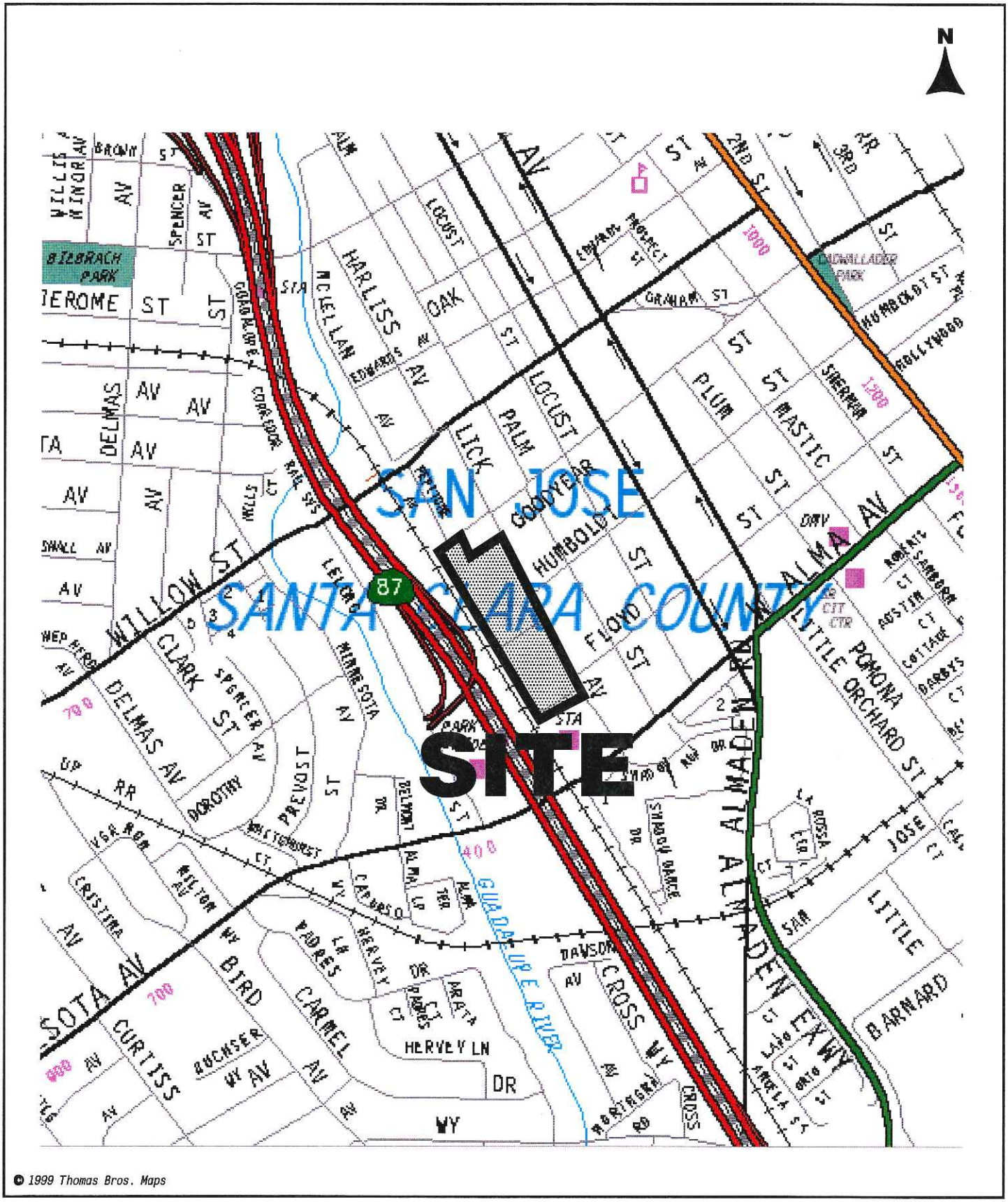


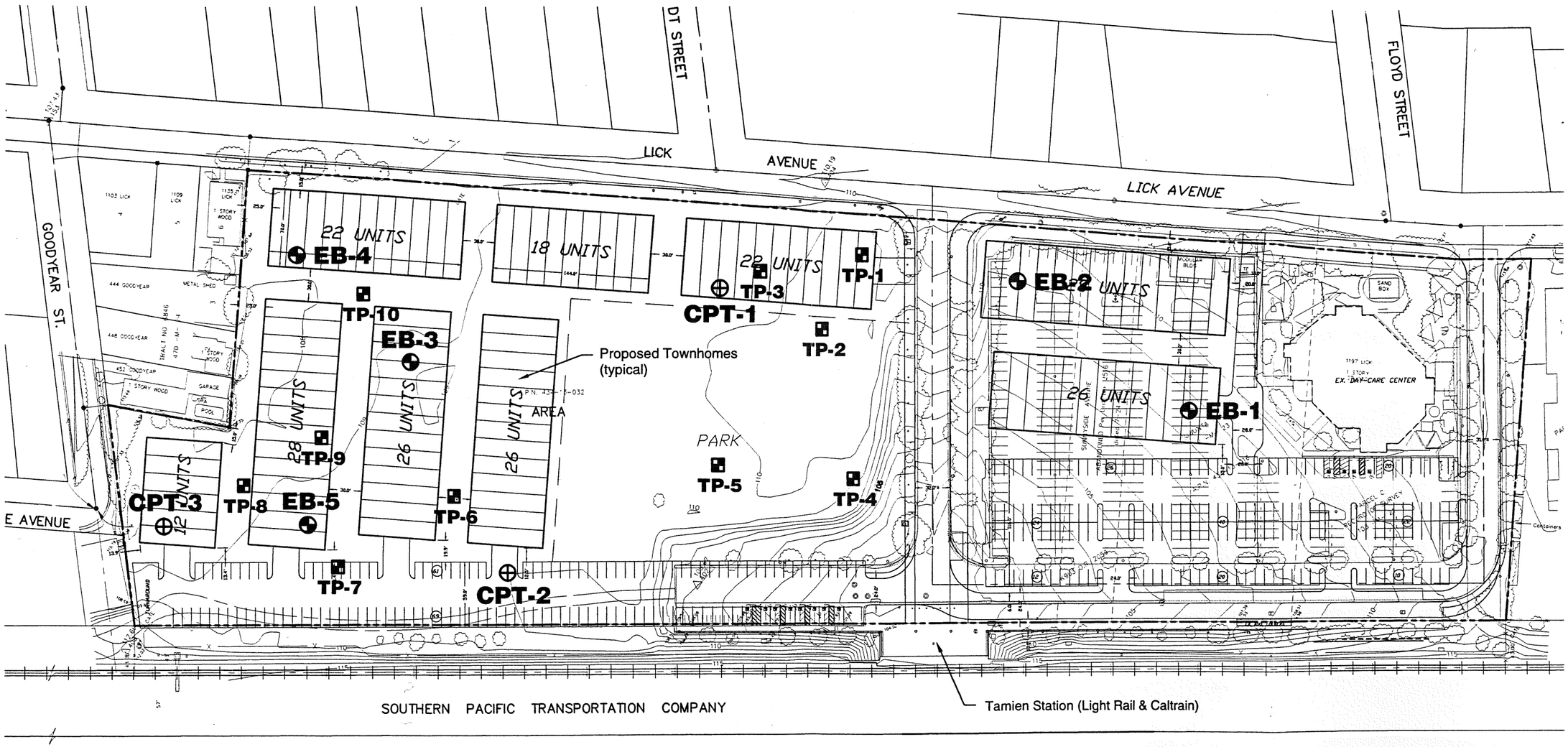
3/01*EB

VICINITY MAP

1193 LICK AVENUE
TAMIEN STATION TOWNHOMES
San Jose, California

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 1
113-11P



0 100
Scale feet

LEGEND

- ⊕ - Approximate location of exploratory boring
- ⊕ - Approximate location of cone pentration test
- ■ - Approximate location of previous test pit (Lowney Associates 11/00)

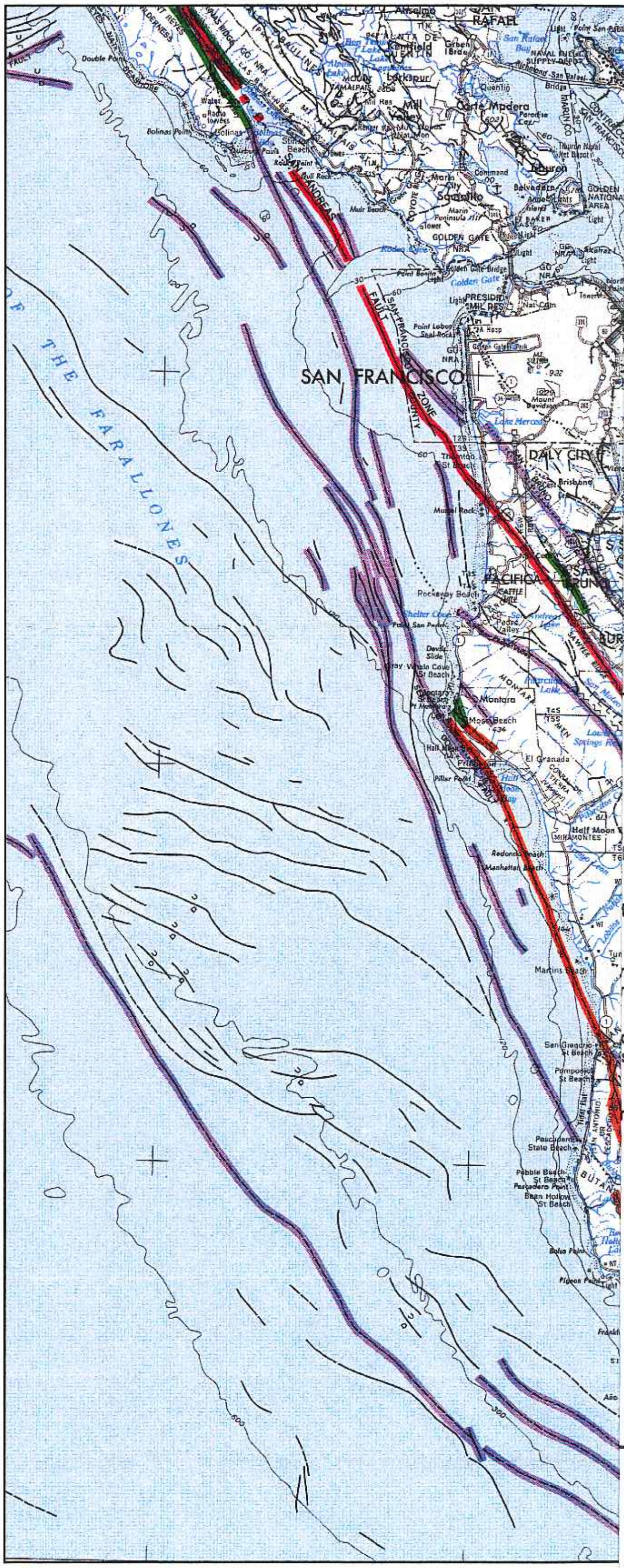
Base by Charles W. Davidson Company, dated 3/26/01.

SITE PLAN
1193 LICK AVENUE
TAMIEN STATION TOWNHOMES
San Jose, California

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 2
113-11P

3/01*EB



Years Before Present (Approx.)	Fault Symbol	Recency of Movement on Land Offshore[1]	DESCRIPTION
Historic (to 200)			Displacement during historic time (e.g. San Andreas fault 1906). Includes areas of known fault creep.
Holocene (200 – 10,000)			Displacement during Holocene time.[2]
10,000 – 700,000			Faults showing evidence of displacement during late Quaternary time.[3,4]
Pleistocene (700,000 – 2,000,000)			Quaternary (undifferentiated) faults — most faults in this category show evidence of displacement during the last 2,000,000 years; possible exceptions are faults which displace rocks of undifferentiated Plio-Pleistocene age.
5,000,000			Fault showing evidence of no displacement during Quaternary time or faults without recognized Quaternary displacement.

e map is a composite of part the San Francisco 1:250,000 e map (reference code 37 122–A1–TF–250–00, 1980) and San Jose 1:250,000 scale map (reference code 120–A1–TF–250–00, 1969). For cartographic details, refer these maps. Bathymetric information is not intended navigational purposes.

nsverse Mercator Projection 10,000–meter Universal nsverse Mercator grid, zone 10.

or corrections and additions to culture by California sion of Mines and Geology 1987.

m: Bortugno & others (1991)

0 10 20 Miles

Scale 1:500,000

Note: Some faults highlighted in purple are not considered

REGIONAL FAULT MAP

1193 LICK AVENUE

TAMIEN STATION TOWNHOMES

San Jose, California

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vironmental/Geotechnical/Engineering Services

FIGURE 3

113-11P

Division of Mines and Geology, James F. Davis, State Geologist

3/01*EB

APPENDIX A

FIELD INVESTIGATION

The field investigation consisted of a surface reconnaissance and a subsurface exploration program using truck-mounted, hollow-stem auger drilling equipment, as well as conventional Cone Penetration equipment (CPT). Five 8-inch-diameter exploratory borings were drilled on February 26 and 27, 2001 to a maximum depth of 4 ½ feet. Three CPT's were advanced between 30 to 42 feet below the ground surface. The approximate locations of the exploratory borings and CPT's are shown on the Site Plan, Figure 2. The soils encountered were continuously logged in the field by our representative and described in accordance with the Unified Soil Classification System (ASTM D2488). The logs of the borings, and CPT's, as well as a key to the classification of the soil, are included as part of this appendix.

The locations of borings were approximately determined by pacing from site boundaries. Northings and Eastings were obtained from portable Global Positioning Systems (GPS) hand-held equipment. Elevations of the borings were determined from the contours provided by Charles Davidson Company. The locations of the borings and CPT's, should be considered accurate only to the degree implied by the method used.

Representative soil samples were obtained from the borings at selected depths. All samples were returned to our laboratory for evaluation and appropriate testing. The standard penetration resistance blow counts were obtained by dropping a 140-pound hammer through a 30-inch free fall. The 2-inch O.D. split-spoon sampler was driven 18 inches and the number of blows was recorded for each 6 inches of penetration (ASTM D1586). 2.5-inch I.D. samples were obtained using a Modified California Sampler driven into the soil with the 140-pound hammer previously described Unless otherwise indicated, the blows per foot recorded on the boring log represent the accumulated number of blows required to drive the last 12 inches. The various samplers are denoted at the appropriate depth on the boring logs and symbolized as shown on Figure A-1.

Field tests included an evaluation of the undrained shear strength of soil samples using a Torvane device, and the unconfined compressive strength of the soil samples using a pocket penetrometer device. The results of these tests are presented on the individual boring logs at the appropriate sample depths.

The attached boring and CPT logs and related information depict subsurface conditions at the locations indicated and on the date designated on the logs. Subsurface conditions at other locations may differ from conditions occurring at these boring locations. The passage of time may result in altered subsurface conditions due to environmental changes. In addition, any stratification lines on the logs represent the approximate boundary between soil types and the transition may be gradual.

* * * * * * * * * * * * *

PRIMARY DIVISIONS			SOIL TYPE	SECONDARY DIVISIONS
COARSE GRAINED SOILS (MORE THAN HALF OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE)	GRAVELS (MORE THAN HALF OF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE)	CLEAN GRAVELS (Less than 5% Fines)	GW	Well graded gravels, gravel–sand mixtures, little or no fines
			GP	Poorly graded gravels or gravel–sand mixtures, little or no fines
		GRAVEL WITH FINES	GM	Silty gravels, gravel–sand–silt mixtures, plastic fines
			GC	Clayey gravels, gravel–sand–clay mixtures, plastic fines
	SANDS (MORE THAN HALF OF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE)	CLEAN SANDS (Less than 5% Fines)	SW	Well graded sands, gravelly sands, little or no fines
			SP	Poorly graded sands or gravelly sands, little or no fines
		SANDS WITH FINES	SM	Silty sands, sand–silt–mixtures, non–plastic fines
			SC	Clayey sands, sand–clay mixtures, plastic fines
FINE GRAINED SOILS (MORE THAN HALF OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE)	SILTS AND CLAYS (LIQUID LIMIT IS LESS THAN 50 %)		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
			OL	Organic silts and organic silty clays of low plasticity
	SILTS AND CLAYS (LIQUID LIMIT IS GREATER THAN 50 %)		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
			CH	Inorganic clays of high plasticity, fat clays
			OH	Organic clays of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS			PT	Peat and other highly organic soils

DEFINITION OF TERMS

U.S. STANDARD SIEVE SIZE: 200, 40, 10, 4

CLEAR SQUARE SIEVE OPENINGS: 3/4", 3", 12"

SILTS AND CLAY	SAND			GRAVEL		COBBLES	BOULDERS
	FINE	MEDIUM	COARSE	FINE	COARSE		

GRAIN SIZES

TERZAGHI SPLIT SPOON STANDARD PENETRATION

MODIFIED CALIFORNIA

D&M UNDERWATER SAMPLER

SHELBY TUBE

NO RECOVERY

SAMPLERS

SAND AND GRAVEL	BLOWS/FOOT*
VERY LOOSE	0–4
LOOSE	4–10
MEDIUM DENSE	10–30
DENSE	30–50
VERY DENSE	OVER 50

RELATIVE DENSITY

SILTS AND CLAYS	STRENGTH+	BLOWS/FOOT*
VERY SOFT	0–1/4	0–2
SOFT	1/4–1/2	2–4
MEDIUM STIFF	1/2–1	4–8
STIFF	1–2	8–16
VERY STIFF	2–4	16–32
HARD	OVER 4	OVER 32

CONSISTENCY

*Number of blows of 140 pound hammer falling 30 inches to drive a 2–inch O.D. (1–3/8 inch I.D.) split spoon (ASTM D–1586).
+Unconfined compressive strength in tons/sq.ft. as determined by laboratory testing or approximated by the standard penetration test (ASTM D–1586), pocket penetrometer, torvane, or visual observation.

KEY TO EXPLORATORY BORING LOGS

Unified Soil Classification System (ASTM D–2487)

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FIGURE A–1

EXPLORATORY BORING: EB-1

DRILL RIG: MOBILE B-40
BORING TYPE: 8-INCH HOLLOW-STEM AUGER
LOGGED BY: GEI
START DATE: 2-26-01 FINISH DATE: 2-26-01

PROJECT NO: 113-11P
PROJECT: 1193 LICK AVENUE TAMIEN TOWNHOMES
LOCATION: SAN JOSE, CA
COMPLETION DEPTH: 41.5 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

Undrained Shear Strength (ksf): ○ Pocket Penetrometer; △ Torvane; ● Unconfined Compression; ▲ U-U Triaxial Compression

ELEVATION (FT)	DEPTH (FT)	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE
108.5		SURFACE ELEVATION: 109 FT. (+/-)						
108.3	0	2½ inches asphalt concrete over 9½ inches aggregate base						
107.5		**CLAYEY SAND WITH GRAVEL (SC) [FILL]** medium dense, moist, reddish brown, fine to coarse sand, fine gravel	SC, FILL	16		5	116	
106.3		**SANDY CLAY (CL)** medium stiff, moist, brown, fine to medium sand, trace fine to coarse gravel, low plasticity Plasticity Index = 8, Liquid Limit = 26	CL	12		21	102	
	5	fine sand layers		5		30		
100.5		**SILTY CLAY (CH)** medium stiff, moist, dark brown, trace fine sand, moderate to high plasticity	CH	13		36	79	
	10	stiff, grades to dark gray		23		28	92	
	15			34		27	94	
	20			22		31	90	
	25	wet		15		32	83	
78.5	30							

Continued Next Page

GROUND WATER OBSERVATIONS:
▽: FREE GROUND WATER MEASURED DURING DRILLING AT 21.5 FEET

Northing: 1,939,235
Easting: 6,159,324

LA CORP.GDT 4/13/01 MV* FLL

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EXPLORATORY BORING: EB-1 Cont'd

DRILL RIG: MOBILE B-40
BORING TYPE: 8-INCH HOLLOW-STEM AUGER
LOGGED BY: GEI
START DATE: 2-26-01 FINISH DATE: 2-26-01

PROJECT NO: 113-11P
PROJECT: 1193 LICK AVENUE TAMIEN TOWNHOMES
LOCATION: SAN JOSE, CA
COMPLETION DEPTH: 41.5 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	Undrained Shear Strength (ksf)
78.5	30		**SILTY CLAY (CH)** medium stiff, moist, dark brown, trace fine sand, moderate to high plasticity increasing fine sand		20		36	89		
	35			CH	26		25	101		
	40		color grades to brown	CL	24		22	105		
67.0			Bottom of Boring at 41½ feet							
	45									
	50									
	55									
	60									

Undrained Shear Strength (ksf): ○ Pocket Penetrometer; △ Torvane; ● Unconfined Compression; ▲ U-U Triaxial Compression; 1.0 2.0 3.0 4.0

GROUND WATER OBSERVATIONS:
▽: FREE GROUND WATER MEASURED DURING DRILLING AT 21.5 FEET

Northing: 1,939,235
Easting: 6,159,324

LA CORP.GDT 4/13/01 MV* FLL

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

EXPLORATORY BORING: EB-2

DRILL RIG: MOBILE B-42
BORING TYPE: 8-INCH HOLLOW-STEM AUGER
LOGGED BY: GEI
START DATE: 2-26-01 FINISH DATE: 2-26-01

PROJECT NO: 113-11P
PROJECT: 1193 LICK AVENUE TAMIEN TOWNHOMES
LOCATION: SAN JOSE, CA
COMPLETION DEPTH: 31.5 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

Undrained Shear Strength (ksf): ○ Pocket Penetrometer; △ Torvane; ● Unconfined Compression; ▲ U-U Triaxial Compression

ELEVATION (FT)	DEPTH (FT)	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE
		SURFACE ELEVATION: 109 FT. (+/-)						
109.0	0	3½ inches asphalt concrete over 10 inches aggregate base						
108.7								
107.9		**SANDY CLAY (CL)** hard, moist, brown, fine to medium, some fine to coarse gravel, low plastcity	CL	33		12	116	
104.3	5	**GRAVELLY SAND (SP)** loose, dry, dark gray and brown, fine to coarse sand, fine to coarse gravel	SP	40		13		
101.5		**SILTY CLAY (CH)** medium stiff, moist, gray-brown, trace fine sand, moderate to high plasticity	CH	11		4		
	10			6		31		
				14		34	85	
	15	color grades to gray, very stiff		27		28	92	
	20	rusty mottles		28		28	92	
	25	color grades to bluish gray, some fine sand, stiff		20		39	83	
	30			19		39	80	
77.5		Bottom of Boring at 31½ feet						

GROUND WATER OBSERVATIONS:
NO FREE GROUNDWATER ENCOUNTERED

Northing: 1,939,438
Easting: 6,159,354

LA CORP.GDT 4/13/01 MV* FLL

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

EXPLORATORY BORING: EB-3

DRILL RIG: MOBILE B-53
BORING TYPE: 8-INCH HOLLOW-STEM AUGER
LOGGED BY: GEI
START DATE: 2-27-01 FINISH DATE: 2-27-01

PROJECT NO: 113-11P
PROJECT: 1193 LICK AVENUE TAMIEN TOWNHOMES
LOCATION: SAN JOSE, CA
COMPLETION DEPTH: 20.0 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

Undrained Shear Strength (ksf): ○ Pocket Penetrometer; △ Torvane; ● Unconfined Compression; ▲ U-U Triaxial Compression

ELEVATION (FT)	DEPTH (FT)	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE
109.0	0	SURFACE ELEVATION: 109 FT. (+/-)						
		SILTY CLAY (CL) stiff, moist, dark brown, some fine sand, trace fine gravel, low plasticity	CL	59		13	119	
				21		12	105	
104.0	5	**CLAYEY SAND (SC)** loose, moist, brown, fine to medium sand	SC	4		19		
		medium dense		14		22	101	
98.5	10	**SILTY SAND (SM)** medium dense, moist, reddish brown, fine to coarse sand, fine gravel	SM	30		6		
	15			41		6		
		color grades to bluish gray		24		11		
89.0	20	Bottom of Boring at 20 feet						
	25							
	30							

GROUND WATER OBSERVATIONS:
▽: FREE GROUND WATER MEASURED DURING DRILLING AT 14.5 FEET

Northing: 1,939,887
Easting: 6,159,019

LA CORP GDT 4/13/01 MV* FLL

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

EXPLORATORY BORING: EB-4

DRILL RIG: MOBILE B-53
BORING TYPE: 8-INCH HOLLOW-STEM AUGER
LOGGED BY: GEI
START DATE: 2-27-01 FINISH DATE: 2-27-01

PROJECT NO: 113-11P
PROJECT: 1193 LICK AVENUE TAMIEN TOWNHOMES
LOCATION: SAN JOSE, CA
COMPLETION DEPTH: 30.0 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

SURFACE ELEVATION: 109 FT. (+/-)

ELEVATION (FT)	DEPTH (FT)	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE
108.5	0	**SANDY CLAY (CL)** very stiff, moist, dark brown, some fine sand, some fine gravel, low plasticity	CL	41		12	117	
	5	stiff		32		19	108	
		decreasing gravel		15		25	95	
99.5	10	**SILTY CLAY (CH)** stiff, moist, light gray and brown, moderate to high plasticity	CH	7		31	88	
				19				
	15			22		29	90	
	20	color grades to blue gray		33		31	85	
	25	wet		20		35	87	
78.5	30	medium stiff, color grades to brown and gray with rusty mottles, increasing fine sand		22		35	85	
		Bottom of Boring at 30 feet						

Undrained Shear Strength (ksf)
○ Pocket Penetrometer
△ Torvane
● Unconfined Compression
▲ U-U Triaxial Compression
1.0 2.0 3.0 4.0

GROUND WATER OBSERVATIONS:
NO FREE GROUNDWATER ENCOUNTERED

Northing: 1,940,025
Easting: 6,159,046

LA CORP.GDT 4/13/01 MV* FLL

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

EXPLORATORY BORING: EB-5

DRILL RIG: MOBILE B-53
BORING TYPE: 8-INCH HOLLOW-STEM AUGER
LOGGED BY: GEI
START DATE: 2-27-01 FINISH DATE: 2-27-01

PROJECT NO: 113-11P
PROJECT: 1193 LICK AVENUE TAMIEN TOWNHOMES
LOCATION: SAN JOSE, CA
COMPLETION DEPTH: 20.0 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

Undrained Shear Strength (ksf): ○ Pocket Penetrometer; △ Torvane; ● Unconfined Compression; ▲ U-U Triaxial Compression

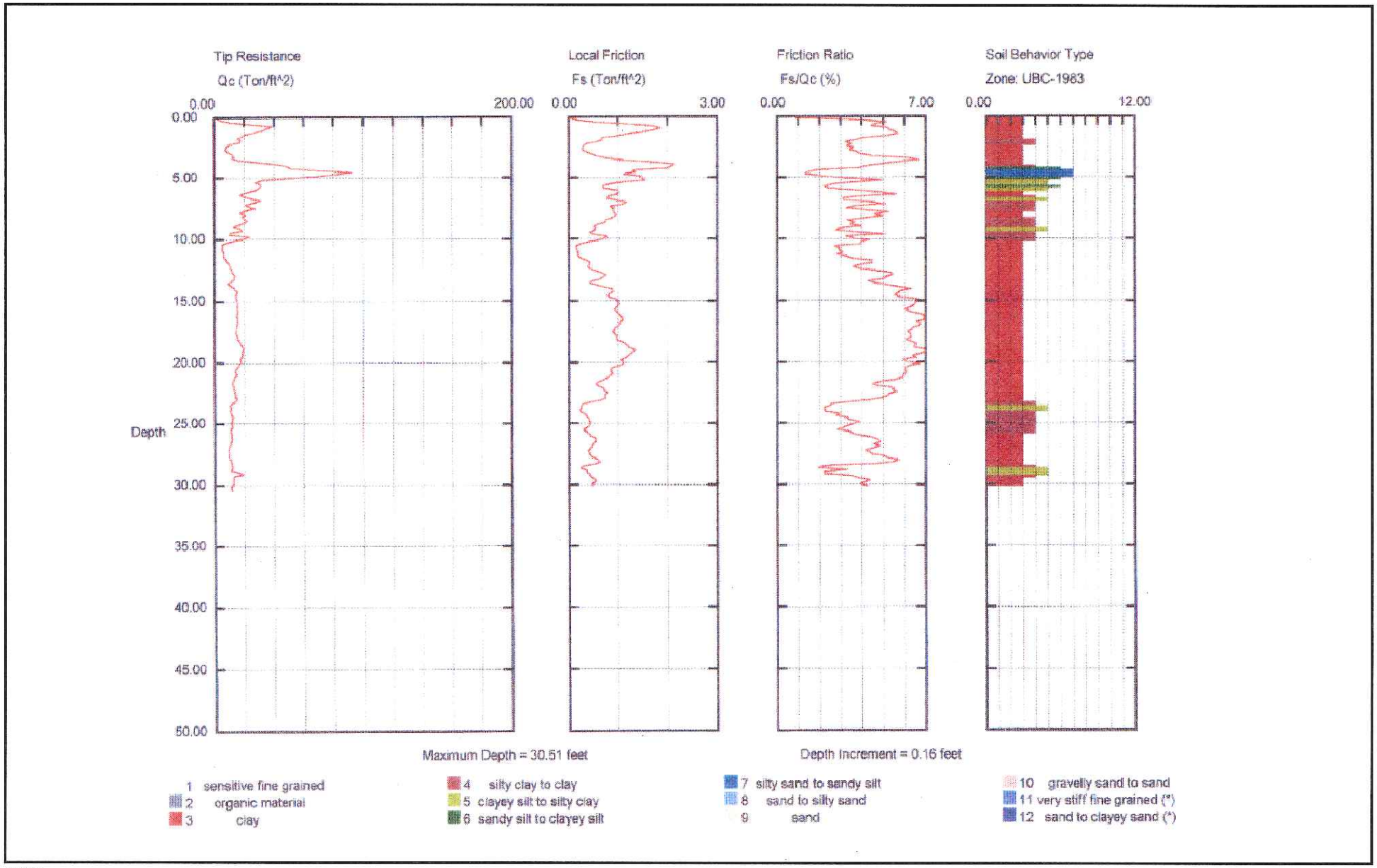
ELEVATION (FT)	DEPTH (FT)	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	Undrained Shear Strength (ksf)
		SURFACE ELEVATION: 109 FT. (+/-)							
109.0	0	**GRAVELLY SAND (SP) [FILL]** medium dense, moist, dark gray, fine to coarse sand, fine to coarse gravel	SP, FILL						
107.3		**CLAYEY SAND (SC)** loose to medium dense, moist, brown to light brown, fine to coarse sand, trace fine gravel		40		7			
				34		8	115		△ ○
	5		SC						
				8		17			
				15		20			△ ○
99.0	10	**SILTY CLAY (CH)** stiff, moist, brown with gray mottles, high plasticity							
		Plasticity Index = 36, Liquid Limit = 61		18		33	88		
				24		31	86		△ ○
	15		CH						
				19		33	87		△ ○
89.0	20	Bottom of Boring at 20 feet							
	25								
	30								

GROUND WATER OBSERVATIONS:
NO FREE GROUNDWATER ENCOUNTERED

Northing: 1,939,901
Easting: 6,158,837

LA_CORP.GDT 4/13/01 MV* FLL

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

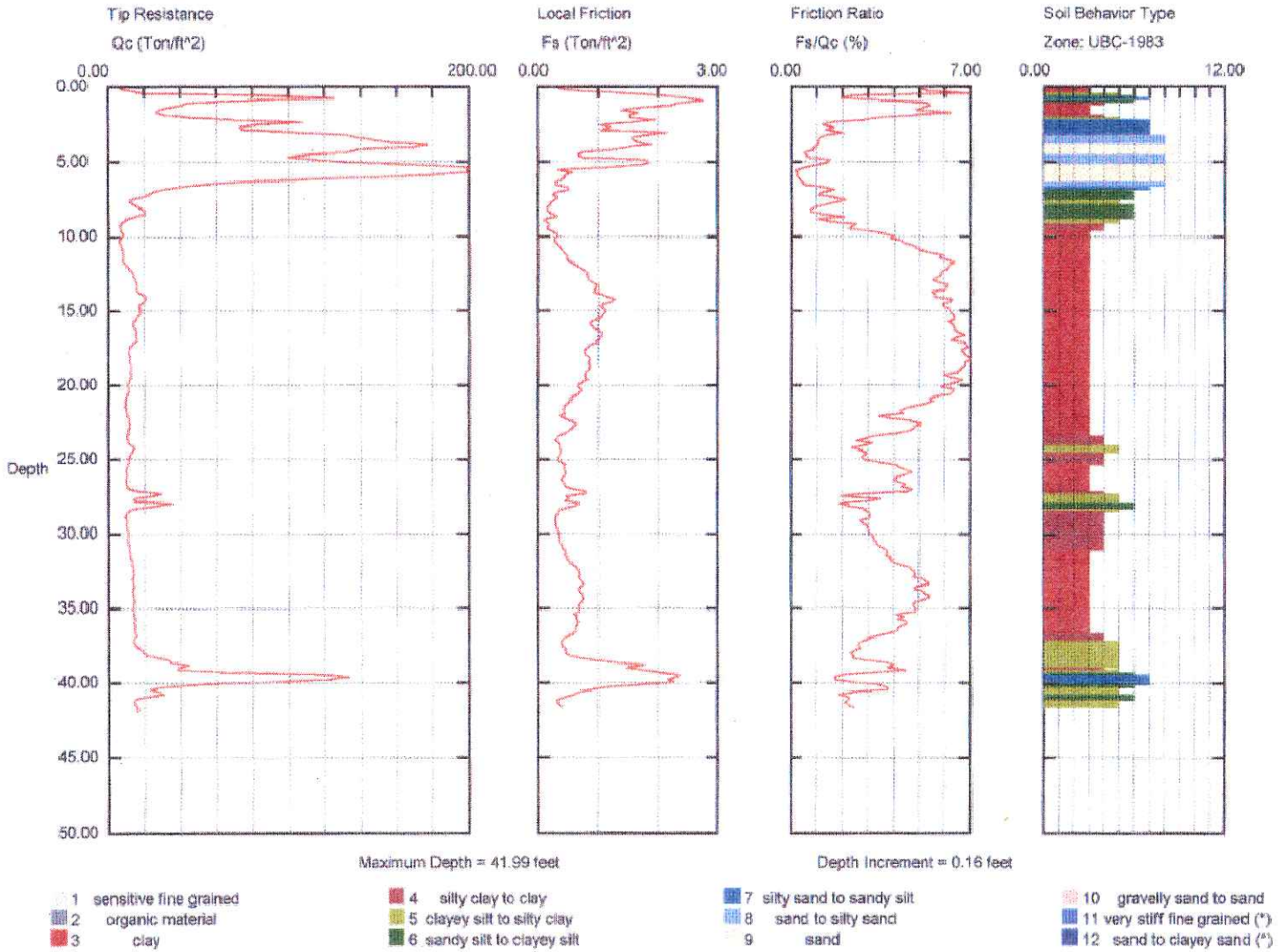


3/01*EB

CONE PENETRATION TEST - CPT-1

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

CPT-1
113-11P

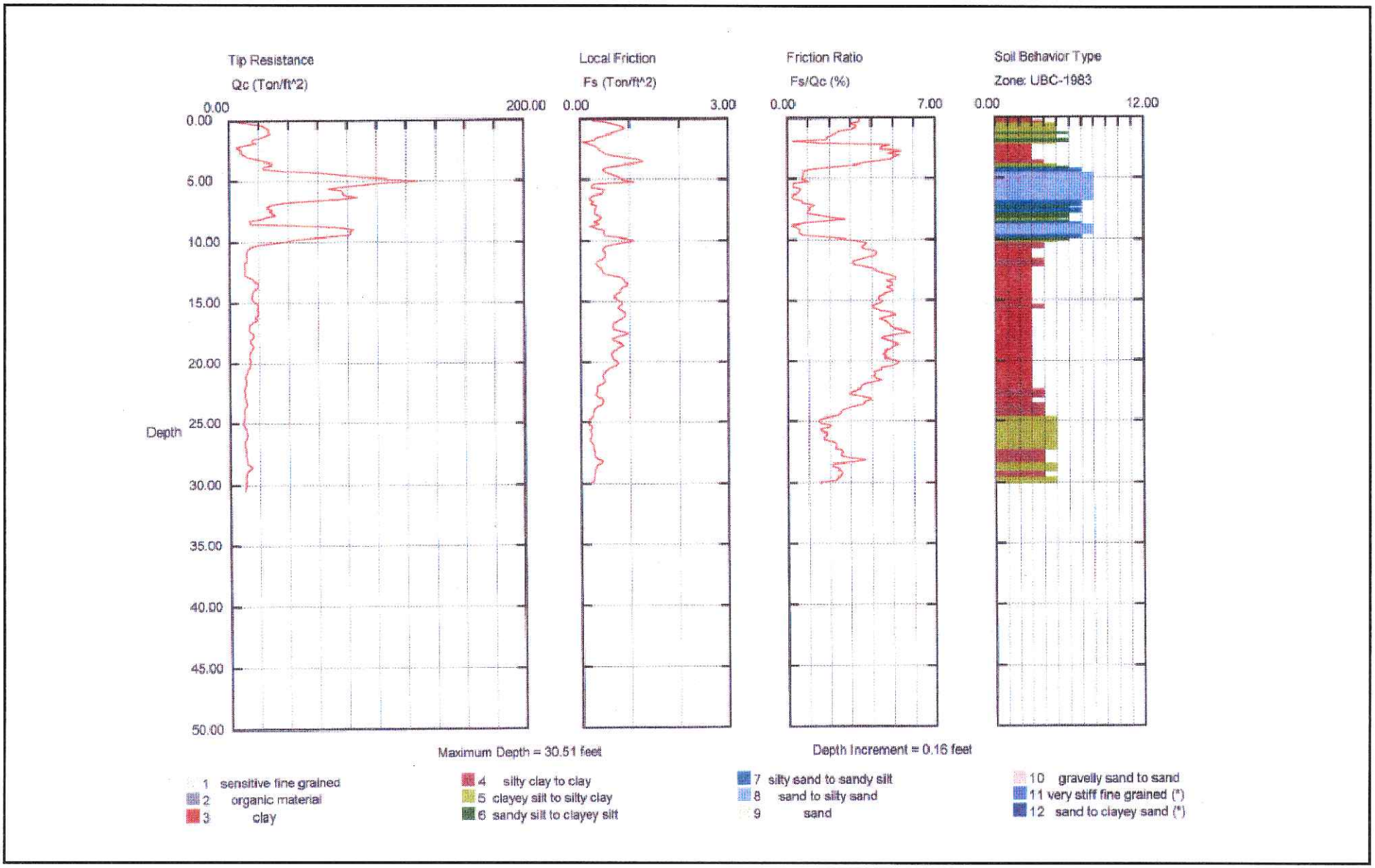


3/01*EB

CONE PENETRATION TEST - CPT-2

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

CPT-2
113-11P



3/01*EB

CONE PENETRATION TEST - CPT-3

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

CPT-3
113-11P

APPENDIX B

LABORATORY PROGRAM

The laboratory testing program was directed toward a quantitative and qualitative evaluation of the physical and mechanical properties of the soils underlying the site and to aid in verifying soil classification.

Moisture Content: The natural water content was determined (ASTM D2216) on 42 samples of the materials recovered from the borings. These water contents are recorded on the boring logs at the appropriate sample depths.

Dry Densities: In place dry density determinations (ASTM D2937) were performed on 31 samples to measure the unit weight of the subsurface soils. Results of these tests are shown on the boring logs at the appropriate sample depths.

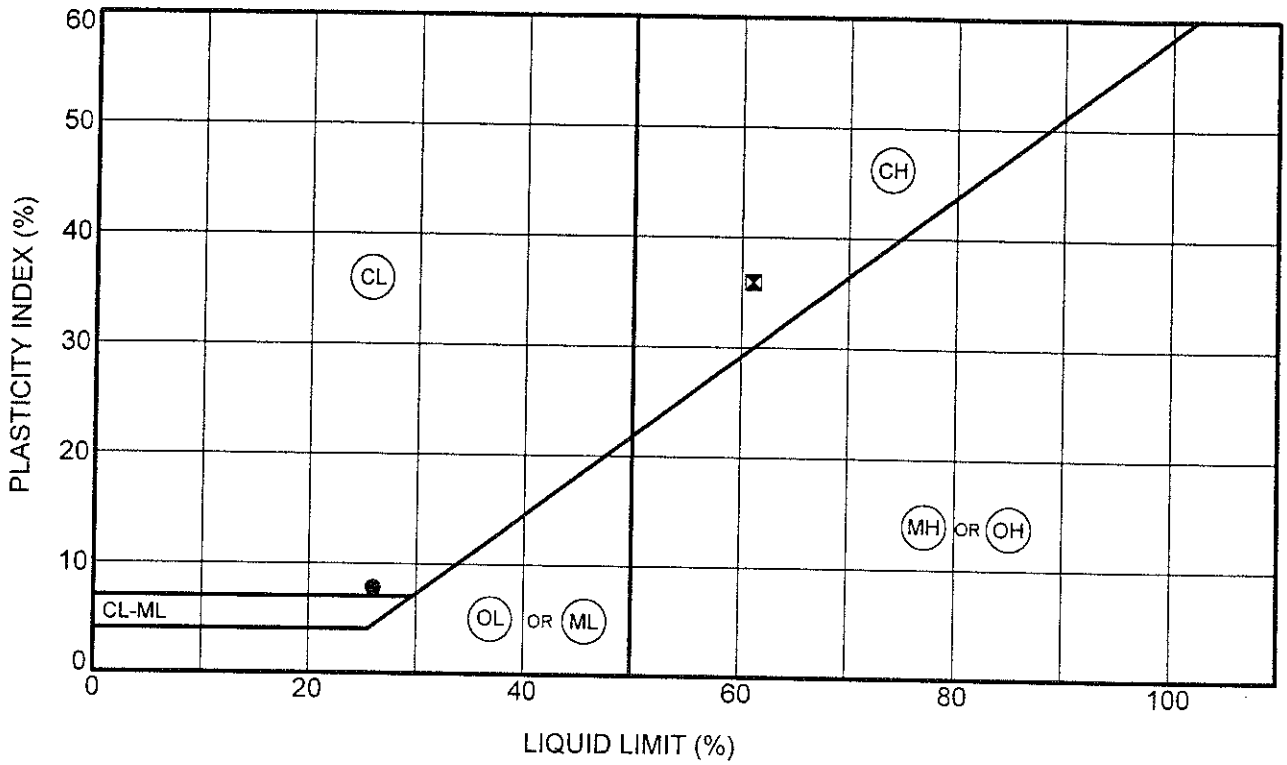
Plasticity Index: Plasticity Index determinations (ASTM D4318) were performed on two samples of the subsurface soils to measure the range of water contents over which these materials exhibit plasticity. The Plasticity Index was used to classify the soil in accordance with the Unified Soil Classification System and to evaluate the soil expansion potential. Results of these tests are presented on Figure B-1 and on the logs of the borings at the appropriate sample depths.

R-Value: A R-value resistance test (California Test Method No. 301) was performed on a representative sample of the surface soils at the site to provide data for the pavement design. The test indicated an R-value of 23 at an exudation pressure of 300 pounds per square inch. The results of the test are presented on Table B-1.

Table B-1. Results of R-Value Tests

Sample	Description of Material	Water Content (%)	Dry Density (pcf)	Exudation Pressure (psi)	"R" value	Expansion Pressure (psf)
EB-4 0-1'	Sandy Clay	17	112.5	170	3	0
		14	118.7	217	11	4
		13	123.7	317	25	43

* * * * * * * * * * * * *



Symbol	Boring No.	Depth (ft.)	Natural Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve	Unified Soil Classification Description
●	EB-1	4.0	21	26	18	8		SANDY CLAY (CL)
⊠	EB-5	12.0	33	61	25	36		SILTY CLAY (CH)

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

PLASTICITY CHART AND DATA

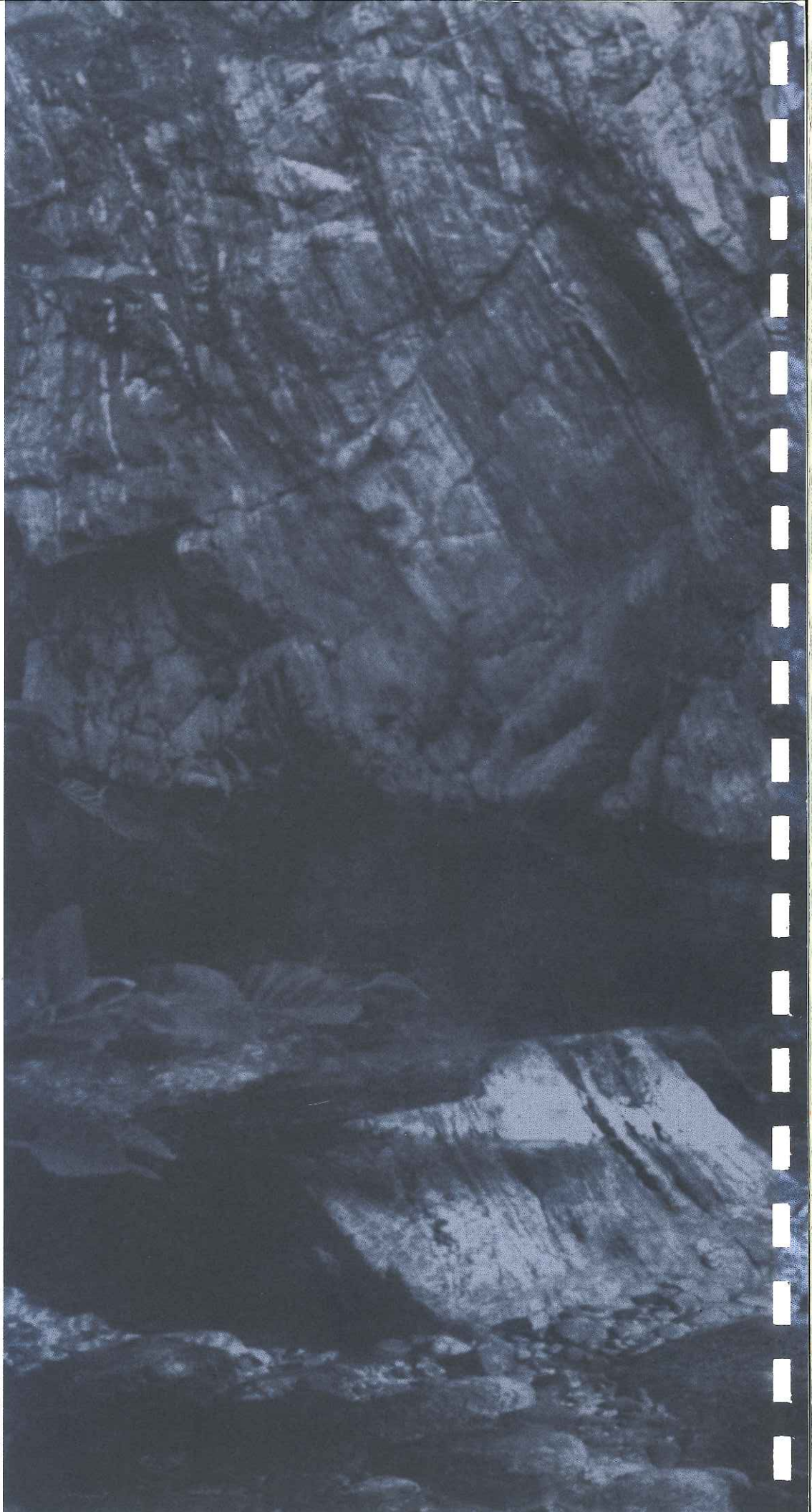
Project: 1193 LICK AVENUE TAMIEN TOWNHOMES

Location: SAN JOSE, CA

Project No.: 113-11P

LA / ORP.GDT 4/12/01 MV-FILL

OWNEY ASSOCIATES
vironmental/Geotechnical/Engineering Services



CITY OF SAN JOSE
CAPITAL OF SILICON VALLEY

Phase I Environmental Site Assessment

APN 434-13-032 (partial)

San Jose, CA

Prepared for
Ms. Monica Kavanaugh
Real Estate Division
General Services Department

By the

Environmental Services Department
City of San Jose

February 5, 2010

PHASE I ENVIRONMENTAL SITE ASSESSMENT

APN 434-13-032 (partial)
Southwest of Goodyear Street and Lick Avenue

San Jose, CA

EXECUTIVE SUMMARY

BACKGROUND

The Environmental Services Department (ESD) has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-05 for a portion of Assessor's Parcel Number (APN) 434-13-032 in San Jose. The subject site is located southwest of the intersection of Goodyear Street and Lick Avenue in San Jose and north of the Tamien Light Rail Station parking lot. The subject site is located on approximately 3.6-acres in the northern portion of APN 434-13-032. The subject site is currently undeveloped. The surrounding area is mostly residential with some commercial and light industrial businesses.

FINDINGS AND RECOMMENDATIONS

Historical research for this assessment indicated that a cannery was located on the subject site from 1919 to the early 1980s. The cannery consisted of numerous buildings, structures and improvements and extended south of the subject site. After closure, the cannery was occupied by several commercial/industrial tenants until purchased by the Santa Clara Valley Transportation Authority in 1988, along with the property to the south for construction of the Tamien Light Rail Station. The cannery buildings were demolished in 1989 and the subject site has remained vacant, while the property to the south was developed as a parking lot for the Light Rail Station. A 500-gallon underground storage tank containing gasoline was removed from the central portion of the site in 1989 and was found to have leaked. Subsequent investigations between 1990 and 1997 indicate some residual gasoline contamination in the soil and groundwater remain, however the concentrations were determined to be below levels of regulatory concern and the case received regulatory closure. However, due to the change in site use from industrial to park, the local leaking underground tank oversight regulatory agency should be contacted to determine if there will be any additional requirements due to site use change.

The site is located in an area of San Jose that has been developed for over 100 years with residences and businesses. Regulatory database and historical document research did not indicate any neighboring properties that appear to pose a significant threat of contaminating the subject site. The

site visit did not show any obvious signs of contamination, although the ground surface was obscured with heavy vegetation. The current owner (VTA) did not provide the City any reports on previous environmental investigations of the subject property.

Due to the over 60 years of cannery operations, the rail spur and the lack of any previous studies or information on historic hazardous materials storage and use, there is a concern that the historical cannery site uses may have adversely impacted the subject site. As a result, ESD recommends that a Phase II investigation be performed.

INTRODUCTION

PURPOSE

At the request of the Real Estate Division of the Department of Public Works, the Environmental Services Department has performed a Phase I Environmental Site Assessment (ESA) for the consideration of acquisition for a property located on a portion of Assessor's Parcel Number 434-13-032, southwest of the intersection of Goodyear Street and Lick Avenue.

This report was prepared using guidelines presented in the document titled "STANDARD PRACTICE FOR ENVIRONMENTAL ASSESSMENTS: PHASE I ENVIRONMENTAL SITE ASSESSMENT PROCESS" (The American Society for Testing of Materials ASTM, E1527-05) and in accordance with the federal EPA "All Appropriate Inquiries" (AAI) final rule effective November 1, 2006. The report was prepared in accordance with general accepted standards for site assessments and has been modified to meet local conditions and concerns. Under EPA and ASTM standards, the Phase I Investigation is "intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability…" and to "identify conditions indicative of releases or threatened releases…of hazardous substances, as defined in CERCLA Section 101(14) (§ 312.1 (c))."

The purpose of this investigation was to assess whether the history and prior uses of the site might have led to environmental conditions or impairment that might present future liability to the City of San Jose. Under ASTM Standards (ASTM E-1527-05) the purpose is to ascertain whether a "Recognized Environmental Concern" is present on the property per the following definition.

Recognized Environmental Concern is "…the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water, or the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public 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. Conditions determined to be *de minimis* are not recognized environmental conditions."

DETAILED SCOPE-OF-SERVICES

The scope of the investigation includes research of available records and information relevant to the environmental conditions of the property, past uses of the property, and physical features on the property, a site inspection and documentation of conditions on the property, interviews with persons knowledgeable of the property, and development of a statement of findings, conclusions and recommendations where applicable for the property. Because of applicability and prior history of the property, specific activities required under the EPA and ASTM standards for CERCLA liability protection may not have been completed in this report and if so, are described in the "Deviations Section".

The contents of this report and work conducted are summarized below:

***Introduction*:** Discusses the purpose for performing the Phase I Environmental Site Assessment, significant assumptions, limitations, exceptions, special terms and conditions, and any additional services.

***Site Description*:** Describes the sites location and condition at the time of this report.

***Records Review*:** Various records and databases are reviewed as available from Federal, State, and local regulatory agencies regarding hazardous substance release, use, storage, or disposal activities at the site or within the ASTM specified search distance Information provided by the client or owner, and physical site characteristics such as topography, soils, and groundwater conditions are reviewed.

***Site History*:** Evaluates the past uses of the site and adjacent properties based on a review of historical aerial photographs, Sanborn Fire Insurance Maps, City directories, historical topographic maps, and any other available relevant records such as building department or fire department records.

***Site Reconnaissance Survey*:** Describes the observations made during the inspection of the site, methods utilized, and limiting conditions.

***Interviews*:** Summarizes telephone and personal interviews conducted with site managers, property owners, or tenants. Additional interviews may be conducted with adjoining property representatives, local government officials, or persons with historical knowledge regarding the site.

Evaluation: Reviews the history and features of the site and discusses the findings, opinions, conclusions and recommendations regarding the site.

ADDITIONAL SERVICES

No additional services are planned or recommended as part of this assessment. An evaluation of business risk is not included in the scope of this report. The scope of this Phase I Environmental Assessment does not incorporate ASTM Standard non-scope considerations such as wetlands, regulatory compliance, asbestos containing materials, lead paint, cultural and historical resources, industrial hygiene, ecological resources, endangered species, high voltage lines and electromagnetic

radiation, natural gas pipelines, or indoor air quality. Indoor air quality and vapor intrusion as a contributing indoor air quality issue is a non-scope consideration and is not incorporated in the scope of this Phase I Environmental Site Assessment.

SIGNIFICANT ASSUMPTIONS

The information obtained and utilized in the preparation of this report has been obtained in part from the client, the City of San Jose employees or agents, and various government officials and is assumed to be complete and correct. It should be noted that this information is subject to professional interpretation, which leads to conclusions which may differ, based on opinions specific to individuals.

Property boundaries were not marked or surveyed as part of this study and existing parcel maps, aerial photographs, and landmarks were utilized during the inspection of the site.

This report has been prepared in accordance with generally accepted environmental assessment practices and is based on the information set forth within the report with specific application to the proposed future use. The conclusions in this report are qualitative opinions based on limited quantitative information. The information sources utilized in this study are assumed to be reasonably accurate and ascertainable but no effort was conducted to validate the accuracy of the sources.

LIMITATIONS AND EXCEPTIONS

Soil and groundwater sampling and analysis were not part of this scope of work. The scope of work was limited to observation of the surface at a specific time, a limited aerial survey review, and environmental database research. This assessment is not designed to predict future site or off-site conditions. Subsurface conditions can differ from those observed on the surface.

This investigation is not a risk assessment and is not intended to provide information needed for public health risk assessment purposes. The investigator has endeavored to determine as much as practical about the site conditions given what is considered to be a reasonable amount of analysis and research time. Additional investigation or sampling and analysis could result in information that would lead to revised conclusions. Additional work can usually turn up more information but frequently with a diminishing rate of information return for the effort spent. The degree of certainty of an environmental assessment is proportional to the time and effort spent. However the degree of certainty cannot be 100% even with highly detailed exploratory drilling and testing work well beyond the scope of this study.

Since site conditions and activities could change at any time after the completion of this report, observations, findings and opinions can be considered valid for only the date of the inspection. This report should not be relied on after six months from the date of the report per Section 4.6 of the ASTM Standard.

SPECIAL TERMS AND CONDITIONS

The Environmental Services Department was authorized to perform this Phase I Environmental Assessment by the City of San Jose's General Services Department – Real Estate Services and Asset Management. Information regarding the property to be assessed was provided by Ms. Monica Cabrera-Kavanaugh of Real Estate Services and Asset Management.

SITE DESCRIPTION

LOCATION AND LEGAL DESCRIPTION

The site is located southwest of the intersection of Lick Avenue and Goodyear Street (see Figure 1). The subject property is part of Assessors Parcel Number 434-13-032. The 3.6-acre site is irregular shaped and slopes downward from north to south. There are no unusual geographic features. A parcel map of the site and photographs are attached in the appendices. Site location information is summarized in the following Table.

LOCATION AND LEGAL DESCRIPTION

PARAMETER	DESCRIPTION
Address	No current address. Historic addresses for the site include 448 Goodyear, 1141 to 1193 (odd) Lick Avenue
Location	Bordered by Lick Avenue, residences and businesses to the east, residences and Goodyear Street to north, vacant land and Tamien Light Rail Station parking lot to the south and railroad track, Guadalupe Parkway (Highway 87) and the Light Rail line to the west
APN	434-13-032 (partial)
Legal Description	Not provided
Size	3.6 acre (approximate)

SITE AND VICINITY GENERAL CHARACTERISTICS

The site is a vacant property. The vicinity of the site is mostly residential and vacant land with some commercial type developments. The property is located just west of Guadalupe Parkway (Highway 87) and north of the Tamien Light Rail Station.

CURRENT USE OF THE PROPERTY

The site is undeveloped vacant land. The site is unpaved with no structures or improvements. Heavy vegetation obscured visual observations of the surface, but the subject area appeared to be mostly flat with no obvious signs of significant fill. The vacant area to the south had numerous piles of soil, likely fill from off-site sources.

CURRENT USES OF THE ADJOINING PROPERTIES

The adjacent properties to the north and east are mostly residential. Several businesses (mostly auto repair related) are located northwest of the subject area, along Pepitone Avenue. Vacant land and a parking lot for the Tamien Light Rail Station is located to the south. Railroad tracks, the Guadalupe Parkway (Highway 87) and the Light Rail line are located to the west. To the east of the site is Lick Avenue and residences with a few commercial businesses, including auto repair shop and a marble and granite business.

LAND USES OF THE NEAREST PROPERTIES

DIRECTION	LAND USES
North	Residential and Commercial/Light Industrial
East	Residential/Commercial
South	Vacant land, Parking Lot for Tamien Light Rail Station
West	Railroad Tracks/Highway 87/Light Rail Line

USER PROVIDED INFORMATION

TITLE RECORDS

Title records were not included or reviewed in this investigation. The City of San Jose Real Estate Services and Asset Management will be responsible for review of title information.

ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

No research was conducted on environmental liens for this property. The City of San Jose Real Estate Services and Asset Management will be responsible for review of title information.

SPECIALIZED KNOWLEDGE

No specialized knowledge of the site was identified or investigated.

COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

This investigation included the review of all standard available information including all commonly known or reasonably ascertainable information sources from state, federal, and local agencies and private information sources.

VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

No valuation reduction calculation was developed for environmental issues as no significant potential environmental issue was identified.

OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION

Information was provided by Jennifer Rocci of the Santa Clara Valley Transportation Authority (VTA), a representative of the current property owner.

REASON FOR PERFORMING PHASE I

The City is considering acquisition of this property for purposes of constructing a public park.

SPECIAL CONTRACTUAL CONDITIONS BETWEEN USER AND ENVIRONMENTAL PROFESSIONAL

No special contractual conditions exist between the user of this report and the Environmental Professional who prepared the report. The report was prepared for the City of San Jose and the Environmental Professional is an employee of the City of San Jose.

RECORDS REVIEW

STANDARD ENVIRONMENTAL RECORD SOURCES

A review of all reasonably ascertainable databases maintained by various federal, state, and local agencies was conducted. The reviewed databases included federal, state, and/or local lists of known or suspected contaminated sites, known generators or handlers of hazardous waste, known waste treatment, storage, and disposal facilities, and permitted underground storage tank sites. Over 75 applicable databases regarding environmental issues were searched. A complete listing of all of the databases searched and reviewed is included in the attached EDR Radius Report.

The database search indicates that 1193 Lick Avenue is listed as a Leaking Underground storage tank site. A review of the file indicates one 18,000-gallon heating oil/diesel tank and one 500-gallon fuel oil (gasoline) tank were removed in December 1989. Although these two tanks are listed together as a fuel leak case, further research indicates the 18,000-gallon tank was located over 100 feet south of the subject site. The 500-gallon tank was located in the center of the subject site. A cannery was formerly located on the 3.6-acrea subject site and extended off-site, covering an additional 7± acres (see Site History section for more details).

The 500-gallon gasoline tank on the subject site was found to have leaked. Soil was over-excavated in the area of the tank. Approximately 900 cubic yards of gasoline contaminated soil was removed for off-site disposal and 1,850 gallons of contaminated groundwater that seeped into the tank pit excavation was removed for off-site disposal. A subsequent soil and groundwater contamination investigation included installation of 7 groundwater monitoring wells.

Monitoring between 1990 and 1997 indicated groundwater contaminating was naturally attenuating, reducing gasoline concentrations to levels below regulatory concern. The fuel leak site was closed in September 1997 with no further action required. A copy of the closure documents is provided in Appendix E.

In addition, there are several regulatory listed sites in the vicinity. The most noteworthy are two businesses, Atlas Transmission at 1035 Pepitone Avenue and Ernest J Funk at 1045 Pepitone Avenue. These businesses are listed as small quantity generators of hazardous waste, likely due to auto repair operations. These properties are located just north of the subject site. Sprig Electric at 1303 Lick Avenue (960 feet to the south) had several underground tanks removed in 1993. Although some residual petroleum contamination was found it was determined to be minor and the case was closed by the Santa Clara Valley Water District, the local regulatory oversight agency at the time.

Based upon the distance, the type of listing or known contamination, none of these sites are suspected to pose a threat of contaminating the subject property.

OTHER RECORDS REVIEWED-AGENCIES CONTACTED

Environmental records from the following sources were reviewed during this Phase I Environmental Site Assessment to comply with ASTM standards. Local regulatory agencies were contacted as indicated by the checklist for reasonably ascertainable and reviewable documentation regarding environmental conditions or history for the site and adjoining properties. The following agencies were contacted (many via on-line records) for relevant information regarding the site as noted.

Contacted	AGENCY
X	California Department of Toxic Substances Control (DTSC)
X	City of San Jose Building Division
X	Santa Clara County Department of Environmental Health (DEH)
X	San Jose Fire Department
X	Regional Water Quality Control Board-San Francisco

SOIL, GEOLOGY, AND HYDROGEOLOGY

The site is undeveloped and slopes downward from east to west. Information about the physical setting and regional geology is presented in the following two tables.

PHYSICAL SETTING

DATA	GENERAL INFORMATION
USGS Topographic Quadrangle	The site is located at an average approximate elevation of about 112 feet above mean seal level.
Soil Type	Bottella clay loam with moderate drainage
Oil and Gas Fields	Oil and Gas fields were not located in the vicinity of the site

REGIONAL GEOLOGY AND HYDROLOGY

PHYSICAL PARAMETER	INFORMATION/COMMENTS
REGIONAL GEOMORPHIC PROVINCE	Coast Range
Depth to Regional Groundwater	The depth to groundwater ranged from 12 to 23 feet below ground surface in the 1990 to 1997 on-site fuel leak investigation
Direction of Anticipated Flow	Groundwater flow was found to vary in direction during the 1990 to 1997 on-site fuel leak investigation
Water Supply	Domestic water supply is provided from groundwater and surface water sources (San Jose Water Company)
Flood Zone Designation	No

SITE HISTORY

The history of the site was researched to identify obvious past land uses. The following table summarizes the availability of information reviewed during this assessment.

SITE HISTORY SOURCES

Parameter	Years Reviewed	Source
Aerial Photographs	1939, 1948, 1956, 1965, 1974, 1982, 1993, 1998, 2005	EDR photos
Sanborn Fire Insurance Maps	1891, 1915, 1950, 1956 and 1966	EDR
City Directories	1922 thru 2006	Report in Appendices
Historical Topographic Maps	1953, 1961, 1968, 1973, and 1980	Report in Appendices
Building Department	All records	City of San Jose web-site
Previous Assessment(s)/ Records	Santa Clara Valley Prehistory Archaeological Investigations at CA-SCL-690, The Tamien Station Site, San Jose, California	Santa Clara Valley Transportation Authority

Aerial Photographs

Historical aerial photographs for the subject parcel were reviewed for the years 1939, 1948, 1956, 1965, 1973, 1982, 1993, 1998, and 2005.

1939: The subject site is mostly developed. The eastern portion of the site is occupied by several buildings, part of the cannery operations that extend off-site to the south. The area along the northwest portion of the site (near Goodyear) appears to be occupied by a couple of structures and a small orchard. The surrounding area to the north and east is mostly developed with residences and businesses while the area to the west and south is mostly vacant or orchards.

1948: The cannery is still in existence with numerous structures along the eastern portion. The orchard and structures along the northwest area are now gone and the area is now occupied by a rail spur and vacant land. The surrounding area to the north and east is mostly developed while the properties to the south and west continue to be mostly orchards and vacant land.

1956: The site is now completely developed with the cannery structures. The bulk of the cannery operations are located on the southern portion of the site and extend south of the subject site. A new building is located in the northwest corner and a large building is now located along the rail spur.

1965: The photograph is similar to the 1956 photograph, showing cannery structures located throughout the subject site. The surrounding area is mostly developed to the north and east while a golf course is now located just west of the subject site.

1974: The definition on this photo is relatively poor but the site appears to be similar to the 1965 photograph.

1982: The site is still completely developed, similar to the 1965 and 1974 photographs. The surrounding area is also similar to the 1974 photograph with mostly vacant land and a golf course to the south and west while the area to the north and east is completely developed.

1993: The site subject site is now completely developed with no structures or improvements. Highway 87 is now located to the west and the Tamien Light Rail Station is located to the south. continues to be vacant. The surrounding area to the south is mostly residential while the area to the north is mostly vacant with some scattered agricultural.

1998: The subject site and surrounding area is very similar to the 1993 showing the subject site is vacant.

2005: The site continues to be vacant with no structures or improvements, similar to as it appears today. The surrounding area is also unchanged with Railroad tracks and Highway 87 located to the west, Tamien Light Rail Station to the south and residences and businesses to the north and east.

The historical aerial photograph series are included in the appendices.

Sanborn Fire Insurance Maps
Sanborn maps for the subject parcel were reviewed for the years 1891, 1915, 1950, 1956, and 1966.

1891: This map only covers a small part of the northern portion of the site along Goodyear Street. The map does not show any developments on the subject property. Several residences are shown on the properties to the north along Goodyear Street.

1915: The majority of the site is vacant. There are several structures along the central eastern side of the property. The properties appear to be two residences with detached garages. The surrounding area is mostly developed to the north and east and mostly vacant to the south and west.

1950: The site is occupied by a cannery, which also extends to the south of the subject site. The cannery is comprised of several different structures and includes a railroad spur along the eastern border. The labeling on the map is difficult to read, however there were no signs of tanks or hazardous materials storage. A boiler room and tank is shown on the cannery property located south of the subject area.

1956: The site is still occupied by a cannery, listed as the San Jose Cannery. The cannery has expanded since the 1950 map with several more structures. Similar to the 1950, there are no signs of tanks or hazardous materials storage. An oil tank and boiler room are located on the cannery portion south of the subject site.

1966: The Cannery continued to expand with more structures. As shown on the 1950 and 1956 map the underground tanks, boiler room and oil storage was shown on the cannery property to the south of the subject property.

City Directories
A City Directory data search was conducted which lists historic information regarding the telephone directory and business directory listings for residential and business listings from 1922 to 2006. The Directory contained the following addresses that are associated with the subject site: 448 Goodyear Street, 1141, 1145, 1181 and 1193 Lick Avenue.

Noteworthy listings included San Jose Canning Company/California Canners and Growers at 1193 Lick Avenue from 1935 to 1975. In 1985, tenants at 1193 Lick Avenue included PDQ Anodizing, Wood Classics, Summers Kevin Tire Mounting. In 1986 Bonner Anodize was listed at 1193 Lick Avenue.

Other noteworthy listings include Oddball Tire Warehouse at 1181 Lick Avenue in 1985 and 1986 and Almaden Lumber Company at 1141 Lick Avenue in 1986.

The City Directory information is included in the appendices.

Historical Topographic Maps
Historical topographic maps were obtained and reviewed for the general area surrounding the parcel. The maps available included maps from 1953, 1961, 1968, 1973, and 1980. A copy of the map series is included in the appendices.

The 1953 topo map showed the railroad spur on the subject site but no structure. The 1961 and 1968 photographs showed the rail spur and a large structure adjacent to the spur. The 1973 and 1980 maps showed the entire subject property as shaded, indicating development.

Additional site history information was found in an archaeological report provided by the Santa Clara Valley Transportation Authority. The report, *Santa Clara Valley Prehistory Archaeological Investigations at CA-SCL-690, The Tamien Station Site, San Jose, Californiab by Mark Hvlkema* indicated that the cannery was first constructed in 1919 and was in existence until 1982-83. The report indicated that the cannery operations and number of structures grew in the 1920s to 1950s, but by the 1960s the business started to decline as the Santa Clara Valley transitioned from agricultural to high technology. The adjacent rail line was built in 1935-36 and a spur was constructed to the cannery warehouses in 1942.

It should also be noted that a significant Indian burial ground was found on the property just south of the subject site. Numerous bone fragments, ornaments and shells were discovered during an extensive archaeological investigation. The remains were relocated.

According to regional maps developed and distributed by the San Francisco Bay Area Air Quality Management District for use in identifying known or likely areas of naturally occurring asbestos (NOA), the site is not in an area known or likely to contain NOA.

SITE RECONNAISSANCE

METHODOLOGY AND LIMITING CONDITIONS

The author of this report inspected the site and surrounding area on January 11, 2010. The subject site was traversed on foot in approximate 50 foot grids. Heavy vegetation obscured visual observation of the ground surface.

Photographs of the site were taken and are included in the appendices.

GENERAL SITE SETTING

The site is an undeveloped property of approximately 3.6 acres. The property is fenced along Lick Avenue and Goodyear Street. The site is relatively flat. Some litter and debris was observed on the site, such as paper products, wood and metal objects. The debris was scattered and appeared limited, although the vegetation limited viewing. No evidence of major dumping or placement of fill was observed, although some soil piles and debris was observed on the vacant property just south of the subject site that appeared likely to have been illegally dumped.

The following two tables summarize the site observations.

SITE OBSERVATIONS

GENERAL OBSERVATIONS	REMARKS	OBSERVED	NOT OBSERVED
Current Use	Vacant Land	x	
Current Use likely to indicate REC's	No current uses likely to indicate REC's		x
Past uses	Historical Vacant Parcel		x
Past use likely to indicated REC's	Nothing observed on site indicative of past uses which might lead to REC's		x
Structures	None observed		x
Roads	None observed		x
Topography of site and surrounding area	Relatively flat	x	
Above ground storage tank	No above ground storage tanks observed		x
Asbestos and Lead	None observed. Not in location of known naturally occurring asbestos (NOA). No on-site structures.		x
Below grade vaults	None observed		x
Burned or buried debris	None observed		x
Chemical storage	No chemical storage areas observed		x
Chemical Mixing areas	No chemical mixing areas observed		x
Discolored soil or water	Not observed		x
Ditches, streams	Curbside gutters, no surface drainage courses observed		x

Drains and piping (e.g. floor drains/trenches, bay drains, sand traps, grease traps	None observed		x
Drums	Not observed		x
Electrical or hydraulic equipment/potential PCB transformer	Not observed		x

SITE OBSERVATIONS WHICH MAY INVOLVE THE USE, STORAGE, DISPOSAL, OR GENERATION OF HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS

GENERAL OBSERVATIONS	REMARKS	OBSERVED	NOT OBSERVED
Fill Dirt from unknown sources	Not observed.		x
Fill dirt from a known source	Not observed.		x
Hazardous chemical and petroleum products in connection with known use	Not observed		x
Non-hazardous containers with contents	Not observed		x
Hazardous Waste storage	Not observed		x
Heating and cooling system and fuel source	Not observed		x
Industrial waste treatment equipment	Not observed		x
Loading and unloading areas	Not observed		x
Odors	Not observed		x
Pits, Ponds, Lagoons	Not observed		x
Pools of liquids	Not observed		x
Process wastewater	Not observed		x
Sanitary sewer system	Not observed		x
Septic system (e.g. tank and leach fields)	Not observed		x
Soil piles	Not observed		x
Solid waste	Not observed. Some scattered debris (paper, wood, metals)		x
Unauthorized dumping	Not observed		x

Stained pavement or concrete	Not observed		x
Stains or corrosion (interior, non-water)	Not observed		x
Storm drains/catch basins	Not observed		x
Stressed vegetation	Not observed		x
Sumps and clarifiers	Not observed		x
Surface water	Not observed		x
Underground storage tanks including heating oil tanks	Not observed		x
Unidentified substance containers	Not observed		x
Waste water discharge	Not observed		x
Water supplies (potable and process)	Not observed		x
Wells (irrigation, monitoring, or domestic)	Not observed		x
Wells (dry)	Not observed		x
Wells (oil and gas)	Not observed		x

INTERVIEWS

INTERVIEW WITH OWNER

An interview was conducted with Jennifer Rocci, a representative of the current owner, Santa Clara Valley Transportation Authority (VTA). Ms. Rocci stated that the VTA purchased the subject site and property to the south in 1988. They demolished the cannery structures in 1989 to began construction of the Tamien Light Rail Station on the property to the south. She reviewed the file for the property and found an Archaeological Investigation of the subject property. She did not find any other Phase I and Phase II reports, although she did see a financial summary letter of the transaction that listed funds spend on Hazardous Materials investigation. This may be the fuel leak cleanup summarized in the Regulatory Records section.

The Archaeological Investigation is summarized in the Site History section of this report.

INTERVIEWS WITH LOCAL GOVERNMENT OFFICIALS

No government agency representatives were contacted regarding the history of the property. Information from appropriate government agencies was accessed via the internet.

FINDINGS

Recognized environmental conditions (REC's) are defined by the ASTM Standard Practice E1527-00 as the presence or likely presence of any hazardous substance or petroleum products under conditions that indicate an existing release, a past release, or a material threat of a release into structures on the property or into the ground, groundwater, or surface water of the property.

This assessment has not revealed any recognized environmental conditions associated with the subject property.

Historical recognized environmental conditions (HREC's) are defined by the ASTM Standard Practice E11527-05 as an environmental condition which in the past would have been considered a recognized environmental condition, but which may or may not be considered a recognized environmental condition currently.

This assessment has revealed one historical recognized environmental condition – the former 500-gallon leaking underground fuel leak located in the central portion of the property. Gasoline contaminated soil and groundwater was found after the tank was removed in 1989. The site is listed on the local and State leaking underground storage tank databases. Subsequent investigations indicated the contamination had attenuated to concentration below levels of regulatory concern and case received closure from the local and State regulatory agencies in 1997. No further action is required.

Environmental issues are defined as environmental concerns identified that warrant discussion but do not qualify as recognized environmental conditions, as defined by ASTM Standard Practice E1527-05.

This assessment has revealed evidence that a cannery was formerly located on the subject site from 1919 to 1983. A rail spur was located in the western portion of the subject site. Although maps and other information indicate the bulk of cannery operations were located to the south of the subject site, numerous warehouses and other cannery structures were located on the subject site, including the previously mentioned 500-gallon underground gasoline tank. The current owner, Santa Clara Valley Transportation Agency (VTA), who purchased the site in 1988 did not provide the City with any Phase I or Phase II Environmental Site Assessments. This historic industrial use is considered an environmental issue.

CONCLUSIONS, OPINIONS AND RECOMMENDATIONS

The Environmental Services Department (ESD) has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-05 for a portion of Assessor's Parcel Number 434-13-032 in San Jose. Any exceptions to or deletions from this practice are described in the Deviations Section of this report. The subject site is a 3.6 acre property located southwest of the intersection of Lick Avenue and Goodyear Street, just north of the Tamien Light Rail Station. Although the site is currently vacant with no visual indication of contamination, the site history indicates that a cannery was located on the subject property between 1919 and 1983. The on-site cannery operations included numerous structures and a rail spur in the western portion of

the site. A 500-gallon underground fuel tank was removed from the central portion of the site in 1989.

Although no Recognized Environmental Conditions were discovered, one Historic Recognized Environmental Condition and Environmental Issues were noted. The 500-gallon fuel tank is considered an historic recognized environmental condition due to it past listing as an active leaking underground storage tank site. Although some residual gasoline contamination is located in the soil and groundwater beneath a portion of the site, the concentrations are relatively minor and would not likely be a public health threat to the intended use of the property (public park). However due to the proposed change in land use, the local oversight agency (Santa Clara County Department of Environmental Health) for leaking fuel tanks should be contacted to determine if any further investigation will be required.

With over 60 years of industrial use, there are concerns that past practices may have impacted the underlying soil and possibly groundwater. The potential exists that the cannery operations included the storage and use of hazardous materials, in addition to the already documented former underground storage tank. The former rail spur is also a concern due to historic practices of commonly applying herbicides, oils containing polychlorinated biphenyls (PCBs) and arsenic for weed control and the possibility of creosote in the rail ties.

ESD recommends that a Phase II investigation be performed to investigate potential impacts from the former cannery operations.

DEVIATIONS

No property tax files were reviewed. No recorded land title records were reviewed. No valuation reduction for environmental issues was conducted as no significant environmental conditions were identified. No research was conducted regarding environmental liens or activity and use limitations.

This Phase I Environmental Assessment does not incorporate non-scope considerations, such as testing for asbestos containing materials, radon, lead based paint, lead in drinking water, wetlands delineation, regulatory compliance, cultural and historical resources, industrial hygiene, health and safety, ecological resources endangered species, or indoor air quality.

SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

The City of San José Environmental Services Department has performed a Phase I Environmental Site Assessment for part of APN 434-13-032 in conformance with the scope and limitations of ASTM Standard Practice E1527-05 and in accordance with the federal EPA "All Appropriate Inquiries" (AAI) final rule effective November 1, 2006. Any exceptions to, or deletions from, this practice are described in the report.

Prepared by:

Geoff Blair

GEOFF BLAIR

Associate Engineer
Environmental Compliance & Safety
Environmental Services Department
REA-04283 (expires 6/30/10)

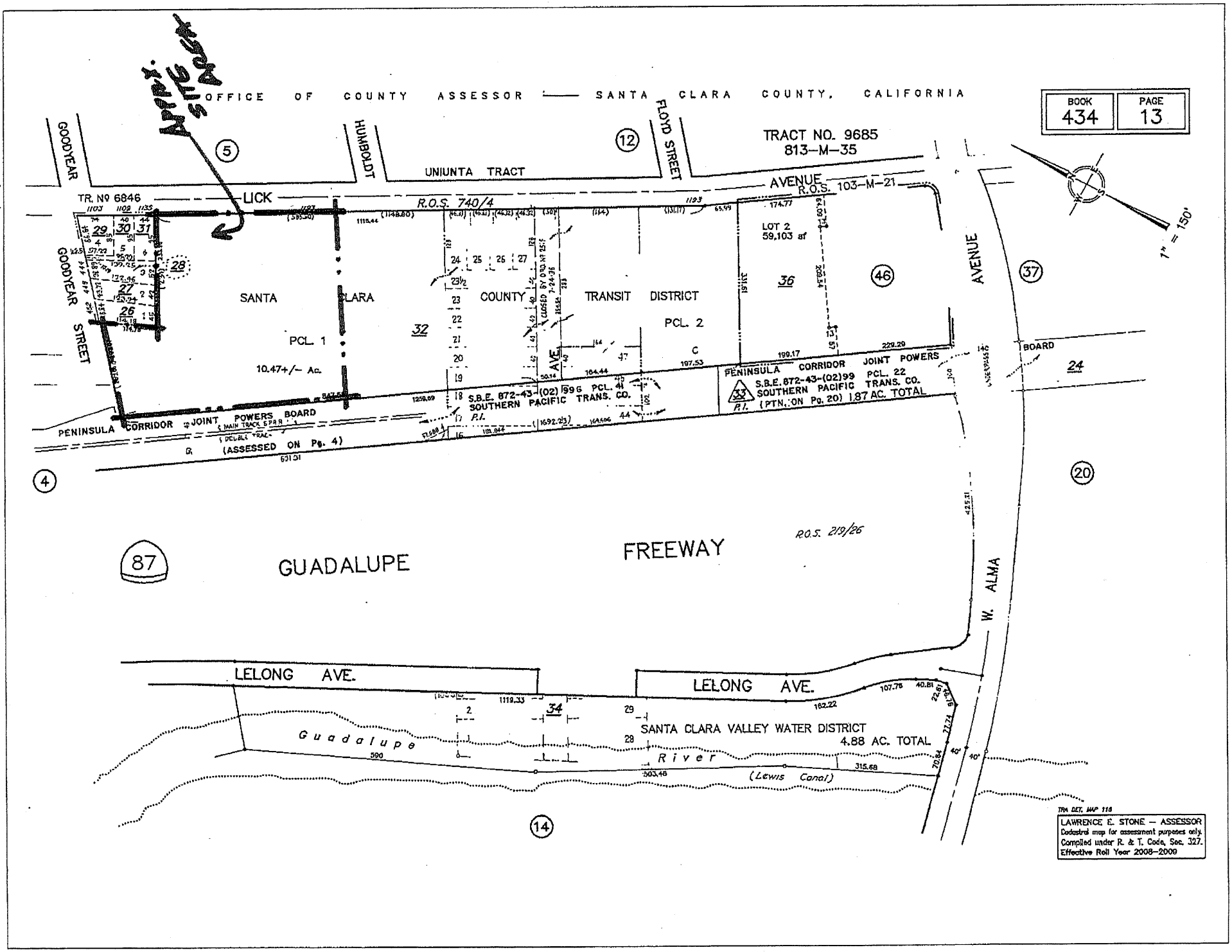
QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Geoff Blair is an Associate Engineer with the City of San José's Environmental Services Department (ESD) in the Municipal Environmental Compliance group. Among Geoff's duties is performing Phase I environmental site assessments and Phase II soil and groundwater investigations, managing several active City-owned leaking underground storage tank (LUST) sites and overseeing investigations, monitoring and compliance at several City-owned closed landfills. Geoff first started with the City of San José in 1998, working in the Watershed Protection Division.

Prior to working for the City, Geoff worked for 8 years at several Bay Area environmental consulting firms. His duties included performing Phase I and II environmental site assessments, leaking underground storage tanks investigations, and designing and implementation of remedial actions. He graduated from University of California at Santa Barbara with a B.S. in Chemical Engineering.

APPENDIX A

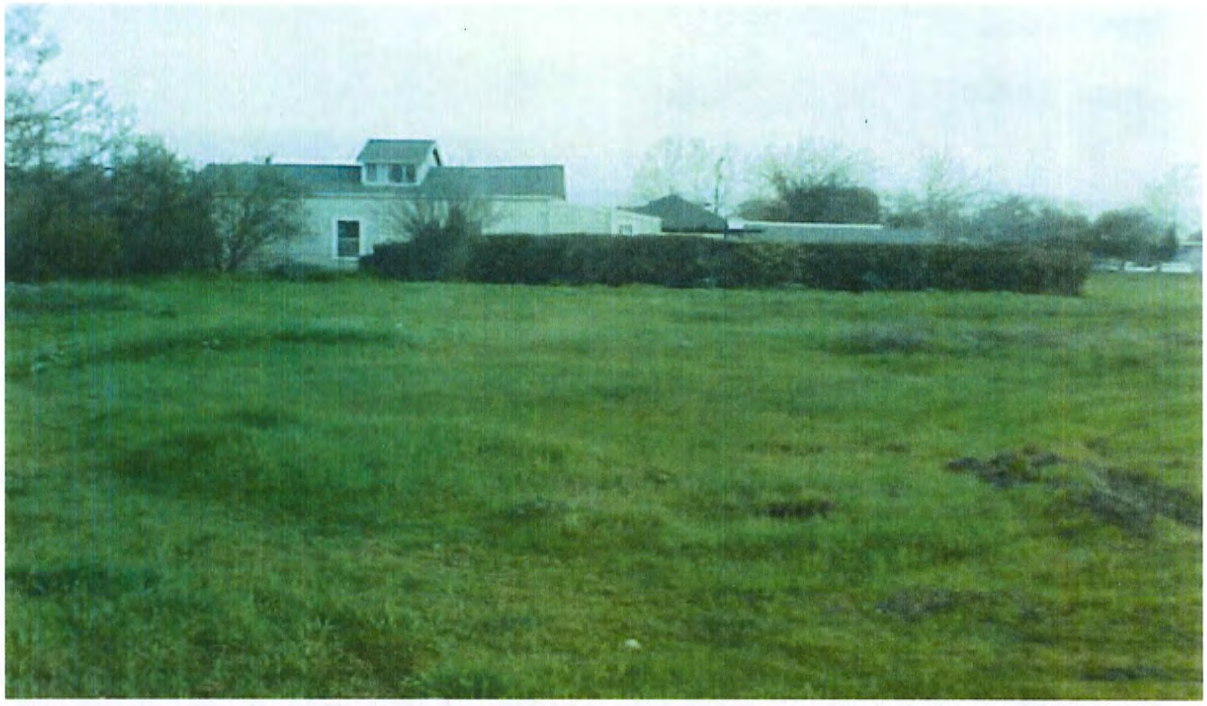
SITE PLAN


OFFICE OF COUNTY ASSESSOR — SANTA CLARA COUNTY, CALIFORNIA
BOOK 434
PAGE 13
Appt. Site Area
GOODYEAR
HUMBOLDT
FLOYD STREET
TRACT NO. 9685
813-M-35
UNIUNTA TRACT
TR. Nº 6846
LICK
AVENUE
R.O.S. 103-M-21
R.O.S. 740/4
LOT 2
59,103 sf
SANTA CLARA COUNTY TRANSIT DISTRICT
PCL. 1
10.47+/- Ac.
PCL. 2
S.B.E. 872-43-(02) 99G PCL. 41
SOUTHERN PACIFIC TRANS. CO.
PENINSULA CORRIDOR JOINT POWERS BOARD
(ASSESSED ON Pg. 4)
PENINSULA CORRIDOR JOINT POWERS BOARD
S.B.E. 872-43-(02)99 PCL. 22
SOUTHERN PACIFIC TRANS. CO.
(PTN. ON Pg. 20) 1.87 AC. TOTAL
GOODYEAR STREET
AVENUE
W. ALMA
GUADALUPE
FREEWAY
R.O.S. 219/26
LELONG AVE.
LELONG AVE.
Guadalupe River
(Lewis Canal)
SANTA CLARA VALLEY WATER DISTRICT
4.88 AC. TOTAL
1" = 150'
TRA DET. MAP 116
LAWRENCE E. STONE — ASSESSOR
Cadastral map for assessment purposes only.
Compiled under R. & T. Code, Sec. 327.
Effective Roll Year 2008-2009

APPENDIX B

SITE PHOTOGRAPHS

Site Photographs



Photograph No. 1: Looking Easterly across northern portion of site.

Photograph No. 2: Looking Southeasterly across site from Northwest corner.

Site Photographs

Photograph No. 3: Looking Southerly across Site from Northwest corner.

Photograph No. 4: Looking Southerly across Site from Northwest corner.

CITY OF
SAN JOSE
CAPITAL OF SILICON VALLEY

Phase I Environmental Site Assessment

APN 434-13-032 (partial)

San Jose, CA

Prepared for
Ms. Monica Kavanaugh
Real Estate Division
General Services Department

By the

Environmental Services Department
City of San Jose

February 5, 2010

PHASE I ENVIRONMENTAL SITE ASSESSMENT

APN 434-13-032 (partial)
Southwest of Goodyear Street and Lick Avenue

San Jose, CA

EXECUTIVE SUMMARY

BACKGROUND

The Environmental Services Department (ESD) has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-05 for a portion of Assessor's Parcel Number (APN) 434-13-032 in San Jose. The subject site is located southwest of the intersection of Goodyear Street and Lick Avenue in San Jose and north of the Tamien Light Rail Station parking lot. The subject site is located on approximately 3.6-acres in the northern portion of APN 434-13-032. The subject site is currently undeveloped. The surrounding area is mostly residential with some commercial and light industrial businesses.

FINDINGS AND RECOMMENDATIONS

Historical research for this assessment indicated that a cannery was located on the subject site from 1919 to the early 1980s. The cannery consisted of numerous buildings, structures and improvements and extended south of the subject site. After closure, the cannery was occupied by several commercial/industrial tenants until purchased by the Santa Clara Valley Transportation Authority in 1988, along with the property to the south for construction of the Tamien Light Rail Station. The cannery buildings were demolished in 1989 and the subject site has remained vacant, while the property to the south was developed as a parking lot for the Light Rail Station. A 500-gallon underground storage tank containing gasoline was removed from the central portion of the site in 1989 and was found to have leaked. Subsequent investigations between 1990 and 1997 indicate some residual gasoline contamination in the soil and groundwater remain, however the concentrations were determined to be below levels of regulatory concern and the case received regulatory closure. However, due to the change in site use from industrial to park, the local leaking underground tank oversight regulatory agency should be contacted to determine if there will be any additional requirements due to site use change.

The site is located in an area of San Jose that has been developed for over 100 years with residences and businesses. Regulatory database and historical document research did not indicate any neighboring properties that appear to pose a significant threat of contaminating the subject site. The

site visit did not show any obvious signs of contamination, although the ground surface was obscured with heavy vegetation. The current owner (VTA) did not provide the City any reports on previous environmental investigations of the subject property.

Due to the over 60 years of cannery operations, the rail spur and the lack of any previous studies or information on historic hazardous materials storage and use, there is a concern that the historical cannery site uses may have adversely impacted the subject site. As a result, ESD recommends that a Phase II investigation be performed.

INTRODUCTION

PURPOSE

At the request of the Real Estate Division of the Department of Public Works, the Environmental Services Department has performed a Phase I Environmental Site Assessment (ESA) for the consideration of acquisition for a property located on a portion of Assessor's Parcel Number 434-13-032, southwest of the intersection of Goodyear Street and Lick Avenue.

This report was prepared using guidelines presented in the document titled "STANDARD PRACTICE FOR ENVIRONMENTAL ASSESSMENTS: PHASE I ENVIRONMENTAL SITE ASSESSMENT PROCESS" (The American Society for Testing of Materials ASTM, E1527-05) and in accordance with the federal EPA "All Appropriate Inquiries" (AAI) final rule effective November 1, 2006. The report was prepared in accordance with general accepted standards for site assessments and has been modified to meet local conditions and concerns. Under EPA and ASTM standards, the Phase I Investigation is "intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability…" and to "identify conditions indicative of releases or threatened releases…of hazardous substances, as defined in CERCLA Section 101(14) (§ 312.1 (c))."

The purpose of this investigation was to assess whether the history and prior uses of the site might have led to environmental conditions or impairment that might present future liability to the City of San Jose. Under ASTM Standards (ASTM E-1527-05) the purpose is to ascertain whether a "Recognized Environmental Concern" is present on the property per the following definition.

Recognized Environmental Concern is "…the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water, or the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public 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. Conditions determined to be *de minimis* are not recognized environmental conditions."

DETAILED SCOPE-OF-SERVICES

The scope of the investigation includes research of available records and information relevant to the environmental conditions of the property, past uses of the property, and physical features on the property, a site inspection and documentation of conditions on the property, interviews with persons knowledgeable of the property, and development of a statement of findings, conclusions and recommendations where applicable for the property. Because of applicability and prior history of the property, specific activities required under the EPA and ASTM standards for CERCLA liability protection may not have been completed in this report and if so, are described in the "Deviations Section".

The contents of this report and work conducted are summarized below:

***Introduction*:** Discusses the purpose for performing the Phase I Environmental Site Assessment, significant assumptions, limitations, exceptions, special terms and conditions, and any additional services.

***Site Description*:** Describes the sites location and condition at the time of this report.

***Records Review*:** Various records and databases are reviewed as available from Federal, State, and local regulatory agencies regarding hazardous substance release, use, storage, or disposal activities at the site or within the ASTM specified search distance Information provided by the client or owner, and physical site characteristics such as topography, soils, and groundwater conditions are reviewed.

***Site History*:** Evaluates the past uses of the site and adjacent properties based on a review of historical aerial photographs, Sanborn Fire Insurance Maps, City directories, historical topographic maps, and any other available relevant records such as building department or fire department records.

***Site Reconnaissance Survey*:** Describes the observations made during the inspection of the site, methods utilized, and limiting conditions.

***Interviews*:** Summarizes telephone and personal interviews conducted with site managers, property owners, or tenants. Additional interviews may be conducted with adjoining property representatives, local government officials, or persons with historical knowledge regarding the site.

Evaluation: Reviews the history and features of the site and discusses the findings, opinions, conclusions and recommendations regarding the site.

ADDITIONAL SERVICES

No additional services are planned or recommended as part of this assessment. An evaluation of business risk is not included in the scope of this report. The scope of this Phase I Environmental Assessment does not incorporate ASTM Standard non-scope considerations such as wetlands, regulatory compliance, asbestos containing materials, lead paint, cultural and historical resources, industrial hygiene, ecological resources, endangered species, high voltage lines and electromagnetic

radiation, natural gas pipelines, or indoor air quality. Indoor air quality and vapor intrusion as a contributing indoor air quality issue is a non-scope consideration and is not incorporated in the scope of this Phase I Environmental Site Assessment.

SIGNIFICANT ASSUMPTIONS

The information obtained and utilized in the preparation of this report has been obtained in part from the client, the City of San Jose employees or agents, and various government officials and is assumed to be complete and correct. It should be noted that this information is subject to professional interpretation, which leads to conclusions which may differ, based on opinions specific to individuals.

Property boundaries were not marked or surveyed as part of this study and existing parcel maps, aerial photographs, and landmarks were utilized during the inspection of the site.

This report has been prepared in accordance with generally accepted environmental assessment practices and is based on the information set forth within the report with specific application to the proposed future use. The conclusions in this report are qualitative opinions based on limited quantitative information. The information sources utilized in this study are assumed to be reasonably accurate and ascertainable but no effort was conducted to validate the accuracy of the sources.

LIMITATIONS AND EXCEPTIONS

Soil and groundwater sampling and analysis were not part of this scope of work. The scope of work was limited to observation of the surface at a specific time, a limited aerial survey review, and environmental database research. This assessment is not designed to predict future site or off-site conditions. Subsurface conditions can differ from those observed on the surface.

This investigation is not a risk assessment and is not intended to provide information needed for public health risk assessment purposes. The investigator has endeavored to determine as much as practical about the site conditions given what is considered to be a reasonable amount of analysis and research time. Additional investigation or sampling and analysis could result in information that would lead to revised conclusions. Additional work can usually turn up more information but frequently with a diminishing rate of information return for the effort spent. The degree of certainty of an environmental assessment is proportional to the time and effort spent. However the degree of certainty cannot be 100% even with highly detailed exploratory drilling and testing work well beyond the scope of this study.

Since site conditions and activities could change at any time after the completion of this report, observations, findings and opinions can be considered valid for only the date of the inspection. This report should not be relied on after six months from the date of the report per Section 4.6 of the ASTM Standard.

SPECIAL TERMS AND CONDITIONS

The Environmental Services Department was authorized to perform this Phase I Environmental Assessment by the City of San Jose's General Services Department – Real Estate Services and Asset Management. Information regarding the property to be assessed was provided by Ms. Monica Cabrera-Kavanaugh of Real Estate Services and Asset Management.

SITE DESCRIPTION

LOCATION AND LEGAL DESCRIPTION

The site is located southwest of the intersection of Lick Avenue and Goodyear Street (see Figure 1). The subject property is part of Assessors Parcel Number 434-13-032. The 3.6-acre site is irregular shaped and slopes downward from north to south. There are no unusual geographic features. A parcel map of the site and photographs are attached in the appendices. Site location information is summarized in the following Table.

LOCATION AND LEGAL DESCRIPTION

PARAMETER	DESCRIPTION
Address	No current address. Historic addresses for the site include 448 Goodyear, 1141 to 1193 (odd) Lick Avenue
Location	Bordered by Lick Avenue, residences and businesses to the east, residences and Goodyear Street to north, vacant land and Tamien Light Rail Station parking lot to the south and railroad track, Guadalupe Parkway (Highway 87) and the Light Rail line to the west
APN	434-13-032 (partial)
Legal Description	Not provided
Size	3.6 acre (approximate)

SITE AND VICINITY GENERAL CHARACTERISTICS

The site is a vacant property. The vicinity of the site is mostly residential and vacant land with some commercial type developments. The property is located just west of Guadalupe Parkway (Highway 87) and north of the Tamien Light Rail Station.

CURRENT USE OF THE PROPERTY

The site is undeveloped vacant land. The site is unpaved with no structures or improvements. Heavy vegetation obscured visual observations of the surface, but the subject area appeared to be mostly flat with no obvious signs of significant fill. The vacant area to the south had numerous piles of soil, likely fill from off-site sources.

CURRENT USES OF THE ADJOINING PROPERTIES

The adjacent properties to the north and east are mostly residential. Several businesses (mostly auto repair related) are located northwest of the subject area, along Pepitone Avenue. Vacant land and a parking lot for the Tamien Light Rail Station is located to the south. Railroad tracks, the Guadalupe Parkway (Highway 87) and the Light Rail line are located to the west. To the east of the site is Lick Avenue and residences with a few commercial businesses, including auto repair shop and a marble and granite business.

LAND USES OF THE NEAREST PROPERTIES

DIRECTION	LAND USES
North	Residential and Commercial/Light Industrial
East	Residential/Commercial
South	Vacant land, Parking Lot for Tamien Light Rail Station
West	Railroad Tracks/Highway 87/Light Rail Line

USER PROVIDED INFORMATION

TITLE RECORDS

Title records were not included or reviewed in this investigation. The City of San Jose Real Estate Services and Asset Management will be responsible for review of title information.

ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

No research was conducted on environmental liens for this property. The City of San Jose Real Estate Services and Asset Management will be responsible for review of title information.

SPECIALIZED KNOWLEDGE

No specialized knowledge of the site was identified or investigated.

COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

This investigation included the review of all standard available information including all commonly known or reasonably ascertainable information sources from state, federal, and local agencies and private information sources.

VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

No valuation reduction calculation was developed for environmental issues as no significant potential environmental issue was identified.

OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION

Information was provided by Jennifer Rocci of the Santa Clara Valley Transportation Authority (VTA), a representative of the current property owner.

REASON FOR PERFORMING PHASE I

The City is considering acquisition of this property for purposes of constructing a public park.

SPECIAL CONTRACTUAL CONDITIONS BETWEEN USER AND ENVIRONMENTAL PROFESSIONAL

No special contractual conditions exist between the user of this report and the Environmental Professional who prepared the report. The report was prepared for the City of San Jose and the Environmental Professional is an employee of the City of San Jose.

RECORDS REVIEW

STANDARD ENVIRONMENTAL RECORD SOURCES

A review of all reasonably ascertainable databases maintained by various federal, state, and local agencies was conducted. The reviewed databases included federal, state, and/or local lists of known or suspected contaminated sites, known generators or handlers of hazardous waste, known waste treatment, storage, and disposal facilities, and permitted underground storage tank sites. Over 75 applicable databases regarding environmental issues were searched. A complete listing of all of the databases searched and reviewed is included in the attached EDR Radius Report.

The database search indicates that 1193 Lick Avenue is listed as a Leaking Underground storage tank site. A review of the file indicates one 18,000-gallon heating oil/diesel tank and one 500-gallon fuel oil (gasoline) tank were removed in December 1989. Although these two tanks are listed together as a fuel leak case, further research indicates the 18,000-gallon tank was located over 100 feet south of the subject site. The 500-gallon tank was located in the center of the subject site. A cannery was formerly located on the 3.6-acrea subject site and extended off-site, covering an additional 7± acres (see Site History section for more details).

The 500-gallon gasoline tank on the subject site was found to have leaked. Soil was over-excavated in the area of the tank. Approximately 900 cubic yards of gasoline contaminated soil was removed for off-site disposal and 1,850 gallons of contaminated groundwater that seeped into the tank pit excavation was removed for off-site disposal. A subsequent soil and groundwater contamination investigation included installation of 7 groundwater monitoring wells.

Monitoring between 1990 and 1997 indicated groundwater contaminating was naturally attenuating, reducing gasoline concentrations to levels below regulatory concern. The fuel leak site was closed in September 1997 with no further action required. A copy of the closure documents is provided in Appendix E.

In addition, there are several regulatory listed sites in the vicinity. The most noteworthy are two businesses, Atlas Transmission at 1035 Pepitone Avenue and Ernest J Funk at 1045 Pepitone Avenue. These businesses are listed as small quantity generators of hazardous waste, likely due to auto repair operations. These properties are located just north of the subject site. Sprig Electric at 1303 Lick Avenue (960 feet to the south) had several underground tanks removed in 1993. Although some residual petroleum contamination was found it was determined to be minor and the case was closed by the Santa Clara Valley Water District, the local regulatory oversight agency at the time.

Based upon the distance, the type of listing or known contamination, none of these sites are suspected to pose a threat of contaminating the subject property.

OTHER RECORDS REVIEWED-AGENCIES CONTACTED

Environmental records from the following sources were reviewed during this Phase I Environmental Site Assessment to comply with ASTM standards. Local regulatory agencies were contacted as indicated by the checklist for reasonably ascertainable and reviewable documentation regarding environmental conditions or history for the site and adjoining properties. The following agencies were contacted (many via on-line records) for relevant information regarding the site as noted.

Contacted	AGENCY
X	California Department of Toxic Substances Control (DTSC)
X	City of San Jose Building Division
X	Santa Clara County Department of Environmental Health (DEH)
X	San Jose Fire Department
X	Regional Water Quality Control Board-San Francisco

SOIL, GEOLOGY, AND HYDROGEOLOGY

The site is undeveloped and slopes downward from east to west. Information about the physical setting and regional geology is presented in the following two tables.

PHYSICAL SETTING

DATA	GENERAL INFORMATION
USGS Topographic Quadrangle	The site is located at an average approximate elevation of about 112 feet above mean seal level.
Soil Type	Bottella clay loam with moderate drainage
Oil and Gas Fields	Oil and Gas fields were not located in the vicinity of the site

REGIONAL GEOLOGY AND HYDROLOGY

PHYSICAL PARAMETER	INFORMATION/COMMENTS
REGIONAL GEOMORPHIC PROVINCE	Coast Range
Depth to Regional Groundwater	The depth to groundwater ranged from 12 to 23 feet below ground surface in the 1990 to 1997 on-site fuel leak investigation
Direction of Anticipated Flow	Groundwater flow was found to vary in direction during the 1990 to 1997 on-site fuel leak investigation
Water Supply	Domestic water supply is provided from groundwater and surface water sources (San Jose Water Company)
Flood Zone Designation	No

SITE HISTORY

The history of the site was researched to identify obvious past land uses. The following table summarizes the availability of information reviewed during this assessment.

SITE HISTORY SOURCES

Parameter	Years Reviewed	Source
Aerial Photographs	1939, 1948, 1956, 1965, 1974, 1982, 1993, 1998, 2005	EDR photos
Sanborn Fire Insurance Maps	1891, 1915, 1950, 1956 and 1966	EDR
City Directories	1922 thru 2006	Report in Appendices
Historical Topographic Maps	1953, 1961, 1968, 1973, and 1980	Report in Appendices
Building Department	All records	City of San Jose web-site
Previous Assessment(s)/ Records	Santa Clara Valley Prehistory Archaeological Investigations at CA-SCL-690, The Tamien Station Site, San Jose, California	Santa Clara Valley Transportation Authority

Aerial Photographs

Historical aerial photographs for the subject parcel were reviewed for the years 1939, 1948, 1956, 1965, 1973, 1982, 1993, 1998, and 2005.

1939: The subject site is mostly developed. The eastern portion of the site is occupied by several buildings, part of the cannery operations that extend off-site to the south. The area along the northwest portion of the site (near Goodyear) appears to be occupied by a couple of structures and a small orchard. The surrounding area to the north and east is mostly developed with residences and businesses while the area to the west and south is mostly vacant or orchards.

1948: The cannery is still in existence with numerous structures along the eastern portion. The orchard and structures along the northwest area are now gone and the area is now occupied by a rail spur and vacant land. The surrounding area to the north and east is mostly developed while the properties to the south and west continue to be mostly orchards and vacant land.

1956: The site is now completely developed with the cannery structures. The bulk of the cannery operations are located on the southern portion of the site and extend south of the subject site. A new building is located in the northwest corner and a large building is now located along the rail spur.

1965: The photograph is similar to the 1956 photograph, showing cannery structures located throughout the subject site. The surrounding area is mostly developed to the north and east while a golf course is now located just west of the subject site.

1974: The definition on this photo is relatively poor but the site appears to be similar to the 1965 photograph.

1982: The site is still completely developed, similar to the 1965 and 1974 photographs. The surrounding area is also similar to the 1974 photograph with mostly vacant land and a golf course to the south and west while the area to the north and east is completely developed.

1993: The site subject site is now completely developed with no structures or improvements. Highway 87 is now located to the west and the Tamien Light Rail Station is located to the south. continues to be vacant. The surrounding area to the south is mostly residential while the area to the north is mostly vacant with some scattered agricultural.

1998: The subject site and surrounding area is very similar to the 1993 showing the subject site is vacant.

2005: The site continues to be vacant with no structures or improvements, similar to as it appears today. The surrounding area is also unchanged with Railroad tracks and Highway 87 located to the west, Tamien Light Rail Station to the south and residences and businesses to the north and east.

The historical aerial photograph series are included in the appendices.

Sanborn Fire Insurance Maps
Sanborn maps for the subject parcel were reviewed for the years 1891, 1915, 1950, 1956, and 1966.

1891: This map only covers a small part of the northern portion of the site along Goodyear Street. The map does not show any developments on the subject property. Several residences are shown on the properties to the north along Goodyear Street.

1915: The majority of the site is vacant. There are several structures along the central eastern side of the property. The properties appear to be two residences with detached garages. The surrounding area is mostly developed to the north and east and mostly vacant to the south and west.

1950: The site is occupied by a cannery, which also extends to the south of the subject site. The cannery is comprised of several different structures and includes a railroad spur along the eastern border. The labeling on the map is difficult to read, however there were no signs of tanks or hazardous materials storage. A boiler room and tank is shown on the cannery property located south of the subject area.

1956: The site is still occupied by a cannery, listed as the San Jose Cannery. The cannery has expanded since the 1950 map with several more structures. Similar to the 1950, there are no signs of tanks or hazardous materials storage. An oil tank and boiler room are located on the cannery portion south of the subject site.

1966: The Cannery continued to expand with more structures. As shown on the 1950 and 1956 map the underground tanks, boiler room and oil storage was shown on the cannery property to the south of the subject property.

City Directories

A City Directory data search was conducted which lists historic information regarding the telephone directory and business directory listings for residential and business listings from 1922 to 2006. The Directory contained the following addresses that are associated with the subject site: 448 Goodyear Street, 1141, 1145, 1181 and 1193 Lick Avenue.

Noteworthy listings included San Jose Canning Company/California Canners and Growers at 1193 Lick Avenue from 1935 to 1975. In 1985, tenants at 1193 Lick Avenue included PDQ Anodizing, Wood Classics, Summers Kevin Tire Mounting. In 1986 Bonner Anodize was listed at 1193 Lick Avenue.

Other noteworthy listings include Oddball Tire Warehouse at 1181 Lick Avenue in 1985 and 1986 and Almaden Lumber Company at 1141 Lick Avenue in 1986.

The City Directory information is included in the appendices.

Historical Topographic Maps

Historical topographic maps were obtained and reviewed for the general area surrounding the parcel. The maps available included maps from 1953, 1961, 1968, 1973, and 1980. A copy of the map series is included in the appendices.

The 1953 topo map showed the railroad spur on the subject site but no structure. The 1961 and 1968 photographs showed the rail spur and a large structure adjacent to the spur. The 1973 and 1980 maps showed the entire subject property as shaded, indicating development.

Additional site history information was found in an archaeological report provided by the Santa Clara Valley Transportation Authority. The report, *Santa Clara Valley Prehistory Archaeological Investigations at CA-SCL-690, The Tamien Station Site, San Jose, Californiab by Mark Hvlkema* indicated that the cannery was first constructed in 1919 and was in existence until 1982-83. The report indicated that the cannery operations and number of structures grew in the 1920s to 1950s, but by the 1960s the business started to decline as the Santa Clara Valley transitioned from agricultural to high technology. The adjacent rail line was built in 1935-36 and a spur was constructed to the cannery warehouses in 1942.

It should also be noted that a significant Indian burial ground was found on the property just south of the subject site. Numerous bone fragments, ornaments and shells were discovered during an extensive archaeological investigation. The remains were relocated.

According to regional maps developed and distributed by the San Francisco Bay Area Air Quality Management District for use in identifying known or likely areas of naturally occurring asbestos (NOA), the site is not in an area known or likely to contain NOA.

SITE RECONNAISSANCE

METHODOLOGY AND LIMITING CONDITIONS

The author of this report inspected the site and surrounding area on January 11, 2010. The subject site was traversed on foot in approximate 50 foot grids. Heavy vegetation obscured visual observation of the ground surface.

Photographs of the site were taken and are included in the appendices.

GENERAL SITE SETTING

The site is an undeveloped property of approximately 3.6 acres. The property is fenced along Lick Avenue and Goodyear Street. The site is relatively flat. Some litter and debris was observed on the site, such as paper products, wood and metal objects. The debris was scattered and appeared limited, although the vegetation limited viewing. No evidence of major dumping or placement of fill was observed, although some soil piles and debris was observed on the vacant property just south of the subject site that appeared likely to have been illegally dumped.

The following two tables summarize the site observations.

SITE OBSERVATIONS

GENERAL OBSERVATIONS	REMARKS	OBSERVED	NOT OBSERVED
Current Use	Vacant Land	x	
Current Use likely to indicate REC's	No current uses likely to indicate REC's		x
Past uses	Historical Vacant Parcel		x
Past use likely to indicated REC's	Nothing observed on site indicative of past uses which might lead to REC's		x
Structures	None observed		x
Roads	None observed		x
Topography of site and surrounding area	Relatively flat	x	
Above ground storage tank	No above ground storage tanks observed		x
Asbestos and Lead	None observed. Not in location of known naturally occurring asbestos (NOA). No on-site structures.		x
Below grade vaults	None observed		x
Burned or buried debris	None observed		x
Chemical storage	No chemical storage areas observed		x
Chemical Mixing areas	No chemical mixing areas observed		x
Discolored soil or water	Not observed		x
Ditches, streams	Curbside gutters, no surface drainage courses observed		x

Drains and piping (e.g. floor drains/trenches, bay drains, sand traps, grease traps	None observed		x
Drums	Not observed		x
Electrical or hydraulic equipment/potential PCB transformer	Not observed		x

SITE OBSERVATIONS WHICH MAY INVOLVE THE USE, STORAGE, DISPOSAL, OR GENERATION OF HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS

GENERAL OBSERVATIONS	REMARKS	OBSERVED	NOT OBSERVED
Fill Dirt from unknown sources	Not observed.		x
Fill dirt from a known source	Not observed.		x
Hazardous chemical and petroleum products in connection with known use	Not observed		x
Non-hazardous containers with contents	Not observed		x
Hazardous Waste storage	Not observed		x
Heating and cooling system and fuel source	Not observed		x
Industrial waste treatment equipment	Not observed		x
Loading and unloading areas	Not observed		x
Odors	Not observed		x
Pits, Ponds, Lagoons	Not observed		x
Pools of liquids	Not observed		x
Process wastewater	Not observed		x
Sanitary sewer system	Not observed		x
Septic system (e.g. tank and leach fields)	Not observed		x
Soil piles	Not observed		x
Solid waste	Not observed. Some scattered debris (paper, wood, metals)		x
Unauthorized dumping	Not observed		x

Stained pavement or concrete	Not observed		x
Stains or corrosion (interior, non-water)	Not observed		x
Storm drains/catch basins	Not observed		x
Stressed vegetation	Not observed		x
Sumps and clarifiers	Not observed		x
Surface water	Not observed		x
Underground storage tanks including heating oil tanks	Not observed		x
Unidentified substance containers	Not observed		x
Waste water discharge	Not observed		x
Water supplies (potable and process)	Not observed		x
Wells (irrigation, monitoring, or domestic)	Not observed		x
Wells (dry)	Not observed		x
Wells (oil and gas)	Not observed		x

INTERVIEWS

INTERVIEW WITH OWNER

An interview was conducted with Jennifer Rocci, a representative of the current owner, Santa Clara Valley Transportation Authority (VTA). Ms. Rocci stated that the VTA purchased the subject site and property to the south in 1988. They demolished the cannery structures in 1989 to began construction of the Tamien Light Rail Station on the property to the south. She reviewed the file for the property and found an Archaeological Investigation of the subject property. She did not find any other Phase I and Phase II reports, although she did see a financial summary letter of the transaction that listed funds spend on Hazardous Materials investigation. This may be the fuel leak cleanup summarized in the Regulatory Records section.

The Archaeological Investigation is summarized in the Site History section of this report.

INTERVIEWS WITH LOCAL GOVERNMENT OFFICIALS

No government agency representatives were contacted regarding the history of the property. Information from appropriate government agencies was accessed via the internet.

FINDINGS

Recognized environmental conditions (REC's) are defined by the ASTM Standard Practice E1527-00 as the presence or likely presence of any hazardous substance or petroleum products under conditions that indicate an existing release, a past release, or a material threat of a release into structures on the property or into the ground, groundwater, or surface water of the property.

This assessment has not revealed any recognized environmental conditions associated with the subject property.

Historical recognized environmental conditions (HREC's) are defined by the ASTM Standard Practice E11527-05 as an environmental condition which in the past would have been considered a recognized environmental condition, but which may or may not be considered a recognized environmental condition currently.

This assessment has revealed one historical recognized environmental condition – the former 500-gallon leaking underground fuel leak located in the central portion of the property. Gasoline contaminated soil and groundwater was found after the tank was removed in 1989. The site is listed on the local and State leaking underground storage tank databases. Subsequent investigations indicated the contamination had attenuated to concentration below levels of regulatory concern and case received closure from the local and State regulatory agencies in 1997. No further action is required.

Environmental issues are defined as environmental concerns identified that warrant discussion but do not qualify as recognized environmental conditions, as defined by ASTM Standard Practice E1527-05.

This assessment has revealed evidence that a cannery was formerly located on the subject site from 1919 to 1983. A rail spur was located in the western portion of the subject site. Although maps and other information indicate the bulk of cannery operations were located to the south of the subject site, numerous warehouses and other cannery structures were located on the subject site, including the previously mentioned 500-gallon underground gasoline tank. The current owner, Santa Clara Valley Transportation Agency (VTA), who purchased the site in 1988 did not provide the City with any Phase I or Phase II Environmental Site Assessments. This historic industrial use is considered an environmental issue.

CONCLUSIONS, OPINIONS AND RECOMMENDATIONS

The Environmental Services Department (ESD) has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-05 for a portion of Assessor's Parcel Number 434-13-032 in San Jose. Any exceptions to or deletions from this practice are described in the Deviations Section of this report. The subject site is a 3.6 acre property located southwest of the intersection of Lick Avenue and Goodyear Street, just north of the Tamien Light Rail Station. Although the site is currently vacant with no visual indication of contamination, the site history indicates that a cannery was located on the subject property between 1919 and 1983. The on-site cannery operations included numerous structures and a rail spur in the western portion of

the site. A 500-gallon underground fuel tank was removed from the central portion of the site in 1989.

Although no Recognized Environmental Conditions were discovered, one Historic Recognized Environmental Condition and Environmental Issues were noted. The 500-gallon fuel tank is considered an historic recognized environmental condition due to it past listing as an active leaking underground storage tank site. Although some residual gasoline contamination is located in the soil and groundwater beneath a portion of the site, the concentrations are relatively minor and would not likely be a public health threat to the intended use of the property (public park). However due to the proposed change in land use, the local oversight agency (Santa Clara County Department of Environmental Health) for leaking fuel tanks should be contacted to determine if any further investigation will be required.

With over 60 years of industrial use, there are concerns that past practices may have impacted the underlying soil and possibly groundwater. The potential exists that the cannery operations included the storage and use of hazardous materials, in addition to the already documented former underground storage tank. The former rail spur is also a concern due to historic practices of commonly applying herbicides, oils containing polychlorinated biphenyls (PCBs) and arsenic for weed control and the possibility of creosote in the rail ties.

ESD recommends that a Phase II investigation be performed to investigate potential impacts from the former cannery operations.

DEVIATIONS

No property tax files were reviewed. No recorded land title records were reviewed. No valuation reduction for environmental issues was conducted as no significant environmental conditions were identified. No research was conducted regarding environmental liens or activity and use limitations.

This Phase I Environmental Assessment does not incorporate non-scope considerations, such as testing for asbestos containing materials, radon, lead based paint, lead in drinking water, wetlands delineation, regulatory compliance, cultural and historical resources, industrial hygiene, health and safety, ecological resources endangered species, or indoor air quality.

SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

The City of San José Environmental Services Department has performed a Phase I Environmental Site Assessment for part of APN 434-13-032 in conformance with the scope and limitations of ASTM Standard Practice E1527-05 and in accordance with the federal EPA "All Appropriate Inquiries" (AAI) final rule effective November 1, 2006. Any exceptions to, or deletions from, this practice are described in the report.

Prepared by:

Geoff Blair

GEOFF BLAIR

Associate Engineer
Environmental Compliance & Safety
Environmental Services Department
REA-04283 (expires 6/30/10)

QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Geoff Blair is an Associate Engineer with the City of San José's Environmental Services Department (ESD) in the Municipal Environmental Compliance group. Among Geoff's duties is performing Phase I environmental site assessments and Phase II soil and groundwater investigations, managing several active City-owned leaking underground storage tank (LUST) sites and overseeing investigations, monitoring and compliance at several City-owned closed landfills. Geoff first started with the City of San José in 1998, working in the Watershed Protection Division.

Prior to working for the City, Geoff worked for 8 years at several Bay Area environmental consulting firms. His duties included performing Phase I and II environmental site assessments, leaking underground storage tanks investigations, and designing and implementation of remedial actions. He graduated from University of California at Santa Barbara with a B.S. in Chemical Engineering.

CITY OF SAN JOSE
CAPITAL OF SILICON VALLEY

Environmental Services

April 23, 2010

Ms. Monica Kavanaugh
Real Property Agent
Real Estate Services and Asset Management
1661 Senter Road, 3rd Floor
San Jose, CA 95112

Subject: **Limited Phase II Environmental Site Investigation**
Proposed Tamien Park Site
APN 434-13-032
San Jose, California

Dear Ms. Kavanaugh,

This report, prepared by the City of San Jose Environmental Services Department (ESD), presents a *Limited Phase II Environmental Site Investigation* report (*Report*) for the referenced Tamien Park site (Site). This report presents the results of a soil and groundwater Site assessment completed to investigate potential impacts from the former cannery operations conducted at the Site. These activities were recommended in the *Phase I Environmental Site Assessment* report by ESD, dated February 5, 2010 and have been completed for the potential property acquisition of the Site from the current owner, Valley Transportation Authority (VTA).

SITE DESCRIPTION AND BACKGROUND

The subject site is located southwest of the Goodyear Street and Lick Avenue intersection in San Jose, California (see Figure 1). The Site is bordered by Lick Avenue, residences and businesses to the east, residences and Goodyear Street to the north, vacant land and the Tamien Light Rail Station parking lot to the south, and railroad track, Highway 87 and the Light Rail line to the west. The Site is currently undeveloped and located on approximately 3.5-acres portion of Assessors Parcel Number (APN) 434-13-032. Addresses historically associated with the site include 1141 to 1193 (Odd) Lick Avenue and 448 Goodyear Street.

Historical findings indicated that a cannery was located on the subject site from 1919 to the early 1980s. The cannery consisted of numerous buildings, structures and improvements and extended south of the subject site. After closure, the cannery was occupied by several commercial/industrial tenants until purchased by the Santa Clara Valley Transportation Authority in 1988, along with the property to the south for construction of the Tamien Light Rail Station. The cannery buildings were demolished in 1989 and the subject site has remained vacant, while the property to the south was developed as a parking lot for the Light Rail Station. A 500-gallon underground storage tank containing gasoline was removed from the central portion of the site in 1989 and was found to have leaked. Subsequent investigations between 1990 and 1997 indicate some residual gasoline contamination in the soil and groundwater remain, however the concentrations were determined to be below levels of regulatory concern and the case received regulatory closure.

Due to the over 60 years of cannery operations, the rail spur and information on historic hazardous materials storage and use, there is a concern that past site uses may have adversely impacted the subject site. As a result, ESD completed this Phase II investigation that is further described herein.

SCOPE OF WORK

ESD subcontracted the field work portion of this project to AECOM, Inc. (AECOM). The field work consisted of advancing six exploratory boreholes (B-1 thru B-6) using a direct push drilling rig to collect soil and groundwater samples for chemical analysis. The location of each boring is shown on Figure 2.

Task I Pre-field Activities

Prior to the start of drilling activities, the following pre-field activities were completed: 1) The City obtained a VTA Construction Access Permit that is provided as Attachment A of this report, 2) Exploratory borings were marked out, 3) The existence and location of underground utilities or obstructions were identified by a professional private underground utility locator, 4) Underground Service Alert (USA) was notified 72 hours prior to drilling, and 5) A site Health and Safety Plan was prepared by AECOM and used during all field activities.

Task II Exploratory Borehole Drilling

An AECOM Geologist oversaw the drilling of exploratory borings B-1 through B-6. The borings were drilled between 2-24 feet below ground surface (bgs) using truck mounted direct-push drilling equipment. Soil was retrieved from the subsurface using macro-core acetate liners every four feet. The soil characteristics and any other field observations were logged by the onsite Geologist using the Unified Soil Classification System (USCS). Selected soil samples were preserved in the acetate liner, capped, labeled and submitted for chemical analysis. Boring logs are provided as Attachment B.

Boring B-2 was originally intended to be drilled to a depth of 20 feet bgs, however an obstruction was encountered in Boring B-2 at 2 feet bgs. Despite several efforts to relocate the boring in four different locations in this area, the obstruction was encountered in all locations at

approximately 2 feet bgs. As a result the boring was terminated at 2.5 feet bgs and a sample collected at 2 feet bgs. Due to the existing subsurface conditions, groundwater was only encountered in Boring B-1. In an effort to encounter groundwater, the total depth was extended to 24 feet bgs in Borings B-3. However, a dry to moist clay layer, also known as "bay mud", was encountered and showed no signs of shallow groundwater. As a result, total depths were extended in Borings B-5 and B-6 in an attempt to collect shallow groundwater, however, similar conditions were encountered and groundwater was not identified. The grab groundwater sample collected from Boring B-1 was preserved in an appropriate laboratory supplied container for chemical analysis.

Following the completion of drilling activities, each soil boring was backfilled with neat cement grout to the surface and finished to match the surrounding surface area. All downhole drilling and sampling equipment was steam-cleaned or cleaned with tri-sodium phosphate solution prior to and between uses.

RESULTS

Geologic Conditions

During borehole exploration, a sandy silt or fine sand was identified to a maximum depth of 5 feet bgs, overlain a mixture of sandy or silty clay in Borings B-1, B-5 and B-6 to maximum depth of 15 feet bgs. Boring B-3 was identified with a gravelly sand interbedded with finer sands to a maximum depth of 20 feet bgs and Boring B-4 was identified with a sandy clayey silt with gravel to a total depth of 10.5 feet bgs. With the exception of Borings B-1 and B-2, a fat clay also known as "bay mud" was identified at the shallowest depth of 13 feet bgs to total depths explored. A silty sand was identified in Boring B-1 to it's total depth explored of 20 feet bgs and Boring B-2 encountered an obstruction at 2 feet bgs. Groundwater was only encountered in Boring B-1 at 15 feet bgs.

Analytical Results

A total of six soil samples and one groundwater sample were collected and submitted for chemical analysis to Delta Environmental Laboratories, LLC, (Delta), a State-certified laboratory in Benicia, California. A combination of the following analysis was run on each sample:

Total Petroleum Hydrocarbons as Diesel (TPHd) and Motor Oil (TPHmo) – EPA Method 8015 B
Total Petroleum Hydrocarbons as Gasoline (TPHg) – EPA Method 8260 B
Volatile Organic Compounds (VOCs) – EPA Method 8260 B
Volatile Organic Compounds (SVOCs) – EPA Method 625/8270 C
CAM 17 Metals – EPA Method 6010/7000
Polychlorinated Biphenyls (PCBs) – EPA Method 608/8082
Herbicides – EPA Method 615/8150
Organochlorine Pesticides – EPA Method 608/8081
Oil and Grease – EPA Method SM 5520 B/1664

Soil and groundwater analytical results are listed on Tables 1, 2 and 3 and certified analytical reports and chain-of-custody documentation are included in Attachment D.

Soil:
Laboratory analytical results indicate that oil and grease was identified in one of the six soil samples, Boring B-6 at 2 feet bgs with a concentration of 235 mg/kg or part per million (ppm). Chloroform was detected in all six soil samples ranging from 0.0025 to 0.00555 ppm. No other petroleum hydrocarbons or VOCs and SVOCs were identified above laboratory reporting limits. No pesticides, herbicides or polychlorinated biphenyls (PCBs) were detected above laboratory reporting limits.

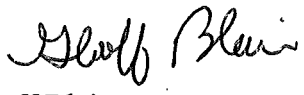
Of the 17 metal analyzed, silver, molybdenum and selenium were identified below laboratory reporting limits. All other metals conta

Groundwater:
Grab-groundwater results from Boring B-1 indicate that no petroleum hydrocarbons and VOCs were identified above laboratory reporting limits.

FINDINGS

With the exception of arsenic, cadmium and thallium, all analytical results were below Regional Water Quality Control Board Environmental Screening Levels (ESLs) and/or California Human Health Screening Levels (CHHSLs). Cadmium ranged from 5.41 to 7.4 ppm, above the residential CHHSL of 1.7 ppm but below the commercial/industrial CHHSL of 7.5 ppm. Thallium ranged from 29.1 to 33.9, above the residential CHHSL of 5 ppm but also below the commercial/industrial CHHSL of 63 ppm. Five of six arsenic samples were between 2.78 and 4.64 ppm while one sample contained 25.8 ppm.

If you have any questions you can contact me at (408) 975-2576.
Sincerely,



Geoff Blair
City of San Jose Environmental Services Department
Environmental Sustainability and Compliance
200 E. Santa Clara Street, 10th Floor
San Jose, CA 95113

FIGURES

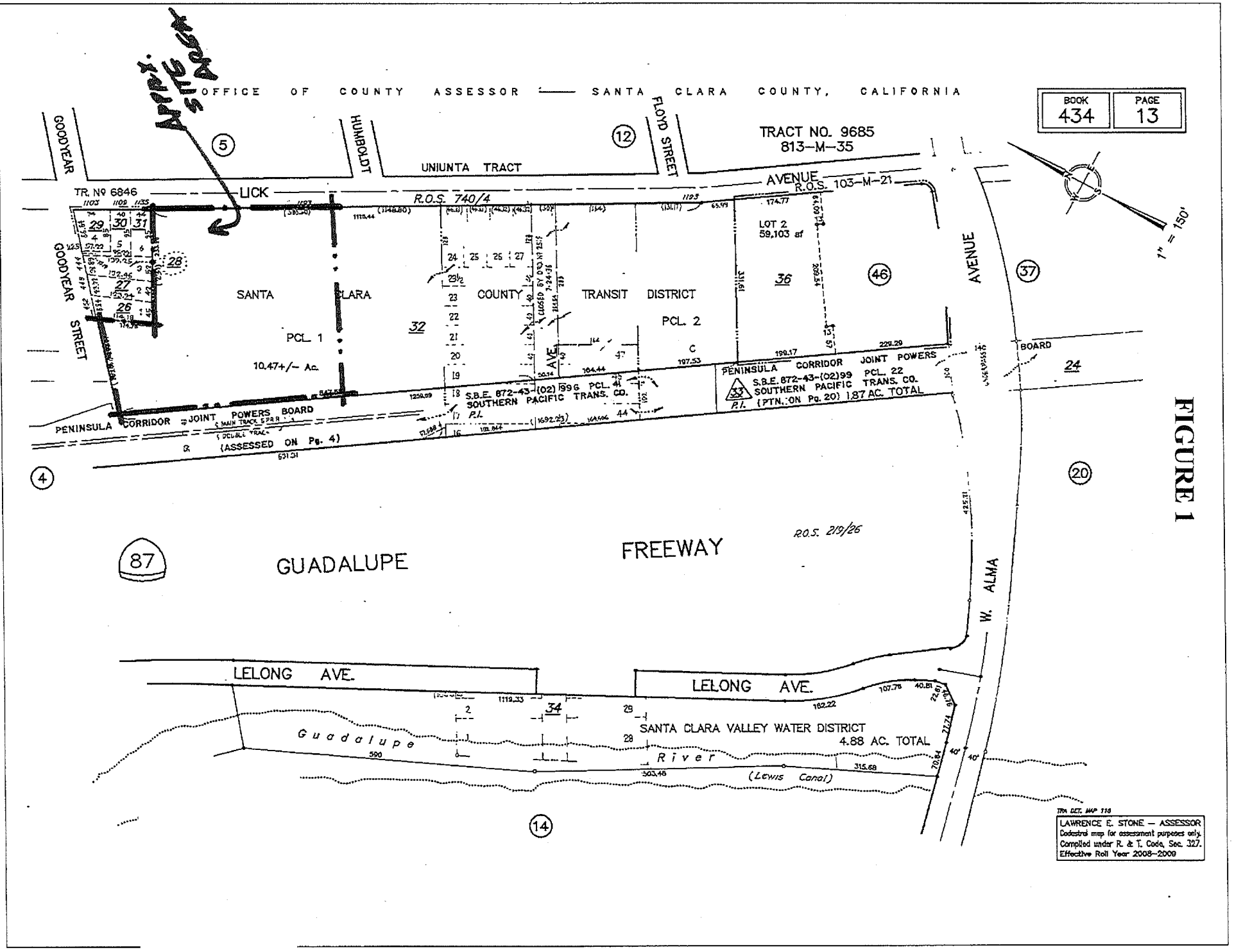
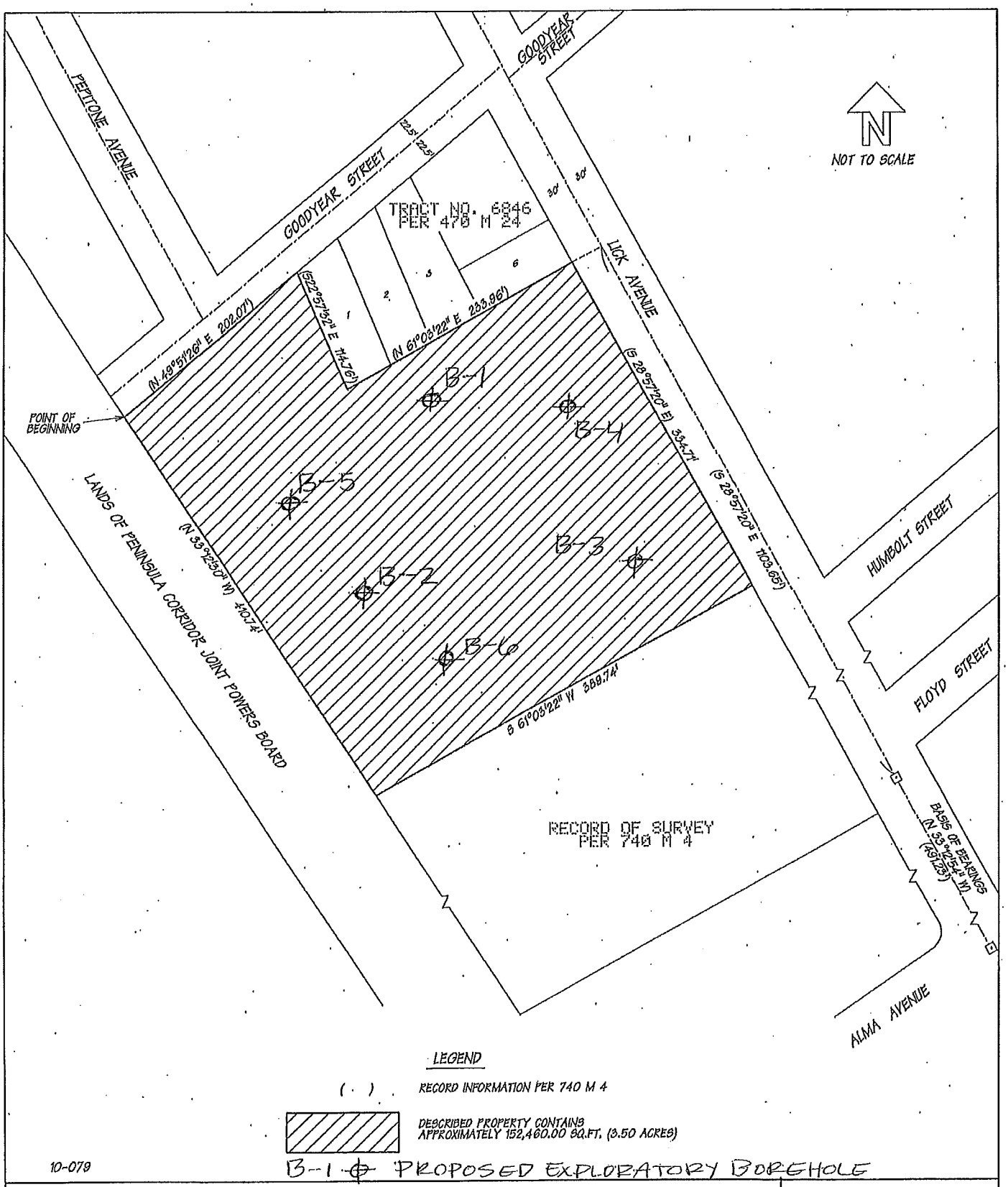

OFFICE OF COUNTY ASSESSOR — SANTA CLARA COUNTY, CALIFORNIA
BOOK 434
PAGE 13
APPX. SITE AREA
GOODYEAR
HUMBOLDT
FLOYD STREET
TRACT NO. 9685
813-M-35
UNIUNTA TRACT
TR. Nº 6846
LICK
R.O.S. 740/4
AVENUE
R.O.S. 103-M-21
LOT 2
59,103 sf
GOODYEAR STREET
SANTA CLARA COUNTY TRANSIT DISTRICT
PCL. 1
10.47+/- Ac.
PCL. 2
S.B.E. 872-43-(02)99 PCL. 41
SOUTHERN PACIFIC TRANS. CO.
P.L.
PENINSULA CORRIDOR JOINT POWERS BOARD
(ASSESSED ON Pg. 4)
PENINSULA CORRIDOR JOINT POWERS BOARD
S.B.E. 872-43-(02)99 PCL. 22
SOUTHERN PACIFIC TRANS. CO.
(PTN. ON Pg. 20) 1.87 AC. TOTAL
AVENUE
W. ALMA
GUADALUPE
FREEWAY
R.O.S. 219/26
LELONG AVE.
LELONG AVE.
SANTA CLARA VALLEY WATER DISTRICT
4.88 AC. TOTAL
Guadalupe River
(Lewis Canal)
1" = 150'
LAWRENCE E. STONE — ASSESSOR
Cadastral map for assessment purposes only.
Compiled under R. & T. Code, Sec. 327.
Effective Roll Year 2008-2009

FIGURE 1

FIGURE 2



PLAT TO ACCOMPANY
DESCRIPTION OF REAL PROPERTY

PREPARED BY
CITY OF SAN JOSE
SURVEY SECTION
FEBRUARY 2, 2010

TABLES

Table 1
Hydrocarbon/VOCs/SVOCs Analytical Results

Tamien Project Site
San Jose, California

			EPA Method 8020/8015					EPA Method 8015B		EPA Method 1664	EPA Method 8260B	EPA Method 8270C
Sample ID	**Date**	**Depth (feet)**	**TPHg**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**TPHd**	**TPHmo**	**Oil & Grease**	**VOCs**	**SVOCs**
Soil (mg/kg)												
		Residential ESLs	*83*	*0.044*	*2.9*	*2.3*	*2.3*	--	--	--	--	--
		Commercial ESLs	*83*	*0.044*	*2.9*	*3.3*	*2.3*	--	--	--	--	--
B-1-5	4/7/2010	5	<0.25	<0.0025	<0.005	<0.0025	<0.0075	<2.5	<5.0[a]	NA	ND[b]	NA
B-2-2	4/7/2010	2	<0.25	<0.0025	<0.005	<0.0025	<0.0075	<2.5	<5.0[a]	NA	ND[c]	ND
B-3-5	4/7/2010	5	<0.25	<0.0025	<0.005	<0.0025	<0.0075	<2.5	<5.0[a]	NA	ND[d]	NA
B-4-5	4/7/2010	5	<0.05	<0.0025	<0.005	<0.0025	<0.0075	<2.5	<5.0	NA	ND[e]	ND
B-5-2	4/7/2010	2	<0.05	<0.0025	<0.005	<0.0025	<0.0075	<2.5	<5.0	<25	ND[f]	NA
B-6-2	4/7/2010	2	<0.05	<0.0025	<0.005	<0.0025	<0.0075	<2.5	<5.0	235	ND[g]	NA
Groundwater (µg/L)												
		Residential ESLs	*100*	*1*	*40*	*30*	*20*	--	--	--	--	--
		Commercial ESLs	*100*	*1*	*40*	*30*	*20*	--	--	--	--	--
B-1-GW	4/7/2010	--	<50	<0.5	<0.5	<0.5	<1.0	<50	<350	NA	ND	ND

Notes:

TPHg = Total Petroleum Hydrocarbons as gasoline
TPHd = Total Petroleum Hydrocarbons as diesel
TPHmo = Total Petroleum Hydrocarbons as motor oil
VOCs = Volatile Organic Compounds
SVOCs = Semi-Volatile Organic Compounds
a = Non-targted peaks in the TPH-mo range is that are evaluated to be 9.52 mg/kg
b = Chloroform detected at 0.00348 mg/kg.
c = Chloroform detected at 0.00555 mg/kg.
d = Chloroform detected at 0.00495 mg/kg.
e = Chloroform detected at 0.0025 mg/kg.
f = Chloroform detected at 0.00335 mg/kg.
g = Chloroform detected at 0.0034 mg/kg.
ND = Not detected
NA = Not Analyzed
EPA = Environmental Protection Agency
ESLs = Environmental Screening Levels for shallow, drinking water resource, San Francisco Regional Water Quality Control Board, May 2008

Table 2
CAM 17 Metal Analytical Results

Tamien Project Site
San Jose, California

			EPA Method 200.7/245.1																
Sample ID	Date	Depth (feet)	Silver	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Total Chromium	Copper	Mercury	Molydbenum	Nickel	Lead	Antimony	Selenium	Thallium	Vanadium	Zinc
Soil (mg/kg)																			
Commercial CHHSLs			*4,800*	*0.24*	*63,000*	*1,700*	*7.5*	*3,200*	*--*	*38,000*	*180*	*4,800*	*16,400*	*3,500*	*380*	*4,800*	*63*	*6,700*	*100,000*
Residential CHHSLs			*380*	*0.07*	*5,200*	*150*	*1.7*	*660*	*--*	*3,000*	*18*	*380*	*1,600*	*150*	*30*	*380*	*5*	*530*	*23,000*
B-1-5	4/7/2010	5	<0.25	4.64	191	0.775	7.2	20.9	121	30.4	0.301	<0.25	192	5.9	2.67	<0.50	33.9	61.9	59.3
B-2-2	4/7/2010	2	<0.25	25.8	200	0.744	6.95	15.3	113	31.4	0.483	<0.25	159	16.9	2.56	<0.50	29.4	45.3	77.3
B-3-5	4/7/2010	5	<0.25	2.78	103	0.73	7.4	18.8	146	23.1	0.353	<0.25	184	4.87	2.99	<0.50	32.5	64.3	62.7
B-4-5	4/7/2010	5	<0.25	3.09	134	0.742	5.41	19.2	125	23.6	0.453	<0.25	168	4.51	2.13	<0.50	29.1	61.1	50.4
B-5-2	4/7/2010	2	<0.25	3.82	145	0.857	6.4	21.2	177	34.9	2.24	<0.25	182	14.4	2.81	<0.50	32.9	67.3	81.8
B-6-2	4/7/2010	2	<0.25	3.73	220	0.893	6.58	29.4	138	34.7	1.39	<0.25	214	16.7	2.21	<0.50	31.2	63.4	104

Notes:

EPA = Environmental Protection Agency

CHHSLs = California Human Health Screening Levels for Soil, California Environmental Protection Avency, January 2005

Table 3
Pesticides/Herbicides/PCBs Analytical Results

Tamien Project Site
San Jose, California

			EPA Method 8081	EPA Method 8151A	EPA Method 8082
Sample ID	**Date**	**Depth (feet)**	**Pesticides**	**Herbicides**	**PCBs**
Soil (mg/kg)					
		Commercial CHHSLs	*varies*	*varies*	*varies*
		Residential CHHSLs	*varies*	*varies*	*varies*
B-1-S	4/7/2010	5	ND	ND	ND
B-2-2	4/7/2010	2	ND	ND	ND
B-3-S	4/7/2010	S	ND	ND	ND
B-4-5	4/7/2010	5	ND	ND	ND
B-5-2	4/7/2010	2	ND	ND	ND
B-6-2	4/7/2010	2	ND	ND	ND

Notes:

EPA = Environmental Protection Agency
CHHSLs = California Human Health Screening Levels for Soil, California Environmental Protection Agency, January 2005

ATTACHMENT A

VTA CONSTRUCTION ACCESS PERMIT

Construction Access Permit

SANTA CLARA
Valley Transportation Authority

Construction Division, Permits and Utility Locating Services --3331 N. First Street, Bldg. B -- San Jose Ca. 95134

Name: CSJ Environmental Serv. Dept.
Address: 200 East Santa Clara Street
San Jose Ca. 95113-

Office Phone: (408) 475-2576
FAX: (408) 292-6213
Job Phone:

Contact Person: Geoff Blair
Title: Assoc. Engineer
Email: geoffrey.blair@sanjosec a.gov

Emergency Contact Person: Geoff Blair
Emergency Phone: (408) 250-3077

Date Issued: 03/26/10

Date Expires: 09/26/10

Location of Work:

1141 to 1193 Lick Avenue, San Jose

Description of Work:

6 Groundwater & Soil Borings

Permit Number 03100010

Start Date: \ \
Completion Date: \ \
Issued By: [illegible]
Title: Permit Technician
Permit Extended to:
Extended By:

Date Completed : \ \
By Inspector:
Comments:

INSPECTION REQUIRED

CALL 321-5856 48 HOURS BEFORE STARTING ANY WORK

THIS PERMIT MUST BE AVAILABLE FOR INSPECTION AT ALL TIMES

CALL USA BEFORE YOU DIG (1-800) 227-2600

Construction Access Permit

Permit Number: 03100010

Special Conditions

01. Permittee shall notify Permits & Utility Locating Services, (P&ULS) Steve Silveira at (408) 952-8934 - 48 hours before starting work. If no answer, call the main line at (408) 321-5856.
02. City of San shall review the data developed by the investigation with VTA prior to developing the results and conclusions in the Ph2 investigation report.
03. Permittee shall notify Underground Service Alert (USA) at (800) 227-2600 at least two working days, but not more than twenty-eight calendar days prior to commencing any excavation.
04. All work shall follow the Santa Clara Valley Transportation Authority's General Conditions. (See Attached).
05. No bore spoils shall be deposited or spread on site without proper testing of the spoils, certifcation that the spoils are clean, and without written approval from VTA. VTA shall receive copies of all certified test results, prior to any on site disposit
06. If the duration of the project or other inspection requirements and expenses exceed the fee estimate, the permittee will be required to pay additional fees.

INSPECTION REQUIRED

CALL 321-5856 48 HOURS BEFORE STARTING ANY WORK

THIS PERMIT MUST BE AVAILABLE FOR INSPECTION AT ALL TIMES

CALL USA BEFORE YOU DIG (1-800) 227-2600

Santa Clara Valley Transportation Authority

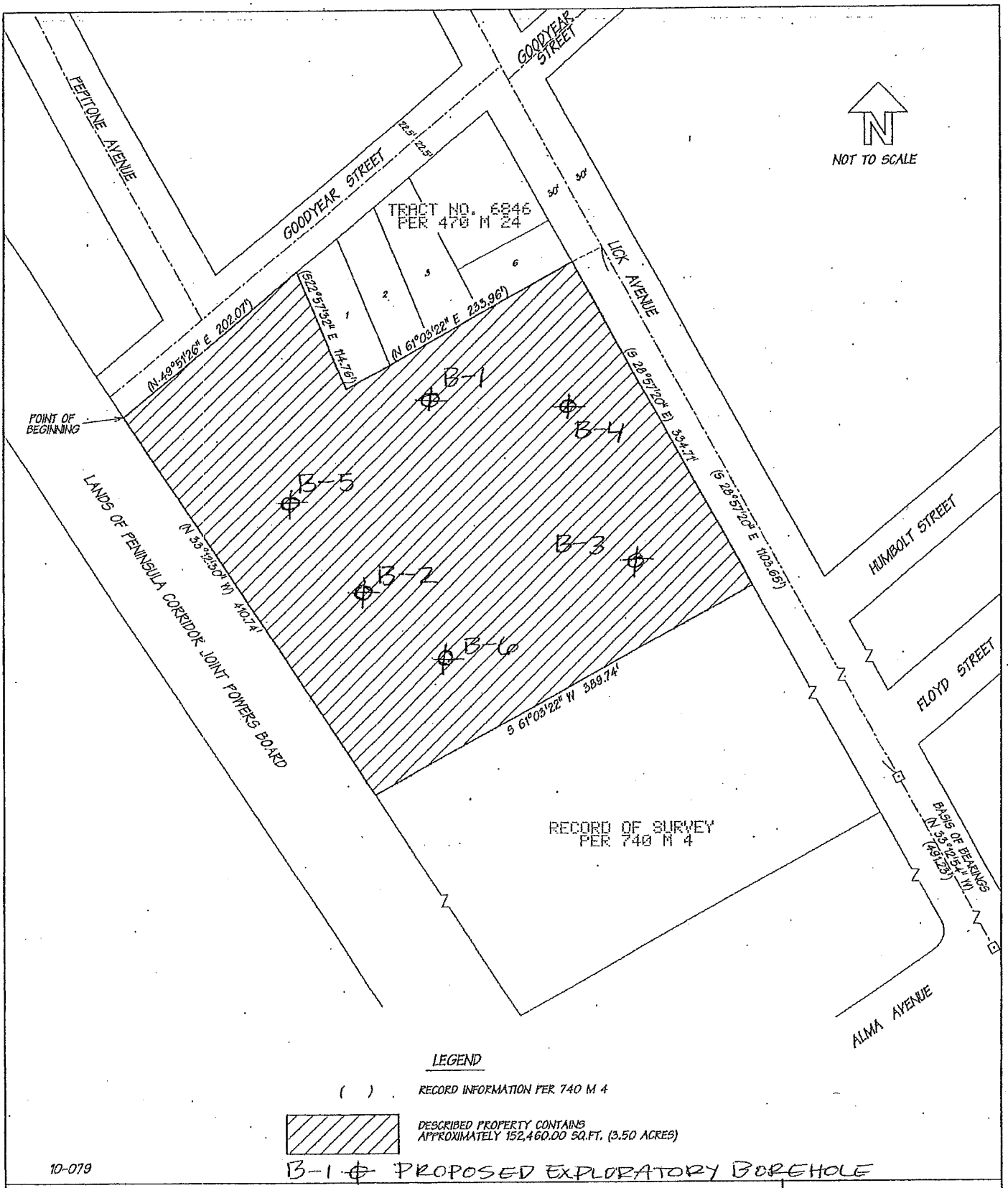
Construction Access Permit – General Conditions

(All applicable)

VTA grants Permittee a revocable right to access for the purpose of performing work described in the attachments hereto, subject to the conditions and restrictions of this Permit.

1. Permittee shall notify Underground Service Alert (USA North) at (800) 227-2600 at least 2 working days, but not more than 28 calendar days, before commencing any excavation. Permittee shall expose underground facilities by hand before using power equipment as stated in GC4216.4a. In the case of an emergency repair (as defined by California Government Code 4216), Permittee shall notify USA as required by California law.
2. Permittee shall notify VTA's Construction Division, Permits and Utility Locating Services Department at (408) 321-5856 at least 48 hours before starting any work under this Permit. Should work be discontinued for more than one working day, Permittee shall again notify Permits and Utility Locating Services Department at least 48 hours before re-starting work.
3. Permittee shall maintain a copy of this Permit on the job site for the duration of the construction period. Permittee shall show the Permit to any representative of Santa Clara Valley Transportation Authority (VTA) or any law enforcement officer upon demand. Commencement of work constitutes acceptance of the terms, conditions and all provisions of this Permit.
4. All work shall be performed in accordance with the conditions and restrictions of this Permit and any attachments hereto; VTA Standard Plans and Details; and State of California, Department of Transportation (Caltrans) Standard Specifications and Standard Plans, latest issue. VTA may require Permittee to submit satisfactory evidence that the Permit work was performed in compliance with the Permit plans and the conditions and restrictions of this Permit. VTA may require modification of submitted plans as needed due to special field conditions that may exist at the time of construction.
5. All work shall be performed in accordance with CAL OSHA Safety Orders, latest issue, and with other applicable laws and regulations.
6. Permittee shall indemnify, defend and hold harmless VTA, its officers, employees and agents, from and against any claim, liability, loss, injury, expense or damage, including reasonable attorney's fees and costs, arising out of, or in connection with, the issuance of this Permit or any work or activities performed hereunder.
7. Permittee shall, within 30 days of written request, unless otherwise agreed to by VTA in writing, remove or relocate, without expense to VTA, any or all facilities installed hereunder if VTA determines that such removal or relocation is either necessary or appropriate.
8. Permittee shall assume entire responsibility for all activities and uses under this Permit.

9. This Permit is valid only for the purpose specified herein. No changes to this permit or attachments are permitted except upon prior written permission from a representative of the Permits and Utility Locating Services Department.
10. Permittee shall provide any surveying and construction staking, engineering, soils or geological investigations, or other services etc. as required.
11. Any damage to VTA property or right-of-way related to or caused by any activity under this Permit shall be repaired to as good or better a condition, to the satisfaction of VTA, at Permittee's sole expense. Should Permittee fail to promptly make such repairs, VTA may proceed to have the damage corrected or completed using VTA or third party forces. The Permittee shall pay the costs of all such corrections promptly.
12. This Permit may be revoked by VTA for any cause and at any time. If the Permit is revoked, VTA will require Permittee, at Permittee's expense, to restore VTA's property or right-of-way, to as good or better condition and Permittee shall vacate the premises. Should Permittee fail to promptly make such repairs, VTA may have items corrected or completed using VTA or third party forces. Permittee shall pay the costs of all such corrections promptly.
13. Permittee shall place and maintain appropriate signs, barricades, flaggers and warning lights to protect the public and shall maintain safe crossings for pedestrian, vehicular, bus, and light rail traffic during the entire course of the work. VTA may require Permittee to submit traffic control plans. In such an instance, Permittee shall obtain VTA's approval of the traffic control plans before performing any work that may impact pedestrians, vehicular, bus or light rail traffic.
14. Permittee shall maintain the work area in a safe condition at its sole cost and expense until the work is accepted by VTA.
15. Permittee shall obtain all necessary permits that may be required from other jurisdictions to complete this work. VTA may require Permittee to submit satisfactory evidence of such compliance upon request. This Permit shall not be construed as authorization for work on private property adjacent to VTA property or any other work for which a separate permit is required.
16. Permittee shall contact the Permits and Utility Locating Services Department at (408) 321-5856 to provide Permittee's anticipated project completion date and to schedule a final inspection date.
17. In addition to this Construction Access Permit, when workers or their equipment are working within or have the potential of working within 10' of light rail tracks or systems, or over or under any catenary system, Permittee shall obtain a Light Rail Restricted Access Permit and have all workers complete a Safety Training Class. Call (408) 546-7608 for further information.
18. Permittee shall perform its work in such a manner and at such times as required by VTA so that Permittee does not endanger the property of VTA, its tenants or licensees or interfere with the safe operation of VTA facilities, light rail or bus s services.



10-079

PLAT TO ACCOMPANY DESCRIPTION OF REAL PROPERTY

CAP # 03100010 PC10-0010

PREPARED BY
CITY OF SAN JOSE
SURVEY SECTION
FEBRUARY 2, 2010

ATTACHMENT B

BORING LOGS

Project No.: 60150668	AECOM	Borehole/Well No: B-1 Page 1 of 1

Number of Samples: 4 soil Depth to Water: 15' Depth to Bedrock: NA Elevation: NA Latitude: NA Longitude: NA	Project Name: City of San Jose Tamien Phase II Borehole Location: 1193 Lick Avenue, San Jose, CA Driller: EnProb Drilling Equipment: GeoProbe 6600 Drilling Method: Hand Auger to 5' Direct Push to 20' Drilling Fluid: None Completion Information: grouted boring to surface	Borehole Depth: 20' Borehole Diameter: 2" Start Date: 4/7/2010 Completion Date: 4/7/2010 Logged By: Carmen Goodell Checked By: Luis Fraticelli Date Checked: 04-15-10

Sample Interval	Time	PID (ppm)	Blow Count	Recovery	Sample ID	Depth (feet)	Soil Graphic	Rock Type	Lithology	Remarks
2-2.5	1032	0			B-1-2			ML	0-4' SANDY CLAYEY SILT WITH GRAVEL: very dark gray (5YR 3/1); 55% silt, 30% clay, 15% fine sand, trace gravel; low plasticity; damp.	Hand augured to 5' bgs. Breathing zone (BZ) = 0 ppm.
5-5.5	1042	0			B-1-5	5		CL	4-11.5' SILTY CLAY: very dark grayish brown (10YR 3/2); ~60% clay, 40% silt; medium plasticity; very soft; dry.	Started DPT at 5' bgs.
10-10.5	1047	0			B-1-10	10			@ 10' some angular gravel.	
15-15.5	1052	0			B-1-15	15		SC	11.5 – BOH' SILTY SAND: dark brown (7.5YR 3/4) with some red staining; ~60% fine sand, 40% silt; low plasticity; damp. @ 13.5' color change to black (2.5YR 2/1); 75% fine sand, 25% silt; soft; moist; slight plant material odor. @ 15 grades to wet.	
	1105	0			B-1-GW	20				Collected grab GW sample (6 40-ml VOAs with HCL, 1 1-L Amber with H2SO4).
						25			Total depth drilled - 20' bgs.	Grouted to surface.
						30				

Project No.: 60150668	AECOM	Borehole/Well No: B-2 Page 1 of 1

Number of Samples: 1 soil Depth to Water: Not Encountered Depth to Bedrock: NA Elevation: NA Latitude: NA Longitude: NA	Project Name: City of San Jose Tamien Phase II Borehole Location: 1193 Lick Avenue, San Jose, CA Driller: EnProb Drilling Equipment: GeoProbe 6600 Drilling Method: Hand Auger to 2.5' Drilling Fluid: None Completion Information: grouted borings to surface	Borehole Depth: 2.5' Borehole Diameter: 2" Start Date: 4/7/2010 Completion Date: 4/7/2010 Logged By: Carmen Goodell Checked By: Luis Fraticelli Date Checked: 04-15-10

Sample Interval	Time	PID (ppm)	Blow Count	Recovery	Sample ID	Depth (feet)	Soil Graphic	Rock Type	Lithology	Remarks
2-2.5	1203	0			B-2-2			SC	0'-BOH' CLAYEY SAND WITH SILT: very dark grey (5YR 3/1); ~60% fine sand, 30 % low plasticity clay, 10 % silt; minor angular gravel; soft; dry.	Hand augured to 2.5' bgs. Breathing zone (BZ) = 0 ppm.
									Total depth drilled – 2.5' bgs.	Obstruction encountered @ 2.5 ft. Attempted to move boring several times and no boring could be advanced past 2.5 ft. Boring location abandoned and grouted to surface.

Project No.: 60150668	AECOM	Borehole/Well No: B-3 Page 1 of 1

Number of Samples: 6 soil Depth to Water: NA Depth to Bedrock: NA Elevation: NA Latitude: NA Longitude: NA	Project Name: City of San Jose Tamien Phase II Borehole Location: 1193 Lick Avenue, San Jose, CA Driller: EnProb Drilling Equipment: GeoProbe 6600 Drilling Method: Hand Auger to 5' Direct Push to 20' Drilling Fluid: None Completion Information: grouted boring to surface	Borehole Depth: 24' Borehole Diameter: 2" Start Date: 4/7/2010 Completion Date: 4/7/2010 Logged By: Carmen Goodell Checked By: Luis Fraticelli Date Checked: 04-15-10

Sample Interval	Time	PID (ppm)	Blow Count	Recovery	Sample ID	Depth (feet)	Soil Graphic	Rock Type	Lithology	Remarks
2-2.5	0828	0			B-3-2			ML	0-5' SANDY SILT WITH GRAVEL: very dark brown (7.5YR 2.5/3); 50% silt, 40% sand, <10% rounded gravel; very soft; damp.	Hand augured to 5' bgs. Breathing zone (BZ) = 0 ppm.
5-5.5	0838	0			B-3-5	5		SP	5-15' GRAVELLY SAND: dark brown (7.5YR 3/3); ~65% fine sand, 35% subrounded gravel, trace silt; dry. @ 10' grades to damp. @ 11' becomes dry.	Started DPT at 5' bgs.
10-10.5	0845	0			B-3-10	10			@ 12' 3-inch layer of SILTY SAND: brown (10YR 4/3); ~60% fine sand, 40% silt; dry.	
15-15.5	0850	0			B-3-15	15		SM	15-16' SILTY SAND: brown (10YR 4/3); ~60% fine sand, 40% silt; dry.	
								SP	16-18' GRAVELLY SAND: dark brown (7.5YR 3/3); ~65% fine sand, 35% subrounded gravel, trace silt; dry.	
								SC	18-19' CLAYEY SAND: brown (10YR 4/3); ~60% fine sand, 40% clay, some gravel; dry.	
20-20.5	0857	0			B-3-20	20		CL	19-20' SANDY CLAY: dark grayish brown (10YR 4/2); ~60% clay, 40% medium sand, decreasing sand with depth; moist.	
								CH	20'-BOH FAT CLAY: very dark gray (Gley1 3/N); high plasticity, very soft; moist.	
23.5-24	0905	0			B-3-24					
						25			Total depth drilled - 24' bgs.	Grouted to surface.
						30				

Project No.: 60150668	AECOM	Borehole/Well No: B-4 Page 1 of 1

Number of Samples: 3 soil Depth to Water: NA Depth to Bedrock: NA Elevation: NA Latitude: NA Longitude: NA	Project Name: City of San Jose Tamien Phase II Borehole Location: 1193 Lick Avenue, San Jose, CA Driller: EnProb Drilling Equipment: GeoProbe 6600 Drilling Method: Hand Auger to 5' Direct Push to 20' Drilling Fluid: None Completion Information: grouted boring to surface	Borehole Depth: 10.5' Borehole Diameter: 2" Start Date: 4/7/2010 Completion Date: 4/7/2010 Logged By: Carmen Goodell Checked By: Luis Fraticelli Date Checked: 04-15-10

Sample Interval	Time	PID (ppm)	Blow Count	Recovery	Sample ID	Depth (feet)	Soil Graphic	Rock Type	Lithology	Remarks
2-2.5	0940	0			B-4-2			SM	0-3' SILTY SAND WITH GRAVEL: dark grayish brown (10YR 4/2); ~60% fine sand, 30% silt, <10% gravel; dry.	Hand augured to 5' bgs. Breathing zone (BZ) = 0 ppm.
5-5.5	0947	0			B-4-5	5		ML	3-BOH' SANDY CLAYEY SILT WITH GRAVEL: brown (7.5YR 4/3); ~60% silt, 30% clay, 10% fine sand; <10% gravel; soft; damp. @ 5' no more gravel.	Started DPT at 5' bgs.
10-10.5	0958	0			B-4-10	10			@ 9' increasing clay; medium plasticity; moist to wet.	
									Total depth drilled – 10.5' bgs.	Grouted to surface.
						15				
						20				
						25				
						30				

Project No.: 60150668	AECOM	Borehole/Well No: B-5 Page 1 of 1

Number of Samples: 3 soil Depth to Water: NA Depth to Bedrock: NA Elevation: NA Latitude: NA Longitude: NA	Project Name: City of San Jose Tamien Phase II Borehole Location: 1193 Lick Avenue, San Jose, CA Driller: EnProb Drilling Equipment: GeoProbe 6600 Drilling Method: Hand Auger to 5' Direct Push to 20' Drilling Fluid: None Completion Information: grouted boring to surface	Borehole Depth: 20' Borehole Diameter: 2" Start Date: 4/7/2010 Completion Date: 4/7/2010 Logged By: Carmen Goodell Checked By: Luis Fraticelli Date Checked: 04-15-10

Sample Interval	Time	PID (ppm)	Blow Count	Recovery	Sample ID	Depth (feet)	Soil Graphic	Rock Type	Lithology	Remarks
2-2.5	1328	0			B-5-2			SM	0-3.5' CLAYEY SILTY SAND: dark reddish brown (5YR 3/1); 70% fine sand, 20% silt, <10% clay, occasional subrounded gravel/cobble; dry.	Hand augured to 5' bgs. Breathing zone (BZ) = 0 ppm.
5-5.5	1344	0			B-5-5	5		CL	3.5-15' SANDY CLAY: dark reddish brown (5YR 3/1); ~60% clay, 40% very fine sand (decreasing sand content with depth); medium plasticity; soft; dry.	Started DPT at 5' bgs.
10-10.5	1410	0			B-5-10	10				@1401 broke the drive head on sampler. Driller retrieved sampler from borehole and continued.
		0				15		CH	15-BOH' FAT CLAY: black (5YR 2.5/1); high plasticity; soft; dry.	
		0				20				
									Total depth drilled - 20' bgs.	Grouted to surface.
						25				
						30				

Project No.: 60150668	AECOM	Borehole/Well No: B-6 Page 1 of 1

Number of Samples: 2 soil Depth to Water: NA Depth to Bedrock: NA Elevation: NA Latitude: NA Longitude: NA	Project Name: City of San Jose Tamien Phase II Borehole Location: 1193 Lick Avenue, San Jose, CA Driller: EnProb Drilling Equipment: GeoProbe 6600 Drilling Method: Hand Auger to 5' Direct Push to 20' Drilling Fluid: None Completion Information: grouted boring to surface	Borehole Depth: 20' Borehole Diameter: 2" Start Date: 4/7/2010 Completion Date: 4/7/2010 Logged By: Carmen Goodell Checked By: Luis Fraticelli Date Checked: 04-15-10

Sample Interval	Time	PID (ppm)	Blow Count	Recovery	Sample ID	Depth (feet)	Soil Graphic	Rock Type	Lithology	Remarks
2-2.5	1451	0			B-6-2			ML	0-3' SILT WITH TRACE SAND : dark brown (7.5YR 3/2); ~85% silt; <10% fine sand, <5% angular gravel; dry. @ 2' decrease in silt and increase in sand fraction.	Hand augured to 5' bgs. Breathing zone (BZ) = 0 ppm.
5-5.5	1456	0			B-6-5	5			3-13' SILTY CLAY : very dark brown (10YR 2/2); ~55% clay, 40% silt, <5% fine sand; medium plasticity; firm; dry. @ 5' color changes to dark brown (7.5YR 3/2).	Started DPT at 5' bgs.
								CL	@ 8' grading to 30% sand, moist.	
						10			@ 10' grading back to <5% sand, dry.	10
		0							13-BOH' FAT CLAY: very dark gray (10 YR 3/1); high plasticity; firm; dry.	
						15		CH		15
		0				20				20
									Total depth drilled - 20' bgs.	Grouted to surface.
						25				25
						30				30

ATTACHMENT C

LABORATORY REPORTS

Client:
City of San Jose
200 E. Santa Clara St. 10th Floor
San Jose, CA 95113

Client Project ID:
Tamien Project

Attention: Geoff Blair

Reference:	R17671_100s
Method:	8260 B
Sampled:	04/07/10
Received:	04/07/10
Matrix	Solid
Analyzed	04/13/10
D.F.	5
Reported:	04/14/10
Units:	mg/kg

Laboratory Results of Analysis for Volatile Organic Compounds
EPA 8260 B

Analyte	CAS NO.	Reporting Limit mg/kg	Results	
			Lab ID	17671-2
			Sample ID	B-1-5
Benzene	71-43-2	0.0025		ND
Bromobenzene	108-86-1	0.0025		ND
Bromochloromethane	74-97-5	0.0025		ND
Bromodichloromethane	75-27-4	0.0025		ND
Bromoform	75-25-2	0.0025		ND
Bromomethane	74-83-9	0.0025		ND
n-Butylbenzene	104-51-8	0.0025		ND
sec-Butylbenzene	108-90-7	0.0025		ND
tert-Butylbenzene	98-06-6	0.0025		ND
Carbon Tetrachloride	56-23-5	0.0025		ND
Chlorobenzene	108-90-7	0.0025		ND
Chloroethane	75-00-3	0.0025		ND
Chloroform	67-66-3	0.0025		0.00348
Chloromethane	74-87-3	0.0025		ND
2-Chlorotoluene	95-49-8	0.0026		ND
4-Chlorotoluene	106-43-4	0.0025		ND
Dibromochloromethane	74--97-5	0.0025		ND
1,2-Dibromo-3-chloropropane	96-12-8	0.0025		ND
1,2-Dibromoethane	106-93-4	0.0025		ND
Dibromomethane	74-95-3	0.0025		ND
1,2-Dichlorobenzene	95-50-1	0.0025		ND
1,3-Dichlorobenzene	41-73-1	0.0025		ND
1,4-Dichlorobenzene	106-46-7	0.0025		ND
dichlorodifluoromethane	75-71-8	0.0025		ND
1,1-Dichloroethane	75-34-3	0.0025		ND
1,2-Dichloroethane	107-06-2	0.0025		ND
1,1-Dichloroethene	75-35-4	0.0026		ND
cis-1,2-Dichloroethene	156-59-2	0.0025		ND
trans-1,2-Dichloroethene	156-60-5	0.0025		ND
1,2-Dichloropropane	78-87-5	0.0025		ND
1,3-Dichloropropane	142-28-9	0.0025		ND
2,2-Dichloropropane	594-20-7	0.0025		ND
1,1-Dichloropropene	563-58-6	0.0025		ND

Continued from previous Page

Analyte	CAS NO.	Detection Limit (mg/kg)	Rasults	
			Lab ID	17671-2
			Sample ID	B-1-5
Ethylbenzene	100-41-4	0.0025	ND	
Hexachlorobutadiene	87-68-3	0.0025	ND	
Isopropylbenzene	98-82-8	0.0025	ND	
p-Isopropyltoluene	99-87-6	0.0025	ND	
Methylene Chloride	75-09-2	0.0100	ND	
Naphthalane	91-20-3	0.0025	ND	
n-Propylbenzene	103-65-1	0.0025	ND	
Styrene	100-42-5	0.0025	ND	
1,1,1,2-Tetrachloroathane	630-20-6	0.0025	ND	
1,1,2,2-Tetrachloroethana	79-34-5	0.0025	ND	
Tetrachloroethene	127-18-4	0.0025	ND	
Toluene	108-88-3	0.0100	ND	
1,2,3-Trichlorobenzene	87-61-6	0.0025	ND	
1,2,4-Trichlorobenzene	120-82-1	0.0025	ND	
1,1,1-Trichloroethane	71-55-6	0.0025	ND	
1,1,2-Trichloroethane	79-00-5	0.0025	ND	
Trichloroethene	79-01-6	0.0025	ND	
Trichlorofluoromethane	75-69-4	0.0025	ND	
1,2,3-Trichloropropane	96-18-4	0.0025	ND	
1,2,4-Trimethylbenzene	95-63-6	0.0025	ND	
1,3,5-Trimethylbenzene	108-67-8	0.0025	ND	
Vinyl Chloride	75-01-4	0.0025	ND	
o -Xylene	95-47-6	0.0025	ND	
m,p-Xylenes	1330-20-7	0.0050	ND	
cis-1,3-Dichloropropene	10061-01-5	0.0025	ND	
trans-1,3-Dichloropropene	1006-02-6	0.0025	ND	
Surrogate			% Recovery	QC Limits
Dibrofluoromethane	1868-53-7	0.0005	103	70-130
Toluene d-8	2037-26-5	0.0005	97.8	70-130
4-Bromofluorobenzene	460-00-4	0.0005	76.2	70-130

ND: Not Detected

H. Khosh Khoo, Ph.D.
Laboratory Director/President

2/2

Client:
City of San Jose
200 E. Santa Clara St. 10th Floor
San Jose, CA 95113

Client Project ID:
Tamien Project

Attention: Geoff Blair

Reference:	R17671_100s
Method:	8260 B
Sampled:	04/07/10
Received:	04/07/10
Matrix	Solid
Analyzed	04/13/10
D.F.	5
Reported:	04/14/10
Units:	mg/kg

Laboratory Results of Analysis for Volatile Organic Compounds

EPA 8260 B

Analyte	CAS NO.	Reporting Limit mg/kg	Results	
			Lab ID	17671-5
			Sample ID	B-2-2
Benzene	71-43-2	0.0025		ND
Bromobenzene	108-86-1	0.0025		ND
Bromochloromethane	74-97-5	0.0025		ND
Bromodichloromethane	75-27-4	0.0025		ND
Bromoform	75-25-2	0.0025		ND
Bromomethane	74-83-9	0.0025		ND
n-Butylbenzene	104-51-8	0.0025		ND
sec-Butylbenzene	108-90-7	0.0025		ND
tert-Butylbenzene	98-06-6	0.0025		ND
Carbon Tetrachloride	56-23-5	0.0025		ND
Chlorobenzene	108-90-7	0.0025		ND
Chloroethane	75-00-3	0.0025		ND
Chloroform	67-66-3	0.0025		0.00555
Chloromethane	74-87-3	0.0025		ND
2-Chlorotoluene	95-49-8	0.0025		ND
4-Chlorotoluene	108-43-4	0.0025		ND
Dibromochloromethane	74–97-5	0.0025		ND
1,2-Dibromo-3-chloropropane	96-12-8	0.0025		ND
1,2-Dibromoethane	106-93-4	0.0025		ND
Dibromomethane	74-95-3	0.0025		ND
1,2-Dichlorobenzene	95-50-1	0.0025		ND
1,3-Dichlorobenzene	41-73-1	0.0025		ND
1,4-Dichlorobenzene	106-46-7	0.0025		ND
dichlorodifluoromethane	75-71-8	0.0025		ND
1,1-Dichloroethane	75-34-3	0.0025		ND
1,2-Dichloroethene	107-06-2	0.0025		ND
1,1-Dichloroethene	75-35-4	0.0025		ND
cis-1,2-Dichloroethene	156-59-2	0.0025		ND
trans-1,2-Dichloroethene	156-60-5	0.0025		ND
1,2-Dichloropropane	78-87-5	0.0025		ND
1,3-Dichloropropane	142-28-9	0.0025		ND
2,2-Dichloropropane	594-20-7	0.0025		ND
1,1-Dichloropropene	563-58-6	0.0025		ND

Continued from previous Page

Analyte	CAS NO.	Detection Limit (mg/kg)	Results	
			Lab ID	17671-5
			Sample ID	B-2-2
Ethylbenzene	100-41-4	0.0025	ND	
Hexachlorobutadiene	87-68-3	0.0025	ND	
Isopropylbenzene	98-82-8	0.0025	ND	
p-Isopropyltoluene	99-87-6	0.0025	ND	
Methylene Chloride	75-09-2	0.0100	ND	
Naphthalene	91-20-3	0.0025	ND	
n-Propylbenzene	103-65-1	0.0025	ND	
Styrene	100-42-5	0.0025	ND	
1,1,1,2-Tetrachloroethane	630-20-6	0.0025	ND	
1,1,2,2-Tetrachloroethane	79-34-5	0.0025	ND	
Tetrachloroethene	127-18-4	0.0025	ND	
Toluene	108-88-3	0.0100	ND	
1,2,3-Trichlorobenzene	87-61-6	0.0025	ND	
1,2,4-Trichlorobenzene	120-82-1	0.0025	ND	
1,1,1-Trichloroethane	71-55-6	0.0025	ND	
1,1,2-Trichloroethane	79-00-5	0.0025	ND	
Trichloroethene	79-01-6	0.0025	ND	
Trichlorofluoromethane	75-69-4	0.0025	ND	
1,2,3-Trichloropropane	96-18-4	0.0025	ND	
1,2,4-Trimethylbenzene	95-63-6	0.0025	ND	
1,3,5-Trimethylbenzene	108-67-8	0.0025	ND	
Vinyl Chloride	75-01-4	0.0025	ND	
o -Xylene	95-47-6	0.0025	ND	
m,p-Xylenes	1330-20-7	0.0050	ND	
cis-1,3-Dichloropropene	10061-01-5	0.0026	ND	
trans-1,3-Dichloropropene	1006-02-6	0.0025	ND	
Surrogate			% Recovery	QC Limits
Dibrofluoromethane	1868-53-7	0.0005	105	70-130
Toluene d-8	2037-26-5	0.0005	97.6	70-130
4-Bromofluorobenzene	460-00-4	0.0005	77.2	70-130

ND: Not Detected

H. Khosh Khoo, Ph.D.
Laboratory Director/President

2/2

Client:
City of San Jose
200 E. Santa Clara St. 10th Floor
San Jose, CA 95113

Client Project ID:
Tamien Project

Attention: Geoff Blair

Reference:	R17671_100s
Method:	8260 B
Sampled:	04/07/10
Received:	04/07/10
Matrix	Solid
Analyzed	04/13/10
D.F.	5
Reported:	04/14/10
Units:	mg/kg

Laboratory Results of Analysis for Volatile Organic Compounds
EPA 8260 B

Analyte	CAS NO.	Reporting Limit mg/kg	Results	
			Lab ID	17671-7
			Sample ID	B-3-5
Benzene	71-43-2	0.0025	ND	
Bromobenzene	108-86-1	0.0025	ND	
Bromochloromethane	74-97-5	0.0025	ND	
Bromodichloromethane	75-27-4	0.0025	ND	
Bromoform	75-25-2	0.0025	ND	
Bromomethane	74-83-9	0.0025	ND	
n-Butylbenzene	104-51-8	0.0025	ND	
sec-Butylbenzene	108-90-7	0.0025	ND	
tert-Butylbenzene	98-06-6	0.0025	ND	
Carbon Tetrachloride	56-23-5	0.0025	ND	
Chlorobenzene	108-90-7	0.0025	ND	
Chloroethane	75-00-3	0.0025	ND	
Chloroform	67-66-3	0.0025	0.00495	
Chloromethane	74-87-3	0.0025	ND	
2-Chlorotoluene	95-49-8	0.0025	ND	
4-Chlorotoluene	106-43-4	0.0025	ND	
Dibromochloromethane	74--97-5	0.0025	ND	
1,2-Dibromo-3-chloropropane	96-12-8	0.0025	ND	
1,2-Dibromoethane	106-83-4	0.0025	ND	
Dibromomethane	74-95-3	0.0025	ND	
1,2-Dichlorobenzene	95-50-1	0.0025	ND	
1,3-Dichlorobenzene	41-73-1	0.0025	ND	
1,4-Dichlorobenzene	106-46-7	0.0025	ND	
dichlorodifluoromethane	75-71-8	0.0025	ND	
1,1-Dichloroethane	75-34-3	0.0025	ND	
1,2-Dichloroethane	107-06-2	0.0025	ND	
1,1-Dichloroethene	75-35-4	0.0025	ND	
cis-1,2-Dichloroethene	156-59-2	0.0025	ND	
trans-1,2-Dichloroethene	156-60-5	0.0025	ND	
1,2-Dichloropropane	78-87-6	0.0025	ND	
1,3-Dichloropropane	142-28-9	0.0025	ND	
2,2-Dichloropropane	594-20-7	0.0025	ND	
1,1-Dichloropropene	563-58-6	0.0025	ND	

Continued from previous Page

Analyte	CAS NO.	Detection Limit (mg/kg)	Results	
			Lab ID	17671-7
			Sample ID	B-3-5
Ethylbenzene	100-41-4	0.0025	ND	
Hexachlorobutadiene	87-68-3	0.0025	ND	
Isopropylbenzene	98-82-8	0.0025	ND	
p-Isopropyltoluene	99-87-6	0.0025	ND	
Methylene Chloride	75-09-2	0.0100	ND	
Naphthalene	91-20-3	0.0025	ND	
n-Propylbenzene	103-65-1	0.0025	ND	
Styrene	100-42-5	0.0025	ND	
1,1,1,2-Tetrachloroethane	630-20-6	0.0025	ND	
1,1,2,2-Tetrachloroethane	79-34-5	0.0025	ND	
Tetrachloroethene	127-18-4	0.0025	ND	
Toluene	108-88-3	0.0100	ND	
1,2,3-Trichlorobenzene	87-61-6	0.0025	ND	
1,2,4-Trichlorobenzene	120-82-1	0.0025	ND	
1,1,1-Trichloroethane	71-55-6	0.0025	ND	
1,1,2-Trichloroethane	79-00-5	0.0025	ND	
Trichloroethene	79-01-6	0.0025	ND	
Trichlorofluoromethane	75-69-4	0.0025	ND	
1,2,3-Trichloropropane	96-18-4	0.0025	ND	
1,2,4-Trimethylbenzene	96-63-6	0.0025	ND	
1,3,5-Trimethylbenzene	108-67-8	0.0025	ND	
Vinyl Chloride	75-01-4	0.0025	ND	
o -Xylene	95-47-6	0.0025	ND	
m,p-Xylenes	1330-20-7	0.0050	ND	
cis-1,3-Dichloropropene	10061-01-5	0.0025	ND	
trans-1,3-Dichloropropene	1006-02-6	0.0025	ND	
Surrogate			% Recovery	QC Limits
Dibrofluoromethane	1868-53-7	0.0005	105	70-130
Toluene d-8	2037-26-5	0.0005	96.8	70-130
4-Bromofluorobenzene	460-00-4	0.0005	77.9	70-130

ND: Not Detected

H. Khosh Khoo, Ph.D.
Laboratory Director/President

2/2

Client:
City of San Jose
200 E. Santa Clara St. 10th Floor
San Jose, CA 95113

Client Project ID:
Tamien Project

Attention: Geoff Blair

Reference:	R17671_100s
Method:	8260 B
Sampled:	04/07/10
Received:	04/07/10
Matrix	Solid
Analyzed	04/13/10
D.F.	5
Reported:	04/14/10
Units:	mg/kg

Laboratory Results of Analysis for Volatile Organic Compounds

EPA 8260 B

Analyte	CAS NO.	Reporting Limit mg/kg	Results	
			Lab ID	17671
			Sample ID	BLANK
Benzene	71-43-2	0.0025		ND
Bromobenzene	108-86-1	0.0025		ND
Bromochloromethane	74-97-5	0.0025		ND
Bromodichloromethane	75-27-4	0.0025		ND
Bromoform	75-25-2	0.0025		ND
Bromomethane	74-83-9	0.0025		ND
n-Butylbenzene	104-51-8	0.0025		ND
sec-Butylbenzene	108-90-7	0.0025		ND
tert-Butylbenzene	98-06-6	0.0025		ND
Carbon Tetrachloride	56-23-5	0.0025		ND
Chlorobenzene	108-90-7	0.0025		ND
Chloroethane	75-00-3	0.0025		ND
Chloroform	67-66-3	0.0025		ND
Chloromethane	74-87-3	0.0025		ND
2-Chlorotoluene	95-49-8	0.0025		ND
4-Chlorotoluene	106-43-4	0.0025		ND
Dibromochloromethane	74--97-5	0.0025		ND
1,2-Dibromo-3-chloropropane	96-12-8	0.0025		ND
1,2-Dibromoethane	106-93-4	0.0025		ND
Dibromomethane	74-95-3	0.0025		ND
1,2-Dichlorobenzene	95-50-1	0.0025		ND
1,3-Dichlorobenzene	41-73-1	0.0025		ND
1,4-Dichlorobenzene	106-46-7	0.0025		ND
dichlorodifluoromethane	75-71-8	0.0025		ND
1,1-Dichloroethane	75-34-3	0.0025		ND
1,2-Dichloroethane	107-06-2	0.0025		ND
1,1-Dichloroethene	75-35-4	0.0025		ND
cis-1,2-Dichloroethene	156-59-2	0.0025		ND
trans-1,2-Dichloroethene	156-60-5	0.0025		ND
1,2-Dichloropropane	78-87-5	0.0025		ND
1,3-Dichloropropane	142-28-9	0.0025		ND
2,2-Dichloropropane	594-20-7	0.0025		ND
1,1-Dichloropropene	563-58-6	0.0025		ND

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Continued from previous Page

Analyte	CAS NO.	Detection Limit (mg/kg)	Results	
			Lab ID	17671
			Sample ID	BLANK
Ethylbenzene	100-41-4	0.0025	ND	
Hexachlorobutadiene	87-68-3	0.0025	ND	
Isopropylbenzene	98-82-8	0.0025	ND	
p-Isopropyltoluene	99-87-6	0.0025	ND	
Methylene Chloride	75-09-2	0.0100	ND	
Naphthalene	91-20-3	0.0025	ND	
n-Propylbenzene	103-65-1	0.0025	ND	
Styrene	100-42-5	0.0025	ND	
1,1,1,2-Tetrachloroethane	630-20-6	0.0025	ND	
1,1,2,2-Tetrachloroethane	79-34-5	0.0025	ND	
Tetrachloroethene	127-18-4	0.0025	ND	
Toluene	108-88-3	0.0100	ND	
1,2,3-Trichlorobenzene	87-61-6	0.0025	ND	
1,2,4-Trichlorobenzene	120-82-1	0.0025	ND	
1,1,1-Trichloroethane	71-55-6	0.0025	ND	
1,1,2-Trichloroethane	79-00-5	0.0025	ND	
Trichloroethene	79-01-6	0.0025	ND	
Trichlorofluoromethane	75-69-4	0.0025	ND	
1,2,3-Trichloropropane	96-18-4	0.0025	ND	
1,2,4-Trimethylbenzene	95-63-6	0.0025	ND	
1,3,5-Trimethylbenzene	108-67-8	0.0025	ND	
Vinyl Chloride	75-01-4	0.0025	ND	
o -Xylene	95-47-6	0.0025	ND	
m,p-Xylenes	1330-20-7	0.0050	ND	
cis-1,3-Dichloropropene	10061-01-5	0.0025	ND	
trans-1,3-Dichloropropene	1006-02-6	0.0025	ND	
Surrogate			% Recovery	QC Limits
Dibrofluoromethane	1868-53-7	0.0005	96.8	70-130
Toluene d-8	2037-26-5	0.0005	96.6	70-130
4-Bromofluorobenzene	460-00-4	0.0005	83.2	70-130

ND: Not Detected

H. Khosh Khoo, Ph.D.
Laboratory Director/President

Client:
City of San Jose
200 E. Santa Clara Street, 10th floor
San Jose, CA 95113

Attention: Geoff Blair

Client Project ID:
Tamien Project

Reference: R17671_200s
Method: 8270C
Sampled: 04/07/10
Received: 04/07/10
Matrix Solid
Analyzed 04/14/10
D.F. 1
Reported: 04/14/10
Units: mg/kg

Laboratory Results of Analysis for Semi-Volatile Organic Compounds
EPA 8270 C

Analyte	CAS NO.	Reporting Limit mg/kg	Results	
			Lab ID	17671-5
			Sample ID	B-2-2
Acenaphthene	83-32-9	0.125	ND	
Acenaphthylene	208-96-8	0.125	ND	
Anthracene	120-12-7	0.125	ND	
Benzidine	92-87-5	0.625	ND	
Benzoic Acid	65-85-0	0.625	ND	
Benzo (a) anthracene	56-55-3	0.125	ND	
Benzo (b) fluoranthene	205-99-2	0.125	ND	
Benzo (k) fluoranthene	207-08-9	0.125	ND	
Benzo (g,h,i) perylene	191-24-2	0.125	ND	
Benzo (a) pyrene	50-32-8	0.125	ND	
Benzyl Alcohol	100-51-6	0.250	ND	
Bis (2-chloroethoxy) methane	111-91-1	0.250	ND	
Bis (2-choroethyl) Ether	111-44-4	0.250	ND	
Bis (2-Chloroisopropyl) Ether	108-60-1	0.125	ND	
Bis (2-ethylhexy) Phthalate	117-81-7	0.125	ND	
4-Bromophenyl Phenyl Ether	101-55-3	0.125	ND	
Butylbenz;yl Phthalate	85-68-7	0.125	ND	
4- Chloroaniline	106-47-8	0.250	ND	
2-Chloronaphthalene	91-58-7	0.125	ND	
4-Chlorophenyl Phenyl Ether	7005-72-3	0.125	ND	
Chrysene	218-01-9	0.125	ND	
Dibenzo (a,h) anthracene	53-70-3	0.125	ND	
Dibenzofuran	132-64-9	0.125	ND	
Di-n-butyl Phthalate	84-74-2	0.125	ND	
1,2-Dichlorobenzene	95-50-1	0.125	ND	
1,3-Dichlorobenzene	541-73-1	0.125	ND	
1.4-Dichlorobenzene	106-46-7	0.125	ND	
3,3'-Dichlorobenzidine	91-94-1	0.250	ND	
Diethyl Phthalate	84-66-2	0.125	ND	
Dimethyl Phthalate	131-11-3	0.125	ND	
2,4-Dinitrotoluene	121-14-2	0.125	ND	
2,6-Dinitrotoluene	606-20-2	0.125	ND	
Di-n-octyl Phthalate	117-84-0	0.125	ND	

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Continued from previous Page

Analyte	CAS NO.	Detection Limit mg/kg	Results	
			Lab ID	17671-5
			Sample ID	B-2-2
Fluoranthene	206-44-0	0.125	ND	
Fluorene	86-73-7	0.125	ND	
Hexachlorobenzene	118-74-1	0.125	ND	
Hexachlorobutadiene	87-68-3	0.250	ND	
Hexachlorocyclopentadiene	77-47-4	0.250	ND	
Hexachloroethane	67-72-1	0.125	ND	
Indeno (1.2.3-cd) pyrene	193-39-5	0.125	ND	
Isophorone	78-59-1	0.125	ND	
2-Methylnaphthalene	91-57-6	0.125	ND	
Naphthalene	91-20-3	0.125	ND	
2-Nitroaniline	88-74-4	0.625	ND	
3-Nitroaniline	99-09-2	0.625	ND	
4-Nitroaniline	100-01-6	0.625	ND	
Nitrobenzene	98-95-3	0.125	ND	
N-Nitrosodiphenylamine	86-30-6	0.125	ND	
N-Nitrosodi-n-propylamine	621-64-7	0.125	ND	
Phenanthrene	85-01-8	0.125	ND	
Pyrene	129-00-0	0.125	ND	
1,2,4-Trichlorobenzene	120-82-1	0.125	ND	
4-Chloro-3-methylphenol	59-50-7	0.250	ND	
2-Chlorophenol	95-57-8	0.125	ND	
2,4-Dichlorophenol	120-83-2	0.125	ND	
2.4-Dimethylphenol	105-67-9	0.125	ND	
4,6-Dinitro-2-methylphenol	534-52-1	0.625	ND	
2,4-Dinitrophenol	51-28-5	0.625	ND	
2-Methylphenol	95-48-7	0.125	ND	
4-Methylphenol	106-44-5	0.125	ND	
2-Nitrophenol	88-75-5	0.125	ND	
4-Nitrophenol	100-02-7	0.625	ND	
Pentchlorophenol	87-86-5	0.625	ND	
Phenol	108-95-2	0.125	ND	
2,4,5-Trichlorophenol	95-95-4	0.125	ND	
2,4,6-Trichlorophenol	88-06-2	0.125	ND	

ND: Not Detected

Surrogate	% Recovery	QC Limits
2,4,6-Tribromophenol	66.3	19-122
2-Fluorobiphenyl	45.6	30-115
2-Fluorophenol	60.4	25-121
4-Terphenyl-d4	70.3	18-137
Nitrobenzene	55.2	23-120
Phenol-d5	59.7	24-113

H. Khosh Khoo, Ph.D.
Laboratory Director/President

2/15

Client:
City of San Jose
200 E. Santa Clara S
San Jose, CA 95113

Client Project ID:
Tamien Project

Ref.	R17671-7 _400s
Method:	EPA 8020/8015
Sampled:	4/7/2010
Received:	4/7/2010
Analyzed	4/12/15/10
Analyst:	LW
Reported:	4/15/2010
Matrix:	Soil
Unit	mg/kg

Attention: Geoff Blair

Laboratory Results of Analysis for BTEX & TPH

Analyte	Reporting Limit mg/kg	Results	Date Of Analysis	Method
		Sample ID		
		8--3-5		
		17671-7		
BTEX				
Benzene	0.0025	ND	4/12/2010	8260B
Toluene	0.005	ND	4/12/2010	8260B
Ethylbenzene	0.0025	ND	4/12/2010	8260 B
m,p-Xylenes	0.0050	ND	4/12/2010	8260 B
o-Xylene	0.0025	ND	4/12/2010	8260 B
TPH-g	0.25	ND	4/12/2010	8015M/5030
TPH-D	2.5	ND	4/15/2010	8015M
TPH_Mo	5.0	ND*	4/15/2010	8015M

ND=Not Detected

*Non-targeted peaks in the TPH-Motor oil range is that are evaluated to be9.52 mg/kg

Delta Environmental Laboratories,
Hossein Khosh Khoo, Ph.D.
Laboratory Director/ President

Client:
City of San Jose
200 E. Santa Clara S
San Jose, CA 95113

Client Project ID:
Tamien Project

Ref.	R17671-2 _400s
Method:	EPA 8020/8015
Sampled:	4/7/2010
Received:	4/7/2010
Analyzed	4/12/15/10
Analyst:	LW
Reported:	4/15/2010
Matrix:	Soil
Unit	mg/kg

Attention: Geoff Blair

Laboratory Results of Analysis for BTEX & TPH

Analyte	Reporting Limit mg/kg	Results	Date Of Analysis	Method
		Sample ID		
		B-1-5		
		17671-2		
BTEX				
Benzene	0.0025	ND	4/12/2010	8260B
Toluene	0.005	ND	4/12/2010	8260B
Ethylbenzene	0.0025	ND	4/12/2010	8260 B
m,p-Xylenes	0.0050	ND	4/12/2010	8260 B
o-Xylene	0.0025	ND	4/12/2010	8260 B
TPH-g	0.25	ND	4/12/2010	8015M/5030
TPH-D	2.5	ND	4/15/2010	8015M
TPH_Mo	5.0	ND*	4/15/2010	8015M

ND=Not Detected

*Non-targeted peaks in the TPH-Motor oil range is that are evaluated to be 35.2 mg/kg

Delta Environmental Laboratories,
Hossein Khosh Khoo, Ph.D.
Laboratory Director/ President

Client:
City of San Jose
200 E. Santa Clara S
San Jose, CA 95113

Client Project ID:
Tamien Project

Ref.	R17671-5 _400s
Method:	EPA 8020/8015
Sampled:	4/7/2010
Received:	4/7/2010
Analyzed	4/12/15/10
Analyst:	LW
Reported:	4/15/2010
Matrix:	Soil
Unit	mg/kg

Attention: Geoff Blair

Laboratory Results of Analysis for BTEX & TPH

Analyte	Reporting Limit mg/kg	Results Sample ID B-2-2 17671-5	Date Of Analysis	Method
BTEX				
Benzene	0.0025	ND	4/12/2010	8260B
Toluene	0.005	ND	4/12/2010	8260B
Ethylbenzene	0.0025	ND	4/12/2010	8260 B
m,p-Xylenes	0.0050	ND	4/12/2010	8260 B
o-Xylene	0.0025	ND	4/12/2010	8260 B
TPH-g	0.25	ND	4/12/2010	8015M/5030
TPH-D	2.5	ND	4/15/2010	8015M
TPH_Mo	5.0	ND*	4/15/2010	8015M

ND=Not Detected

*Non-targeted peaks in the TPH-Motor oil range is that are evaluated to be12.2 mg/kg

Delta Environmental Laboratories,
Hossein Khosh Khoo, Ph.D.
Laboratory Director/ President

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Client:
City of San Jose
200 E. Santa Clara St. 10th Floor
San Jose, CA 95113

Client Project ID:
Tamien Project

Ref: R17671_300s
Method: EPA 200.7/245.1
Sampled: 04/07/10
Received*: 04/07/10
Analyzed: 04/12/10
Reported: 04/14/10
Analyst: ZT
Matrix: solid
Units: mg/kg

Attention: Geoff Blair

Laboratory Results of Analysis for Metals

Analyte	Reporting Limit (mg/kg)	Results
		17671-2
		B-1-5
Silver	0.25	ND
Arsenic	0.50	4.64
Barium	0.25	191
Beryllium	0.25	0.775
Cadmium	0.25	7.20
Cobalt	0.25	20.9
Chromium (Total)	0.25	121
Copper	0.25	30.4
Mercury	0.02	0.301
Molybdenum	0.25	ND
Nickel	0.25	192
Lead	0.25	5.90
Antimony	0.25	2.67
Selenium	0.50	ND
Thallium	1.00	33.9
Vanadium	0.25	61.9
Zinc	0.25	59.3

ND: Not Detected
* Samples reanalyzed for the confirmation purposes on 12/02/09.
* The Boron concentrations in both samples may be considered to be the same within experimntal error.

H. Khoshkhoo, Ph.D.
Laboratory Director/President

Client:
City of San Jose
200 E. Santa Clara St. 10th Floor
San Jose, CA 95113

Client Project ID:
Tamien Project

Ref: R17671_300s
Method: EPA 200.7/245.1
Sampled: 04/07/10
Received: 04/07/10
Analyzed: 04/12/10
Reported: 04/14/10
Analyst: ZT
Matrix: solid
Units: mg/kg

Attention: Geoff Blair

Laboratory Results of Analysis for Metals

Analyte	Reporting Limit (mg/kg)	Results
		17671-5
		B-2-2
Silver	0.25	ND
Arsenic	0.50	25.8
Barium	0.25	200
Beryllium	0.25	0.744
Cadmium	0.25	6.95
Cobalt	0.25	15.3
Chromium (Total)	0.25	113
Copper	0.25	31.4
Mercury	0.02	0.483
Molybdenum	0.25	ND
Nickel	0.25	159
Lead	0.25	16.9
Antimony	0.25	2.56
Selenium	0.50	ND
Thallium	1.00	29.4
Vanadium	0.25	45.3
Zinc	0.25	77.3

ND: Not Detected

H. Khoshkhoo, Ph.D.
Laboratory Director/President

Client:
City of San Jose
200 E. Santa Clara St. 10th Floor
San Jose, CA 95113

Client Project ID:
Tamien Project

Ref: R17671_300s
Method: EPA 200.7/245.1
Sampled: 04/07/10
Received: 04/07/10
Analyzed: 04/12/10
Reported: 04/14/10
Analyst: ZT
Matrix: solid
Units: mg/kg

Attention: Geoff Blair

Laboratory Results of Analysis for Metals

Analyte	Reporting Limit (mg/kg)	Results
		17671-7
		B-3-5
Silver	0.25	ND
Arsenic	0.50	2.78
Barium	0.25	103
Beryllium	0.25	0.730
Cadmium	0.25	7.40
Cobalt	0.25	18.8
Chromium (Total)	0.25	146
Copper	0.25	23.1
Mercury	0.02	0.353
Molybdenum	0.25	ND
Nickel	0.25	184
Lead	0.25	4.87
Antimony	0.25	2.99
Selenium	0.50	ND
Thallium	1.00	32.5
Vanadium	0.25	64.3
Zinc	0.25	62.7

ND: Not Detected

H. Khoshkhoo, Ph.D.
Laboratory Director/President

Delta Environmental Laboratories

Chain of Custody (COC) Form

685 Stone Road #11 & 12
Benicia, Ca, 94510
(707(747-6081, 800-747-6082 FAX (707) 747-6082

Results to: George Blair

Client Name: City of San Jose
200 E. Santa Clara St. 10th Floor
San Jose, CA 95113

Telephone: (408) 975-2578 Fax: (408) 292-6213

SAMPLER (signature) Carmen Goodell (print): Carmen Goodell

Turnaround: 1 week (5 days)

Project Name: Tamien Project

LAB ID 17671

Ref #

Analysis Requested

#	Sample ID or Location	Date	Time	Matrix	Cont. Type	Preservative	No. of containers	pH	Temperature	TPHg/BTEX	TPHd/mo	VOCs	SVOCs	CAM 17 Metals	Comments:
1	B-1-2	4/7/10	1032	S	Liner				OK						HOLD
2	B-1-5		1042							X	X	X		X	
3	B-1-10		1047												HOLD
4	B-1-15		1052												HOLD
5	B-2-2		1203							X	X	X	X	X	
6	B-3-2		0828												HOLD
7	B-3-5		0838							X	X	X		X	
8	B-3-10		0845												HOLD
9	B-3-15		0850												HOLD
10	B-3-20		0857												HOLD

Relinquished by:	Date 4/7/10	1) Have all samples received been stored on ice?
Received By:	Date 4/7/10	2) Did any VOA samples received have any head space?
Relinquished by:	Date 4/07/10	3) Were samples in appropriate containers and packaged properly?
Received By:	Date 4/7/10	4) Were samples received in good condition?

**CONTAINER TYPES: AL = Amber Liter; AHL = 500 ml Amber; PT = Pint (Plastic); QT = Quart (Plastic); HG = Half Gallon (Plastic); SJ = Soil Jar; B4 = 4oz. BACT; BT = Brass Tube; VOA = 40mL VOA; OTC - Other Type Container

*MATRIX: AQ = Aqueous Nondrinking Water, Digested Metals; FE = Low R.L.s, Aqueous Nondrinking Water, Digested Metals; DW = Drinking Water; SL = Soil Sludge, Solid ; FP = Free Product

* PRESERVATIVE: 1=HNO3; 2=HCl; 3=H2SO4; 4=Na2S2O3; 5=NAOH; 6=NH4Cl; 7=ZnAce

Quality Control Report

Client:
City of San Jose
200 E. Santa Clara Street, 10th
San Jose, CA 95113

Client Project ID:
Tamien Project

Ref.	Q17671_400s
Method:	EPA 8260/8015
Sampled:	4/7/2010
Received:	4/7/2010
Analyzed:	4/12-15/2010
Analyst:	LW
Reported:	4/15/2010
Matrix:	Solid
Unit	mg/kg

Sample Spiked: Blank

Quality Control Report of Analysis for BTEX & TPH

Analyte	Detection Limit mg/kg	Sample Result mg/kg	Spike Added mg/kg	% BS/MS Recovery	% BS/MSD Recovery	Relative % Difference RPD	Method
Benzene	0.0025	ND	0.02	110	113	2.7	8020
Toluene	0.0050	ND	0.02	113	116	2.6	8020
Ethylbenzene	0.0025	ND	0.02	112	117	4.4	8020
m,p-Xylene	0.005	ND	0.04	114	115	0.9	8020
o-Xylene	0.0025	ND	0.02	112	117	4.4	8020
TPH-G	0.25	ND	400	99.7	101	1.3	8015M
TPH-D	2.5	ND	50	93.3	98.8	5.7	8015M

H.Khosh Khoo, PhD.
Laboratory Director/President

Client:
City of San Jose
200 E. Santa Clara Street, 10th floor
San Jose, CA 95113

Quality Control Report

Client Project ID:
Tamien Project

Ref: Q17671_300s
Method: EPA 200.7/245.1
Analyzed: 04/12/10
Reported: 04/14/10
Analyst: ZT
Matrix: Water
Units: mg/kg

Spiked Sample: Blank

Quality Control Results of Analysis for Metals

Analyte	Reporting Limit mg/kg	Sample Results mg/kg	Spike Added mg/kg	Spike Recovery mg/kg	Spike Dup. Recovery mg/kg	MS/BS percent Recovery	MSD/BSD percent Recovery	Relative Percent Difference
Silver	0.25	ND	25.0	22.2	22.4	88.8	89.6	0.9
Arsenic	0.50	ND	25.0	25.0	25.3	100	101	1.2
Barium	0.25	ND	25.0	25.4	25.6	102	102	0.8
Beryllium	0.25	ND	25.0	25.9	26.2	104	105	1.2
Cadmium	0.25	ND	25.0	24.9	25.4	99.6	102	2.0
Cobalt	0.26	ND	25.0	24.7	25.1	98.8	100	1.6
Chromium (Total	0.25	ND	25.0	24.6	24.9	98.4	99.6	1.2
Copper	0.25	ND	25.0	24.3	24.4	97.2	97.6	0.4
Mercury	0.25	ND	0.417	0.435	0.433	104	104	0.5
Molybdenum	0.25	ND	25.0	24.4	24.6	98	98	0.8
Nickel	0.25	ND	25.0	24.6	25.2	98	101	2.4
Lead	0.25	ND	25.0	24.6	24.9	98.4	100	1.2
Antimony	0.25	ND	25.0	24.9	25.2	99.6	101	1.2
Selenium	0.50	ND	25.0	25.8	26.7	103	107	3.4
Thallium	1.00	ND	25.0	24.0	25.4	96.0	102	5.7
Vanadium	0.25	ND	25.0	24.4	24.7	98	99	1.2
Zinc	0.25	ND	25.0	24.9	25.3	100	101	1.6

ND: Not Detected

H. Khoshkhoo, PhD.,
Laboratory Director/President

Quality Control Report

Client:
City of San Jose
200 E Santa Clara St
San Jose, CA 95113

Ref. Q17671_200s
Method: 8270 C
Sampled: 4/7/2010
Received: 4/7/2010
Matrix Solid
Analyzed 4/14/2010
Reported: 4/14/2010
Unit mg/Kg

Sample Spiked: Blank

Semi-Volatile Organic Compounds
EPA 8270 C
Laboratory Control Sample Recovery

Analyte	Spike Added mg/Kg	Percent Recovery	Percent Recovery	Relative Percent Difference	QC Limit Percent Recovery
Phenol	2.5	68.3	66.2	3.1	12-89
2-Chlorophenol	2.5	68.5	67.4	1.6	12-123
1,4-Dichlorobenze	2.5	70.3	70.5	0.3	36-110
N-Nitroso-di-n-propylar	2.5	63.7	63.2	0.8	41-130
1,2,4-Trichlorobenzene	2.5	71.3	73.3	2.8	39-120
4-chloro-3-methylphen	2.5	66.8	64.8	3.0	20-110
Acenaphtene	3.5	82.4	81.3	1.3	46-135
4-Nitrophenol	4.5	47.6	42.1	12.3	10-130
2,4-Dinitrotoluene	2.5	62.8	59.3	5.7	24-115
Pentachlorophenol	2.5	46.9	44.4	5.5	9-190
Pyrene	2.5	43.8	51.7	16.5	26-140
Surrogate(s)					
2-Fluorophenol	10	75.5	79.3	4.9	25-100
Phenol -d5	10	72.4	70.2	3.1	10-110
Nitrobenzene -d5	5.0	72.9	75.3	3.2	35-114
2-Fluorobiphenyl	5.0	75.6	76.1	0.7	43-116
2,4,6 tribromophenol	10	68.7	69.1	0.6	10-123
p-Terphenyl-d14	5.0	53.1	61.9	15.3	33-141

H.Khosh Khoo, PhD.,
Laboratory Director/President

Quality Control Report

Client:
City of San Jose
200 E. Santa Clara Street, 10th floor
San Jose, CA 95113

Ref.	Q17671_100s
Matrix:	Solid
Unit:	mg/kg
Analyzed:	4/13/2010
Reported	4/14/2010

Attention: Geoff Blair

Sample Spiked: Blank

Quality Conrol Report of Analysis for VOC

Method : EPA8260 B

		Spike Recovery		
Analyte	Spike Added mg/kg	Blank Spike %Recovery	Blank Spike Dup % Recovery	Relative % Difference RPD
1,1-Dichloroethene	0.02	88.9	91.0	2.3
Trichloroethene	0.02	111	112	0.9
Benzene	0.02	110	113	2.7
Toluene	0.02	113	116	2.6
Chlorobenzene	0.02	111	115	3.5
Surrogates				
Dibromofluoromethane	0.02	96.4	93.3	3.3
Toluene-d8	0.02	101	102	1.0
p-Bromofluorobenzene	0.02	99.9	97.6	2.3

H.Khosh Khoo, PhD.,
Laboratory Director/President

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DELTA ENVIRONMENTAL LABORATORIES, Ltd

Client:
City of San Jose
200 E. Santa Clara St. 10th Floor
San Jose, CA 95113

Client Project ID:
Tamien Project

Ref: R17672_300s
Method: EPA 200.7/245.1
Sampled: 04/07/10
Received: 04/07/10
Analyzed: 04/12/10
Reported: 04/14/10
Analyst: ZT
Matrix: solid
Units: mg/kg

Attention: Geoff Blair

Laboratory Results of Analysis for Metals

Analyte	Reporting Limit (mg/kg)	Results
		17672-5
		B-5-2
Silver	0.25	ND
Arsenic	0.50	3.82
Barium	0.25	145
Beryllium	0.25	0.857
Cadmium	0.25	6.40
Cobalt	0.25	21.2
Chromium (Total)	0.25	177
Copper	0.25	34.9
Mercury	0.02	2.24
Molybdenum	0.25	ND
Nickel	0.25	182
Lead	0.25	14.4
Antimony	0.25	2.81
Selenium	0.50	ND
Thallium	1.00	32.9
Vanadium	0.25	67.3
Zinc	0.25	81.8

ND: Not Detected

H. Khoshkhoo, Ph.D.
Laboratory Director/President

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Client:
City of San Jose
200 E. Santa Clara St., 10th Floor
San Jose, Ca 95113

Attention: Geoff Blair

Reference: R17672 _5_8081

Method: 8081
Sampled: 04/07/10
Received: 04/07/10
Matrix Solid
Analyzed 04/13/10
D.F. 1
Reported: 04/15/10
Units: ug/kg

Laboratory Results of Analysis for Organochlorine Pesticides
EPA 8081

Analyte	CAS NO.	Reporting Limit ug/kg	Results	
			Lab ID	17672-5
			Sample ID	B-5-2
Alpha-BHC	319-84-6	0.125	ND	
Beta-BHC	319-85-7	0.125	ND	
Lindane	58-89-9	0.125	ND	
Delta-BHC	319-86-8	0.125	ND	
Heptachlor	76-44-8	0.125	ND	
Aldrine	309-002-2	0.125	ND	
Heptachlor epoxie	1024-57-3	0.125	ND	
gamachlorodane	51037-42	0.125	ND	
Endosulfan I	959-98-8	0.125	ND	
Alpha chlorodane	51037-19	0.125	ND	
Dieldrine	60-57-1	0.125	ND	
4,4 DDE	72-55-9	0.125	ND	
Endrine	72-20-8	0.125	ND	
Endosulfan II	33212-65-9	0.125	ND	
4,4'DDD	72-54-9-8	0.125	ND	
Endrine aldehyde	7421-93-4	0.125	ND	
Endosulfan sulfate	1031-07-8	0.125	ND	
4,4' DDT	50-29-3	0.125	ND	
Endrine Ketone	PesstCAS-19	0.125	ND	
Methoxichlor	PesatCAS-20	0.125	ND	
Toxaphene	8001-35-2	0.125	ND	
Surrogate		%	94.0	

ND: Not Detected

Delta Environmental Laboratories

H.Khosh Khoo, PhD.,
Laboratory Director/President

Client:
City of San Jose
200 E. Santa Clara St., 10th Floor
San Jose, Ca 95113

Attention: Geoff Blair

Reference:	**R17672_5_8082**
Method:	**EPA 8082**
Sampled:	**04/07/10**
Received:	**04/07/10**
Matrix	**Solid**
Analyzed	**04/13/10**
D.F.	**1**
Reported:	**04/15/10**
Units:	**mg/kg**

Laboratory Results of Analysis for Pesticides and PCBs

Analyte	CAS NO.	Reporting Limit mg/kg	Results	
			Lab ID	17672-5
			Sample ID	B-5-2
PCBs				
PCB 1016	12674-11-2	0.025	ND	
PCB 1221	11104-28-2	0.100	ND	
PCB 1232	11141-16-5	0.025	ND	
PCB 1242	53469-21-9	0.025	ND	
PCB 1248	12673-2-29-6	0.025	ND	
PCB 1254	11097-69-1	0.025	ND	
PCB 1260	11096-82-5	0.025	ND	

ND: Not Detected

Delta Environmental Laboratories

H.Khosh Khoo, PhD.,
Laboratory Director/President

DELTA
ENVIRONMENTAL LABORATORIES, Ltd

Client:
City of San Jose
200 E. Santa Clara Street, 10th floor
San Jose, CA 95113

Attention: Geoff Blair

Client Project ID:
Tamien Project

Ref:	R17672-5_herb MAI
Method	EPA 8151A
Sampled:	4/7/2010
Received:	4/7/2010
Matrix:	Solid
Analyzed:	4/14/-16/10
Reported:	4/16/2010
Units:	mg/kg
Analyst	RJ

Laboratory Results for Herbicides
EPA8150

Analyte	Reporting Limit mg/kg	Results
		Sample ID
		B-5-2
		17672-5
Acifluorfen	0.05	ND
Bentazon	0.05	ND
Chloramben	0.05	ND
2,4,D(Dichlorophenoxyacetic acid)	0.05	ND
2,4-DB	0.05	ND
Dalapon	0.05	ND
DCPA(mono & Diacid)	0.05	ND
Dicamba	0.05	ND
3,5 dichlorobenzoic acid	0.05	ND
Dichlorprop	0.05	ND
Dinoseb	0.05	ND
MCPP	5.0	ND
MCPA	5.0	ND
4-Nitrophenol	0.05	ND
Pentachlorophenol	0.05	ND
Picloram	0.05	ND
2,4,4-T	0.05	ND
2,4,5-TP(silvex)	0.05	ND
SS	%	91

Hossein Khosh Khoo, Ph.D.
Laboratory Director/President

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DELTA ENVIRONMENTAL LABORATORIES, Ltd

Client:
City of San Jose
200 E. Santa Clara S
San Jose, CA 95113

Client Project ID:
Tamien Project

Ref.	R17672-5_400s
Method:	EPA 8020/8015
Sampled:	4/7/2010
Received:	4/7/2010
Analyzed	4/13-15/10
Analyst:	LW
Reported:	4/15/2010
Matrix:	Solid
Unit	mg/kg

Attention: Geoff Blair

Laboratory Results of Analysis for BTEX & TPH

Analyte	Reporting Limit mg/kg	Results Sample ID B-5-2 17672-5	Date Of Analysis	Method
BTEX				
Benzene	0.0025	ND	4/13/2010	8260B
Toluene	0.005	ND	4/13/2010	8260B
Ethylbenzene	0.0025	ND	4/13/2010	8260 B
m,p-Xylenes	0.005	ND	4/13/2010	8260 B
o-Xylene	0.0025	ND	4/13/2010	8260 B
TPH-g	0.050	ND	4/12/2010	8015M/5030
TPH-D	2.5	ND	4/15/2010	8015M
TPH_Mo	5.0	ND	4/15/2010	8015M

ND=Not Detected

Delta Environmental Laboratories,
Hossein Khosh Khoo, Ph.D.
Laboratory Director/ President

WATER • WASTE WATER • HAZARDOUS WASTE • FUEL • AIR • SOIL

DELTA ENVIRONMENTAL LABORATORIES, Ltd

Client:
City of San Jose
200 E. Santa Clara St. 10th Floor
San Jose, CA 95113

Client Project ID:
Tamien Project

Attention: Geoff Blair

Reference: R17672_100s
Method: 8260 B
Sampled: 04/07/10
Received: 04/07/10
Matrix Solid
Analyzed 04/13/10

Reported: 04/14/10
Units: mg/kg

Laboratory Results of Analysis for Volatile Organic Compounds
EPA 8260 B

Analyte	CAS NO.	Reporting Limit mg/kg	Results	
			Lab ID	17672-5
			Sample ID	B-5-2
Benzene	71-43-2	0.00250	ND	
Bromobenzene	108-86-1	0.00250	ND	
Bromochloromethane	74-97-5	0.00250	ND	
Bromodichloromethane	75-27-4	0.00250	ND	
Bromoform	75-25-2	0.00250	ND	
Bromomethane	74-83-9	0.00250	ND	
n-Butylbenzene	104-51-8	0.00250	ND	
sec-Butylbenzene	108-90-7	0.00250	ND	
tert-Butylbenzene	98-06-6	0.00250	ND	
Carbon Tetrachloride	56-23-5	0.00250	ND	
Chlorobenzene	108-90-7	0.00250	ND	
Chloroethane	75-00-3	0.00250	ND	
Chloroform	67-66-3	0.00250	0.00335	
Chloromethane	74-87-3	0.00250	ND	
2-Chlorotoluene	95-49-8	0.00250	ND	
4-Chlorotoluene	106-43-4	0.00250	ND	
Dibromochloromethane	74-97-5	0.00250	ND	
1,2-Dibromo-3-chloropropane	96-12-8	0.00250	ND	
1,2-Dibromoethane	106-93-4	0.00250	ND	
Dibromomethane	74-95-3	0.00250	ND	
1,2-Dichlorobenzene	95-50-1	0.00250	ND	
1,3-Dichlorobenzene	41-73-1	0.00250	ND	
1,4-Dichlorobenzene	106-46-7	0.00250	ND	
dichlorodifluoromethane	75-71-8	0.00250	ND	
1,1-Dichloroethane	75-34-3	0.00250	ND	
1,2-Dichloroethane	107-06-2	0.00250	ND	
1,1-Dichloroethene	75-35-4	0.00250	ND	
cis-1,2-Dichloroethene	156-59-2	0.00250	ND	
trans-1,2-Dichloroethene	156-60-5	0.00250	ND	
1,2-Dichloropropane	78-87-5	0.00250	ND	
1,3-Dichloropropane	142-28-9	0.00250	ND	
2,2-Dichloropropane	594-20-7	0.00250	ND	
1,1-Dichloropropene	563-58-6	0.00250	ND	

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Continued from previous Page

Analyte	CAS NO.	Detection Limit mg/kg	Results	
			Lab ID	17672-5
			Sample ID	B-5-2
Ethylbenzene	100-41-4	0.0025	ND	
Hexachlorobutadiene	87-68-3	0.0025	ND	
Isopropylbenzene	98-82-8	0.0025	ND	
p-Isopropyltoluene	99-87-6	0.0025	ND	
Methylene Chloride	75-09-2	0.0025	ND	
Naphthalene	91-20-3	0.0025	ND	
n-Propylbenzene	103-65-1	0.0025	ND	
Styrene	100-42-5	0.0025	ND	
1,1,1,2-Tetrachloroethane	630-20-6	0.0025	ND	
1,1,2,2-Tetrachloroethane	79-34-5	0.0025	ND	
Tetrachloroethene	127-18-4	0.0025	ND	
Toluene	108-88-3	0.0025	ND	
1,2,3-Trichlorobenzene	87-61-6	0.0025	ND	
1,2,4-Trichlorobenzene	120-82-1	0.0025	ND	
1,1,1-Trichloroethane	71-55-6	0.0025	ND	
1,1,2-Trichloroethane	79-00-5	0.0025	ND	
Trichloroethene	79-01-6	0.0025	ND	
Trichlorofluoromethane	75-69-4	0.0025	ND	
1,2,3-Trichloropropane	96-18-4	0.0025	ND	
1,2,4-Trimethylbenzene	95-63-6	0.0025	ND	
1,3,5-Trimethylbenzene	108-67-8	0.0025	ND	
Vinyl Chloride	75-01-4	0.0025	ND	
o-Xylene	95-47-6	0.0025	ND	
m,p-Xylenes	1330-20-7	0.0050	ND	
cis-1,3-Dichloropropene	10061-01-5	0.0025	ND	
trans-1,3-Dichloropropene	1006-02-6	0.0025	ND	
Surrogate			% Recovery	QC Limits
Dibrofluoromethane	1868-53-7	0.0025	101	70-130
Toluene d-8	2037-26-5	0.0025	99.9	70-130
4-Bromofluorobenzene	460-00-4	0.0025	79.0	70-130

ND: Not Detected

H. Khosh Khoo, Ph.D.
Laboratory Director/President

2/2

Client:
City of San Jose
200 E. Santa Clara St., 10th Floor
San Jose, Ca 95113

Attention: Geoff Blair

Ref: R17672_5_O&G
Sampled: 04/07/10
Received: 04/07/10
Analyzed: 04/13/10
Reported: 04/15/10
Analyst: zt
Matrix: solid
Units: mg/kg

Laboratory Report of Wet Chemistry

Analyte	Detection Limit mg/kg	Results	Method
		Sample ID	
		B-5-2	
		17672-5	
Oil and Grease	25.0 mg/kg	ND	EPA 1664

ND: Not Detected

H. Khoshkhoo PhD.,
Laboratory Director/President

DELTA
ENVIRONMENTAL LABORATORIES, Ltd

Client:
City of San Jose
200 E. Santa Clara St. 10th Floor
San Jose, CA 95113

Attention: Geoff Blair

Client Project ID:
Tamien Project

Ref: R17672_300s
Method: EPA 200.7/245.1
Sampled: 04/07/10
Received: 04/07/10
Analyzed: 04/12/10
Reported: 04/14/10
Analyst: ZT
Matrix: solid
Units: mg/kg

Laboratory Results of Analysis for Metals

Analyte	Reporting Limit (mg/kg)	Results
		17672-3
		B-4-5
Silver	0.25	ND
Arsenic	0.50	3.09
Barium	0.25	134
Beryllium	0.25	0.742
Cadmium	0.25	5.41
Cobalt	0.25	19.2
Chromium (Total)	0.25	125
Copper	0.25	23.6
Mercury	0.02	0.453
Molybdenum	0.25	ND
Nickel	0.25	168
Lead	0.25	4.61
Antimony	0.25	2.13
Selenium	0.50	ND
Thallium	1.00	29.1
Vanadium	0.25	61.1
Zinc	0.25	50.4

ND: Not Detected

H. Khoshkhoo, Ph.D.
Laboratory Director/President

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DELTA ENVIRONMENTAL LABORATORIES, Ltd

Client:
City of San Jose
200 E. Santa Clara St. 10th Floor
San Jose, CA 95113

Client Project ID:
Tamien Project

Attention: Geoff Blair

Reference: R17672_100s
Method: 8260 B
Sampled: 04/07/10
Received: 04/07/10
Matrix Solid
Analyzed 04/13/10

Reported: 04/15/10
Units: mg/kg

Laboratory Results of Analysis for Volatile Organic Compounds
EPA 8260 B

Analyte	CAS NO.	Reporting Limit mg/kg	Results	
			Lab ID	17672-3
			Sample ID	B-4-5
Benzene	71-43-2	0.0025	ND	
Bromobenzene	108-86-1	0.0025	ND	
Bromochloromethane	74-97-5	0.0025	ND	
Bromodichloromethane	75-27-4	0.0025	ND	
Bromoform	75-25-2	0.0025	ND	
Bromomethane	74-83-9	0.0025	ND	
n-Butylbenzene	104-51-8	0.0025	ND	
sec-Butylbenzene	108-90-7	0.0025	ND	
tert-Butylbenzene	98-06-6	0.0025	ND	
Carbon Tetrachloride	56-23-5	0.0025	ND	
Chlorobenzene	108-90-7	0.0025	ND	
Chloroethane	75-00-3	0.0025	ND	
Chloroform	67-66-3	0.0025	0.0025	
Chloromethane	74-87-3	0.0025	ND	
2-Chlorotoluene	95-49-8	0.0025	ND	
4-Chlorotoluene	106-43-4	0.0025	ND	
Dibromochloromethane	74-97-5	0.0025	ND	
1,2-Dibromo-3-chloropropane	96-12-8	0.0025	ND	
1,2-Dibromoethane	106-93-4	0.0025	ND	
Dibromomethane	74-95-3	0.0025	ND	
1,2-Dichlorobenzene	95-50-1	0.0025	ND	
1,3-Dichlorobenzene	41-73-1	0.0025	ND	
1,4-Dichlorobenzene	106-46-7	0.0025	ND	
dichlorodifluoromethane	75-71-8	0.0025	ND	
1,1-Dichloroethane	75-34-3	0.0025	ND	
1,2-Dichloroethane	107-06-2	0.0025	ND	
1,1-Dichloroethene	75-35-4	0.0025	ND	
cis-1,2-Dichloroethene	156-59-2	0.0025	ND	
trans-1,2-Dichloroethene	156-60-5	0.0025	ND	
1,2-Dichloropropane	78-87-5	0.0025	ND	
1,3-Dichloropropane	142-28-9	0.0025	ND	
2,2-Dichloropropane	594-20-7	0.0025	ND	
1,1-Dichloropropene	563-58-6	0.0025	ND	

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Continued from previous Page

Analyte	CAS NO.	Detection Limit mg/kg	Results	
			Lab ID	17672-3
			Sample ID	B-4-5
Ethylbenzene	100-41-4	0.0025	ND	
Hexachlorobutadiene	87-68-3	0.0025	ND	
Isopropylbenzene	98-82-8	0.0025	ND	
p-Isopropyltoluene	99-87-6	0.0025	ND	
Methylene Chloride	75-09-2	0.0025	ND	
Naphthalene	91-20-3	0.0025	ND	
n-Propylbenzene	103-65-1	0.0025	ND	
Styrene	100-42-5	0.0025	ND	
1,1,1,2-Tetrachloroethane	630-20-6	0.0025	ND	
1,1,2,2-Tetrachloroethane	79-34-5	0.0025	ND	
Tetrachloroethene	127-18-4	0.0025	ND	
Toluene	108-88-3	0.0025	ND	
1,2,3-Trichlorobenzene	87-61-6	0.0025	ND	
1,2,4-Trichlorobenzene	120-82-1	0.0025	ND	
1,1,1-Trichloroethane	71-55-6	0.0025	ND	
1,1,2-Trichloroethane	79-00-5	0.0025	ND	
Trichloroethene	79-01-6	0.0025	ND	
Trichlorofluoromethane	75-69-4	0.0025	ND	
1,2,3-Trichloropropane	96-18-4	0.0025	ND	
1,2,4-Trimethylbenzene	95-63-6	0.0025	ND	
1,3,5-Trimethylbenzene	108-67-8	0.0025	ND	
Vinyl Chloride	75-01-4	0.0025	ND	
o-Xylene	95-47-6	0.0025	ND	
m,p-Xylenes	1330-20-7	0.0050	ND	
cis-1,3-Dichloropropene	10061-01-5	0.0025	ND	
trans-1,3-Dichloropropene	1006-02-6	0.0025	ND	
Surrogate			% Recovery	QC Limits
Dibrofluoromethane	1868-53-7	0.0025	99	70-130
Toluene d-8	2037-26-5	0.0025	97.4	70-130
4-Bromofluorobenzene	460-00-4	0.0025	80.5	70-130

ND: Not Detected

H. Khosh Khoo, Ph.D.
Laboratory Director/President

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ENVIRONMENTAL LABORATORIES, Ltd

Client:
City of San Jose
200 E. Santa Clara S
San Jose, CA 95113

Client Project ID:
Tamien Project

Ref.	R17672-3_400s
Method:	EPA 8020/8015
Sampled:	4/7/2010
Received:	4/7/2010
Analyzed	4/13-15/10
Analyst:	LW
Reported:	4/15/2010
Matrix:	Solid
Unit	mg/kg

Attention: Geoff Blair

Laboratory Results of Analysis for BTEX & TPH

Analyte	Reporting Limit mg/kg	Results	Date Of Analysis	Method
		Sample ID		
		B-4-5		
		17672-3		
BTEX				
Benzene	0.0025	ND	4/13/2010	8260B
Toluene	0.005	ND	4/13/2010	8260B
Ethylbenzene	0.0025	ND	4/13/2010	8260 B
m,p-Xylenes	0.005	ND	4/13/2010	8260 B
o-Xylene	0.0025	ND	4/13/2010	8260 B
TPH-g	0.050	ND	4/12/2010	8015M/5030
TPH-D	2.5	ND	4/15/2010	8015M
TPH_Mo	5.0	ND	4/15/2010	8015M

ND=Not Detected

Delta Environmental Laboratories,
Hossein Khosh Khoo, Ph.D.
Laboratory Director/ President

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ENVIRONMENTAL LABORATORIES, Ltd

Client:
City of San Jose
200 E. Santa Clara St. 10th Floor
San Jose, CA 95113

Client Project ID:
Tamien Project

Attention: Geoff Blair

Reference: R17672_200s

Method: 8270C
Sampled: 04/07/10
Received: 04/07/10
Matrix Solid
Analyzed 4/14/2010

Reported: 04/15/10
Units: mg/kg

Laboratory Results of Analysis for Semi-Volatile Organic Compounds
EPA 8270 C

Analyte	CAS ND.	Reporting Limit mg/kg	Results	
			Lab ID	17672-3
			Sample ID	B-4-5
Acenaphthene	83-32-9	0.250		ND
Acenaphthylene	208-96-8	0.250		ND
Anthracene	120-12-7	0.250		ND
Benzidine	92-87-5	1.250		ND
Benzoic Acid	65-85-0	1.250		ND
Benzo (a) anthracene	56-55-3	0.250		ND
Benzo (b) fluoranthene	205-99-2	0.250		ND
Benzo (k) fluoranthene	207-08-9	0.250		ND
Benzo (g,h,i) perylene	191-24-2	0.250		ND
Benzo (a) pyrene	50-32-8	0.250		ND
Benzyl Alcohol	100-51-6	0.500		ND
Bis (2-chloroethoxy) methane	111-91-1	0.500		ND
Bis (2-choroethyl) Ether	111-44-4	0.500		ND
Bis (2-Chloroisopropyl) Ether	108-60-1	0.250		ND
Bis (2-ethylhexy) Phthalate	117-81-7	0.250		ND
4-Bromophenyl Phenyl Ether	101-55-3	0.250		ND
Butylbenzyl Phthalate	85-68-7	0.250		ND
4- Chloroaniline	106-47-8	0.500		ND
2-Chloronaphthalene	91-58-7	0.250		ND
4-Chlorophenyl Phenyl Ether	7005-72-3	0.250		ND
Chrysene	218-01-9	0.250		ND
Dibenzo (a,h) anthracene	53-70-3	0.250		ND
Dibenzofuran	132-64-9	0.250		ND
Di-n-butyl Phthalate	84-74-2	0.250		ND
1,2-Dichlorobenzene	95-50-1	0.250		ND
1,3-Dichlorobenzene	541-73-1	0.250		ND
1,4-Dichlorobenzene	106-46-7	0.250		ND
3,3'-Dichlorobenzidine	91-94-1	0.500		ND
Diethyl Phthalate	84-66-2	0.250		ND
Dimethyl Phthalate	131-11-3	0.250		ND
2,4-Dinitrotoluene	121-14-2	0.250		ND
2,6-Dinitrotoluene	606-20-2	0.250		ND
Di-n-octyl Phthalate	117-84-0	0.250		ND

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Continued from previous Page

Analyte	CAS NO.	Detection Limit mg/kg	Results	
			Lab ID	17672-3
			Sample ID	B-4-5
Fluoranthene	206-44-0	0.250		ND
Fluorene	86-73-7	0.250		ND
Hexachlorobenzene	118-74-1	0.250		ND
Hexachlorobutadiene	87-68-3	0.500		ND
Hexachlorocyclopentadiene	77-47-4	0.500		ND
Hexachloroethane	67-72-1	0.250		ND
Indeno (1,2,3-cd) pyrene	193-39-5	0.250		ND
Isophorone	78-59-1	0.250		ND
2-Methylnaphthalene	91-57-6	0.250		ND
Naphthalene	91-20-3	0.250		ND
2-Nitroaniline	88-74-4	1.250		ND
3-Nitroaniline	99-09-2	1.250		ND
4-Nitroaniline	100-01-6	1.250		ND
Nitrobenzene	98-95-3	0.250		ND
N-Nitrosodiphenylamine	86-30-6	0.250		ND
N-Nitrosodi-n-propylamine	621-64-7	0.250		ND
Phenanthrene	85-01-8	0.250		ND
Pyrene	129-00-0	0.250		ND
1,2,4-Trichlorobenzene	120-82-1	0.250		ND
4-Chloro-3-methylphenol	59-50-7	0.500		ND
2-Chlorophenol	95-57-8	0.250		ND
2,4-Dichlorophenol	120-83-2	0.250		ND
2,4-Dimethylphenol	105-67-9	0.250		ND
4,6-Dinitro-2-methylphenol	534-52-1	1.250		ND
2,4-Dinitrophenol	51-28-5	1.250		ND
2-Methylphenol	95-48-7	0.250		ND
4-Methylphenol	106-44-5	0.250		ND
2-Nitrophenol	88-75-5	0.250		ND
4-Nitrophenol	100-02-7	1.250		ND
Pentchlorophenol	87-86-5	1.250		ND
Phenol	108-95-2	0.250		ND
2,4,5-Trichlorophenol	95-95-4	0.250		ND
2,4,6-Trichlorophenol	88-06-2	0.250		ND

ND: Not Detected

Surrogate	QC Limits	% Recovery
2,4,6-Tribromophenol	19-122	62.7
2-Fluorobiphenyl	30-115	54.4
2-Fluorophenol	25-121	66.0
4-Terphenyl-d4	18-137	65.7
Nitrobenzene	23-120	68.3
Phenol-d5	24-113	65.0

H. Khosh Khoo, Ph.D.
Laboratory Director/President

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ENVIRONMENTAL LABORATORIES, Ltd

Client:
City of San Jose
200 E. Santa Clara St. 10th Floor
San Jose, CA 95113

Attention: Geoff Blair

Client Project ID:
Tamien Project

Ref: R17672_300s
Method: EPA 200.7/245.1
Sampled: 04/07/10
Received: 04/07/10
Analyzed: 04/12/10
Reported: 04/14/10
Analyst: ZT
Matrix: solid
Units: mg/kg

Laboratory Results of Analysis for Metals

Analyte	Reporting Limit (mg/kg)	Results
		17672-8
		B-6-2
Silver	0.25	ND
Arsenic	0.50	3.73
Barium	0.25	220
Beryllium	0.25	0.893
Cadmium	0.25	5.58
Cobalt	0.25	29.4
Chromium (Total)	0.25	138
Copper	0.25	34.7
Mercury	0.02	1.39
Molybdenum	0.25	ND
Nickel	0.25	214
Lead	0.25	16.70
Antimony	0.25	2.21
Selenium	0.50	ND
Thallium	1.00	31.2
Vanadium	0.25	63.4
Zinc	0.25	104

ND: Not Detected

H. Khoshkhoo, Ph.D.
Laboratory Director/President

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ENVIRONMENTAL LABORATORIES, Ltd

Client:
City of San Jose
200 E. Santa Clara S
San Jose, CA 95113

Client Project ID:
Tamien Project

Ref.	R17672-8_400s
Method:	EPA 8020/8015
Sampled:	4/7/2010
Received:	4/7/2010
Analyzed	4/13-15/10
Analyst:	LW
Reported:	4/15/2010
Matrix:	Solid
Unit	mg/kg

Attention: Geoff Blair

Laboratory Results of Analysis for BTEX & TPH

Analyte	Reporting Limit mg/kg	Results	Date Of Analysis	Method
		Sample ID		
		B-6-2		
		17672-8		
BTEX				
Benzene	0.0025	ND	4/13/2010	8260B
Toluene	0.005	ND	4/13/2010	8260B
Ethylbenzene	0.0025	ND	4/13/2010	8260 B
m,p-Xylenes	0.005	ND	4/13/2010	8260 B
o-Xylene	0.0025	ND	4/13/2010	8260 B
TPH-g	0.050	ND	4/12/2010	8015M/5030
TPH-D	2.5	ND	4/15/2010	8015M
TPH_Mo	5.0	ND	4/15/2010	8015M

ND=Not Detected

Delta Environmental Laboratories,
Hossein Khosh Khoo, Ph.D.
Laboratory Director/ President

Client:
City of San Jose
200 E. Santa Clara St., 10th Floor
San Jose, Ca 95113

Attention: Geoff Blair

Reference:	R17672_8_8082
Method:	EPA 8082
Sampled:	04/07/10
Received:	04/07/10
Matrix	Solid
Analyzed	04/13/10
D.F.	1
Reported:	04/15/10
Units:	mg/kg

Laboratory Results of Analysis for Pesticides and PCBs

Analyte	CAS NO.	Reporting Limit mg/kg	Results	
			Lab ID	17672-8
			Sample ID	B-6-2
PCBs				
PCB 1016	12674-11-2	0.025	ND	
PCB 1221	11104-28-2	0.100	ND	
PCB 1232	11141-16-5	0.025	ND	
PCB 1242	53469-21-9	0.025	ND	
PCB 1248	12873-2-29-6	0.025	ND	
PCB 1254	11097-69-1	0.025	ND	
PCB 1260	11096-82-5	0.025	ND	

ND: Not Detected

Delta Environmental Laboratories

H.Khosh Khoo, PhD.,
Laboratory Director/President

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DELTA

ENVIRONMENTAL LABORATORIES, Ltd

Client:
City of San Jose
200 E. Santa Clara St., 10th Floor
San Jose, Ca 95113

Attention: Geoff Blair

Reference:	R17872 _8_8081
Method:	8081
Sampled:	04/07/10
Received:	04/07/10
Matrix	Solid
Analyzed	04/13/10
D.F.	1
Reported:	04/15/10
Units:	ug/kg

Laboratory Results of Analysis for Organochlorine Pesticides
EPA 8081

Analyte	CAS NO.	Reporting Limit ug/kg	Results	
			Lab ID	17672-8
			Sample ID	B-6-2
Alpha-BHC	319-84-6	0.125	ND	
Beta-BHC	319-85-7	0.125	ND	
Lindane	58-89-9	0.125	ND	
Delta-BHC	319-86-8	0.125	ND	
Heptachlor	76-44-8	0.125	ND	
Aldrine	309-002-2	0.125	ND	
Heptachlor epoxie	1024-57-3	0.125	ND	
gamachlorodane	51037-42	0.125	ND	
Endosulfan I	959-98-8	0.125	ND	
Alpha chlorodane	51037-19	0.125	ND	
Dieldrine	60-57-1	0.125	ND	
4,4 DDE	72-55-9	0.125	ND	
Endrine	72-20-8	0.125	ND	
Endosulfan II	33212-65-9	0.125	ND	
4,4'DDD	72-54-9-8	0.125	ND	
Endrine aldehyde	7421-93-4	0.125	ND	
Endosulfan sulfate	1031-07-8	0.125	ND	
4,4' DDT	50-29-3	0.125	ND	
Endrine Ketone	PesstCAS-19	0.125	ND	
Methoxichlor	PesstCAS-20	0.125	ND	
Toxaphene	8001-35-2	0.125	ND	
Surrogats		%	106	

ND: Not Detected

Delta Environmental Laboratories

H.Khosh Khoo, PhD.,
Laboratory Director/President

Ref:	R17672-8_herb
	MAI
Method	EPA 8151A
Sampled:	4/7/2010
Received:	4/7/2010
Matrix:	Solid
Analyzed:	4/14/-16/10
Reported:	4/16/2010
Units:	mg/kg
Analyst	RJ

Client:
City of San Jose
200 E. Santa Clara Street, 10th floor
San Jose, CA 95113

Client Project ID:
Tamien Project

Attention: Geoff Blair

Laboratory Results for Herbicides
EPA8150

Analyte	Reporting Limit mg/kg	Results Sample ID B-6-2* 17672-8
Acifluorfen	0.05	ND
Bentazon	0.05	ND
Chloramben	0.05	ND
2,4,D(Dichlorophenoxyacetic acid)	0.05	ND
2,4-DB	0.05	ND
Dalapon	0.05	ND
DCPA(mono & Diacid)	0.05	ND
Dicamba	0.05	ND
3,5 dichlorobenzoic acid	0.05	ND
Dichlorprop	0.05	ND
Dinoseb	0.05	ND
MCPP	5.0	ND
MCPA	5.0	ND
4-Nitrophenol	0.05	ND
Pentachlorophenol	0.05	ND
Picloram	0.05	ND
2,4,4-T	0.05	ND
2,4,5-TP(silvex)	0.05	ND
SS	%	80

* Sample has been diluted two times due to high level of interferences .Therefore reporting limits must be multiplied by a factor of 2.

Hossein Khosh Khoo, Ph.D.
Laboratory Director/President

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ENVIRONMENTAL LABORATORIES, Ltd

Client:
City of San Jose
200 E. Santa Clara St. 10th Floor
San Jose, CA 95113

Client Project ID:
Tamien Project

Attention: Geoff Blair

Reference: R17672_100s
Method: 8260 B
Sampled: 04/07/10
Received: 04/07/10
Matrix Solid
Analyzed 04/13/10

Reported: 04/15/10
Units: mg/kg

Laboratory Results of Analysis for Volatile Organic Compounds
EPA 8260 B

Analyte	CAS NO.	Reporting Limit mg/kg	Results	
			Lab ID	17672-8
			Sample ID	B-6-2
Benzene	71-43-2	0.0025		ND
Bromobenzene	108-86-1	0.0025		ND
Bromochloromethane	74-97-5	0.0025		ND
Bromodichloromethane	75-27-4	0.0025		ND
Bromoform	75-25-2	0.0025		ND
Bromomethane	74-83-9	0.0025		ND
n-Butylbenzene	104-51-8	0.0025		ND
sec-Butylbenzene	108-90-7	0.0025		ND
tert-Butylbenzene	98-06-6	0.0025		ND
Carbon Tetrachloride	56-23-5	0.0025		ND
Chlorobenzene	108-90-7	0.0025		ND
Chloroethane	75-00-3	0.0025		ND
Chloroform	67-66-3	0.0025		0.0034
Chloromethane	74-87-3	0.0025		ND
2-Chlorotoluene	95-49-8	0.0025		ND
4-Chlorotoluene	106-43-4	0.0025		ND
Dibromochloromethane	74-97-5	0.0025		ND
1,2-Dibromo-3-chloropropane	96-12-8	0.0025		ND
1,2-Dibromoethane	106-93-4	0.0025		ND
Dibromomethane	74-95-3	0.0025		ND
1,2-Dichlorobenzene	95-50-1	0.0025		ND
1,3-Dichlorobenzene	41-73-1	0.0025		ND
1,4-Dichlorobenzene	106-46-7	0.0025		ND
dichlorodifluoromethane	75-71-8	0.0025		ND
1,1-Dichloroethane	75-34-3	0.0025		ND
1,2-Dichloroethane	107-06-2	0.0025		ND
1,1-Dichloroethene	75-35-4	0.0025		ND
cis-1,2-Dichloroethene	156-59-2	0.0025		ND
trans-1,2-Dichloroethene	156-60-5	0.0025		ND
1,2-Dichloropropane	78-87-5	0.0025		ND
1,3-Dichloropropane	142-28-9	0.0025		ND
2,2-Dichloropropane	594-20-7	0.0025		ND
1,1-Dichloropropene	563-58-6	0.0025		ND

Continued from previous Page

Analyte	CAS NO.	Detection Limit mg/kg	Results	
			Lab ID	17672-8
			Sample ID	B-6-2
Ethylbenzene	100-41-4	0.0025	ND	
Hexachlorobutadiene	87-68-3	0.0025	ND	
Isopropylbenzene	98-82-8	0.0025	ND	
p-Isopropyltoluene	99-87-6	0.0025	ND	
Methylene Chloride	75-09-2	0.0100	ND	
Naphthalene	91-20-3	0.0025	ND	
n-Propylbenzene	103-65-1	0.0025	ND	
Styrene	100-42-5	0.0025	ND	
1,1,1,2-Tetrachloroethane	630-20-6	0.0025	ND	
1,1,2,2-Tetrachloroethane	79-34-5	0.0025	ND	
Tetrachloroethene	127-18-4	0.0025	ND	
Toluene	108-88-3	0.0100	ND	
1,2,3-Trichlorobenzene	87-61-6	0.0025	ND	
1,2,4-Trichlorobenzene	120-82-1	0.0025	ND	
1,1,1-Trichloroethane	71-55-6	0.0025	ND	
1,1,2-Trichloroethane	79-00-5	0.0025	ND	
Trichloroethene	79-01-6	0.0025	ND	
Trichlorofluoromethane	75-69-4	0.0025	ND	
1,2,3-Trichloropropane	96-18-4	0.0025	ND	
1,2,4-Trimethylbenzene	95-63-6	0.0025	ND	
1,3,5-Trimethylbenzene	108-67-8	0.0025	ND	
Vinyl Chloride	75-01-4	0.0025	ND	
o -Xylene	95-47-6	0.0025	ND	
m,p-Xylenes	1330-20-7	0.0050	ND	
cis-1,3-Dichloropropene	10061-01-5	0.0025	ND	
trans-1,3-Dichloropropene	1006-02-6	0.0025	ND	
Surrogate			% Recovery	QC Limits
Dibrofluoromethane	1868-53-7	0.0025	101	70-130
Toluene d-8	2037-26-5	0.0025	97.4	70-130
4-Bromofluorobenzene	460-00-4	0.0025	78.6	70-130

ND: Not Detected

H. Khosh Khoo, Ph.D.
Laboratory Director/President

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DELTA
ENVIRONMENTAL LABORATORIES, Ltd

Client:
City of San Jose
200 E. Santa Clara St., 10th Floor
San Jose, Ca 95113

Attention: Geoff Blair

Ref: R17672_8_O&G
Sampled: 04/07/10
Received: 04/07/10
Analyzed: 04/13/10
Reported: 04/15/10
Analyst: zt
Matrix: solid
Units: mg/kg

Laboratory Report of Wet Chemistry

Analyte	Detection Limit mg/L	Results	Method
		Sample ID	
		B-6-2	
		17672-8	
Oil and Grease	25.0 mg/kg	235	EPA 1664

ND: Not Detected

H. Khoshkhoo PhD.,
Laboratory Director/President

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DELTA ENVIRONMENTAL LABORATORIES, Ltd

Client:
City of San Jose
200 E. Santa Clara St. 10th Floor
San Jose, CA 95113

Client Project ID:
Tamien Project

Attention: Geoff Blair

Reference:	R17672_100s
Method:	8260 B
Sampled:	04/07/10
Received:	04/07/10
Matrix	AQ
Analyzed	04/13/10
D.F.	1.0
Reported:	04/14/10
Units:	ug/L

Laboratory Results of Analysis for Volatile Organic Compounds

EPA 8260 B

Analyte	CAS NO.	Reporting Limit ug/L	Results	
			Lab ID	17672-10
			Sample ID	B-1-GW
Benzene	71-43-2	0.5		ND
Bromobenzene	108-86-1	0.5		ND
Bromochloromethane	74-97-5	0.5		ND
Bromodichloromethane	75-27-4	0.5		ND
Bromoform	75-25-2	0.5		ND
Bromomethane	74-83-9	0.5		ND
n-Butylbenzene	104-51-8	0.5		ND
sec-Butylbenzene	108-90-7	0.5		ND
tert-Butylbenzene	98-06-6	0.5		ND
Carbon Tetrachloride	56-23-5	0.5		ND
Chlorobenzene	108-90-7	0.5		ND
Chloroethane	75-00-3	0.5		ND
Chloroform	67-66-3	0.5		ND
Chloromethane	74-87-3	0.5		ND
2-Chlorotoluene	95-49-8	0.5		ND
4-Chlorotoluene	106-43-4	0.5		ND
Dibromochloromethane	74-97-5	0.5		ND
1,2-Dibromo-3-chloropropane	96-12-8	0.5		ND
1,2-Dibromoethane	106-93-4	0.5		ND
Dibromomethane	74-95-3	0.5		ND
1,2-Dichlorobenzene	95-50-1	0.5		ND
1,3-Dichlorobenzene	41-73-1	0.5		ND
1,4-Dichlorobenzene	106-46-7	0.5		ND
dichlorodifluoromethane	75-71-8	0.5		ND
1,1-Dichloroethane	75-34-3	0.5		ND
1,2-Dichloroethane	107-06-2	0.5		ND
1,1-Dichloroethene	75-35-4	0.5		ND
cis-1,2-Dichloroethene	156-59-2	0.5		ND
trans-1,2-Dichloroethene	156-60-5	0.5		ND
1,2-Dichloropropane	78-87-5	0.5		ND
1,3-Dichloropropane	142-28-9	0.5		ND
2,2-Dichloropropane	594-20-7	0.5		ND
1,1-Dichloropropene	563-58-6	0.5		ND

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Continued from previous Page

Analyte	CAS NO.	Detection Limit ug/L	Results	
			Lab ID	17672-10
			Sample ID	B-1-GW
Ethylbenzene	100-41-4	0.5	ND	
Hexachlorobutadiene	87-68-3	0.5	ND	
Isopropylbenzene	98-82-8	0.5	ND	
p-Isopropyltoluene	99-87-6	0.5	ND	
Methylene Chloride	75-09-2	0.5	ND	
Naphthalene	91-20-3	0.5	ND	
n-Propylbenzene	103-65-1	0.5	ND	
Styrene	100-42-5	0.6	ND	
1,1,1,2-Tetrachloroethane	630-20-6	0.5	ND	
1,1,2,2-Tetrachloroethane	79-34-5	0.5	ND	
Tetrachloroethene	127-18-4	0.5	ND	
Toluene	108-88-3	0.5	ND	
1,2,3-Trichlorobenzene	87-61-6	0.5	ND	
1,2,4-Trichlorobenzene	120-82-1	0.5	ND	
1,1,1-Trichloroethane	71-55-6	0.5	ND	
1,1,2-Trichloroethane	79-00-5	0.5	ND	
Trichloroethene	79-01-6	0.5	ND	
Trichlorofluoromethane	75-69-4	0.5	ND	
1,2,3-Trichloropropane	96-18-4	0.5	ND	
1,2,4-Trimethylbenzene	95-63-6	0.5	ND	
1,3,5-Trimethylbenzene	108-67-8	0.5	ND	
Vinyl Chloride	75-01-4	0.5	ND	
o -Xylene	95-47-6	0.5	ND	
m,p-Xylenes	1330-20-7	1.0	ND	
cis-1,3-Dichloropropene	10061-01-5	0.5	ND	
trans-1,3-Dichloropropene	1006-02-6	0.5	ND	
Surrogate			% Recovery	QC Limits
Dibrofluoromethane	1868-53-7	0.5	104	70-130
Toluene d-8	2037-26-5	0.5	98.5	70-130
4-Bromofluorobenzene	460-00-4	0.5	79.1	70-130

ND: Not Detected

H. Khosh Khoo, Ph.D.
Laboratory Director/President

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DELTA ENVIRONMENTAL LABORATORIES, Ltd

Client:
City of San Jose
200 E. Santa Clara S
San Jose, CA 95113

Client Project ID:
Tamien Project

Ref.	R17672-10_400w
Method:	EPA 8020/8015
Sampled:	4/7/2010
Received:	4/7/2010
Analyzed	4/13-15/10
Analyst:	LW
Reported:	4/15/2010
Matrix:	Water
Unit	ug/L

Attention: Geoff Blair

Laboratory Results of Analysis for BTEX & TPH

Analyte	Reporting Limit ug/L	Results	Date Of Analysis	Method
		Sample ID		
		B-1-GW		
		17672-10		
BTEX				
Benzene	0.5	ND	4/13/2010	8260B
Toluene	0.5	ND	4/13/2010	8260B
Ethylbenzene	0.5	ND	4/13/2010	8260 B
m,p-Xylenes	1	ND	4/13/2010	8260 B
o-Xylene	0.5	ND	4/13/2010	8260 B
TPH-g	50	ND	4/12/2010	8015M/5030
TPH-D	50	ND	4/15/2010	8015M
TPH_Mo	350	ND	4/15/2010	8015M

ND=Not Detected

Note Reporting limit for Motor Oil has been elevated due to matrix interferences effect.

Delta Environmental Laboratories,
Hossein Khosh Khoo, Ph.D.
Laboratory Director/ President

DELTA ENVIRONMENTAL LABORATORIES, Ltd

Client:
City of San Jose
200 E. Santa Clara Street, 10th floor
San Jose, CA 95113

Quality Control Report

Client Project ID:
Tamien Project

Spiked Sample: Blank

Ref: Q17672_300s
Method: EPA 200.7/245.1
Analyzed: 04/12/10
Reported: 04/14/10
Analyst: ZT
Matrix: Water
Units: mg/kg

Quality Control Results of Analysis for Metals

Analyte	Reporting Limit mg/kg	Sample Results mg/kg	Spike Added mg/kg	Spike Recovery mg/kg	Spike Dup. Recovery mg/kg	MS/BS percent Recovery	MSD/BSD percent Recovery	Relative Percent Difference
Silver	0.25	ND	25.0	22.2	22.4	88.8	89.6	0.9
Arsenic	0.50	ND	25.0	25.0	25.3	100	101	1.2
Barium	0.25	ND	25.0	25.4	25.6	102	102	0.8
Beryllium	0.25	ND	25.0	25.9	26.2	104	105	1.2
Cadmium	0.25	ND	25.0	24.9	25.4	99.6	102	2.0
Cobalt	0.25	ND	25.0	24.7	25.1	98.8	100	1.6
Chromium (Total)	0.25	ND	25.0	24.6	24.9	98.4	99.6	1.2
Copper	0.25	ND	25.0	24.3	24.4	97.2	97.6	0.4
Mercury	0.25	ND	0.417	0.435	0.433	104	104	0.5
Molybdenum	0.25	ND	25.0	24.4	24.6	98	98	0.8
Nickel	0.25	ND	25.0	24.6	25.2	98	101	2.4
Lead	0.25	ND	25.0	24.6	24.9	98.4	100	1.2
Antimony	0.25	ND	25.0	24.9	25.2	99.6	101	1.2
Selenium	0.50	ND	25.0	25.8	26.7	103	107	3.4
Thallium	1.00	ND	25.0	24.0	25.4	96.0	102	5.7
Vanadium	0.25	ND	25.0	24.4	24.7	98	99	1.2
Zinc	0.25	ND	25.0	24.9	25.3	100	101	1.6

ND: Not Detected

H. Khoshkhoo, PhD.,
Laboratory Director/President

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ENVIRONMENTAL LABORATORIES, Ltd

Client:
City of San Jose
200 E. Santa Clara St. 10th Floor
San Jose, CA 95113

Client Project ID:
Tamien Project

Attention: Geoff Blair

Reference:	R17672_100s
Method:	8260 B
Sampled:	04/07/10
Received:	04/07/10
Matrix	Solid
Analyzed	04/13/10
D.F.	1
Reported:	04/14/10
Units:	mg/kg

Laboratory Results of Analysis for Volatile Organic Compounds

EPA 8260 B

Analyte	CAS NO.	Reporting Limit mg/kg	Results	
			Lab ID	17672-BLK
			Sample ID	BLANK
Benzene	71-43-2	0.0025		ND
Bromobenzene	108-86-1	0.0025		ND
Bromochloromethane	74-97-5	0.0025		ND
Bromodichloromethane	75-27-4	0.0025		ND
Bromoform	75-25-2	0.0025		ND
Bromomethane	74-83-9	0.0025		ND
n-Butylbenzene	104-51-8	0.0025		ND
sec-Butylbenzene	108-90-7	0.0025		ND
tert-Butylbenzene	98-06-6	0.0025		ND
Carbon Tetrachloride	56-23-5	0.0025		ND
Chlorobenzene	108-90-7	0.0025		ND
Chloroethane	75-00-3	0.0025		ND
Chloroform	67-66-3	0.0025		ND
Chloromethane	74-87-3	0.0025		ND
2-Chlorotoluene	95-49-8	0.0025		ND
4-Chlorotoluene	106-43-4	0.0025		ND
Dibromochloromethane	74--97-5	0.0025		ND
1,2-Dibromo-3-chloropropane	96-12-8	0.0025		ND
1,2-Dibromoethane	106-93-4	0.0025		ND
Dibromomethane	74-95-3	0.0025		ND
1,2-Dichlorobenzene	95-50-1	0.0025		ND
1,3-Dichlorobenzene	41-73-1	0.0025		ND
1,4-Dichlorobenzene	106-46-7	0.0025		ND
dichlorodifluoromethane	75-71-8	0.0025		ND
1,1-Dichloroethane	75-34-3	0.0025		ND
1,2-Dichloroethane	107-06-2	0.0025		ND
1,1-Dichloroethene	75-35-4	0.0025		ND
cis-1,2-Dichloroethene	156-59-2	0.0025		ND
trans-1,2-Dichloroethene	156-60-5	0.0025		ND
1,2-Dichloropropane	78-87-5	0.0025		ND
1,3-Dichloropropane	142-28-9	0.0025		ND
2,2-Dichloropropane	594-20-7	0.0025		ND
1,1-Dichloropropene	563-58-6	0.0025		ND

Continued from previous Page

Analyte	CAS NO.	Detection Limit mg/kg	Results	
			Lab ID	17672-BLK
			Sample ID	BLANK
Ethylbenzene	100-41-4	0.0025	ND	
Hexachlorobutadiene	87-68-3	0.0025	ND	
Isopropylbenzene	98-82-8	0.0025	ND	
p-Isopropyltoluene	99-87-6	0.0025	ND	
Methylene Chloride	75-09-2	0.0025	ND	
Naphthalene	91-20-3	0.0025	ND	
n-Propylbenzene	103-65-1	0.0025	ND	
Styrene	100-42-5	0.0025	ND	
1,1,1,2-Tetrachloroethane	630-20-6	0.0025	ND	
1,1,2,2-Tetrachloroethane	79-34-5	0.0025	ND	
Tetrachloroethene	127-18-4	0.0025	ND	
Toluene	108-88-3	0.0025	ND	
1,2,3-Trichlorobenzene	87-61-6	0.0025	ND	
1,2,4-Trichlorobenzene	120-82-1	0.0025	ND	
1,1,1-Trichloroethane	71-55-6	0.0025	ND	
1,1,2-Trichloroethane	79-00-5	0.0025	ND	
Trichloroethene	79-01-6	0.0025	ND	
Trichlorofluoromethane	75-69-4	0.0025	ND	
1,2,3-Trichloropropane	96-18-4	0.0025	ND	
1,2,4-Trimethylbenzene	95-63-6	0.0025	ND	
1,3,5-Trimethylbenzene	108-67-8	0.0025	ND	
Vinyl Chloride	75-01-4	0.0025	ND	
o -Xylene	95-47-6	0.0025	ND	
m,p-Xylenes	1330-20-7	0.0025	ND	
cis-1,3-Dichloropropene	10061-01-5	0.0025	ND	
trans-1,3-Dichloropropene	1006-02-6	0.0025	ND	
Surrogate			% Recovery	QC Limits
Dibrofluoromethane	1868-53-7	0.0025	96.6	70-130
Toluene d-8	2037-26-5	0.0025	95.6	70-130
4-Bromofluorobenzene	460-00-4	0.0025	83.2	70-130

ND: Not Detected

H. Khosh Khoo, Ph.D.
Laboratory Director/President

DELTA
ENVIRONMENTAL LABORATORIES, Ltd

Quality Control Report

Client:
City of San Jose
200 E. Santa Clara Street, 10th
San Jose, CA 95113

Client Project ID:
Tamien Project

Ref.	Q17672_400s
Method:	EPA 8260/8015
Sampled:	4/7/2010
Received:	4/7/2010
Analyzed:	4/12-15/2010
Analyst:	LW
Reported:	4/15/2010
Matrix:	Solid
Unit	mg/kg

Sample Spiked: Blank

Quality Control Report of Analysis for BTEX & TPH

Analyte	Detection Limit mg/kg	Sample Result mg/kg	Spike Added mg/kg	% BS/MS Recovery	% BS/MSD Recovery	Relative % Difference RPD	Method
Benzene	0.0025	ND	0.02	110	113	2.7	8260 B
Toluene	0.0050	ND	0.02	113	116	2.6	8260 B
Ethylbenzene	0.0025	ND	0.02	112	117	4.4	8260 B
m,p-Xylene	0.005	ND	0.04	114	115	0.9	8260 B
o-Xylene	0.0025	ND	0.02	112	117	4.4	8260 B
TPH-G	0.25	ND	400	99.7	101	1.3	8015M
TPH-D	2.5	ND	50	93.3	98.8	5.7	8015M

H.Khosh Khoo, PhD.,
Laboratory Director/President

Client:
City of San Jose
200 E. Santa Clara Street, 10th floor
San Jose, CA 95113

Attention: Geoff Blair

Client Project ID:
Tamien Project

Ref: Q17672-herb

Method: EPA 8151
Analyzed: 04/16/10
Reported: 04/16/10
Analyst: MAI
Matrix: Soild
Units: mg/kg

Quality Control Results of Analysis for Herbicide
EPA8151

Analyte	Reporting Limit mg/kg	Unit	Sample Results	Spike Added mg/kg	LCS1 % Recovery	LCS2 % Recovery	% Recovery Limits	Relative % Difference	RPD Limit
2,4,D(Dichlorophenoxyacetic acid)	0.05	mg/kg	ND	0.10	94.1	101	60-140	7.07	30
2,4-DB	0.05	mg/kg	ND	0.10	99.5	99.8	60-140	0.30	30
Dalapon	0.05	mg/kg	ND	0.10	91.8	100	60-140	8.55	30
Dicamba	0.05	mg/kg	ND	0.10	90.5	96.7	60-140	6.62	30
2,4,5-TP(silvex)	0.05	mg/kg	ND	0.10	99.2	105	60-140	5.68	30
SS	%		-	0.10	92.0	102	60-140	10.31	30

ND: Not Detected
RPD: Relative Percent Difference
LCS/LCSD: Laboratory Control Sample; Blank Spike /BS

H. Khoshkhoo, Ph.D.,
Laboratotory Director/ President

Quality Control Report

Client:
City of San Jose
200 E. Santa Clara Street, 10th floor
San Jose, CA 95113

Ref. Q17672_100s

Matrix: Soil
Unit: mg/kg
Analyzed: 4/13/2010
Reported 4/14/2010

Attention: Geoff Blair

Sample Spiked: Blank

Quality Conrol Report of Analysis for VOC

Method : EPA8260 B

Analyte	Spike Added mg/kg	Spike Recovery: Blank/Matrix Spike %Recovery	Spike Recovery: Blank/Matrix Spike Dup % Recovery	Relative % Difference RPD
1,1-Dichloroethene	0.02	88.9	91.0	2.3
Trichloroethene	0.02	111	112	0.9
Benzene	0.02	110	113	2.7
Toluene	0.02	113	116	2.6
Chlorobenzene	0.02	111	115	3.5
Surrogates				
Dibromofluoromethane	0.02	96.4	93.3	3.3
Toluene-d8	0.02	101	102	1.0
p-Bromofluorobenzene	0.02	99.9	97.6	2.3

H.Khosh Khoo, PhD.,
Laboratory Director/President

Quality Control Report

Client:
City of San Jose
200 E Santa Clara St
San Jose, CA 95113

Ref.	Q17672_200s
Method:	8270 C
Sampled:	4/7/2010
Received:	4/7/2010
Matrix	Solid
Analyzed	4/14/2010
Reported:	4/14/2010
Unit	mg/Kg

Sample Spiked: Blank

Semi-Volatile Organic Compounds
EPA 8270 C
Laboratory Control Sample Recovery

Analyte	Spike Added mg/Kg	Percent Recovery	Percent Recovery	Relative Percent Difference	QC Limit Percent Recovery
Phenol	2.5	68.3	66.2	3.1	12-89
2-Chlorophenol	2.5	68.5	67.4	1.6	12-123
1,4-Dichlorobenze	2.5	70.3	70.5	0.3	36-110
N-Nitroso-di-n-propylamir	2.5	63.7	63.2	0.8	41-130
1,2,4-Trichlorobenzene	2.5	71.3	73.3	2.8	39-120
4-chloro-3-methylphenol	2.5	66.8	64.8	3.0	20-110
Acenaphtene	3.5	82.4	81.3	1.3	46-135
4-Nitrophenol	4.5	47.6	42.1	12.3	10-130
2,4-Dinitrotoluene	2.5	62.8	59.3	5.7	24-115
Pentachlorophenol	2.5	46.9	44.4	5.5	9-190
Pyrene	2.5	43.8	51.7	16.5	26-140
Surrogate(s)					
2-Fluorophenol	10	75.5	79.3	4.9	25-100
Phenol -d5	10	72.4	70.2	3.1	10-110
Nitrobenzene -d5	5.0	72.9	75.3	3.2	35-114
2-Fluorobiphenyl	5.0	75.6	76.1	0.7	43-116
2,4,6 tribromophenol	10	68.7	69.1	0.6	10-123
p-Terphenyl-d14	5.0	53.1	61.9	15.3	33-141

H.Khosh Khoo, PhD.,
Laboratory Director/President

Quality Control Report

Client:
City of San Jose
200 E. Santa Clara Street, 10th floor
San Jose, CA 95113

Ref.:	Q17672_800s
Method	EPA 608
Sampled:	4/7/2010
Received:	4/7/2010
Matrix:	solid
Analyzed:	4/13/2010
Analyst	LW
Reported:	4/15/2010
Units:	ug/kg

Sample Spiked : Blank

Quality Control Report for Pesticides and PCB's
EPA 608

Analyte	Reporting Limit ug/kg	Sample Result ug/kg	Spike Added ug/kg	LCS % Recovery	LCSD % Recovery	Relative % Difference RPD
PCB 1260	20	ND	200	87.7	93.6	6.5
Heptachlor	1.00	ND	0.2	100	102	2.0
Aldrin	1.00	ND	0.2	91	93	2.1
Heptachlor epoxide	1.00	ND	0.2	102	104	1.9
DDE	1.00	ND	0.2	96	101	5.1
4,4' DDT	1.00	ND	0.2	91	101	10.1
Surrogate	%	ND	0.4	91	91	0.7

ND: Not Detected

Delta Environmental Laboratories

H.Khosh Khoo, PhD.,
Laboratory Director/President

Client:
City of San Jose
200 E. Santa Clara St., 10th Floor
San Jose, Ca 95113

Quality Control Report

Ref. Q17672_O&G
Sampled: 04/07/10
Received: 04/07/10
Analyzed: 04/13/10
Reported: 04/15/10
Analyst: ZT
Matrix: solid

Sample spiked: Blank

Analyte	Detection Limit mg/kg	Method	Spike Added mg/kg	MS Spike Recovery	MSD Spike Recovery	Relative Percent Difference
Oil and Grease	25.0	EPA 1664	2000	93.0	92.1	1.0

H. Khoshkhoo PhD.,
Laboratory Director/President

Delta Environmental Laboratories

Chain of Custody (COC) Form

685 Stone Road #11 & 12
Benicia, Ca, 94510
(707(747-6081, 800-747-6082 FAX (707) 747-6082

Results to: Lucas Blair
Client Name: City of San Jose
200 E. Santa Clara St, 10th Floor
San Jose, CA 95113
(408)
Telephone: 975-2571 Fax: (408) 292-6213
SAMPLER (signature): [signature] (print): Carmen Goodell
Turnaround: 1 week (5 days)

Project Name:

LAB ID 17672
Ref #

Analysis Requested

#	Sample ID or Location	Date	Time	Matrix	Cont. Type	Preservative	No. of containers	pH	Temperature	TPH-G/BTEX	TPHd/MO	VOCs	SVOCs	CAM 17 Metals	PCBs oil & Grease	Herbicides	Pesticides/PCBs/2	Organochlorine	Comments:
1	B-3-24	4/7/10	0905	S	Liner														HOLD
2	B-4-2		0940																HOLD
3	B-4-5		0947							X	X	X	X	X					
4	B-4-10		0952																HOLD
5	B-5-2		1328							X	X	X		X	X	X	X	X	
6	B-5-5		1344							X									HOLD
7	B-5-10		1410																HOLD
8	B-6-2		1451							X	X	X		X	X	X	X	X	
9	B-6-5		1456																HOLD
10	B-1-GW		1105	GW						X	X	X							

Relinquished by:	[signature]	Date 4/7/10	1) Have all samples received been stored on ice? Y
Received By:	[signature]	Date 4/7/10	2) Did any VOA samples received have any head space? N
Relinquished by:	[signature]	Date 4/7/10	3) Were samples in appropriate containers and packaged properly? Y
Received By:	[signature]	Date 4/7/10	4) Were samples receicved in good condition? Y

**CONTAINER TYPES: AL = Amber Liter; AHL = 500 ml Amber; PT = Pint (Plastic); QT = Quart (Plastic); HG = Half Gallon (Plastic); SJ = Soil Jar; B4 = 4oz. BACT; BT = Brass Tube; VOA = 40mL VOA; OTC - Other Type Container

*MATRIX: AQ = Aqueous Nondrinking Water, Digested Metals; FE = Low R.L.s, Aqueous Nondrinking Water, Digested Metals; DW = Drinking Water; SL = Soil Sludge, Solid ; FP = Free Product

* PRESERVATIVE: 1=HNO3; 2=HCl; 3=H2SO4; 4=Na2S2O3; 5=NAOH; 6=NH4Cl; 7=ZnAce

CORNERSTONE EARTH GROUP

Type of Services	**Phase I Environmental Site Assessment**
Location	**Rocketship Public School – Tamien** **Portion of APN 434-13-032** **San Jose, California**
Client	**Launchpad Development Company**
Client Address	**420 Florence Street, Suite 300** **Palo Alto, California 94301**
Project Number	**465-4-2**
Date	**August 13, 2012**

Prepared by **Kurt M. Soenen, P.E.**
Principal Engineer

Ron L. Helm, C.E.G.
Senior Principal Geologist
Quality Assurance Reviewer

REGISTERED PROFESSIONAL ENGINEER
KURT M. SOENEN
63615
EXP. 9/30/12
CIVIL
STATE OF CALIFORNIA

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APPENDIX G – ENVIRONMENTAL QUESTIONNAIRE

Type of Services	**Phase I Environmental Site Assessment**
Location	**Rocketship Public School – Tamien** **San Jose, California**

SECTION 1: INTRODUCTION

This report presents the results of the Phase I Environmental Site Assessment (ESA) performed at the proposed Rocketship Public School – Tamien located in San Jose, California (Site) as shown on Figures 1 and 2. This work was performed for Launchpad Development Company (Launchpad) in accordance with our June 15, 2012 Agreement (Agreement).

Cornerstone Earth Group, Inc. (Cornerstone) understands that Launchpad is considering purchasing the Site for redevelopment with a new charter school campus. The proposed redevelopment will include a two-story classroom and multipurpose building, at-grade parking and drive aisles, a lunch area including a shaded structure, and an asphalt play area. Adjacent and southeast of the Site, the City of San Jose (City) intends to construct a joint-use athletic field.

1.1 PURPOSE

1.1.1 Phase I ESA

The scope of work presented in the Agreement was performed in general accordance with ASTM E 1527-05 titled, "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" (ASTM Standard). The ASTM Standard is in general compliance with the Environmental Protection Agency (EPA) rule titled, "Standards and Practices for All Appropriate Inquiries; Final Rule" (AAI Rule). The purpose of this Phase I ESA is to strive to identify, to the extent feasible pursuant to the scope of work presented in the Agreement, Recognized Environmental Conditions at the Site.

As defined by ASTM E 1527-05, the term Recognized Environmental Condition means the presence or likely presence of hazardous substances or petroleum products on a property under conditions that indicate an existing release, past release, or a material threat of a release of hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water on the property.

1.1.2 California General Education Code Provisions

Education Code Section 17521 and the California Code of Regulations (CCR), Title 5, sections 14001 through 14002, outline the powers and duties of the California Department of Education regarding school sites and the construction of school buildings. School districts seeking state funding must comply with the Education Code and Title 5 sections cited above. Site approval

from the California Department of Education must be granted before the State Allocation Board will apportion funds. Districts using local funds are encouraged to seek the Departments approval for the benefits that such outside, objective reviews provide to the school district and the community.

As part of an evaluation of the Site as a potential school, Cornerstone was requested to assess the environmental hazards associated with nearby power lines, railroad tracks, aboveground storage tanks, hazardous pipelines, high volume water pipes, traffic corridors, and air/hazardous facilities. These hazards are applicable to Kindergarten through grade 12 public schools as noted in certain sections of Title 5 California Code of Regulations.

1.2 SCOPE OF WORK

As presented in our Agreement, the scope of work performed for this Phase I ESA included the following:

- One reconnaissance of the Site to note readily observable indications of significant hazardous materials releases to structures, soil or ground water.
- Drive-by observation of adjoining properties to note readily apparent hazardous materials activities that have or could significantly impact the Site.
- Acquisition and review of a regulatory agency database report of public records for the general area of the Site to evaluate potential impacts to the Site from reported contamination incidents at nearby facilities.
- Review of readily available information on file at selected governmental agencies to help evaluate past and current Site use and hazardous materials management practices.
- Review of readily available maps and aerial photographs to help evaluate past and current Site uses.
- Preparation of a written report summarizing our findings and recommendations.

The limitations for the Phase I ESA are presented in Section 10; the terms and conditions of our Agreement are presented in Appendix A.

1.3 ASSUMPTIONS

In preparing this Phase I ESA, Cornerstone assumed that all information received from interviewed parties is true and accurate. In addition, we assumed that all records obtained by other parties, such as regulatory agency databases, maps, related documents and environmental reports prepared by others are accurate and complete. We also assumed that the boundaries of the Site, based on information provided by Launchpad, are as shown on Figure 2. We have not independently verified the accuracy or completeness of any data received.

1.4 ENVIRONMENTAL PROFESSIONAL

This Phase I ESA was performed by Kurt M. Soenen, P.E. Ron L. Helm, C.E.G. performed the quality assurance review. These environmental professionals meet the ASTM E 1527-05 qualifications.

SECTION 2: SITE DESCRIPTION

This section describes the Site as of the date of this Phase I ESA. The location of the Site is shown on Figures 1 and 2. Tables 1 through 3 summarize general characteristics of the Site and adjoining properties. The Site is described in more detail in Section 7, based on our on-Site observations.

2.1 LOCATION AND OWNERSHIP

Table 1 describes the physical location, and ownership of the property, based on information provided by Launchpad.

Table 1. Location and Ownership

Assessor's Parcel No. (APN)	Portion of 434-13-032
Reported Address/Location [1]	1141, 1145, 1147, 1193, 1195,1203, and 1209 Lick Avenue 448 Goodyear Street
Owner	City of San Jose
Approximate Lot Size of Site	1.4 acres
Approximate Building Size [1]	Site is vacant land; however, on-Site structures were demolished in 1989.
Construction Date [1]	Former on-Site structures were constructed beginning in the 1920's to 1930's.

[1] Based on information obtained from our review of historical aerial photographs and/or Sanborn Maps as discussed in Section 6.0

2.2 CURRENT/PROPOSED USE OF THE PROPERTY

The current and proposed uses of the Site are summarized in Table 2.

Table 2. Current and Proposed Uses

Current Use	Undeveloped land
Proposed Use	Public elementary charter school

2.3 SITE SETTING AND ADJOINING SITE USE

Land use in the general Site vicinity appears to be mixed residential and commercial use. Based on our Site vicinity reconnaissance, adjoining Site uses are summarized below in Table 3.

Table 3. Adjoining Site Uses

Northeast	Residential
Southeast	Vacant land
Southwest	The Southern Pacific Railroad with Highway 87 beyond
Northwest	Residential neighborhood and HGC Imports Inc. (beverage distributor)

SECTION 3: USER PROVIDED INFORMATION

The ASTM standard defines the User as the party seeking to use a Phase I ESA to evaluate the presence of Recognized Environmental Conditions associated with a property. For the purpose of this Phase I ESA, the User is Launchpad.

3.1 CHAIN OF TITLE

A chain-of-title was not provided for our review.

3.2 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

No information regarding environmental liens or activity and use limitations (AULs) was provided for our review.

3.3 SPECIALIZED KNOWLEDGE AND/OR COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

The ASTM Standard requires that if the User is aware of any specialized knowledge and/or commonly known or reasonably ascertainable information within the local community about the Site that is material to Recognized Environmental Conditions, such as environmental liens, a significantly lower purchase price due to the property being affected by hazardous materials, or other conditions that are material to Recognized Environmental Conditions in connection with the Site, it is the User's responsibility to communicate such information to the environmental professional. Based on information provided by or discussions with Launchpad, we understand that Launchpad does not have such specialized knowledge and/or commonly known or reasonably ascertainable information regarding the Site.

3.4 DOCUMENTS PROVIDED BY LAUNCHPAD

To help evaluate the presence of Recognized Environmental Conditions at the Site, Cornerstone reviewed and relied upon the following document provided by Launchpad. Please note that Cornerstone cannot be liable for the accuracy of the information presented in these documents. Significant information presented in these documents is summarized below. Copies of the provided documents is included in Appendix B; please review them for a more complete analyses.

- City of San Jose Environmental Services, 2010. *Phase I Environmental Site Assessment, APN 434-13-032 (partial), San Jose, CA,* dated February 5, 2010.

- City of San Jose Environmental Services, 2010. *Limited Phase II Environmental Site Investigation, Proposed Tamien Park Site, APN 434-13-032, San Jose, California,* dated April 23, 2010.

3.4.1 February 2010 Phase I ESA

The Phase I ESA was prepared for an approximate 3.5-acre portion of APN 434-13-032 (for discussion purposes, the City's Phase I study area is referred to as the "Property"). The Property included the Site and an adjacent off-Site area proposed for a future athletic field. The City prepared the Phase I ESA prior to acquiring the Property from the Valley Transportation Authority (VTA).

The Phase I ESA indicated that a cannery formerly occupied all of APN 434-13-032 (hereinafter referred to as "Parcel") from approximately 1919 to 1983. Historical addresses associated with the City's Property reportedly included 1141 to 1193 Lick Avenue (odd-numbered addresses) and 448 Goodyear Street. A rail spur was located in the western portion of the Parcel and extended across the Site. The report indicates that although "the bulk of cannery operations were located to the south of the [Property], numerous warehouses and other cannery structures were located on the Property, including a 500-gallon gasoline underground storage tank (UST)." Figure 3 presents a 1974 aerial photograph showing the former cannery development.

After the cannery closed, the buildings on-Property reportedly were occupied by several commercial and industrial tenants (e.g. PDQ Anodizing, Wood Classics, Summers Kevin Tire Mounting, Bonner Anodize, Oddball Tire Warehouse, Almaden Lumber Company) until purchased by the VTA in 1988. It should be noted that these tenants likely occupied the former cannery buildings that were off-Site, as discussed in Section 4.0. The buildings were demolished in 1989 and the Property remained as vacant land. The remainder of the Parcel was later developed as a parking lot for the Tamien Train Station.

The report concluded that "with over 60 years of industrial use, there are concerns that past practices may have impacted the underlying soil and possibly groundwater. The potential exists that the cannery operations included the storage and use of hazardous materials, in addition to the already documented former underground storage tank. The former rail spur is also a concern due to historic practices of commonly applying herbicides, oils containing polychlorinated biphenyls (PCBs) and arsenic for weed control and the possibility of creosote in the rail ties."

The Phase I ESA also referenced an archaeological report prepared for the Santa Clara Valley Transportation Authority titled *Santa Clara Valley Prehistory Archaeological Investigations at CA-SCL-690, The Tamien Station Site, San Jose, California by Mark Hvlkema.* The archaeological report indicated that the cannery was first constructed in 1919 and was in existence until 1983. The report indicated that the cannery operations and number of structures grew in the 1920s to 1950s, but by the 1960s the business started to decline as the Santa Clara Valley transitioned from agricultural to high technology. The adjacent rail line was built in 1935-36, and the abovementioned railroad spur was constructed to the cannery warehouses in 1942. The document reportedly also indicated that "a significant Indian burial ground was found on the [Parcel] just south of the [Property]". Numerous bone fragments, ornaments and shells reportedly were discovered during an extensive archaeological investigation. The remains reportedly were relocated.

During building demolition activities in 1989, a 500-gallon underground storage tank (UST) reportedly containing gasoline was removed from the Property; the approximate location of the former UST is shown on Figures 2 and 3 and was located southeast of the Site. The UST was found to have leaked and was opened as a fuel leak case under the oversight of the Santa

Clara Valley Water District (Water District). The fuel leak case is discussed in more detail in Section 4.2.2 of this Phase I ESA.

3.4.2 April 2010 Phase II Investigation

In April 2010 the City contracted with AECOM to perform a subsurface investigation and evaluate soil and ground water quality at the Property. Six exploratory borings B-1 through B-6 were advanced at the Property using direct push drilling equipment. As shown on Figure 2, borings B-1 and B-5 were located on-Site.

With exception of B-2, the borings were advanced to approximate depths ranging from 10½ to 24 feet. A subsurface obstruction was encountered in boring B-2 at an approximate depth of 2 feet. Ground water reportedly was only encountered in Boring B-1 at an approximate depth of 15 feet.

One soil sample was collected from each boring from an approximate depth of 2 feet or 5 feet and was analyzed for the following organic and inorganic compounds:

- Total Petroleum Hydrocarbons as Diesel (TPHd) and Motor Oil (TPHmo)
- Total Petroleum Hydrocarbons as Gasoline (TPHg)
- Volatile Organic Compounds (VOCs) - EPA Method 8260 B
- Semi-VOCs
- California Assessment Manual (CAM) 17 Metals
- Polychlorinated Biphenyls (PCBs)
- Herbicides
- Organochlorine Pesticides
- Oil and Grease

Laboratory analyses of the soil and ground water samples revealed the following:

- Oil and grease in 1 of 6 soil samples; Boring B-6 at 2 feet with a concentration of 235 milligrams per kilogram (mg/kg).

- Chloroform was detected in 6 of 6 soil samples ranging from 0.0025 mg/kg to 0.00555 mg/kg. The residential RSL1[1] for chloroform is 0.29 mg/kg.

- With exception of the soil sample from B-2, arsenic concentrations ranged from 3.09 mg/kg to 4.64 mg/kg. The soil sample from B-2 collected from an approximate depth of 2 feet contained an arsenic concentration of 25.8 mg/kg. Typical background arsenic concentrations in San Francisco Bay Area soils range up to 20 mg/kg (Scott, 1991).

[1] The results of the soil samples were were compared to California Human Health Screening Levels (CHHSLs) established by the California Environmental Protection Agency (CalEPA, 2010). For detected chemicals for which CHHSLs have not been established, Regional Screening Levels (RSLs) established by the USEPA Region 9 (USEPA, 2012), or ESLs established by the Water Board (Water Board, 2008) were used for comparison. ESLs were used in the event that both CHHSLs and RSLs are not established. The metal results were also compared to typical background metal concentrations in San Francisco Bay Area soils (Scott, 1991). CHHSLs, RSLs, and ESLs are used to screen properties for potential human health concerns where releases of chemicals to soil have occurred. Under most circumstances, the presence of a chemical in soil below the corresponding CHHSL, RSL, or ESL can be assumed not to pose a significant risk to human health. A chemical exceeding the CHHSL, RSL, or ESL does not indicate that adverse impacts to human health are occurring or will occur but suggests that further evaluation of potential health concerns is warranted.

- Cadmium was detected in 6 of 6 soil samples ranging from 5.41 mg/kg to 7.2 mg/kg. The residential CHHSL for cadmium is 1.7 mg/kg.

- Thallium was detected in 6 of 6 soil samples at concentrations ranging from 29.4 mg/kg to 33.9 mg/kg. The residential CHHSL for thallium is 5 mg/kg.

- No other petroleum hydrocarbons, VOCs, semi-VOCs, pesticides, herbicides or PCBs were detected above laboratory reporting limits in the selected soil samples. Other metals appeared within range of typical background and/or less than their respective residential CHHSL.

- Laboratory analyses of the grab ground water sample collected from B-1 did not detect petroleum hydrocarbons and VOCs above laboratory reporting limits.

3.5 REASON FOR PERFORMING PHASE I ENVIRONMENTAL SITE ASSESSMENT

We understand that Launchpad is considering purchasing the Site for redevelopment with a new charter school campus. We performed this Phase I ESA to support Launchpad in evaluation of Recognized Environmental Conditions at the Site. This Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for Recognized Environmental Conditions at the Site.

SECTION 4: RECORDS REVIEW

4.1 STANDARD ENVIRONMENTAL RECORD SOURCES

Cornerstone contracted with a firm specializing in the computerized search of environmental regulatory databases to evaluate the likelihood of contamination incidents at and near the Site. The databases and search distances were in general accordance with the requirements of ASTM E 1527-05. A list of the database sources reviewed, a description of the sources, and a radius map showing the location of reported facilities relative to the project Site are presented in Appendix C.

Based on the information presented in the agency database report, no off-Site facilities were reported that appear likely to significantly impact ground water beneath the Site. The potential for impact was based on our interpretation of the types of incidents, the location of the reported incidents in relation to the Site and the assumed ground water flow direction.

4.2 ADDITIONAL ENVIRONMENTAL RECORD SOURCES

The following additional sources of readily ascertainable public information for the Site also were reviewed during this Phase I ESA.

4.2.1 City and County Agency File Review

Cornerstone requested available files pertaining to 1085, 1141, 1145, 1147, 1193, 1195, 1203, and 1209 Lick Avenue and 448 Goodyear Street at the Santa Clara County Department of Environmental Health (County Health). We also reviewed readily available documents on the City of San Jose's Online Permits website for the City of San Jose Planning Department (SJPD), City of San Jose Building Department (SJBD), and the City of San Jose Fire

Department (SJFD). The information reviewed at the SJBD is summarized in Table 4. A representative at County Health referred us to the County's Leaking Underground Storage Tank Local Oversight Program (LUSTOP) Public Record Document Search online database for information related to the fuel release at 1193 Lick Avenue; the information reviewed is present in Section 4.2.2.

Table 4. Selected SJBD File Review Information

Address	Date	Remarks
1193 Lick Avenue	May 11, 1942	Building permit for industrial alteration.
	May 18, 1942	Plumbing permit
	June 11, 1942	Electrical permit
	July 20, 1942	Building permit for "Boiler House"; located off-Site, as discussed below
	March 4, 1943	Building and plumbing permits for industrial alteration; obtained by San Jose Canning Company
	March 1, 1944	Building and plumbing permits for industrial alternation and office improvements
	October 9, 1944	Building permit for new warehouse for canned goods
	September 1, 1961	Building permit for warehouse addition
	October 19, 1962	Building permit for warehouse improvements
	March 6, 1964	Building permit for cooling tower; located off-Site, as discussed below
	April 30, 1964	Building permit for scale room and toilet room
	February 24, 1969	Gas permit; occupant noted at Pacific Sheet Metal Shop
	May 2, 1974	Electrical permit for Cannery
	May 19, 1975	Electrical permit for Cannery
	May 8, 1978	Electrical permit for manufacturing remodel
	June 15, 1979	Electrical permit for cannery improvements
	April 2, 1980	Building permit for Cook Room; located off-Site, as discussed below
	May 28, 1982	Electrical permit for lot improvements
1161 Lick Avenue	November 9, 1989	Building permit – presumably for demolition
1185 Lick Avenue	October 2, 1956	Building permit for warehouse improvements
1197 Lick Avenue	March 12, 2012	Fire Protection Plan Review – School Site Review
1195 Lick Avenue	October 8, 1989	Building permit – presumably for demolition
1181 Lick Avenue	November 9, 1989	Building permit – presumably for demolition
1085 Lick Avenue	July 9, 1957	Building permit for warehouse addition; owner is San Jose Canning

Other records reviewed at the LUSTOP online database included: County Health inspector notes during demolition of the cannery structures; and a facility map. The base for the facility map was dated 1968 and was referenced as the "California Canners Plant No. 2." The facility map appears to show both the general floor plan for the former cannery, and tenants that occupied the buildings after the cannery vacated (in the early 1980's).

Based on the facility map, the Site appeared occupied by the cannery buildings referred to as Warehouse No. 2 and Warehouse No. 3, a truck loading area, a cooling storage, and auto storage. Prior to demolition, Warehouse No. 2 was vacant and Warehouse No.3 was occupied by J& B Enterprises. The facility map showed the approximate location a 500 gallon gasoline underground storage tank (UST) and an 18,000 gallon fuel oil UST, both located southeast of

the Site as shown on Figure 3. The map also showed the approximate location of the cannery's Cook Room, Boiler Room and Cooling Tower that were noted in the building permits reviewed; these features are located off-Site.

Post-cannery tenants that occupied the buildings southeast of the Site included: Odd Ball Tires, "Future Market Dist", anodize business, Wood Classics, landscape business, lumber business, auto body shops, tank trailer repair, and Cooks Truck Body Manufacturing.

The County Health inspector notes from December 1989 mainly pertained to demolition activities performed southeast of the Site. The notes referenced Indian burial grounds discovered during demolition activities.

4.2.2 Former Leaking USTs

Cornerstone reviewed selected documents at the County Health's LUSTOP online database pertaining to the former fuel leak case at 1193 Lick Avenue. As noted above and shown on Figures 2 and 3, the leaking gasoline and fuel oil USTs were located approximately 50 feet and 600 feet southeast of the Site, respectively.

The closure letter for the leaking USTs indicated in 1987 a subsurface investigation was performed "near tanks, sumps, an anodizing plant, and a paint shop yard." These features appear located off-Site. The closure letter indicated that "much of the site was excavated due to the presence of an American Indian burial ground and due to subsequent construction activities."

In December 1989, the two USTs and several sumps reportedly were removed. Soil reportedly was over-excavated near the gasoline UST to final approximate excavation limits of 30 feet by 30 feet by 18 feet; a total of approximately 900 cubic yards of soil and 1,850 gallons of ground water were removed from the excavation. In June 1990, ground water monitoring wells were installed around the former gasoline UST and quarterly monitoring from up to seven monitoring wells was performed until 1997 when the case was closed by the Water District. The monitoring wells were clustered around the former gasoline UST area with exception of LA-5 that was located on-Site, in the reported down-gradient ground water flow direction from the former gasoline UST. The approximate monitoring well locations are shown on Figure 2.

Eight grab ground water samples were collected from monitoring well LA-5 between 1990 and 1993 and were analyzed for TPH-gasoline, BTEX compounds, and MTBE. With exception of low concentrations (e.g. below drinking water MCLs/ESLs) of toluene, total xylenes, and TPH-gasoline detected in two grab ground water samples, no TPH-gasoline, BTEX, or MTBE were detected in the samples above their respective laboratory reporting limit.

At the time of closure, TPH-gasoline (up to 480 µg/L) and benzene (up to 21 µg/L) concentrations were greatest in the ground water sample from former monitoring well LA-2, located near the former gasoline UST.

4.2.3 Request for Information from Other Agencies

Cornerstone also contacted the public agencies presented below to obtain readily available public information regarding hazardous pipelines, high volume water pipes (water pipe equal or greater than 12 inches diameter), and air/hazardous facilities within an approximate 1,500 foot radius of the Site.

- Bay Area Air Quality Management District (BAAQMD)
- Office of the State Fire Marshal – Pipeline Safety Division (OSFM)
- Pacific Gas and Electric (PG&E)
- Santa Clara Valley Water District (SCVWD)
- San José Water Company (SJWC)
- Kinder Morgan
- State of California Department of Conservation – Division of Oil, Gas, and Geothermal Resources (DOGGR)

Agency responses are summarized in Table 5 and selected copies of information received is included in Appendix F.

Table 5. Summary of Agency Responses

Agency Name	Remarks
BAAQMD	The BAAQMD identified 6 facilities with possible sources of hazardous air emissions within approximately ½-mile of the Site. B&M Auto Body at 1035 Pepitone Avenue and Tamien Place Investors, LLC at 1275 Lick Avenue were the only facilities that were within the approximate ¼-mile search radius. Information provided by the BAAQMD indicates air pollutants emitted at B&M Auto Body in 2011 included toluene and propylene glycol monomethyl ether. Air emissions at 1275 Lick Avenue reportedly were associated with an emergency standby generator. None of the emissions (based on 2011 emissions data) from any of the listed facilities within an approximate ½-mile radius of the Site were above toxic risk screen trigger levels established by BAAQMD.
OSFM	A representative from OSFM reported there are no pipelines jurisdictional to OSFM within an approximate 1,500 foot radius of the Site.
PG&E	A representative from PG&E reported there are no natural gas transmission lines (exceeding 80 pounds per square inch) within an approximate 1,500 foot radius of the Site.
SCVWD	A representative from the SCVWD reported there are no pipeline easements, high volume water lines, and/or storage tanks within an approximate 1,500 foot radius of the Site.
SJWC	A representative from the SJWC reported there are no pipeline easements, high volume water lines, and/or storage tanks within an approximate 1,500 foot radius of the Site.
Kinder Morgan	Kinder Morgan did not replied to our information request as of the date of this report.
DOGGR	A representative with DOGGR reported they had no hazardous materials pipeline easements or active/inactive wells within an approximate 1,500 radius of the Site.

4.2.4 National Pipeline Mapping System

Education Code Section 17213 prohibits the acquisition of a school site by a school district if the site "contains one or more pipelines, situated underground or aboveground, which carries hazardous substances, acutely hazardous materials, or hazardous wastes, unless the pipeline is a natural gas line which is used only to supply natural gas to that school or neighborhood."

Cornerstone reviewed readily available public maps at the National Pipeline Mapping System website to help identify potential hazardous pipelines within an approximate 1,500 foot radius of the Site. No such pipelines were identified based on the information reviewed.

4.2.5 Power Lines

Title 5 Section 14010(c) of the California Code of Regulations requires that proposed school facilities meet minimum setback requirements from all power transmission lines rated at 50 kilovolts (kV) and above. The property line of the Site must be at least the following distance from the boundary line of respective power line easements: 100 feet for 50 to133 kV line, 150 feet for 220 to 230 kV line, and 350 feet for 500 to 550 kV line.

Cornerstone staff contacted PG&E and requested readily available public information for transmission power lines within an approximate 350 foot radius of the Site. PG&E reported that there are no transmission lines rated at 50 kV or above, located within the 350 foot radius of the Site.

4.2.6 Petroleum Aboveground Storage Tanks (ASTs)

To help obtain additional information on the use/storage of hazardous materials in the Site vicinity, we contacted Mr. Michael Murtiff, Hazardous Materials Program Manager with the SJFD. Based on our review of an electronic spreadsheet provided by Mr. Murtiff, there were no known Aboveground Petroleum Storage Act (APSA) facilities registered with the City of San José and within an approximate 1,500-foot radius of the Site. An APSA facility stores petroleum products in 55-gallon drums or larger with an aggregate storage of at least 1,320 gallons.

4.2.7 Radon

Elevated levels of radon in indoor air are a result of radon gas moving into buildings from the underlying soil, either by diffusion or flow due to air pressure differences. The source of radon is uranium that is naturally present in rock, soil, and water. Some types of rocks are known to have uranium concentrations greater than others and, consequently, there is an increased chance of elevated radon concentrations at certain locations. Areas down-slope which received sediments and/or surface and ground water from rock units with above average uranium content also have an increased likelihood of elevated radon concentrations in soil gas. In California, bedrock that can contain above average uranium concentrations includes the Monterey formation, asphaltic rocks, marine phosphatic rocks, granitic rocks, felsic volcanic rocks, and certain metamorphic rocks.

The federal EPA has established an action level of 4 pico-Curies per liter (pCi/L), above which the EPA recommends taking action to reduce radon levels in structures. To help local, state, and federal agencies prioritize resources and implement radon-control building codes, the EPA published maps of radon hazards for each county in California (www.epa.gov/radon/states/ california.html).

The Site is located in Santa Clara County, which is designated by the EPA as Zone 2 with a moderate radon potential (average indoor radon screening level between 2 to 4 pCi/L). It is important to note that EPA has identified structures with elevated levels of radon in all three zones, and the EPA recommends Site-specific testing to evaluate radon levels at a specific location.

SECTION 5: PHYSICAL SETTING

We reviewed readily available geologic and hydrogeologic information to evaluate the likelihood that chemicals of concern released on a nearby property could pose a significant threat to the Site and/or its intended use.

5.1 RECENT USGS TOPOGRAPHIC MAP

A recent USGS 7.5 minute topographic map was reviewed to evaluate the physical setting of the Site. The Site's elevation is approximately 105 feet above mean sea level; topography in the vicinity of the Site slopes gently to the north, towards the San Francisco Bay.

5.2 SITE GEOLOGY

Cornerstone's certified engineering geologist reviewed readily available geologic maps to help evaluate the geology of the Site and surrounding area (Cornerstone, 2012). Published maps covering the region show the Site in an area underlain by Quaternary alluvial fan deposits which are subdivided further based on geomorphic relations (Crittenden, 1951; Davis and Jennings, 1954; Helley and Brabb, 1971; Rogers and Williams, 1974; Wesling and Helley, 1989; Helley et al., 1994; Wentworth et al., 1999; Knudsen et al., 2000). The Site is mapped as underlain by Holocene alluvial fan levee deposits (Qhl), and is adjacent to an area mapped as underlain by Quaternary alluvial fan deposits (Qhf). The contact between the Qhl unit and the Qhf unit trends north-northwest and is shown as located at the west property line. Based on Cornerstone's geotechnical subsurface investigation (Cornerstone, 2012), and the published characteristics for these geologic units, the Qhl unit likely overlies the Qhf unit at the Site.

The Qhl unit is described by Knudsen et al., (2000) as natural levee deposits of alluvial fans which is mapped along the downstream reaches of Alameda Creek, Coyote Creek, and Guadalupe River. The levees contain coarser material than adjoining interlevee areas, being composed of overbank materials dropped as the stream spills over its banks (Helley and others, 1979). Ground water typically is no deeper than the depth to flowing water in the stream. Wentworth et al (1998) describe the Qhl unit as "sandy and clayey silt ranging to sandy and silty clay, loose and moderately to well sorted, coarser along Coyote Creek than along the smaller streams, generally well drained; deposited adjacent to the stream courses where spreading flood waters first slow and begin to deposit suspended sediment, thereby building natural levees that stand higher than the adjacent streams and flood plains and basins."

During Cornerstone's geotechnical investigation, two conventional geotechnical borings [EB-1 (35 feet), and EB-2 (25 feet)] and two Cone Penetrometer test holes [CPT -1 (50.52 feet) and CPT-2 (67.91 feet)] were drilled at the Site (Cornerstone, 2012). Up to approximately 2½ feet of fill consisting of varying amounts of sand, gravel, and clay was observed in the borings. Below the fill, the exploratory borings revealed Holocene alluvial fan levee deposits consisting of interbedded clays and sands within the upper approximate 7 to 9 feet of the profile. The more fine grained soils located below this depth are assigned to the Qhf (alluvial fan) deposits (Qhf).

Below the depth of approximately 7 to 9 feet, the alluvial fan deposits consist of a thick section of clays to a depth of about 37 feet. Below the depth of about 38 feet CPT-01 encountered is a sequence of interbedded clays and silts. CPT-02 encountered a relatively thick bed of sand between 40 and 44 feet and then a sequence of interbedded sands, clays and silts below the depth of about 55 feet.

5.3 HYDROGEOLOGY

During installation of prior on-Site monitoring well LA-5 in July 1990, ground water was observed at an approximate depth of 15 feet; however, during the recent geotechnical investigation performed (July 2012), ground water was not observed in the geotechnical exploratory borings drilled to a maximum depth explored of approximately 35 feet.

Ground water monitoring performed at the City's Property between 1990 and 1997 indicated that ground water beneath the Site likely flows toward the northwest to northeast.

5.4 NATURALLY OCCURRING ASBESTOS

Chrysotile and amphibole asbestos occur naturally in certain geologic settings in the San Francisco Bay area most commonly in serpentinite and other ultramafic rocks. These are igneous and metamorphic rocks with a high content of magnesium and iron minerals. The most common type of asbestos is chrysotile, which is commonly found in serpentinite rock formations. When disturbed by construction, grading, quarrying, or surface mining operations, asbestos-containing dust can be generated. Exposure to asbestos can result in lung cancer, mesothelioma, and asbestosis.

Based on our review of geology maps of the regional area, the Site is not underlain by ultramafic rocks nor is it located near any known deposits of ultramafic rocks. These published geologic maps indicate the nearest mapped outcrop of ultramafic rock occurs as an elongated, northwest trending band of ultramafic rock (serpentinized harzburgite and dunite) located on a hillside approximately 1½ miles south of the Site.

SECTION 6: HISTORICAL USE INFORMATION

The objective of the review of historical use information is to develop a history of the previous uses of the Site and surrounding area in order to help identify the likelihood of past uses having led to Recognized Environmental Conditions at the property. The ASTM standard requires the identification of all obvious uses of the property from the present back to the property's first developed use, or back to 1940, whichever is earlier, using reasonably ascertainable standard historical sources.

6.1 HISTORICAL SUMMARY OF SITE

The historical sources reviewed are summarized below. The results of our review of these sources are summarized in Table 6.

- **Historical Aerial Photographs:** We reviewed aerial photographs dated 1939, 1948, 1956, 1960, 1965, 1971, 1973, 1974, 1976, 1980, 1982, 1984, 1988, 1992, 1993, 1996, 1998, 1999, and 2005 obtained from Environmental Data Resources, Inc. (EDR) of Milford, Connecticut and Pacific Aerial Survey of Oakland, California; copies of aerial photographs reviewed are presented in Appendix D.

- **Historical Topographic Maps:** We reviewed USGS 15-minute and 7.5-minute historic topographic maps dated 1899, 1953, 1961, 1968, 1973, and 1980; copies of historic topographic maps reviewed are presented in Appendix D.

- **Historical Fire Insurance Maps:** We reviewed Sanborn fire insurance maps dated 1891, 1915, 1950, 1956, and 1966 obtained from EDR; copies of Sanborn maps are presented in Appendix D.

- **Local Street Directories:** We reviewed city directories obtained from EDR that were dated from 1922 to 2006 to obtain information pertaining to past Site occupants; the city directory summary is presented in Appendix E.

Table 6. Summary of Historical Source Information for Site

Date	Source	Comment
1891	Sanborn Map	Orchards reportedly were present at the Site. Two residential structures were shown near the corner of Lick Avenue and Goodyear Street; these structures appeared off-Site.
1899	Topographic map	The Site appears to be undeveloped. The Southern Pacific Railroad is shown to the west.
1915	Sanborn Map	The Site appears undeveloped.
1935 to 1975	City Directory	San Jose Canning Co or California Canners & Growers Plant is listed at 1193 Lick Avenue.
1939	Aerial Photograph	The northwest portion of the Site appears to be row crops. A structure that presumably is the Crate Shed (shown on the 1950 Sanborn Map) is shown on the map. The Crate Shed is associated with cannery operations. The remainder of the Site appears as undeveloped land.
1948	Aerial Photograph	A rail spur appears present; the remainder of the Site appears similar to the previous photograph.
1950	Sanborn Map	The Site is shown with one residential structure and outbuilding, and the previously mentioned Crate Shed. Increased development associated with the San Jose Canning Co., Inc. southeast of the Site is present.
1953, 1961, and 1968	Topographic map	With exception of the rail spur line, no significant Site features are shown.
1956	Sanborn Map	Canned Goods Warehouse No. 3 and another canned goods warehouse southwest of the Crate Shed are shown.
1956	Aerial Photograph	The Site appears similar to the 1956 Sanborn Map except the canned goods warehouse near the Crate Shed is not shown.
1957	City Directory	San Jose Canning Co. is listed at 1085 Lick Avenue
1960	Aerial Photograph	Canned Goods Warehouse No.2 is shown.
1965 to 1982	Aerial Photographs	The Site appears similar to the previous photograph.
1966	Sanborn Maps	The Site appears similar to the previous map except the former Crate Shed is now a Cooling Shed. An overhead conveyor is connected from the Cooling Shed to another cannery building southeast of the Site.

Table 6. - continued on next page –

Table 6. Summary of Historical Source Information for Site

Date	Source	Comment
1985 and 1986	City Directory	1141 Lick Avenue Almaden Lumber Co. * 1193 Lick Avenue Bonner Anodize * Future Market Distributors * Southbay Racing * Wood Clasics * T&G Distributors * Diversified Financial Services * P D Q Anodizing * Summers Kevin Tire Mounting * 1181 Lick Avenue Odd-Ball Tire Warehouse* 1195 Lick Avenue Various cabinet shop businesses * 1245 Lick Avenue Sundance Cabinets * Perry's Auto Repair * American Tank & Trailer Repair * * These businesses appear to have occupied the former cannery buildings that were located off-Site, as noted in Section 4.2.1.
1984 and 1988	Aerial Photographs	The Site appears similar to the previous photographs.
1992	Aerial photographs	The Parcel appears as vacant land.
1993 to 2005	Aerial Photographs	The Site appears similar to the previous photograph.

6.2 HISTORICAL SUMMARY OF SITE VICINITY

Based on our review of the information described in Section 6.1, the general history of the Site vicinity is summarized below.

The 1891 and 1915 Sanborn maps show the Site to be in a sparsely developed area with some residences. In the 1930's and 1940's, the Site vicinity appears to be a mix of mostly undeveloped land, agricultural areas, and residences. A high density of residential development is apparent to the north and east. Aerial photographs from the 1950's to 1970's show an increase in mostly residential and commercial development and corresponding decrease in undeveloped land. Highway 87 southwest of the Site was constructed in the late 1980s to early 1990s.

As noted, the cannery operations and number of structures grew in the 1920s to 1950s, but by the 1960s the business reportedly started to decline as the Santa Clara Valley transitioned from agricultural to high technology. The bulk of cannery operations appeared to be located to the south of the Site.

SECTION 7: SITE RECONNAISSANCE AND DRIVE-BY SURVEY

We performed a Site reconnaissance to evaluate current Site conditions and to attempt to identify Site Recognized Environmental Conditions. The results of the reconnaissance are discussed below. Additional Site observations are summarized in Table 7 in Section 7.2. Photographs of the Site are presented in Section 7.2.1.

7.1 METHODOLOGY AND LIMITING CONDITIONS

To observe current Site conditions (readily observable environmental conditions indicative of a significant release of hazardous materials), Cornerstone staff Mr. Kurt M. Soenen, P.E. visited the Site on August 3, 2012 and was unaccompanied. Cornerstone staff only observed those areas that were reasonably accessible, safe, and did not require movement of equipment, materials or other objects.

7.2 SITE OBSERVATIONS

At the time of our visit, the Site appeared as vacant land overgrown with weeds. The Site was accessible from the Tamien Train Station parking lot and appeared to be partially used for overflow parking. Scattered small piles of broken concrete were observed, particularly near the northwest property line.

Table 7. Summary of Readily Observable Site Features

General Observation	Comments
Aboveground Storage Tanks	Not Observed
Agricultural Wells	Not Observed
Air Emission Control Systems	Not Observed
Boilers	Not Observed
Burning Areas	Not Observed
Chemical Mixing/Storage Areas	Not Observed
Clean Rooms	Not Observed
Drainage Ditches	Not Observed
Elevators	Not Observed
Emergency Generators	Not Observed
Equipment Maintenance Areas	Not Observed
Fill Placement	Observed –as noted above
Ground Water Monitoring Wells	Not Observed
High Power Transmission Lines	Not Observed
Hoods and Ducting	Not Observed
Hydraulic Lifts	Not Observed
Incinerator	Not Observed
Petroleum Pipelines or Wells	Not Observed
Ponds or Streams	Not Observed
Railroad Lines	Not Observed
Row Crops or Orchards	Not Observed
Stockpiles of Soil or Debris	Not Observed
Sumps, Clarifiers, Transformers, USTs	Not Observed
Vehicle Maintenance/Wash Areas	Not Observed
Wastewater Neutralization Systems	Not Observed

The comment "Not Observed" does not warrant that these features are not present on-Site; it only indicates that these features were not readily observed during the Site visit.

7.2.1 Site Photographs

Photograph 1. View of Site looking west

Photograph 2. View of Site looking northwest

Photograph 3. View of Site looking northeast from Highway 87.

Photograph 4. View of Site looking northeast.

7.3 DRIVE BY VICINITY SURVEY

At the time of our Site visit, Cornerstone staff also conducted a brief drive-by survey up to an approximate 1,500 foot radius of the Site to note the current land use and, to the extent readily observable, note facilities that appeared likely to use, handle, or store significant quantities of hazardous materials. The Site vicinity also was observed for readily apparent high power transmission lines, cell phone towers, pipeline easements, and railroad tracks. This reconnaissance was only made from public roadways and focused on the non-residential areas (based on our review of recent aerial photographs available through Google Earth). Site vicinity observations are summarized in Table 8.

Table 8. Summary of Readily Observable Nearby Features

General Observation	Comments
Aboveground Storage Tanks (ASTs)/Chemical Storage Facilities	B&M Auto Body at 1035 Pepitone Avenue was observed approximately 200 feet northwest of the Site. This body shop facility presumably uses and stores hazardous materials (likely small quantities). During our drive-by survey, the emergency standby generator associated with Tamien Place Investors, LLC at 1275 Lick Avenue was not observed. Auto repair businesses were observed at 385 Willow Street (Bennetts Automotive Service) and 250 Vine Street (Service Point Auto Center) These facilities were located approximately ⅛-mile or more from the Site.
Cell Phone Towers	Not Observed
High Power Transmission Lines	Not Observed. Typical of residential areas, pole mounted power distribution lines and pole mounted transformers were present in the Site vicinity. No transformers were observed on-Site.
Major Roadways	Observed - Highway 87 is located southwest of the Site.
Pipeline Easements	Not Observed*
Railroad Lines	Observed – VTA Light Rail and CalTrain tracks are located southwest of the Site.
Sources of Significant Air Emissions	Not Observed

Note: The comment "Not Observed" does not warrant that these features are not present in the search area; it only indicates that these features were not readily apparent during the drive-by survey.

* Natural gas and water distribution piping is presumably present below streets.

SECTION 8: INTERVIEWS

8.1 ENVIRONMENTAL QUESTIONNAIRE

To help obtain information on current and historical Site use and use/storage of hazardous materials on-Site, we provided an environmental questionnaire to Ms. Laura Kozel of Launchpad Development Company. She was asked to forward the questionnaire to the Site owner for completion. A copy of the completed questionnaire is attached in Appendix G. The information presented in the completed questionnaire is consistent with the information gathered during this Phase I ESA.

8.2 INTERVIEWS WITH PERSON(S) KNOWLEDGEABLE OF SITE USE

Contact information for persons knowledgeable of existing and prior Site uses was not provided to us.

8.3 INTERVIEWS WITH PREVIOUS OWNERS AND OCCUPANTS

Contact information for previous Site owners and occupants was not provided to us. Therefore, interviews with previous Site owners and occupants could not be performed.

SECTION 9: CONCLUSIONS (FINDINGS) AND RECOMMENDATIONS

Launchpad reportedly is considering purchasing the Site for redevelopment with a new charter school campus. Cornerstone performed this Phase I ESA to support Launchpad in evaluation of Recognized Environmental Conditions. Our conclusions and recommendations are summarized below.

9.1 HISTORICAL SITE USAGE

Based on the information gathered during this study, the Parcel (including the Site) was occupied by the San Jose Canning Company and/or California Canning & Growers Plant No. 2 from approximately 1919 to the early 1980's. Prior to 1919 the Site appeared as undeveloped or agricultural land.

The bulk of the former cannery operations appeared to be on the portion of the Parcel located southeast of the Site. In 1939, a Crate Shed associated with the cannery business was present at the Site. A railroad spur from the Southern Pacific Railroad was connected to the cannery warehouses in 1942; the spur traversed the Site. Cannery Warehouse No. 3 (located in the southwest portion of the Site) was constructed in the early/mid 1950's with cannery Warehouse No. 2 (located in the north portion of the Site) constructed in the late 1950's.

In the early 1980's, the cannery vacated the Site and the former cannery buildings were reportedly occupied by various commercial and industrial tenants until 1989. No information was obtained during this study regarding the post-cannery businesses that occupied the on-Site buildings. In December 1989 the buildings were demolished and the Site has been vacant land since that time.

9.2 CHEMICAL STORAGE AND USE

As noted, a cannery occupied the Parcel from approximately 1919 to the early 1980's. The bulk of cannery operations appeared to have been performed southeast of the Site where numerous warehouses and other cannery structures were located including underground fuel tanks, a boiler room, machine shop, and equipment maintenance and repair areas. The former on-Site warehouse structures appeared used for canned good storage. No information was available for review regarding potential commercial and/or industrial tenants that may had occupied the on-Site buildings after the cannery closed and vacated the Parcel.

Due to the Site's long cannery history, and lack of information regarding past tenants and operations, we recommend evaluating soil and ground water quality. We also recommend performing a geophysical survey to evaluate the potential presence of buried metallic objects.

9.3 AGRICULTURAL USE

Portions of the Site were used for agricultural purposes from approximately the early 1900's until at least the 1930's. Pesticides may have been applied to crops in the normal course of farming operations. Because of the planned school redevelopment of the Site, soil sampling and laboratory analyses should be performed to evaluate the residual pesticide concentrations, if any, and potential health risks to future occupants.

9.4 FILL

Up to approximately 2½ feet of fill soil consisting of varying amounts of sand, gravel, and clay was observed in Cornerstone's geotechnical borings drilled at the Site. Additionally, at least 5 feet of fill reportedly was observed in a prior boring drilled at the Site (former monitoring well LA-5). The source and quality of the fill material is not known. The elevated metal concentrations (e.g. exceeds residential/unrestricted use CHHSLs) detected during the City's April 2010 investigation may be attributed to the fill. We recommend evaluating the quality of the fill material prior to acquiring the Site.

9.5 NATURALLY OCCURRING ASBESTOS

Asbestos occurs naturally in ultramafic rock. When this material is disturbed in connection with construction or grading, asbestos-containing dust can be generated. Exposure to asbestos can result in health ailments. The Department of Toxic Substances Control (DTSC) 2004 interim guidance document titled *Naturally Occurring Asbestos (NOA) at School Sites* recommends soil sampling when a proposed school site is located within a 10-mile radius of an NOA geologic formation. Based on our review of geologic maps, the Site is located approximately 1.5 miles from the nearest ultramafic rock outcrop that may contain NOA.

In our opinion, there is a low probability that significant concentrations of NOA are present in native soils at the Site; however, DTSC Schools Division likely would require soil sampling if they were overseeing this project. Additionally, the source of the fill material present at the Site is not known and should be evaluated for NOA. We recommend collecting and analyzing soil samples for percent asbestos content.

9.6 RAIL LINES

A rail spur from the Southern Pacific railroad tracks that border the Site to the southwest was constructed in the 1940s. The former spur line was connected to the former cannery buildings and traversed the Site. The adjacent Southern Pacific railroad tracks are now used by the Caltrain commuter rail line. Assorted chemicals historically have been used for dust suppression and weed control along rail lines. We recommend soil sampling near the southwest Site boundary and in the area of the former rail spurs to evaluate soil quality.

9.7 IMPORTED SOIL

If the planned development will require importing soil for Site grading, we recommend documenting the source and quality of imported soil. The DTSC's October 2001 Clean Fill Advisory provides useful guidance on evaluating imported fill.

9.8 POTENTIAL ENVIRONMENTAL CONCERNS WITHIN THE SITE VICINITY

9.8.1 Railroad Tracks

The *California Code of Regulations*, *Title 5*, Section 14010(d), established the following regulations pertaining to proximity to railroads: *If the proposed site is within 1,500 feet of a railroad track easement, a safety study shall be done by a competent professional trained in assessing cargo manifests, frequency, speed, and schedule of railroad traffic, grade, curves, type and condition of track, need for sound or safety barriers, need for pedestrian and vehicle safeguards at railroad crossing, presence of high pressure gas lines near the tracks that could*

rupture in the event of a derailment, preparation of an evacuation plan. In addition to the analysis, possible and reasonable mitigation measures must be identified.

The Site is located adjacent to the Southern Pacific railroad tracks that are used by CalTrain.

9.8.2 Tanks, Pipelines and Facilities that Handle Hazardous Materials

The California Code of Regulations, Title 5, Section 14010(h) indicates that a proposed school "*shall not be located near an above-ground water or fuel storage tank or within 1,500 feet of the easement of an above ground or underground pipeline that can pose a safety hazard as determined by a risk analysis study, conducted by a competent professional, which may include certification from a local public utility commission."* No nearby hazardous substance pipelines were identified during this study.

As noted in Sections 4.2.3 and 7.3, B&M Auto Body at 1035 Pepitone Avenue (located approximately 200 feet northwest of the Site) uses and/or stores hazardous materials and has hazardous air emissions. This facility was not identified by the BAAQMD as having hazardous air emissions in 2011 that exceeded toxic risk screen trigger levels established by BAAQMD. However, due to the proximity of this facility to the proposed school Site, consideration should be given to performing a human health risk assessment.

Note that two auto repair businesses were observed in the Site vicinity (generally at a distance of a ⅛-mile or more). The auto repair businesses would be expected to store hazardous materials in relatively small quantities; thus, the potential for these facilities to pose a significant threat to Site occupants appears low.

9.8.3 Water Pipelines and Storage Tanks

CDE requires that high-volume water lines (defined as greater than or equal to 12 inches diameter) and tanks be evaluated for potential flooding and subterranean erosion concerns at proposed school facilities. A large leak or rupture of a high-volume water line or tank will release a large quantity of water in a short time that could potentially flood adjacent areas in its drainage zone, which may involve a school campus. No such water lines or aboveground water storage tanks were reported within an approximate 1,500 radius of the Site.

9.8.4 Nearby Spill Incidents

Based on the information obtained during this study, no off-Site hazardous material spill incidents have been reported in the Site vicinity that would be likely to significantly impact soil or ground water at the Site.

It should be noted that a former leaking 500 gallon gasoline UST was located approximately 100 feet southeast of the Site and was the subject of environmental investigation and remediation activities under the regulatory oversight of the Water District. Six ground water monitoring wells were installed near the former UST location and one monitoring well was installed on-Site, in the approximate down-gradient ground water flow direction. Eight grab ground water sample were collected from the on-Site monitoring well between 1990 and 1993 and with exception of low concentrations (e.g. below drinking water MCLs/ESLs) of toluene, total xylenes, and TPH-gasoline detected in two grab ground water samples, no petroleum hydrocarbons were detected in the samples above their respective laboratory reporting limit. In September 1997, the Water District closed the fuel leak case and no further work was required. At the time of

closure, the greatest petroleum hydrocarbon concentrations in ground water were detected in wells closest to the former UST; TPH-gasoline was detected up to 480 µg/L and benzene was detected up to 21 µg/L.

Based on the information reviewed for the closed fuel leak case, the extent of impact appears limited to the former UST area and does not appear to have significantly impacted soil and ground water quality beneath the Site; however, given the Site's planned future use as a public school, we recommend soil, soil vapor, and/or ground water sampling to evaluate baseline conditions.

Additionally, we understand the City plans to construct a joint-use athletic field adjacent and southeast of the Site. Prior soil sampling in this area revealed heavy metal concentrations in shallow soil that exceeded unrestricted use environmental screening levels. Prior to Site acquisition, we recommend contacting the City to better understand their redevelopment plans for the athletic field (e.g. schedule) and if further investigation and/or remediation will be performed prior to redevelopment.

9.8.5 Power Transmission Lines

Title 5 Section 14010(c) of the California Code of Regulations requires that proposed school facilities meet minimum setback requirements (ranging from 100 to 350 feet) from all power transmission lines rated at 50 kilovolts (kV) and above. No such power transmission lines were identified within 350 feet of the Site.

9.8.6 Proximity to Major Roadways and Noise

The California Code of Regulations, Title 5, Section 14010(e) indicates that a proposed "shall not be adjacent to a road or freeway that any site-related traffic and sound level studies have determined will have safety problems or sound levels which adversely affect the educational program."

Highway 87 was constructed in the late 1980s to early 1990s and is located approximately 150 feet southwest of the Site. We recommend a safety study be performed to evaluate potential noise concerns associated with the nearby highway, and adjacent rail lines. We also recommend performing a human health risk assessment to evaluate potential impacts to future Site users associated vehicle emissions from the adjacent highway. A Heating, Ventilation, and Air Conditioning (HVAC) specialist should also be contacted to evaluate potential filtration systems for the planned school buildings, based on the planned school's proximity to the highway.

9.9 ARCHAELOGICAL FINDINGS

Based on information obtained during this study, portions of the Parcel (potentially including the Site) reportedly were Indian burial grounds. The Phase I ESA prepared by the City referenced an archaeological report prepared for the Santa Clara Valley Transportation Authority titled *Santa Clara Valley Prehistory Archaeological Investigations at CA-SCL-690, The Tamien Station Site, San Jose, California by Mark Hvlkema.* Prior to Site acquisition, we recommend obtaining this report and consulting with an archaeologist to assist Launchpad in evaluating potential liabilities associated with Site and redevelopment plans.

9.10 SITE MANAGEMENT PLAN

Based on the long industrial/commercial history of the Site, buried structures, wells, burn areas, debris, or impacted soil may be encountered during Site development activities; these materials may require special handling and disposal. To limit construction delays, we recommend that a soil management plan (SMP) be developed to establish management practices for handling these materials/structures, if encountered.

9.11 ENVIRONMENTAL ATTORNEY

Due to known Recognized Environmental Conditions at the Site, we recommend consulting with an environmental attorney regarding liabilities associated with acquiring the Site, and to help interpret the California Code of Regulations referenced above in Section 9.8.

9.12 DATA GAPS

ASTM Standard Designation E 1527-05 requires the environmental professional to comment on significant data gaps that affect our ability to identify Recognized Environmental Conditions. A data gap is a lack of or inability to obtain information required by ASTM Standard Designation E 1527-05 despite good faith efforts by the environmental professional to gather such information. A data gap by itself is not inherently significant; it only becomes significant if it raises reasonable concerns. The following data gaps were identified:

- Contact information for the former occupants and owners of the Site was not provided to us. We understand that this information is not reasonably obtainable.

- No information was available for review regarding the reported commercial/industrial tenants that occupied on the on-Site buildings in the 1980's.

9.13 DATA FAILURES

As described by ASTM Standard Designation E 1527-05, a data failure occurs when all of the standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met. Data failures are not uncommon when attempting to identify the use of a Site at five year intervals back to the first use or to 1940 (whichever is earlier). ASTM Standard Designation E 1527-05 requires the environmental professional to comment on the significance of data failures and whether the data failure affects our ability to identify Recognized Environmental Conditions. A data failure by itself is not inherently significant; it only becomes significant if it raises reasonable concerns. The following data failures were identified:

- Due to the long developed history of the Site, detailed information concerning past operations by some Site occupants was not readily available from the information sources reviewed during this study. The lack of this data can diminish our ability to identify Recognized Environmental Conditions.

9.14 RECOGNIZED ENVIRONMENTAL CONDITIONS

Cornerstone has performed a Phase I Environmental Site Assessment in general conformance with the scope and limitations of ASTM E 1527-05 of the approximate 1.4-acre Site as shown on

Figure 2 located near Lick Avenue and Goodyear Street in San Jose, California. This assessment identified the following Recognized Environmental Conditions; however, please read the entire report for an overview of the Site.

- The Site has a long commercial/industrial history and limited information was available for review concerning past Site tenants and operations.
- Portions of the Site were historically used for agricultural purposes. Residual concentrations of agricultural-related chemicals may be present in shallow soil.
- The Site is adjacent to the Southern Pacific railroad tracks, and spur lines formerly traversed the Site.
- Fill soil consisting of varying amounts of sand, gravel, and clay was observed during prior investigations performed at the Site. The source and quality of the fill material is not known.

SECTION 10: LIMITATIONS

Cornerstone performed this Phase I ESA to support Launchpad in evaluation of Recognized Environmental Conditions associated with the Site. Launchpad understands that no Phase I ESA can wholly eliminate uncertainty regarding the potential for Recognized Environmental Conditions to be present at the Site. This Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for Recognized Environmental Conditions. Launchpad understands that the extent of information obtained is based on the reasonable limits of time and budgetary constraints.

Conclusions presented in this report are based on selected, readily available information and conditions readily observed at the time of the Site visit. Phase I ESAs are inherently limited because findings are developed based on information obtained from a non-intrusive Site evaluation. Cornerstone does not accept liability for deficiencies, errors, or misstatements that have resulted from inaccuracies in the publicly available information or from interviews of persons knowledgeable of Site use. In addition, publicly available information and field observations often cannot affirm the presence of Recognized Environmental Conditions; there is a possibility that such conditions exist. If a greater degree of confidence is desired, soil, ground water and/or soil vapor samples should be collected by Cornerstone and analyzed by a state-certified laboratory to establish a more reliable assessment of environmental conditions.

Cornerstone acquired an environmental database of selected publicly available information for the general area of the Site. Cornerstone cannot verify the accuracy or completeness of the database report, nor is Cornerstone obligated to identify mistakes or insufficiencies in the information provided (ASTM E 1527-05, Section 8.1.3). Due to inadequate address information, the environmental database may have mapped several facilities inaccurately or could not map the facilities. Releases from these facilities, if nearby, could impact the Site.

Launchpad may have provided Cornerstone environmental documents prepared by others. Launchpad understands that Cornerstone reviewed and relied on the information presented in these reports and cannot be responsible for their accuracy.

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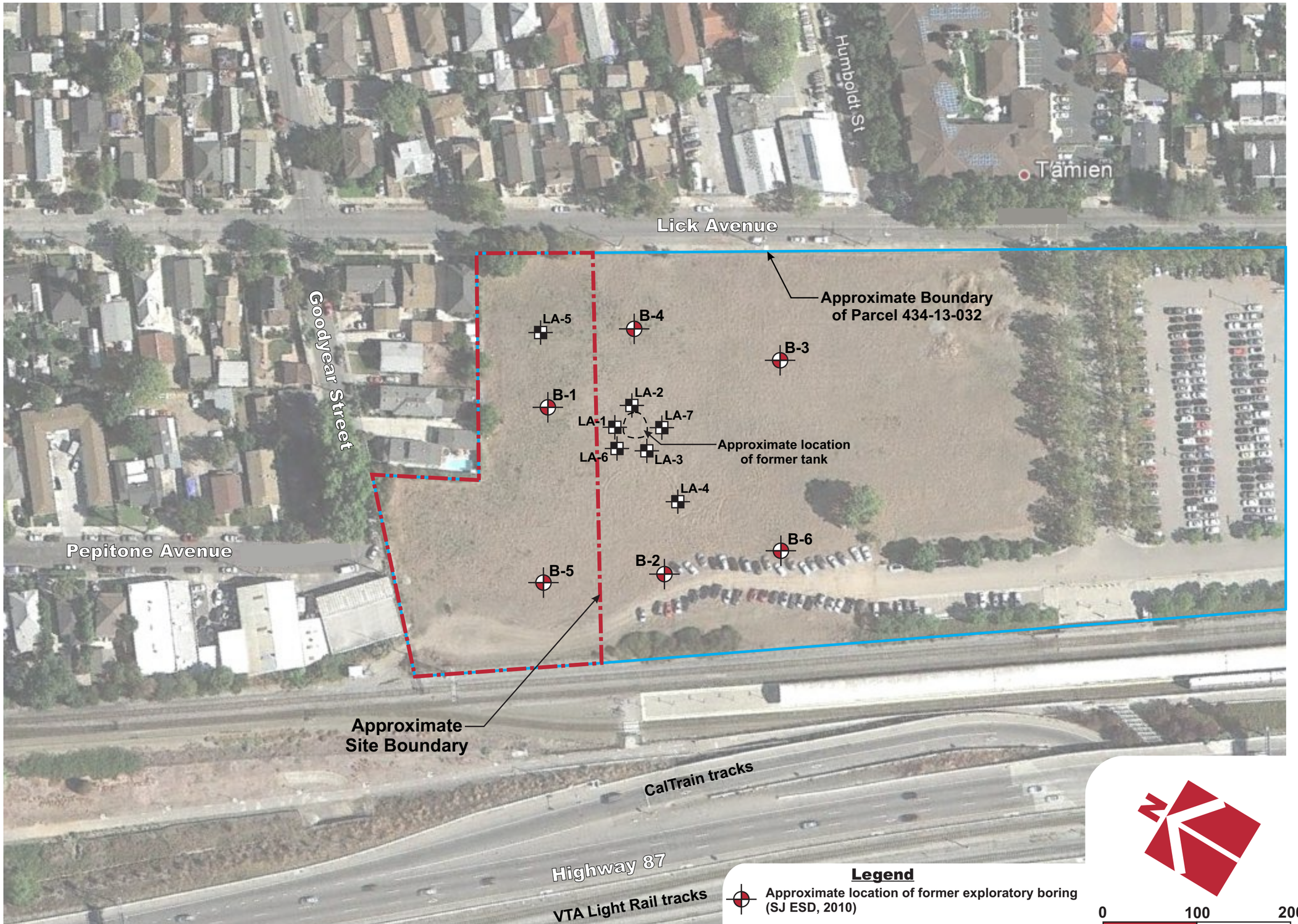
CORNERSTONE EARTH GROUP	**Vicinity Map**	Project Number: 465-4-2
	Rocketship Public School - Tamien **San Jose, CA**	Figure Number: Figure 1
		Date: June 2012 — Drawn By: RRN



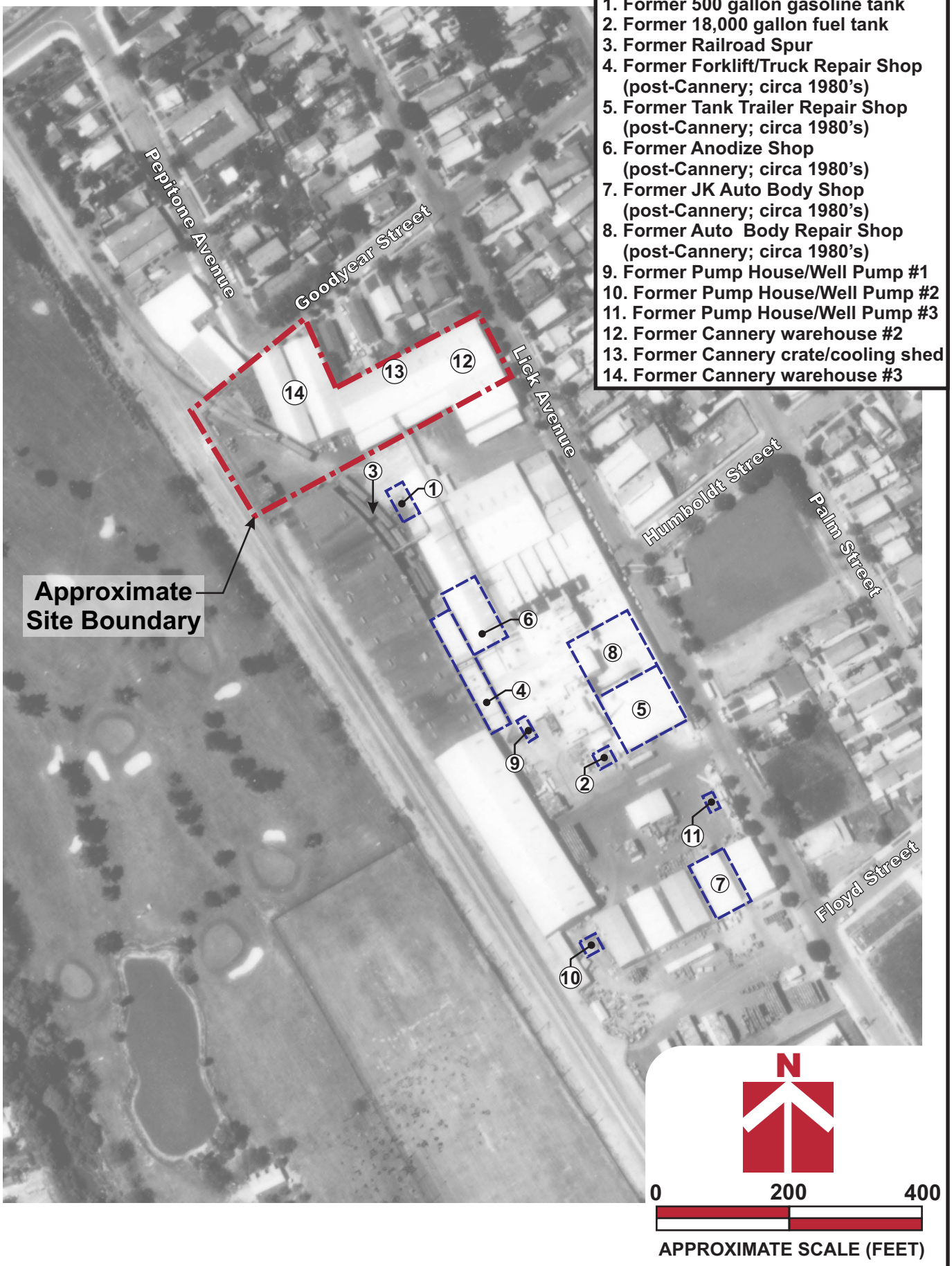
Base by Google Earth, dated 10/31/2011

Project Number	465-4-2
Figure Number	Figure 2
Date	June 2012
Drawn By	RRN

Site Plan

Rocketship Public School - Tamien
San Jose, CA

CORNERSTONE EARTH GROUP



1. Former 500 gallon gasoline tank
2. Former 18,000 gallon fuel tank
3. Former Railroad Spur
4. Former Forklift/Truck Repair Shop (post-Cannery; circa 1980's)
5. Former Tank Trailer Repair Shop (post-Cannery; circa 1980's)
6. Former Anodize Shop (post-Cannery; circa 1980's)
7. Former JK Auto Body Shop (post-Cannery; circa 1980's)
8. Former Auto Body Repair Shop (post-Cannery; circa 1980's)
9. Former Pump House/Well Pump #1
10. Former Pump House/Well Pump #2
11. Former Pump House/Well Pump #3
12. Former Cannery warehouse #2
13. Former Cannery crate/cooling shed
14. Former Cannery warehouse #3

CORNERSTONE EARTH GROUP

Site Plan - 1974 Aerial Photograph

Rocketship Public School - Tamien
San Jose, CA

Project Number	465-4-2
Figure Number	Figure 3
Date	July 2012
Drawn By	RRN

Selected Nearby Hazardous Materials Facilities

1. Arco Service Station, 545 West Alma Avenue
2. Abandoned commercial buildings, former Lee Diesel, California Car Audio and T&T Auto Body and Collision
3. Beverage distribution business
4. HGC Imports, Inc. (1045 Pepitone Avenue)
5. B&M Auto Body and AAA Glass Replacement
6. Bennetts Automotive Service, 385 Willow Street
7. Service Point Auto Center, 250 Vine Street
8. West Coast Marble and Granite, 1194 Lick Avenue
9. Almaden Welding, 231 West Alma Avenue

Base by Google Earth, dated 10/31/2011

Project Number 465-4-2

Figure Number Figure 4

Drawn By RRN

Date July 2012

Radius Map

Rocketship Public School - Tamien
San Jose, CA

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Type of Services	**Phase II Site Investigation**
Location	**Rocketship Public School – Tamien** **Portion of APN 434-13-032** **San Jose, California**
Client	**Launchpad Development Nine LLC**
Client Address	**420 Flourence Street, Suite 300** **Palo Alto, CA 94301**
Project Number	**465-4-3**
Date	**October 22, 2012**

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Type of Services	**Phase II Site Investigation**
Location	**Rocketship Public School – Tamien** **Portion of APN 434-13-032** **San Jose, California**

SECTION 1: INTRODUCTION

This report presents the results of the Phase II Site Investigation performed at the proposed Rocketship Public School – Tamien located in San Jose, California (Site) as shown on Figures 1 and 2. This work was performed for Launchpad Development Nine LLC (Launchpad) in accordance with our August 21, 2012 Agreement (Agreement). Cornerstone Earth Group, Inc. (Cornerstone) understands that Launchpad intends to purchase and redevelop the Site with a new public charter school campus.

The proposed redevelopment will include a two-story classroom and multipurpose building, at-grade parking and drive aisles, a lunch area with a shaded structure, and an asphalt play area. We understand approximately 1,700 cubic yards of soil will be off-hauled to accommodate the planned development. The City of San Jose (City) intends to construct a joint-use athletic field adjacent and southeast of the Site. The conceptual development plan is shown on Figure 3.

1.1 SITE BACKGROUND

The approximately 1.4-acre Site is located on a portion of Assessor's Parcel Number (APN) 434-13-032 (Parcel) in San Jose and is bounded by residential development to the northwest and northeast, the Southern Pacific Railroad and Highway 87 to the southwest, and vacant land to the southeast.

Based on Cornerstone's Phase I Environmental Site Assessment (ESA) dated August 13, 2012, the Site was occupied by the San Jose Canning Company from approximately 1919 to the early 1980's (Cornerstone, 2012a). Prior to 1919 the Site appeared as undeveloped and agricultural land.

The bulk of the former cannery operations appeared to be on the portion of the Parcel located southeast of the Site. In 1939, a Crate Shed associated with the cannery business was present at the Site. A railroad spur from the Southern Pacific Railroad was connected to the cannery warehouses in 1942; the spur traversed the Site. Cannery Warehouse No. 3 (located in the southwest portion of the Site) was constructed in the early/mid 1950's with Cannery Warehouse No. 2 (located on the north portion of the Site) constructed in the late 1950's.

In the early 1980's, the cannery vacated the Site and the former cannery buildings were occupied by various commercial and industrial tenants until 1989. In December 1989 the buildings were demolished, and the Site has been vacant land since that time.

The following environmental concerns were identified in our Phase I ESA. Please refer to the Phase I ESA for an overview of the Site and other findings and recommendations.

- A cannery occupied the Site from approximately 1919 to the early 1980's. The bulk of cannery operations appeared to have been performed southeast of the Site where numerous warehouses and other cannery structures were located including underground fuel tanks, a boiler room, machine shop, and equipment maintenance and repair areas. The former on-Site warehouse structures appeared used for canned good storage. No information was available for review regarding potential commercial and/or industrial tenants that may had occupied the on-Site buildings after the cannery closed and vacated the parcel.

  Due to the Site's long cannery history, and lack of information regarding past tenants and operations, we recommended evaluating soil and ground water quality. We also recommended performing a geophysical survey to evaluate the potential presence of buried metallic objects.

- Portions of the Site may have been used for agricultural purposes from approximately the early 1900's until at least the 1930's. Pesticides may have been applied to crops in the normal course of farming operations. Because of the planned school redevelopment of the Site, soil sampling and laboratory analyses was recommended to evaluate the residual pesticide concentrations, if any, and potential health risks to future occupants.

- Up to approximately 2½ feet of fill soil consisting of varying amounts of sand, gravel, and clay was observed in Cornerstone's geotechnical borings drilled at the Site (Cornerstone, 2012b). The source and quality of the fill material is not known. We recommended evaluating the quality of the fill material prior to acquiring the Site.

- Based on our review of geologic maps, since the Site is located approximately 1.5 miles from the nearest ultramafic rock outcrop that may contain naturally occurring asbestos (NOA), DTSC Schools Division will require soil sampling for asbestos. Additionally, the source of the fill material present at the Site is not known and should be evaluated for NOA. We recommended collecting and analyzing soil samples for percent asbestos content.

- A rail spur from the Southern Pacific railroad tracks that border the Site to the southwest was constructed in the 1940s. The former spur line was connected to the former cannery buildings and traversed the Site. We recommended soil sampling near the southwest Site boundary and in the area of the former rail spur to evaluate soil quality.

- B&M Auto Body at 1035 Pepitone Avenue (located approximately 200 feet northwest of the Site) uses and/or stores hazardous materials and has hazardous air emissions. This facility was not identified by the Bay Area Air Quality Management District (BAAQMD) as having hazardous air emissions in 2011 that exceeded toxic risk screen trigger levels established by BAAQMD. However, due to the proximity of this facility to the proposed school Site, we recommended consideration be given to performing a screening level human health risk assessment. Additionally, due to the Site's proximity to Highway 87

and the adjacent Caltrain tracks, we also recommended evaluating potential Site impacts associated with vehicle and locomotive emissions.

- A former leaking 500 gallon gasoline underground storage tank (UST) was located approximately 100 feet southeast of the Site and was the subject of environmental investigation and remediation activities under the regulatory oversight of the Santa Clara Valley Water District (Water District). In September 1997, the Water District closed the fuel leak case, and no further work was required. At the time of closure, the greatest petroleum hydrocarbon concentrations in ground water were detected in wells closest to the former UST; TPH-gasoline was detected up to 480 micrograms per liter (µg/L) and benzene was detected up to 21 µg/L.

  Based on the information reviewed for the closed fuel leak case, the extent of impact appears limited to the former UST area and does not appear to have significantly impacted soil and ground water quality beneath the Site; however, given the Site's planned future use as a public school, and its proximity to the former UST, we recommended soil, soil vapor, and/or ground water sampling to evaluate baseline conditions.

1.2 REGULATORY STATUS

To help address potential areas of environmental concern at the Site, Launchpad obtained regulatory agency oversight from the Santa Clara County Department of Environmental Health (County Health) under their Voluntary Cleanup Program (VCP). Cornerstone's Phase I ESA was provided to County Health for their review. The identification and selection of a single oversight agency will facilitate expedient and cost effective investigation, mitigation and reuse of the Site while protecting public health and the environment. County Health will oversee and direct all Site investigation and cleanup activities so that the standards and requirements of the State of California are addressed.

1.3 PURPOSE

The purpose of this Phase II ESA was to evaluate potential environmental concerns identified in the Phase I ESA and summarized above.

1.4 SCOPE OF WORK

As presented in our Agreement, the scope of work performed for this investigation included the following:

- Performing a geophysical survey of the Site and potholing of identified magnetic anomalies;
- Drilling and logging of ten exploratory borings;
- Drilling and installation of two multi-depth soil vapor wells;
- Collection of soil vapor and soil samples for laboratory analyses;
- Perform a Screening Level Vicinity Risk Assessment for nearby potential hazards; and

- Preparation of a report presenting our conclusions and recommendations

The limitations for this investigation are presented in Section 7.0.

SECTION 2.0: GEOPHYSICAL SURVEY

To evaluate the presence of underground ferrous objects, on August 27, 2012 California registered geophysicist James Rezowalli used a magnetometer to map the vertical magnetic gradient of the Site. The magnetic gradient is uniform throughout an area free of ferrous material. Metal objects, however, will produce magnetic anomalies with characteristic shapes and magnitudes if not masked by overlying or nearby magnetic debris. Magnetic data was collected on lines spaced approximately 10 feet apart over accessible areas. Magnetic readings were used to generate a magnetic contour map. Please refer to the geophysical magnetometer survey report included in Appendix A for further details.

Three magnetic anomalies indicative of buried metal were identified near the southeast Site boundary. A contour map of the magnetic data is presented in Figure 4.

On September 4, 2012 our field engineer directed potholing activities using a rubber tire backhoe and excavated three test pits (TP-1 to TP-3) near the magnetic anomalies. Each test pit was approximately 5 to 10 feet in length and extended to an approximate depth of 3 to 4 feet. Based on our observations, the magnetic anomalies were caused by an abandoned 2-inch steel pipe (TP-1), an approximate 4 to 5 foot piece of ½-inch rebar (TP-2), and a 1¼ steel pipe (TP-3). At TP-3, the steel pipe appeared to part of the equipment used to pressure grout former ground water monitoring well LA-5. The steel pipe was observed to be inside an approximate 2-inch diameter PVC pipe that consisted of approximately 8 feet of slotted screen and 14 feet of solid pipe.

Upon completion of potholing activities, the excavated spoils were loosely placed in the excavations and the rubber tire backhoe was used to wheel roll/compact the material.

SECTION 3.0: SOIL, SOIL VAPOR, GROUND WATER QUALITY EVALUATION

3.1 SUBSURFACE INVESTIGATION

Cornerstone performed subsurface investigation activities on August 28, 2012. Ten exploratory borings were advanced to approximate depths ranging from 5 to 25 feet using a truck-mounted direct push drill rig equipped with the dual wall sampling system. Borings SB-1 to SB-6 were advanced near the former rail spur and along the common property line with the adjacent Southern Pacific railroad tracks; boring SB-7 was advanced near the proposed school building and near the former gasoline UST located southeast of the Site; boring SB-8 was advanced near other proposed school buildings; boring SB-9 was advanced in the northwest portion of the Site within the footprint of the former cannery warehouse building; and boring SB-10 was advanced within the footprint of the former cannery warehouse structure located on the northeast portion of the Site. Borings SB-3, SB-7, SB-8, SB-9, and SB-10 were extended to approximate depths ranging from 20 to 25 feet; the remaining borings were advanced to an approximate depth of 5 feet. Approximate boring locations are shown on an October 2011 Google Earth aerial photograph included in Figure 2. The boring locations are also shown on Figure 2A that includes a 1974 aerial photograph of the former cannery development. Subsurface drilling protocols are presented in Appendix B.

The borings were sealed with neat cement grout up to the ground surface upon completion of drilling and sampling activities.

3.1.1 Subsurface Materials Observed

Soil samples were monitored with a MiniRAE 2000 Organic Vapor Meter (OVM) to record VOC vapors. OVM readings appeared typical of natural background conditions (up to 1.2 parts per million by volume) and are listed on the boring logs included in Appendix B. Additionally, no stained or discolored soil was observed in the soil cores. Subsurface materials observed in exploratory borings drilled during this investigation are described below:

- The upper approximately 2 to 5 feet consisted of fill with varying amounts of clay, silt, sand, and gravel. Due to poor sample recovery using direct push drilling methods (approximately 65 percent recovery), estimating the actual fill thickness was difficult.

- Beneath fill was native soil comprised mainly of clay with varying amounts of sand and/or gravel. The clay was observed to be moist, medium stiff to stiff, and varied from low to high plasticity. The clay extended to the maximum depth explored of approximately 25 feet.

- A permeable sand and/or gravel layer with varying amounts of clay were observed in borings SB-8, SB-9, and SB-10 at approximate depths of 13 to 15 feet, 8 to 12 feet, and 7 to 8 feet, respectively. Free ground water was not observed in these materials.

To help evaluate the depth to ground water, the five exploratory borings extended to approximate depths of 20 to 25 feet remained open for up to approximately 4 hours. No ground water was observed to have infiltrated into the open boreholes. It should be noted that no ground water was observed in the two geotechnical borings drilled to an approximate depth of 25 feet and 35 feet during Cornerstone's geotechnical investigation performed in July 2012 (Cornerstone, 2012b). Additionally, during the City's Phase II investigation performed in April 2010, ground water was not observed in 5 of 6 borings drilled to a maximum depth of 25 feet (City of San Jose Environmental Services, 2010). Ground water reportedly was only encountered in boring B-1 at an approximate depth of 15 feet. Ground water reportedly was present at a similar approximate depth in former on-Site monitoring well LA-5 that was installed in July 1990 (Cornerstone, 2012a).

3.1.2 Soil Sample Collection and Laboratory Analyses

Soil samples were collected in clean acetate liners and were submitted to a state-certified laboratory. The ends of the liners were covered in Teflon film, fitted with plastic end caps, taped, and labeled with a unique identification number. Selected samples, to be analyzed for volatile organic compound (VOC) analyses, were collected with additional sets of three, 5-gram Core N' One™ (CNO) capsules following Department of Toxic Substance Control (DTSC) guidance. The samples were placed in ice-chilled coolers and transported to a state-certified laboratory with chain of custody documentation. All sampling equipment was cleaned using a Liquinox solution prior to use at each sample point, and augers were steam cleaned after each use.

Seventeen selected fill samples and 21 native soil samples were analyzed for total petroleum hydrocarbons (TPH) in the diesel range (TPH-diesel) and motor oil range (TPH-motor oil) by EPA Test Method 8015B, California Assessment Manual (CAM) 17 metals by EPA Test Method

6010/7471, organochlorine pesticides (OCPs) by EPA Test Method 8081A, VOCs and TPH-gasoline by EPA Test Method 8260B, low level polynuclear aromatic hydrocarbons (PAHs) by EPA Test Method 8270 SIM, and/or polychlorinated biphenyls (PCBs) by EPA Test Method 8082. A silica gel cleanup was employed prior to performing the TPH-diesel and TPH-motor oil analyses to help remove naturally occurring organic compounds. Three fill samples and four native soil samples were selected and analyzed for percent asbestos content using the California Air Resources Board (CARB) 435 preparation method and transmission electron microscopy (TEM) methods. Asbestos testing was performed by Asbestos TEM Laboratories in Berkeley, California.

Table 1 in the Tables section of this report summarizes the laboratory testing program for the selected soil samples.

3.2 SOIL VAPOR QUALITY EVALUATION

To evaluate soil vapor quality in the area of proposed school structures, two multi-depth temporary soil vapor wells were installed at the Site. The borings were advanced approximately 3 to 5 feet of exploratory borings SB-7 and SB-8 and extended to an approximate depth of 10 feet.

The two multi-depth “temporary” vapor wells (SV-1/SB-7 and SV-2/SB-8) consisted of a stainless steel expendable vapor tip and screen affixed to Teflon™ tubing. The wells were constructed by first placing coarse aquarium sand into the bottom of the borehole using a tremie pipe. The stainless steel tip and tubing were then lowered into the borehole via tremie pipe. Additional sand was then placed in the borehole via tremie to create an approximately 1 foot sand pack interval around the vapor tip. Approximately 1 foot of granular bentonite (Benseal™) was placed on top of the sand pack via the tremie pipe. Bentonite “gel” was mixed utilizing a power drill and paddle (creating the consistency of porridge, but to the viscosity that would allow for flow in a ¾ inch diameter PVC tremie pipe through a funnel). The bentonite gel was then placed via tremie pipe on top of the dry granular bentonite to the bottom depth of the upper-sand pack hosting the shallower vapor tip. Prior to installing the upper-sand pack, an approximately 1 foot layer of dry granular bentonite was placed on top of the hydrated bentonite (using a tremie pipe) to help prevent settling of the upper-sand pack. The upper vapor point screen interval was constructed similar to the lower and the remainder of the borehole sealed to surface utilizing the hydrated bentonite procedures. The Teflon™ tubing was labeled with depth of placement and capped utilizing a vapor-tight Swagelok valve set in the “off “position. Well construction logs are included in Appendix B.

3.2.1 Soil Vapor Sample Collection and Laboratory Analysis

On August 30, 2012, Cornerstone’s Professional Geologist (PG) returned to the Site to perform the vapor sampling. The tubing emanating from the vapor points was affixed to a sample shut-off valve in the “off” position during the time needed to reach equilibrium (at least 48 hours). A 167 milliliters-per-minute flow regulator inclusive of particulate filter was fitted to the shut-off valve and the other end to a “T” fitting. One end of the “T” was connected to the sampling summa canister. The other end of the “T” was affixed to a digital vacuum gauge and a 1-liter summa canister utilized for purging.

A minimum 10 minute vacuum tightness test was performed on the manifold and connections by opening and closing the 1-liter purge canister valve and applying and monitoring a vacuum on the vacuum gauge. The sample shut-off valve on the downhole side of the sampling manifold

remained in the "off" position. When gauge vacuum was maintained for at least 10 minutes without any noticeable decrease (less than approximately 0.1 inches of mercury (Hg) for properly connected fittings), purging began. The downhole shut off valve was opened and three pore volumes were removed utilizing the purging summa. Purge volumes of vapor were removed and verified by the calculated pressure drop in the 1-liter summa canister utilized for purging. The purge volume was calculated based on the length and inner diameter of the sampling probe and the connected sampling tubing and equipment. Assuming the vapor probe was properly sealed, the borehole sand pack vapor space will have equilibrated with the surrounding vapors following the approximate one week equilibration period. Thus, the sand pack vapor space was not included in the purge volume calculation.

Isopropyl alcohol was utilized as a leak detection compound during sampling by applying 5 drops to cotton gauze and placing the moistened gauze near the borehole. Sampling began by opening the summa canister valve. Immediately upon opening the sampling valve, a shroud was placed over and enclosed the atmosphere of the borehole and entire sampling train including all connections.

Sampling continued until the vacuum gauge indicated approximately 5 inches of Hg remaining. A data logging photoionization detector (PID) was utilized during sampling to monitor the atmosphere inside the shroud through a bulkhead fitting. The logged data (at minimum thirty [30] second intervals) was corrected to parts per million by volume isopropyl alcohol concentrations and utilized to evaluate the integrity of the sampling train.

To confirm the isopropyl alcohol atmosphere, one confirmation sample was collected from the shroud atmosphere through the sampling port of the PID. The confirmation sample was collected using a summa connected to a flow controller within the shroud during sample collection. All field data, including equilibrium time, purge volume calculations and leak check measurements were recorded.

Four soil vapor samples collected from the temporary wells were submitted to Eurofins Air Toxics, Inc. located in Folsom, California. The samples were analyzed for TPH-gasoline (EPA Test Method TO-3), VOCs (EPA Test Method TO-15), and fixed gases oxygen, carbon dioxide, and methane. Chain of custody documentation and laboratory analytical reports are presented in Appendix C. The analytical results are discussed in Section 4.0.

3.2.2 Temporary Vapor Well Destruction

The temporary vapor wells were destroyed by removing the tubing, bentonite seal, and sand pack and filling the borehole with neat cement grout up to ground surface.

SECTION 4.0: DISCUSSION OF RESULTS

Data summary tables are provided in the Tables section of this report. Table 2 presents the summary statistics for the compounds detected in the fill and native soil samples collected from the upper approximate 5 feet and include the following fields:

- Chemical Detected
- Number of Samples Analyzed
- Number of Detects
- Frequency of Detection
- Minimum Detected

- Maximum Detected
- Number of Detects Exceeding Environmental Screening Criteria
- Location of Maximum Detected
- Average Concentration
- 95 Percent Upper Confidence Limit Concentration
- Environmental Screening Criteria

As noted above, the 95 percent upper confidence limit (UCL) was calculated for selected chemicals. Because of the uncertainty associated with estimating the true average concentration at a site, the 95 percent UCL of the arithmetic mean can be used for this variable. The 95 percent UCL provides reasonable confidence that the true site average concentration will not be underestimated. The 95 percent UCL of a mean is defined as a value that, when calculated repeatedly for randomly drawn subsets of site data, equals or exceeds the true mean 95 percent of the time. The 95 percent UCL of the mean provides a conservative estimate of the average (or mean) concentration. A chemical contaminant is not considered to be present at a level of concern if the calculated 95 percent UCL is less than its respective regulatory threshold concentration (USEPA, 2007).

Tables 3, 4, 5, and 6 present a summary of the analytical results. Analytical data sheets and chain of custody documentation are included in Appendix C.

4.1 ENVIRONMENTAL SCREENING LEVELS

The results were compared to California Human Health Screening Levels (CHHSLs) established by the California Environmental Protection Agency (CalEPA, 2010). For detected chemicals for which CHHSLs have not been established, Regional Screening Levels (RSLs) established by the USEPA Region 9 (USEPA, 2012), or Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control Board (Water Board, 2008) were used for comparison. ESLs were used in the event that both CHHSLs and RSLs are not established. The detected metal concentrations were also compared to typical natural background concentrations based on studies performed by the Lawrence Berkley National Laboratory (LBNL, 1995) and Christina M. Scott (Scott, 1991).

CHHSLs, RSLs, and ESLs are used to screen properties for potential human health concerns where releases of chemicals to soil have occurred. Under most circumstances, the presence of a chemical in soil below the corresponding CHHSL, RSL, or ESL can be assumed not to pose a significant risk to human health. A chemical exceeding the CHHSL, RSL, or ESL does not indicate that adverse impacts to human health are occurring or will occur but suggests that further evaluation of potential health concerns is warranted.

4.2 SOIL

- Ten fill samples and 19 native soil samples were analyzed for petroleum hydrocarbons. TPH-diesel was detected in 11 of 29 soil samples ranging from 1.7 milligrams per kilogram (mg/kg) to 71 mg/kg with the exception of two fill samples collected from borings SB-4 and SB-5. The fill samples collected from an approximate depth of 1 to 1½ feet from borings SB-4 and SB-5 detected TPH-diesel at 110 mg/kg and 120 mg/kg, respectively. The residential ESL for TPH-diesel is 83 mg/kg.

TPH-oil was detected in 7 of 29 soil samples ranging from 65 mg/kg to 320 mg/kg with the exception of fill samples collected from an approximate depth of 1 to 1½ feet from borings SB-4 and SB-5; TPH-oil was detected in these samples at 390 mg/kg and 640 mg/kg, respectively. The residential ESL for TPH-oil is 370 mg/kg.

- Ten fill samples and four native soil samples were analyzed for PAHs. PAHs were detected in 12 of 14 soil samples including Acenaphthylene, Anthracene, Benz(a)anthracene, Benzo(g,h,i)perylene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Flourene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, and Pyrene. With exception of Benz(a)anthracene, Benzo(a)pyrene, Benzo(b)flouranthene, Dibenz(a,h)anthracene, and Indeno(1,2,3-cd)pyrene, none of the detected PAHs exceeded their respective residential environmental screening criteria. As summarized below, the PAH compounds that exceeded residential screening criteria were detected in three fill samples collected from the upper approximate 2 feet of soil at locations SB-2 and SB-9.

  Benz(a)anthracene was detected in a fill sample collected from boring SB-9 (approximately 1 to 1½ feet) at a concentration of 0.84 mg/kg; it's residential RSL is 0.15 mg/kg.

  Benzo(a)pyrene was detected in fill samples collected from borings SB-2 (approximately 2 to 2½ feet) and SB-9 (approximately 1 to1½ feet and 2 to 2½ feet) at concentrations of 0.22 mg/kg, 1.2 mg/kg, and 0.1 mg/kg, respectively; its residential CHHSL is 0.038 mg/kg.

  Benzo(b)fluoranthene was detected in fill samples collected from borings SB-2 (approximately 2 to 2½ feet) and SB-9 (approximately 1 to ½ feet) at concentrations of 0.27 mg/kg and 1.7 mg/kg, respectively; its residential RSL is 0.15 mg/kg.

  Dibenz(a,h)anthracene was detected in fill sample collected from boring SB-9 (approximately 1 to 1½ feet) at a concentration of 0.19 mg/kg; its residential RSL is 0.015 mg/kg.

  Indeno(1,2,3-cd)pyrene was detected in the fill sample collected from boring SB-9 (approximately 1 to 1½ feet) at a concentration of 0.75 mg/kg; its residential RSL is 0.15 mg/kg.

- PCBs Aroclor 1254 and/or Aroclor 1260 were detected in 3 of 16 soil samples. Aroclor 1254 was detected in two fill samples collected from SB-5 at approximate depths of 2 to 2½ feet and 4 to 4½ feet at concentrations of 0.77 mg/kg and 1.5 mg/kg, respectively. Aroclor 1260 was detected in a fill sample collected from boring SB-9 at an approximate depth of 2 to 2½ feet at a concentration of 0.71 mg/kg. The residential RSL for Aroclor 1254 and Aroclor 1260 is 0.22 mg/kg.

- Asbestos was detected in 7 of 7 samples (three fill and four native samples) at concentrations ranging from 0.006 percent to 0.087 percent. The screening criteria recommended by DTSC for proposed school sites is 0.01 percent. Six of seven samples contained asbestos concentrations greater than 0.01 percent.

- With exception of arsenic and lead, metal concentrations detected in the 14 soil samples (11 fill samples and 3 native soil samples) appeared within the range of typical background concentrations (Scott, 1991 and LBNL, 1995) and less than their respective residential CHHSL.

  Arsenic concentrations ranged from 1.3 mg/kg to 10 mg/kg with an average concentration of 4.8 mg/kg. Note that natural background concentrations of arsenic are often well above the health-based CHHSL; however, the California Environmental Protection Agency generally does not require cleanup of metals in soil to below background levels. Bradford et.al. (1996) estimated that background arsenic concentrations in California soil types range from 0.6 mg/kg to 11 mg/kg. Scott (1991) documented background arsenic concentrations ranging up to 20 mg/kg. The California Regional Water Quality Control Board (Water Board, 2008) states that "based on an informal review of environmental reports submitted to the RWQCB, a range of 5 to 20 mg/kg is typical for much of the Bay area."

  With exception of a fill sample collected from boring SB-5, lead concentrations in the 13 samples ranged from 1.7 mg/kg to 54 mg/kg. Lead was detected in a fill sample collected from SB-5 from an approximate depth of 4 to 4½ feet at a concentration of 240 mg/kg. The residential CHHSL for lead is 80 mg/kg.

- Hexavalent chromium was not detected above its laboratory reporting limit in the three fill samples collected from the upper approximate four feet of soil.

- Ten fill samples and four native soil samples were analyzed for OCPs. OCPs were detected in 5 of 14 soil samples including alpha-Chlordane (detected in two fill samples ranging from 0.0039 mg/kg to 0.022 mg/kg), gamma-Chlordane (detected in two fill samples ranging from 0.0032 mg/kg to 0.02 mg/kg), and 4,4'-DDT (detected in five samples ranging from 0.0026 mg/kg to 0.014 mg/kg). The residential CHHSL for alpha/gamma-Chlordane and 4,4'-DDE/DDT is 0.43 mg/kg and 1.6 mg/kg, respectively. As noted, none of the detected OCPs exceeded their respective residential CHHSL.

- Three fill samples and 15 native soil samples were analyzed for VOCs and TPH-gasoline. No compounds were detected in the soil samples above their respective laboratory reporting limits.

4.3 SOIL VAPOR

- Several VOCs were detected in the soil vapor samples including Benzene, Toluene, Ethylbenzene, 1,2,4- Trimethylbenzene, 1,3,5-Trimethylbenzene, 2-Butanone (MEK), 4-Bromofluorobenzene, 4-Ethyl Toluene, Acetone, Carbon Disulfide, Chlorobenzene, Heptane, n-Propylbenzene, o-xylene, and PCE; however, no VOCs were detected above their respective residential screening criteria.

- TPH-gasoline was detected in 5 of 5 soil vapor samples ranging from 531.7 $\mu g/m^3$ to 3140.3 $\mu g/m^3$ with an average concentration of 1,398.8 $\mu g/m^3$. The residential ESL for TPH-gasoline is 10,000 $\mu g/m^3$.

- Oxygen concentrations in the soil gas samples ranged from 15 percent to 19 percent. Carbon dioxide concentrations ranged from 2.7 percent to 5.3 percent.

4.4 SOIL VAPOR DATA QUALITY

During soil vapor sample collection, the average shroud concentrations of 2-propanol measured during sampling with the datalogging PID averaged between approximately 14,500 µg/m^3 to 41,300 µg/m^3. These values were utilized to estimate the maximum possible leakage rate. 2-propanol was not detected above the laboratory detection limits in the soil vapor. Assuming the greatest laboratory reporting limit of 13 µg/m^3, the maximum leakage rate is estimated to be less than 0.01 percent.

The Active Soil Gas Investigation Advisory (DTSC, 2012) recommends that the leak check compound have a minimum detection limit of 10,000 µg/m^3 and some agencies, such as New York State Department of Environmental Conservation, allow tracer concentrations up to 10 percent of the starting concentration before considering the soil gas sample compromised (ITRC Vapor Intrusion Pathway: A Practical Guideline, January 2007). During our investigation, the sampling trains appeared sufficiently tight for representative soil vapor sample collection and no significant leakage occurred.

SECTION 5.0: SCREENING LEVEL VICINTY RISK EVALUATION

During Cornerstone's Phase I ESA, properties and land uses within an approximate quarter-mile radius of the Site were evaluated to help identify potential off-Site hazardous air emissions that could potentially impact air quality at the Site (Cornerstone, 2012a). Information obtained during Cornerstone's Phase I ESA from the BAAQMD identified B&M Auto Body located at 1035 Pepitone Avenue as a potential emission source. B&M Auto Body is located approximately 200 feet northwest of the Site. No other known facilities with a potential to have significant hazardous air emissions were identified by the BAAQMD within an approximate quarter-mile radius of the Site. A screening level risk evaluation was performed to evaluate potential Site impacts associated with this nearby facility. A copy of the risk assessment report is included in Appendix D.

Additionally, the risk evaluation considered the impact of potential long-term exposures to hazardous emissions and particulate matter generated by vehicles traveling along State Route (SR) 87. Emissions from locomotives traveling on the railroad right-of-way adjacent and west of the proposed school Site also were evaluated.

As discussed in the risk assessment report, for carcinogenic exposures, emissions from the locomotives traveling on the adjacent railroad right-of-way were estimated to be 1.5 in a million for staff and 2.7 in a million for students. The BAAQMD's recommended significance threshold value for proposed school sites is 10 in a million. Non-carcinogenic hazards were estimated to be within acceptable limits. For particulate matter, the assessment estimated that emissions generated by both the locomotives and the freeway were less than the significance thresholds. It should be noted that these risk estimates were based on conservative (i.e., health protective) assumptions and do not necessarily represent actual risks experienced by populations at or near the Site. The use of conservative assumptions will over-estimate exposure and toxicity.

Please refer directly to risk assessment report included in Appendix D for further details and conclusions and recommendations.

SECTION 6.0: CONCLUSIONS AND RECOMMENDATIONS

6.1 GENERAL SOIL QUALITY

During this investigation, near surface soil samples (from the upper approximate 5 feet of soil) were collected to evaluate fill quality and potential soil impacts near the former rail spur, near the common property line with the adjacent active railroad right-of-way, near the former off-Site UST area, and near the former on-Site cannery buildings. Additionally, since ground water was not observed in the exploratory borings, deeper soil samples were collected from borings SB-3, SB-7, SB-8, SB-9, and SB-10; these samples were collected between approximate depths of 15 to 20 feet, the approximate depth of previously reported water-bearing zone.

Laboratory analyses of the 40 soil samples collected from variable depths revealed low concentrations (below residential screening criteria) of OCPs; and no detectable concentrations above laboratory reporting limits of VOCs, TPH-gasoline, and hexavalent chromium. Metal concentrations appeared within range of typical background and/or less than residential CHHSLs with exception of one sample from boring SB-5 (located near the property line with the adjacent railroad right-of-way) that contained a lead concentration of 240 mg/kg. Lead concentrations in the other 12 soil samples ranged from 1.7 mg /kg to 54 mg/kg. The residential CHHSL for lead is 80 mg/kg. Lead-impacted soil does not appear to be a significant Site wide concern.

The most significant concern identified during this Phase II investigation appears to be the occurrence of TPH-diesel, TPH-oil, PAH compounds, and PCBs sporadically detected in selected soil samples collected from the upper approximate 4 to 5 feet of soil from borings advanced in the area of the former rail spur. Seven of 12 soil samples collected from four borings (SB-2, SB-4, SB-5, and/or SB-9) advanced in the southwest portion of the Site (near the former rail spur area) contained concentrations of one or more of the following contaminants that exceeded its residential screening criteria: TPH-diesel, TPH-oil, Benz(a)anthracene, Benzo(a)pyrene, Benzo(b)flouranthene, Dibenz(a,h)anthracene, and Indeno(1,2,3-cd)pyrene, Aroclor 1254 and/or Aroclor 1260. Further discussion of the TPH/PAH/PCB impacted soil is discussed below in Section 6.2.

6.2 TPH/PAH/PCB IMPACTED SOILS

Based on the results of the investigation, soil samples containing contaminant concentrations exceeding their respective residential environmental screening criteria were detected in the fill samples collected from the upper approximate 2 feet of soil, with exception of one fill sample from boring SB-5. Deeper soil samples collected from borings SB-2, SB-4, and SB-9 indicate the vertical extent of impact is limited to the upper approximate 4 feet of soil. However, it should be noted that sample recovery using direct push drilling methods in the upper approximate 5 feet of soil was approximately 65 percent. Due to the poor recovery, it can be difficult to approximate the depth of the soil retrieved in the acetate liner.

Laboratory analyses of the fill sample collected from boring SB-5 from an approximate depth of 4 feet detected Aroclor 1254 at a concentration of 1.5 mg/kg; its residential RSL is 0.22 mg/kg. Due to poor sample recovery at the SB-5 location, there is a potential the soil sample reported at approximately 4 feet may have originated from a shallower depth.

The source of the impacted soil is not known but appears associated with prior activities performed in the area of the former rail spur, and/or associated with the fill soils present in the

near the rail spur. Fill samples collected from the borings advanced in the northeast portion of the Site, and during prior investigations performed at the Parcel (City of San Jose Environmental Services, 2010), did not contain contaminant concentrations that exceeded their respective environmental screening criteria.

To address the impacted soil concerns identified near the former rail spur area, remedial options include soil excavation and disposal at a permitted facility and/or capsulation at the planned development. Soil excavation activities will be performed by a licensed hazardous materials contractor and personnel with training in hazardous waste operations (40-hour OSHA Training). In-situ verification soil sampling will be performed in the remedial excavations to help confirm that the remaining in-place soil meets residential screening criteria. The excavated soil will be off-hauled for off-Site disposal and/or consolidated beneath a portion of the planned asphalt pavement parking lot. Based on the available data, the impacted soil likely can be disposed at as non-hazardous waste at Waste Management's Kirby Canyon Landfill located near Morgan Hill, California. If consolidated beneath the planned parking lot, the bottom of the consolidation cell will be a minimum approximately 5 feet above the ground water table, and a minimum 2 foot cap consisting of "clean" soil, aggregate base rock, and asphalt pavements will be placed on top of the impacted soil. The volume of impacted soil requiring off-Site disposal and/or consolidation is not yet defined; however, based on the limited data, the volume may range from approximately 500 to 1,500 cubic yards. To better evaluate the extent of impact, additional soil sampling will be performed at the Site. Additionally, a Work Plan will be prepared for the Site presenting details of the additional soil sampling and the remedial strategy; it will be submitted to County Health for review and approval.

As shown on Figure 2A, the former rail spur extended off-Site to the southeast. There is a moderate to high probability that similar contaminant concentrations may be present near the portion of the former rail spur that extends off-Site. We recommend contacting the City to better understand their redevelopment plans for the athletic field (e.g. schedule) and if further investigation and/or remediation will be performed prior to redevelopment of the planned joint-use athletic field.

6.3 NATURALLY OCCURING ASBESTOS

During this investigation, three fill and four native soil samples were collected at the Site to evaluate the potential presence of naturally occurring asbestos. Asbestos was detected in 6 of 7 soil samples above DTSC's screening criteria of 0.01 percent for school sites but less than BAAQMD's screening value of 0.25 percent.

Due to the planned school redevelopment, we recommend the NOA-impacted soils be appropriately managed in accordance with DTSC's guidance document titled *Interim Guidance, Naturally Occurring Asbestos (NOA) at School Sites, Revised September 24, 2004*. Applicable remedies typically include: 1) removal of surface materials or imported fill materials containing NOA; 2) covering the Site with imported "clean" fill to create a barrier and to help prevent future exposure pathways; 3) covering or capping specified areas with buildings, hardscape, sod, or landscaping; and/or 4) development of an operation and maintenance plan. Excavation work should be performed by the contractor in a manner such that workers are protected from exposure to airborne asbestos in accordance with OSHA guidelines.

6.4 SOIL VAPOR QUALITY

Laboratory analyses of the soil vapor samples collected during this investigation detected several VOCs and TPH-gasoline; however, none of the detected compounds exceeded their respective residential CHHSL and/or ESL. Oxygen concentrations in the soil gas samples ranged from 15 to 19 percent indicating the presence of an aerobic zone in the upper approximate 10 feet of soil beneath Site.

Based on the soil vapor data, residual petroleum hydrocarbon contamination that may still present near the off-Site former UST area (located approximately 100 feet southeast of the Site), is not expected to pose a significant vapor intrusion concern at the portion of the Site where school buildings are planned.

6.5 POTENTIAL HAZARDS WITHIN THE SITE VICINTY

A screening level risk evaluation was performed to evaluate potential Site impacts associated with hazardous air emissions at the nearby B&M Auto Body, and emissions associated with vehicles and locomotives traveling on nearby Highway 87 and the Caltrain tracks. Based on the results of the risk assessment, hazardous air emissions generated from stationary sources within an approximate ¼-mile radius, vehicles and trucks traveling along State Route 87, and locomotives traveling in the right-of-way next to the school Site are not anticipated to pose an excess cancer risk or health hazard to occupants at the proposed charter elementary school. Please refer directly to the risk assessment report included in Appendix D for further details.

SECTION 7.0: LIMITATIONS

Cornerstone performed this investigation to support Launchpad Development Nine LLC in evaluation of soil, soil vapor, and ground water quality beneath the Site. Launchpad Development Nine LLC understands that the extent of soil, soil vapor and ground water data obtained is based on the reasonable limits of time and budgetary constraints. In addition, the chemical information presented in this report can change over time and is only valid at the time of this investigation and for the locations sampled.

This report, an instrument of professional service, was prepared for the sole use of Launchpad Development Nine LLC and may not be reproduced or distributed without written authorization from Cornerstone. Cornerstone makes no warranty, expressed or implied, except that our services have been performed in accordance with the environmental principles generally accepted at this time and location.

SECTION 8.0 REFERENCES

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Table 1. Laboratory Testing Program for Selected Soil Samples

Sample Location	Date	Sample Depth	Soil Type	OCPs (EPA Method 8081A)	CAM 17 Metals (EPA Methods 6010/747)	Hexavalent Chromium (EPA Method 7196A)	TPH Diesel/Oil with Silica Gel (EPA Method 8015B)	VOCs and TPH Gasoline (EPA Method 8260B)	Asbestos (TEM Method)	PCBs (EPA Method 8082)	Low Level PAHs (EPA Method 8270 SIM)
SB-1	08/28/12	2-2½	Native				X				X
		4-4½	Native	X	X		X			X	
SB-2	08/28/12	1-1½	Fill	X	X		X			X	X
		2-2½	Fill						X		X
		4-4½	Native	X	X		X			X	X
SB-3	08/28/12	1-1½	Fill	X	X		X			X	
		2-2½	Fill			X		X			
		4-4½	Fill	X	X		X	X		X	X
		14½-15	Native				X	X			
		16½-17	Native				X				
SB-4	08/28/12	1-1½	Fill	X	X		X				X
		2-2½	Fill		X	X	X		X		
		4-4½	Fill				X			X	
SB-5	08/28/12	1-1½	Fill	X	X		X			X	
		2-2½	Fill		X					X	X
		4-4½	Fill	X	X		X			X	
SB-6	08/28/12	1-1½	Fill	X	X		X		X	X	X
		2-2½	Native								
		4-4½	Native								
SB-7	08/28/12	½-1½	Fill	X	X		X			X	X
		2-2½	Native			X	X	X			
		5-5½	Native								
		9-9½	Native				X	X			
		14-14½	Native					X			
		19-19½	Native								
		23-23½	Native								
SB-8	08/28/12	½-1	Fill								
		2-2½	Native	X	X	X	X			X	X
		4-4½	Native								
		9½-10	Native						X		
		11-11½	Native				X	X			
		14-14½	Native				X	X			
		16-16½	Native				X	X			
SB-9	08/28/12	1-1½	Fill								X
		2-2½	Fill				X	X		X	X
		4-4½	Native	X	X		X			X	X
		8-8½	Native					X			
		11½-12	Native		X		X	X	X		
		17-17½	Native				X	X			
SB-10	08/28/12	1-1½	Fill	X	X		X			X	X
		2-2½	Fill					X			
		4-4½	Native				X	X			
		6-6½	Native						X		
		9½-10	Native				X	X			
		17-17½	Native				X	X			
		22½-23	Native								
Total Fill Samples Analyzed				9	11	2	12	4	3	11	10
Total Native Samples Analyzed				4	5	1	17	13	3	4	4

CORNERSTONE EARTH GROUP

Table 2. Summary Statistics of Soil Samples [1]

(Concentrations in mg/kg)

Compound Group	Chemical Detected	Number of Samples	Number of Detects	Frequency of Detection (Percent)	Minimum Detected	Maximum Detected	Number of Detects Exceeding Screening Criteria	Location of Maximum Concentration	Average Concentration[2]	95% UCL[2]	Residential ESL[3]	Residential CHHSL[4]	Residential RSL[5]
Metals	Lead	13	13	100.0	1.7	**240**	1	SB-5 (4-4 1/2')	28	**105**	200	80	400
TPH	TPHd	18	10	55.6	1.7	**120**	2	SB-5 (1-1 1/2')	23.91	NC	83	NE	NE
	TPHo	18	7	38.9	65	**640**	2	SB-5 (1-1 1/2')	**113**	NC	370	NE	NE
PAHs	Benz(a)anthracene	14	5	35.7	0.012	**0.84**	1	SB-9 (1-1 1/2')	**0.082**	NC	0.38	NE	0.15
	Benzo[a]pyrene	14	5	35.7	0.017	**1.2**	3	SB-9 (1-1 1/2')	**0.117**	NC	0.038	0.038	0.015
	Benzo[b]fluoranthene	14	10	71.4	0.0049	**1.7**	2	SB-9 (1-1 1/2')	**0.168** (0.05) [7]	**0.526** (0.11) [7]	0.38	NE	0.15
	Dibenz(a,h)anthracene	14	2	14.3	0.021	**0.19**	1	SB-9 (1-1 1/2')	**0.023**	**0.0475**	0.062	NE	0.015
	Indeno(1,2,3-cd)pyrene	14	4	28.6	0.011	**0.75**	1	SB-9 (1-1 1/2')	0.073	NC	0.062	NE	0.15
PCBs	Aroclor 1254	15	2	13.3	0.77	**1.5**	2	SB-5 (4-4 1/2')	0.163	NC	0.22	0.089	0.22
	Aroclor 1260	15	2	13.3	0.049	**0.71**	1	SB-9 (2-2 1/2')	0.069	NC	0.22	0.089	0.22

1 Table presents chemicals that were detected above their respective environmental screening criteria. Soil samples were collected from the upper approximate 5 feet of soil.

2 An assumed concentration of one-half the reporting limit was used for non-detect samples

3 Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region – May 2008

4 California Human Health Screening Level (CHHSL), CalEPA - September 2010

6 Regional Screening Level (RSL), USEPA Region 9 - May 2012

7 Value in parenthesis is the UCL concetration calculated without the maximum detected value

NC Not Calculated; data does not follow a discernable distribution

NE Not Established

BOLD Concentration exceeds screening critiera

CORNERSTONE EARTH GROUP

Table 3. Analytical Results of Selected Soil Samples - Metals and Asbestos
(Concentrations in mg/kg unless otherwise noted)

Sample Location	Sample ID	Date	Soil Type	Depth (feet)	Antimony	Arsenic	Barium	Beryllium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Vanadium	Zinc	Asbestos (%)
SB-1	SB-1 (4-4 1/2')	8/28/2012	Native	4-4½	2.3	4.6	180	<0.39	150	---	24	39	10	9.5	210	70	68	---
SB-2	SB-2 (1-1 1/2')	8/28/2012	Fill	1-1½	<2.0	6.9	220	<0.40	140	---	24	53	13	1.4	200	74	82	---
	SB-2 (2 1/2-3)	8/28/2012		2½-3	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.033**
	SB-2 (4-4 1/2')	8/28/2012	Native	4-4½	<2.0	5.6	300	0.5	170	---	30	52	7.9	17	240	83	79	---
SB-3	SB-3 (1-1 1/2)	8/28/2012	Fill	1-1½	<2.0	5.7	260	<0.40	130	---	22	41	18	1.5	190	65	78	---
	SB-3 (2-2 1/2)	8/28/2012		2-2½	---	---	---	---	**---**	<0.99	**---**	**---**	**---**	**---**	**---**	**---**	**---**	---
	SB-3 (4-4 1/2)	8/28/2012		4-4½	2.1	<3.8	87	<0.38	150	---	19	26	3.6	0.14	180	69	49	---
SB-4	SB-4 (1-1 1/2')	8/28/2012	FIll	1-1½	<1.9	5.4	150	<0.38	91	---	18	35	18	0.97	120	53	66	---
	SB-4 (2-2 1/2')	8/28/2012		2-2½	---	---	---	---	---	<0.99	---	---	---	---	---	---	---	**0.027**
SB-5	SB-5 (1-1 1/2')	8/28/2012	Fill	1-1½	<1.9	7.4	140	<0.39	61	---	15	56	15	1.5	89	52	61	---
	SB-5 (2-2 1/2)	8/28/2012		2-2½	---	---	---	---	---	---	---	---	54	---	---	---	---	---
	SB-5 (4-4 1/2')	8/28/2012		4-4½	<1.9	7.4	170	<0.39	85	---	14	95	**240**	9.7	130	43	290	---
SB-6	SB-6 (1-1 1/2')	8/28/2012	Fill	1-1½	<2.0	10	200	<0.39	130	---	22	67	21	1.9	160	78	95	0.006
SB-7	SB-7 (1/2-1 1/2)	8/28/2012	Fill	½-1½	1	<0.96	24	<0.096	77	---	15	5.4	6.4	0.88	300	7.8	15	---
	SB-7 (2-2 1/2)	8/28/2012	Native	2-2½	---	---	---	---	---	<1.0	---	---	---	---	---	---	---	---
SB-8	SB-8 (2-2 1/2)	8/28/2012	Native	2-2½	0.49	1.3	52	<0.098	42	---	6.5	11	1.7	0.74	56	20	17	---
	SB-8 (9 1/2-10)	8/28/2012		9½-10	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.087**
SB-9	SB-9 (4-4 1/2')	8/28/2012	Native	4-4½	<2.0	5.6	220	0.41	140	---	26	45	6.9	0.76	210	73	67	---
	SB-9 (11-11 1/2)	8/28/2012		11-11½	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.042**
SB-10	SB-10 (1-1 1/2)	8/28/2012	Fill	1-1½	<0.49	<0.98	16	<0.098	31	---	4.7	29	2	0.56	21	15	9.3	---
	SB-10 (6 1/2-7)	8/28/2012	Native	6½-7	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.031**
TP-2	TP-2 (2-2 1/2)	8/28/2012	Native	2-2½	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.014**
Residential CHHSL[1]					30	0.07	5,200	150	100,000 [6]	17	660	3,000	80	18	1,600	530	23,000	0.01[4]/0.25[5]
Background Range (LBNL) [2]					5.2 to 7.1	9.3 to 31	154.1 to 411 .2	0.8 to 1.1	78.6 to 142.2	NE	20.6 to 25.5	40.9 to 99.7	8.9 to 21.5	0.3 to 0.6	69.7 to 144.3	36.2 to 90.1	84.7 to 135.9	NE
Background Range (Scott) [3]					0.2 to 13	0.2 to 5.5	NE	NE	NE	NE	NE	23.8 to 47.5	6.8 to 16.1	NE	46.4 to 101	NE	47.7 to 82.8	NE
Maximum Background Detection (Scott) [3]					22	20	NE	NE	NE	NE	NE	67	54	NE	145	NE	120	NE

1 California Human Health Screening Level (CHHSL), CalEPA - September 2010
2 "Protocol for Determining Background Concentrations for Metals in Soil at Lawrence Berkeley National Laboratory (LBNL)", A Joint Effort of Environment, Health and Safety Division and Earth Sciences Division, Lawrence Berlerkely National Laboratory, University of California, Berkeley, CA 94720, August 1995

3 "Background Metal Concentrations in Soil in Northern Santa Clara County, California", Christina M. Scott, December 1991
4 Department of Toxic Substances Control (DTSC) recommended soil screening value - DTSC 2004
5 Bay Area Air Quality Management Board (BAAQMD) recommended soil screening value for construction and grading - BAAQMD 2001
6 Value is CHHSL for Chromium III
< Not detected at or above laboratory reporting limit
NE Not Established
BOLD Concentration exceeds CHHSL; bold concentration for arsenic exceeds Scott's maximum background detection; bold asbestos value exceed DTSC criteria
--- Not Analyzed

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Table 4. Analytical Results of Selected Soil Samples - Organochlorine Pesticides
(Concentrations in mg/kg)

Sample Location	Sample ID	Date	Soil Type	Depth (feet)	alpha-Chlordane	gamma-Chlordane	4,4´-DDT	4,4´-DDE	4,4´-DDD	DDT Total
SB-1	SB-1 (4-4 1/2')	8/28/2012	Native	4-4½	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
SB-2	SB-2 (1-1 1/2')	8/28/2012	Fill	1-1½	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SB-2 (4-4 1/2')	8/28/2012	Native	4-4½	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
SB-3	SB-3 (1-1 1/2)	8/28/2012	Fill	1-1½	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SB-3 (4-4 1/2)	8/28/2012		4-4½	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
SB-4	SB-4 (1-1 1/2')	8/28/2012	Fill	1-1½	<0.0019	<0.0019	0.0035	<0.0019	<0.0019	0.0035
SB-5	SB-5 (1-1 1/2')	8/28/2012	Fill	1-1½	<0.002	<0.002	0.0037	<0.002	<0.002	0.0037
	SB-5 (4-4 1/2')	8/28/2012		4-4½	0.022	0.02	0.014	<0.0098	<0.0098	0.014
SB-6	SB-6 (1-1 1/2')	8/28/2012	Fill	1-1½	0.0039	0.0032	0.0047	<0.002	<0.002	0.0047
SB-7	SB-7 (1/2-1 1/2)	8/28/2012	Fill	½-1½	<0.002	<0.002	0.0026	<0.002	<0.002	0.0026
SB-8	SB-8 (2-2 1/2)	8/28/2012	Native	2-2½	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
SB-9	SB-9 (4-4 1/2')	8/28/2012	Fill	4-4½	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
SB-10	SB-10 (1-1 1/2)	8/28/2012	Fill	1-1½	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Residential CHHSL[1]					0.43 [2]	0.43 [2]	1.6	1.6	2.3	NE

1 California Human Health Screening Level (CHHSL), CalEPA - September 2010
2 Value is Residential CHHSL for Technical Chlordane
< Not detected at or above laboratory reporting limit
NE Not Established
Note: no other organochlorine pesticides were detected in the soil samples above laboratory reporting limits.

CORNERSTONE EARTH GROUP

Table 5. Analytical Results of Selected Soil Samples - PAHs and PCBs
(Concentrations in mg/kg)

Sample Location	Sample ID	Date	Soil Type	Depth (feet)	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(g,h,i)perylene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[k]fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Aroclor 1254	Aroclor 1260
SB-1	SB-1 (2-2 1/2')	8/28/2012	Native	2-2½	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0059	<0.0049	---	---
	SB-1 (4-4 1/2')	8/28/2012		4-4½	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.05	<0.05
SB-2	SB-2 (1-1 1/2')	8/28/2012	Fill	1-1½	<0.025	<0.025	0.026	0.026	0.029	0.048	<0.025	0.025	<0.025	0.03	<0.025	<0.025	<0.025	0.025	0.027	<0.05	<0.05
	SB-2 (2-2 1/2')	8/28/2012		2-2½	0.092	0.032	0.12	0.13	**0.22**	**0.27**	0.1	0.22	0.021	0.6	0.02	0.11	0.14	0.51	0.65	---	---
	SB-2 (4-4 1/2')	8/28/2012	Native	4-4½	<0.0049	<0.0049	<0.0049	0.0066	<0.0049	0.016	<0.0049	0.012	<0.0049	0.0092	<0.0049	<0.0049	0.01	0.033	0.0092	<0.05	<0.05
SB-3	SB-3 (1-1 1/2)	8/28/2012	Fill	1-1½	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.049	<0.049
	SB-3 (4-4 1/2)	8/28/2012		4-4½	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0057	<0.0049	<0.049	<0.049
SB-4	SB-4 (1-1 1/2')	8/28/2012	Fill	1-1½	<0.049	<0.049	<0.049	0.062	<0.049	0.066	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	0.049
	SB-4 (4-4 1/2)	8/28/2012	Native	4-4½	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.049	<0.049
SB-5	SB-5 (1-1 1/2')	8/28/2012	Fill	1-1½	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.049	<0.049
	SB-5 (2-2 1/2)	8/28/2012		2-2½	<0.049	<0.049	<0.049	0.082	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.77**	<0.049
	SB-5 (4-4 1/2')	8/28/2012		4-4½	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.5**	<0.49
SB-6	SB-6 (1-1 1/2')	8/28/2012	Fill	1-1½	<0.025	<0.025	<0.025	<0.025	<0.025	0.032	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05
SB-7	SB-7 (1/2-1 1/2)	8/28/2012	Fill	½-1½	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	<0.005	<0.049	<0.049
SB-8	SB-8 (2-2 1/2)	8/28/2012	Native	2-2½	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.013	<0.0049	<0.049	<0.049
SB-9	Sb-9 (1-1 1/2)	8/28/2012	Fill	1-1½	0.035	0.095	**0.84**	0.87	**1.2**	**1.7**	0.64	0.92	**0.19**	1.1	<0.0049	**0.75**	<0.0049	0.32	0.96	---	---
	SB-9 (2-2 1/2')	8/28/2012		2-2½	<0.025	<0.025	0.074	0.07	**0.1**	0.15	0.049	0.08	<0.025	0.092	<0.025	0.06	<0.011	0.027	0.085	<0.24	**0.71**
	SB-9 (4-4 1/2)	8/28/2012	Native	4-4½	<0.025	<0.025	<0.0049	<0.0049	<0.0049	0.0082	<0.0049	0.0062	<0.0049	<0.0049	<0.0049	<0.0049	0.0076	0.028	0.0053	<0.049	<0.049
SB-10	SB-10 (1-1 1/2)	8/28/2012	Fill	1-1½	<0.0098	<0.0098	0.012	0.016	0.017	0.027	<0.0098	0.021	<0.0098	0.04	<0.0098	0.011	<0.0098	0.022	0.047	<0.049	<0.049
Residential CHHSL [1]					NE	NE	NE	NE	0.038	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0.089 [4]	0.089 [4]
Residential RSL [2]					NE	17,000	0.15	NE	0.015	0.15	1.5	15	0.015	2,300	2,300	0.15	3.9	NE	1,700	0.22	0.22
Residential ESL [3]					13	2.8	0.38	27	0.038	0.38	0.38	23	0.062	40	8.9	0.062	1.3	11	85	0.22	0.22

1 California Human Health Screening Level (CHHSL), CalEPA - September 2010
2 Regional Screening Level (RSL), USEPA Region 9 – May 2012
3 Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region – May 2008
4 Value is Residential CHHSL for Total PCB's
< Not detected at or above laboratory reporting limit
NE Not Established
--- Not Analyzed
Note: no other PAHs or PCBs were detected above laboratory reporting limits.
BOLD Concentration exceeds CHHSL, RSL, or ESL

CORNERSTONE EARTH GROUP

Table 6. Analytical Results of Selected Soil Samples - TPH and VOCs
(Concentrations in mg/kg)

Sample Location	Sample ID	Date	Soil Type	Depth (feet)	TPHd	TPHo	TPHg	VOCs
SB-1	SB-1 (2-2 1/2')	8/28/2012	Native	2-2½	<0.99	<50	---	---
	SB-1 (4-4 1/2')	8/28/2012		4-4½	<0.99	<49	---	---
SB-2	SB-2 (1-1 1/2')	8/28/2012	Fill	1-1½	15	65	---	---
	SB-2 (2-2 1/2')	8/28/2012		2-2½	---	---	---	---
	SB-2 (4-4 1/2')	8/28/2012	Native	4-4½	<0.99	<50	---	---
SB-3	SB-3 (1-1 1/2)	8/28/2012	Fill	1-1½	7.2	<50	---	---
	SB-3 (2-2 1/2)	8/28/2012		2-2½	---	---	<0.22	ND
	SB-3 (4-4 1/2)	8/28/2012		4-4½	<0.99	<49	<0.23	ND
	SB-3 (14 1/2-15)	8/28/2012	Native	14½-15	<0.99	<50	<0.22	ND
	SB-3 (16 1/2-17')	8/28/2012		16½-17	<0.99	<50	---	---
SB-4	SB-4 (1-1 1/2')	8/28/2012	Fill	1-1½	**110**	**390**	---	---
	SB-4 (2-2 1/2')	8/28/2012		2-2½	27	93	---	---
	SB-4 (4-4 1/2)	8/28/2012	Native	4-4½	1.7	<50		
SB-5	SB-5 (1-1 1/2')	8/28/2012	Fill	1-1½	**120**	**640**	---	---
	SB-5 (4-4 1/2')	8/28/2012		4-4½	64	320	---	---
SB-6	SB-6 (1-1 1/2')	8/28/2012	Fill	1-1½	19	70	---	---
SB-7	SB-7 (1/2-1 1/2)	8/28/2012	Native	½-1½	8.2	<50	---	---
	SB-7 (2-2 1/2)	8/28/2012		2-2½	<1.0	<50	<0.22	ND
	SB-7 (9-9 1/2)	8/28/2012		9-9½	<0.99	<49	<0.24	ND
	SB-7 (14-14 1/2)	8/28/2012		14-14½	---	---	<0.25	ND
SB-8	SB-8 (2-2 1/2)	8/28/2012	Native	2-2½	<0.99	<50	<0.25	ND
	SB-8 (11-11 1/2)	8/28/2012		11-11½	<0.99	<49	<0.22	ND
	SB-8 (14-14 1/2)	8/28/2012		14-14½	<0.99	<50	<0.25	ND
	SB-8 (16-16 1/2)	8/28/2012		16-16½	<1.0	<50	<0.23	ND
SB-9	SB-9 (2-2 1/2')	8/28/2012	Fill	2-2½	71	270	<0.27	ND
	SB-9 (4-4 1/2')	8/28/2012	Native	4-4½	<1.0	<50	---	---
	SB-9 (8-8 1/2')	8/28/2012		8-8½	---	---	<0.25	ND
	SB-9 (11 1/2-12')	8/28/2012		11½-12	<1.0	<50	<0.23	ND
	SB-9 (17-17 1/2')	8/28/2012		17-17½	<1.0	<50	<0.25	ND
SB-10	SB-10 (1-1 1/2)	8/28/2012	Fill	1-1½	7.2	<50	---	---
	SB-10 (2-2 1/2)	8/28/2012	Native	2-2½	---	---	<0.24	ND
	SB-10 (4-4 1/2)	8/28/2012		4-4½	<0.99	<50	<0.25	ND
	SB-10 (9 1/2-10)	8/28/2012		9½-10	<1.0	<50	<0.62	ND
	SB-10 (17-17 1/2)	8/28/2012		17-17½	<0.99	<49	<0.22	ND
Residential ESL[1]					83	370	83	Variable

1 Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region – May 2008
< Not detected at or above laboratory reporting limit
ND Not detected
--- Not Analyzed
Bold Concentration exceeds ESL

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Table 7. Analytical Results of Selected Soil Vapor Samples - VOCs and TPH-gasoline
(Concentrations in µg/m³)

Sample Location	Sample ID	Date	Approximate Depth (Feet)	Benzene	Toluene	Ethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Butanone (MEK)	4-Ethyl Toluene	Acetone	Carbon Disulfide	Chlorobenzene	Heptane	n-Propylbenzene	Xylenes, total	PCE	TPH-gasoline
SB-7	SV-1/SB-7 D475	8/30/2012	5	29	120	36	77	28	<13	55	39	22	5.4	4.8	11	212	8.7	3149.3
	SV-1/SB-7 D9.5	8/30/2012	10	13	33	8.9	9.6	<6.6	<16	<6.6	<32	<17	<6.2	<5.5	<6.6	35.2	<9.1	1390.6
SB-8	SV-2/SB-8 D475	8/30/2012	5	<3.9	<4.6	<5.4	<6.1	<6.1	14	<6.1	110	<15	<5.7	<5.1	<6.1	8	<8.4	1186.1
	SV-2/SB-8 D475 R *	8/30/2012	5	<4.2	<5	<5.7	7.1	<6.5	<16	<6.5	66	<16	<6.1	<5.4	<6.5	7.9	<9	736.2
	SV-2/SB-8 D925	8/30/2012	9	<3.3	<3.9	<4.4	<5	<5	<12	<5	<24	<13	4.8	<4.2	<5	<4.4	<7	531.7
Residential CHHSL[1]				36	140,000	420	NE	NE	NE	NE	NE	NE	NE	NE	NE	320,000	180	NE
Residential ESL[2]				84	63,000	980	NE	NE	1,000,000	NE	660,000	NE	210,000	NE	NE	NE	410	10,000

1 California Human Health Screening Level (CHHSL), CalEPA - September 2010
2 Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region – May 2008
< Not detected at or above laboratory reporting limit
NE Not Established
* Duplicate soil gas sample collected and analyzed
Note: No other VOCs were detected above laboratory reporting limits

CORNERSTONE EARTH GROUP

Table 8. Analytical Results of Selected Soil Vapor Samples - Fixed Gases
(Concentrations in percent)

Sample Location	Sample ID	Date	Approximate Depth (feet)	Carbon Dioxide	Methane	Oxygen
SB-7	SV-1/SB-7 D475	8/30/2012	5	3	<0.00022	18
	SV-1/SB-7 D9.5	8/30/2012	10	5.3	<0.00027	15
SB-8	SV-2/SB-8 D475	8/30/2012	5	3	<0.00025	18
	SV-2/SB-8 D475 R*	8/30/2012	5	3	<0.00026	18
	SV-2/SB-8 D925	8/30/2012	10	2.7	<0.0002	19

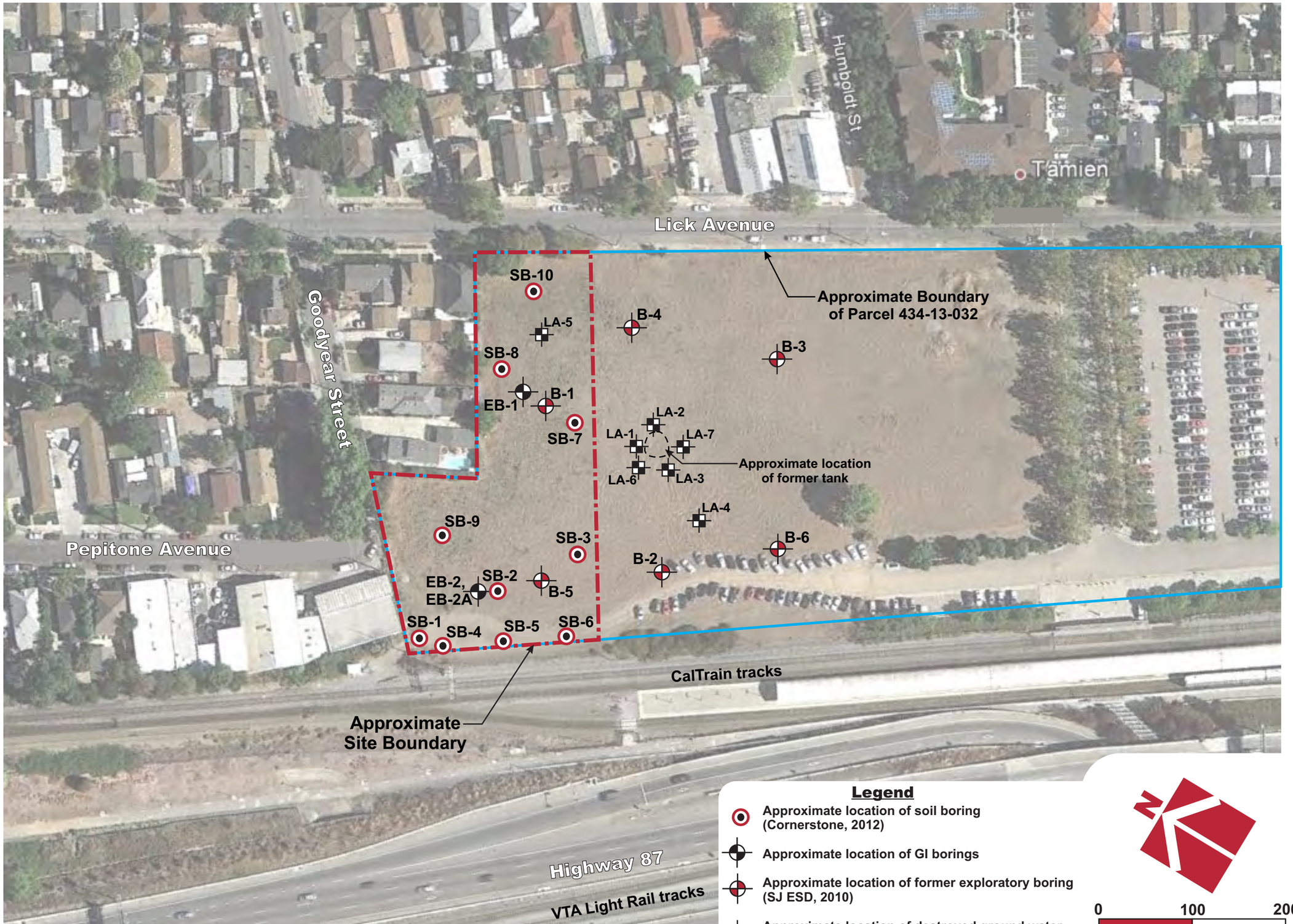
< Not detected at or above laboratory reporting limit
NE Not Established
* Duplicate sample collected and analyzed

CORNERSTONE EARTH GROUP

Vicinity Map

Rocketship Public School - Tamien
San Jose, CA

Project Number	465-4-2
Figure Number	Figure 1
Date	June 2012
Drawn By	RRN



Base by Google Earth, dated 10/31/2011

Project Number 465-4-3

Figure Number Figure 2

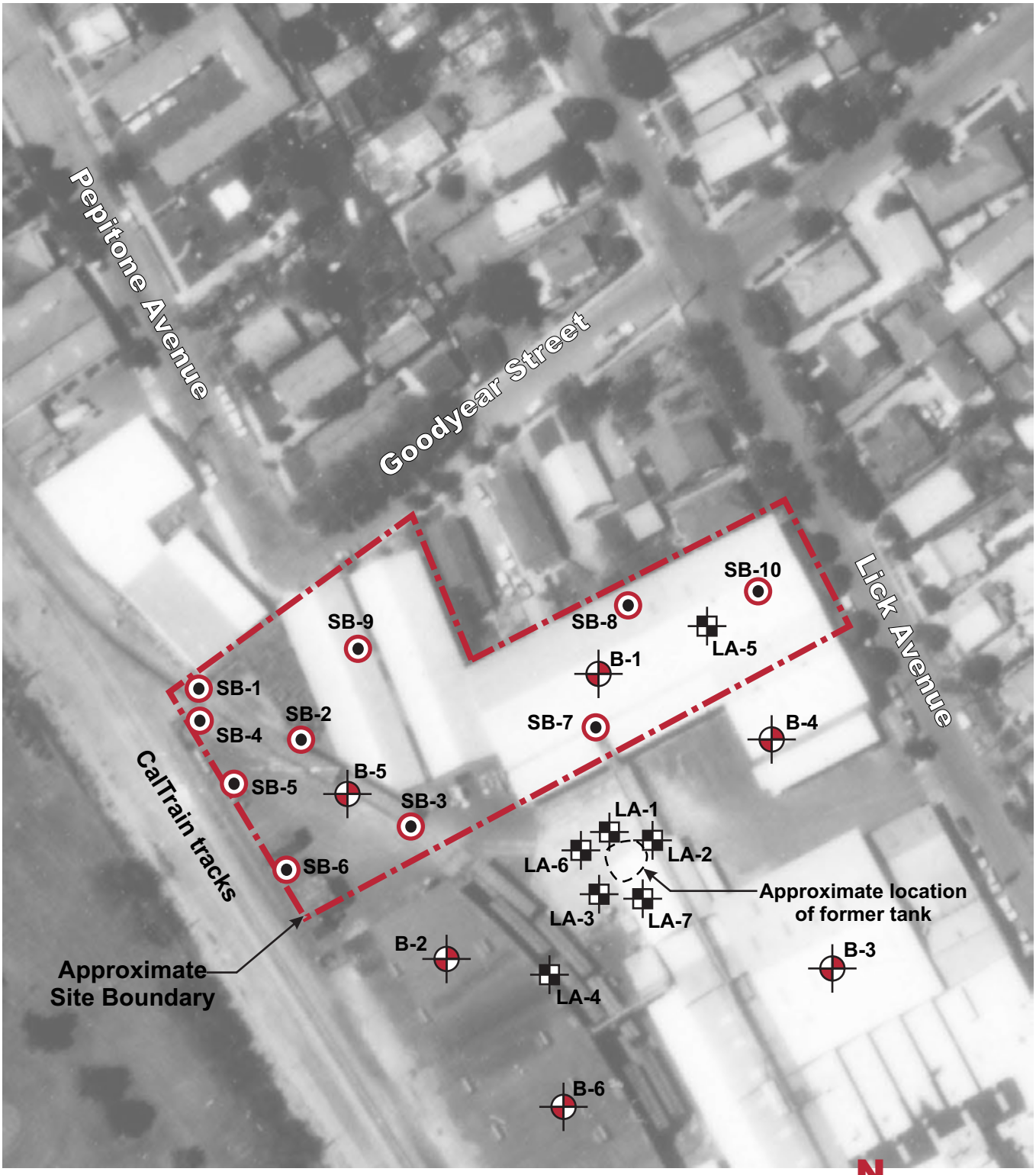
Date September 2012

Drawn By RRN

Site Plan

Rocketship Public School - Tamien
San Jose, CA

CORNERSTONE EARTH GROUP



Legend

- Approximate location of soil boring (Cornerstone, 2012)
- Approximate location of former exploratory boring (SJ ESD, 2010)
- Approximate location of destroyed ground water monitoring wells

N

0 100 200

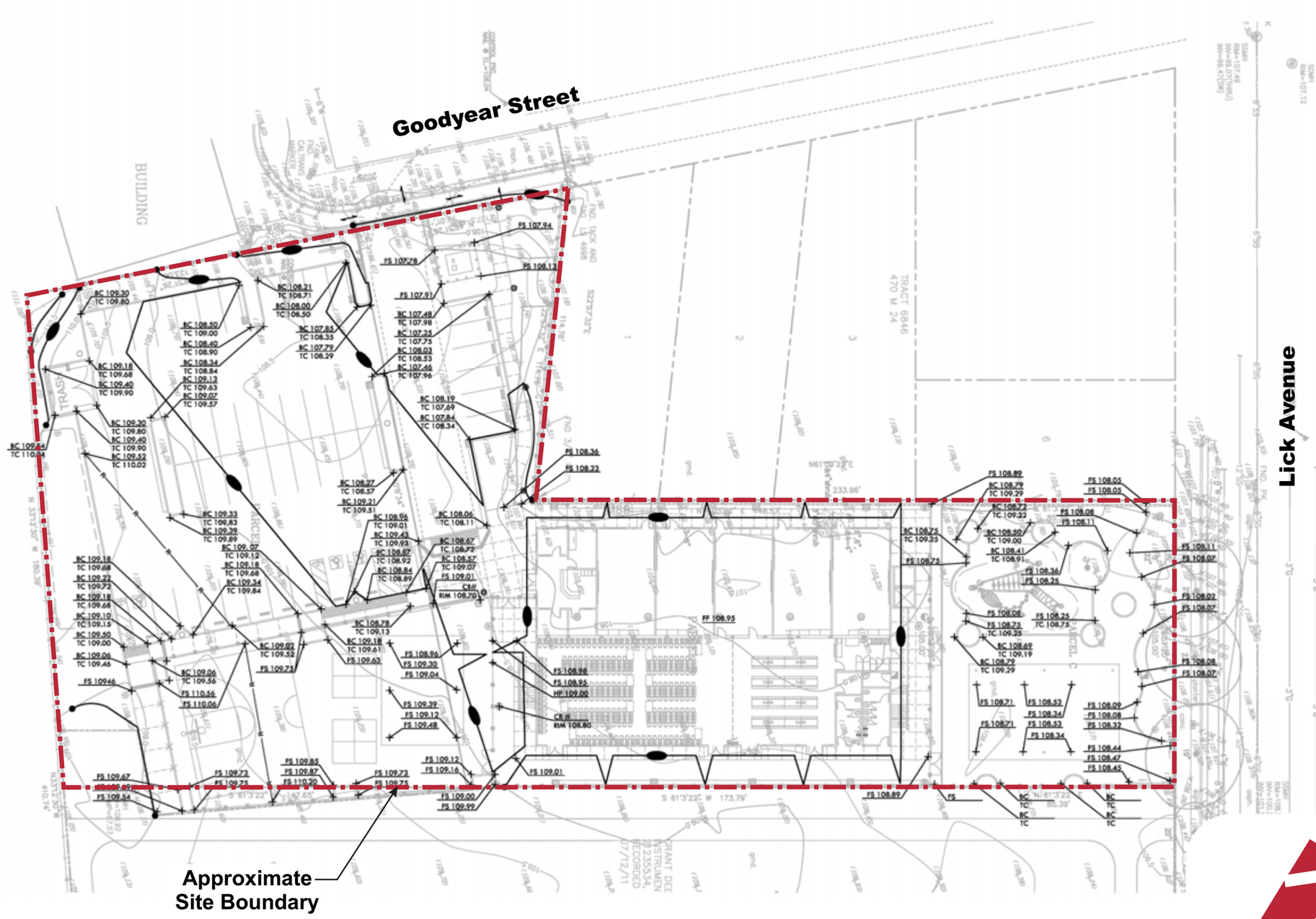
APPROXIMATE SCALE (FEET)

CORNERSTONE EARTH GROUP

Site Plan - 1974 Aerial Photograph

Rocketship Public School - Tamien
San Jose, CA

Project Number	465-4-3
Figure Number	Figure 2A
Date	September 2012
Drawn By	RRN



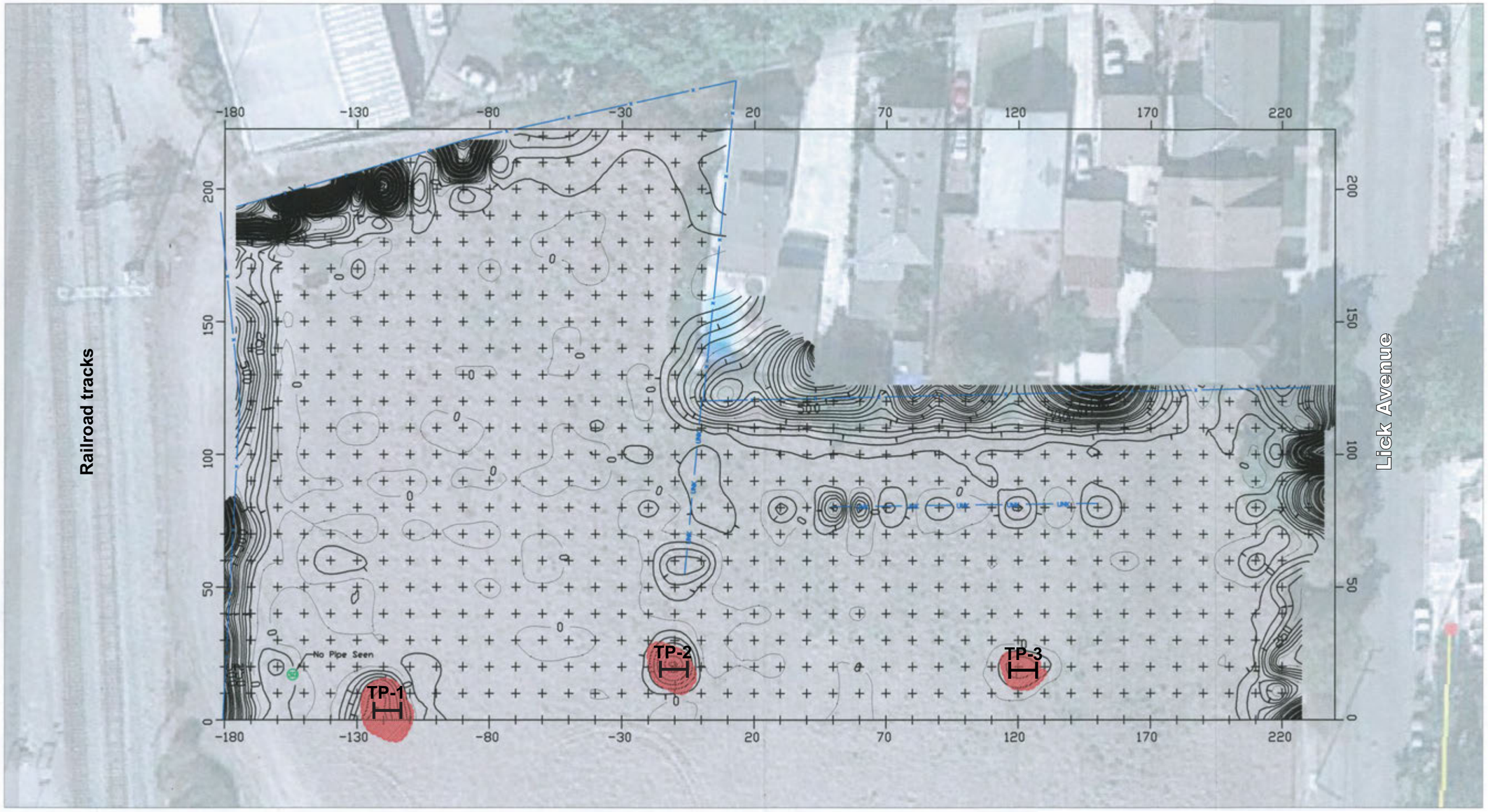
Base by Verde Design, "Grading Plan - L5.0", dated 10/30/2012

Project Number	465-4-3
Figure Number	Figure 3
Date	October 2012
Drawn By	RRN

Site Development Plan

Rocketship Public School - Tamien
San Jose, CA

CORNERSTONE EARTH GROUP



Legend

- Approximate location of exploratory test pit (Cornerstone, 2012)
- UNK — Unknown Pipe
- X — Fence
- SD — Storm Drain
- Magnetic Anomaly - Indicating buried metal

N

0 40 80

APPROXIMATE SCALE (FEET)

Base by JR Associates, "Magnetic Contour Map - #2", dated 8/27/2012

Project Number	465-4-3
Figure Number	Figure 4
Date	September 2012
Drawn By	RRN

Magnetic Contour Map

Rocketship Public School - Tamien
San Jose, CA

CORNERSTONE EARTH GROUP

Residential ESL[1]

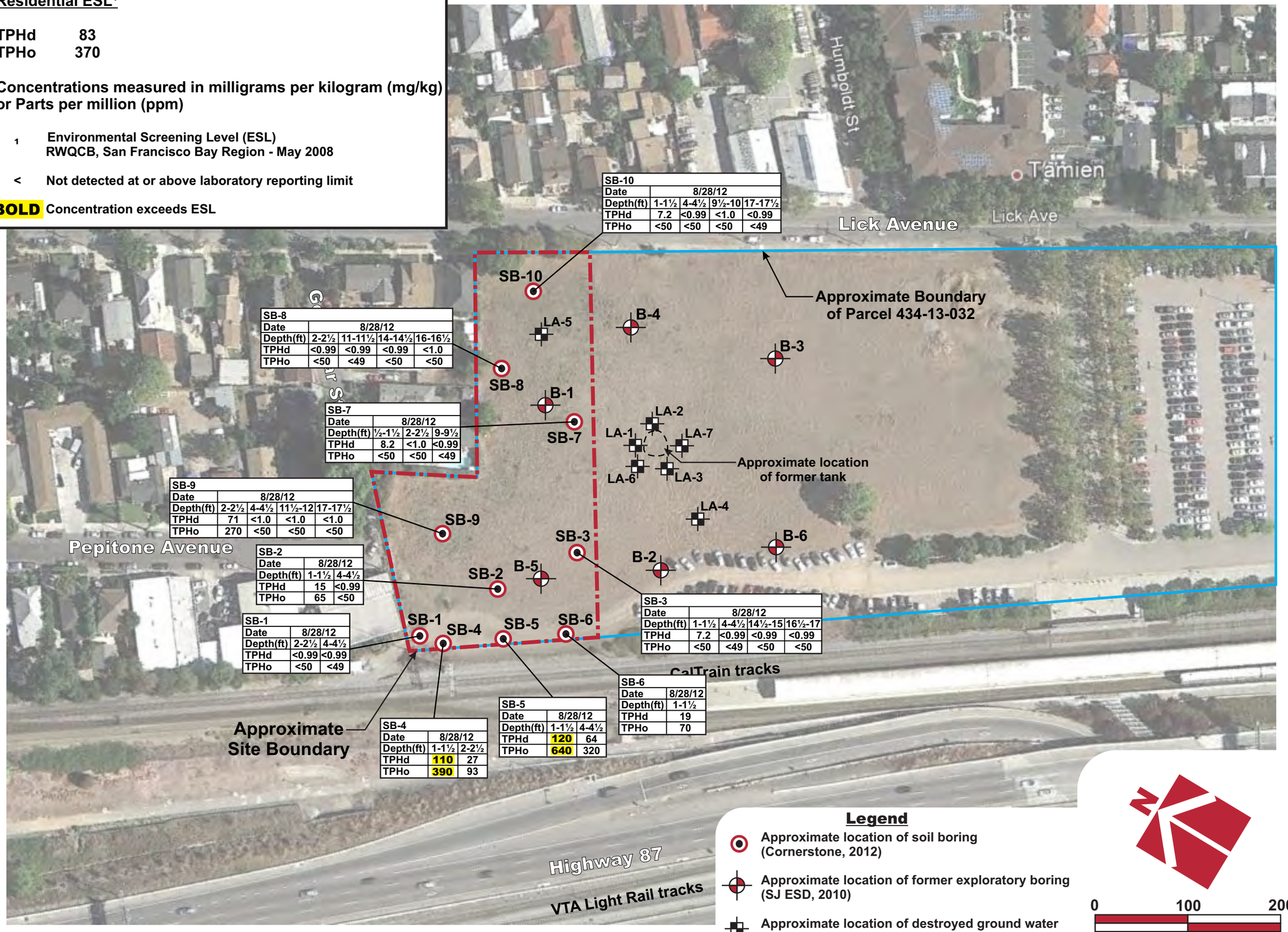
TPHd 83
TPHo 370

Concentrations measured in milligrams per kilogram (mg/kg) or Parts per million (ppm)

1 Environmental Screening Level (ESL)
RWQCB, San Francisco Bay Region - May 2008

< Not detected at or above laboratory reporting limit

BOLD Concentration exceeds ESL



SB-10				
Date	8/28/12			
Depth(ft)	1-1½	4-4½	9½-10	17-17½
TPHd	7.2	<0.99	<1.0	<0.99
TPHo	<50	<50	<50	<49

SB-8				
Date	8/28/12			
Depth(ft)	2-2½	11-11½	14-14½	16-16½
TPHd	<0.99	<0.99	<0.99	<1.0
TPHo	<50	<49	<50	<50

SB-7			
Date	8/28/12		
Depth(ft)	½-1½	2-2½	9-9½
TPHd	8.2	<1.0	<0.99
TPHo	<50	<50	<49

SB-9				
Date	8/28/12			
Depth(ft)	2-2½	4-4½	11½-12	17-17½
TPHd	71	<1.0	<1.0	<1.0
TPHo	270	<50	<50	<50

SB-2		
Date	8/28/12	
Depth(ft)	1-1½	4-4½
TPHd	15	<0.99
TPHo	65	<50

SB-1		
Date	8/28/12	
Depth(ft)	2-2½	4-4½
TPHd	<0.99	<0.99
TPHo	<50	<49

SB-3				
Date	8/28/12			
Depth(ft)	1-1½	4-4½	14½-15	16½-17
TPHd	7.2	<0.99	<0.99	<0.99
TPHo	<50	<49	<50	<50

SB-6	
Date	8/28/12
Depth(ft)	1-1½
TPHd	19
TPHo	70

SB-5		
Date	8/28/12	
Depth(ft)	1-1½	4-4½
TPHd	**120**	64
TPHo	**640**	320

SB-4		
Date	8/28/12	
Depth(ft)	1-1½	2-2½
TPHd	**110**	27
TPHo	**390**	93

Base by Google Earth, dated 10/31/2011

Project Number 465-4-3

Figure Number Figure 5

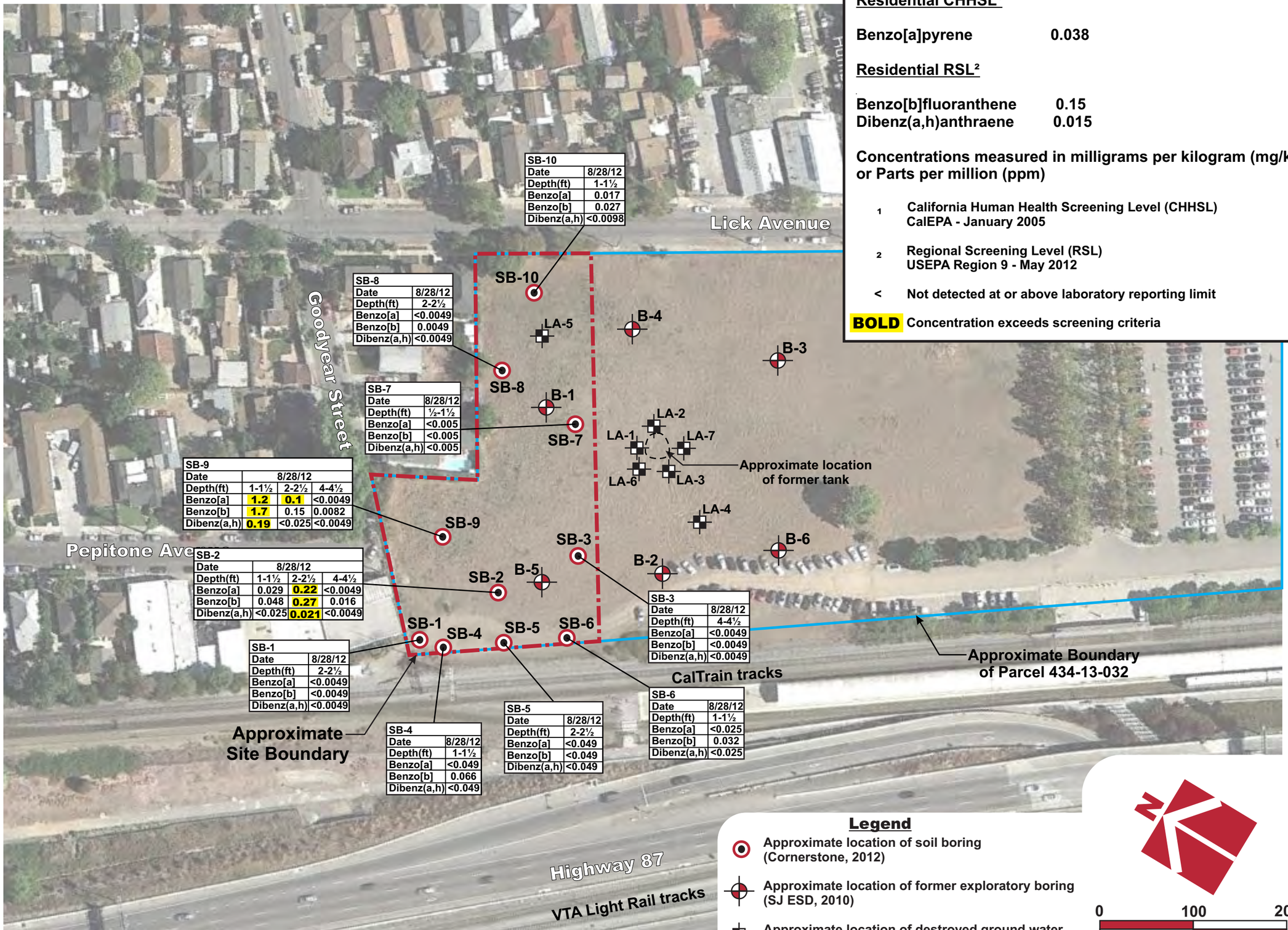
Drawn By RRN

Date September 2012

TPH Concentrations in Soil

Rocketship Public School - Tamien
San Jose, CA

CORNERSTONE EARTH GROUP



Base by Google Earth, dated 10/31/2011

Residential CHHSL[1]

Benzo[a]pyrene	0.038

Residential RSL[2]

Benzo[b]fluoranthene	0.15
Dibenz(a,h)anthraene	0.015

Concentrations measured in milligrams per kilogram (mg/kg) or Parts per million (ppm)

1 California Human Health Screening Level (CHHSL) CalEPA - January 2005

2 Regional Screening Level (RSL) USEPA Region 9 - May 2012

< Not detected at or above laboratory reporting limit

BOLD Concentration exceeds screening criteria

Project Number 465-4-3

Figure Number Figure 6

Date September 2012

Drawn By RRN

PAH Concentrations in Soil

Rocketship Public School - Tamien
San Jose, CA

CORNERSTONE EARTH GROUP

Residential RSL[1]

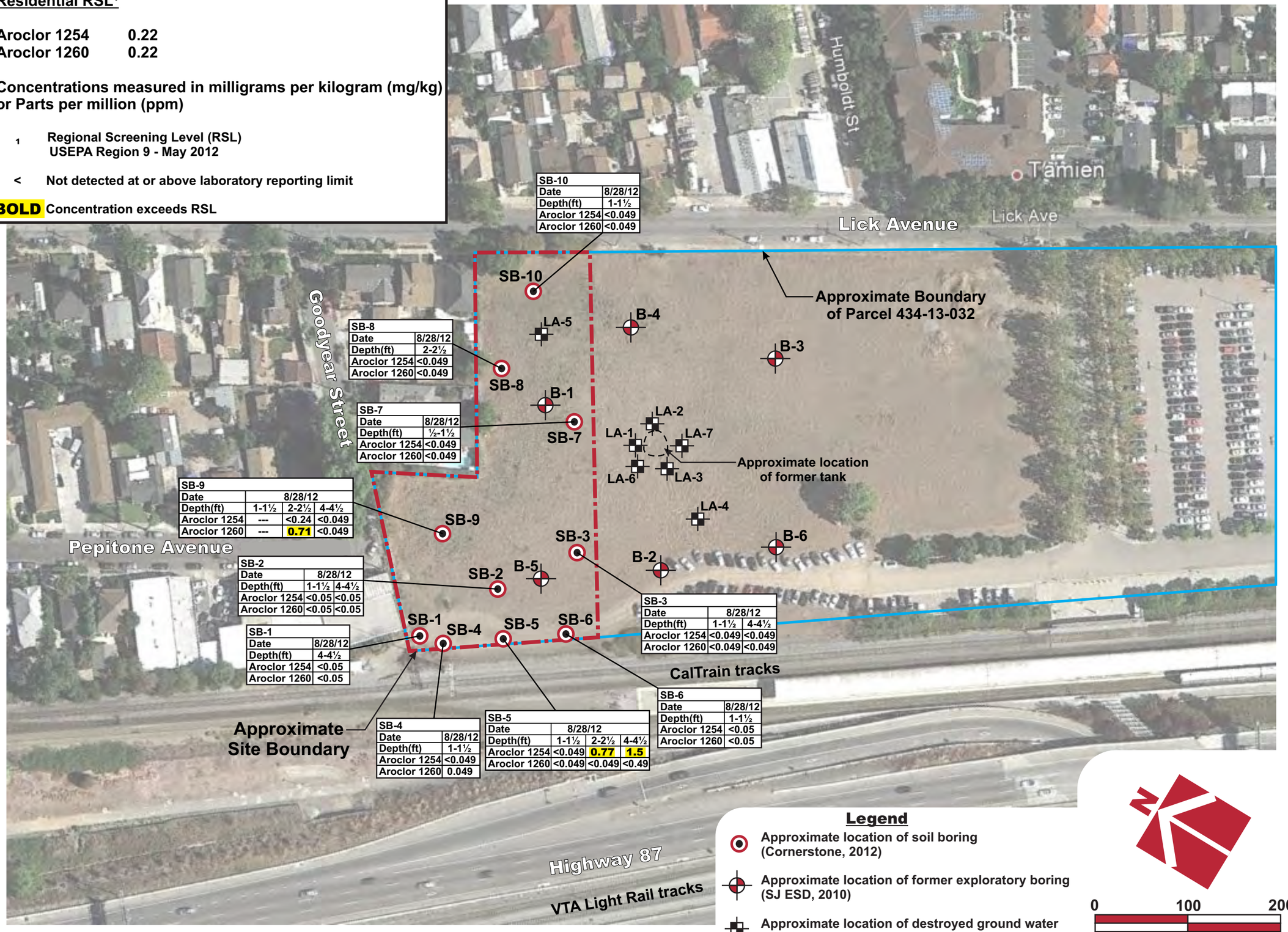
Aroclor 1254	0.22
Aroclor 1260	0.22

Concentrations measured in milligrams per kilogram (mg/kg) or Parts per million (ppm)

1 Regional Screening Level (RSL) USEPA Region 9 - May 2012

< Not detected at or above laboratory reporting limit

BOLD Concentration exceeds RSL



SB-10	
Date	8/28/12
Depth(ft)	1-1½
Aroclor 1254	<0.049
Aroclor 1260	<0.049

SB-8	
Date	8/28/12
Depth(ft)	2-2½
Aroclor 1254	<0.049
Aroclor 1260	<0.049

SB-7	
Date	8/28/12
Depth(ft)	½-1½
Aroclor 1254	<0.049
Aroclor 1260	<0.049

SB-9			
Date	8/28/12		
Depth(ft)	1-1½	2-2½	4-4½
Aroclor 1254	---	<0.24	<0.049
Aroclor 1260	---	**0.71**	<0.049

SB-2		
Date	8/28/12	
Depth(ft)	1-1½	4-4½
Aroclor 1254	<0.05	<0.05
Aroclor 1260	<0.05	<0.05

SB-1	
Date	8/28/12
Depth(ft)	4-4½
Aroclor 1254	<0.05
Aroclor 1260	<0.05

SB-4	
Date	8/28/12
Depth(ft)	1-1½
Aroclor 1254	<0.049
Aroclor 1260	0.049

SB-5			
Date	8/28/12		
Depth(ft)	1-1½	2-2½	4-4½
Aroclor 1254	<0.049	**0.77**	**1.5**
Aroclor 1260	<0.049	<0.049	<0.49

SB-3		
Date	8/28/12	
Depth(ft)	1-1½	4-4½
Aroclor 1254	<0.049	<0.049
Aroclor 1260	<0.049	<0.049

SB-6	
Date	8/28/12
Depth(ft)	1-1½
Aroclor 1254	<0.05
Aroclor 1260	<0.05

Legend

- Approximate location of soil boring (Cornerstone, 2012)
- Approximate location of former exploratory boring (SJ ESD, 2010)
- Approximate location of destroyed ground water monitoring wells

N

0 100 200

APPROXIMATE SCALE (FEET)

Base by Google Earth, dated 10/31/2011

Project Number	465-4-3
Figure Number	Figure 7
Drawn By	RRN
Date	September 2012

PCB Concentrations in Soil

Rocketship Public School - Tamien
San Jose, CA

CORNERSTONE EARTH GROUP

APPENDIX A – GEOPHYSICAL SURVEY REPORT

J R ASSOCIATES

Engineering Geophysics
1886 Emory Street
San Jose, CA 95126
(408) 293-7390

GEOPHYSICAL INVESTIGATION AT A PROPOSED SCHOOL SITE OFF LICK AVENUE IN SAN JOSE, CALIFORNIA

September 4, 2012

For

Cornerstone Earth Group, Incorporated
1259 Oakmead Parkway
Sunnyvale, CA 94085

By

James Rezowalli, GP-921

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Drawing 1 Vicinity Map

Drawing 2 Magnetic Contour Map

I INTRODUCTION

This report presents the results of a geophysical investigation performed at a proposed school site off Lick Avenue in San Jose, California. The investigation was performed for Cornerstone Earth Group by J R Associates. The purpose of the investigation was to look for geophysical indications of buried fuel tanks, product lines, and buried metal debris. James Rezowalli, Principal Geophysicist, and Mark Ryan, Technician, of J R Associates performed the field work in August of 2012.

A. Site

The site is off Lick Avenue between just south of Goodyear Street (Drawing 1). The site presently is a flat vacant dirt lot. Buried objects such as an abandoned heating oil tank, trash pits, and old infrastructure can be a hindrance to future redevelopment. The purpose of our investigation was to look for geophysical evidence of buried fuel storage tanks, product lines, old foundations, and metal debris at the site.

II METHODS

We performed a magnetic investigation on the property. A magnetic investigation maps the vertical magnetic gradient. The magnetic gradient is uniform throughout a site free of metal. The magnetic gradient at a site that contains ferrous metal is not uniform. Metal objects produce magnetic anomalies with characteristic shapes and magnitudes. For example, an anomaly caused by a buried tank is characterized by a strong magnetic low just south of the center of the tank and a weaker magnetic high just north of the tank. This type of anomaly is what we use to locate buried fuel storage tanks.

A. Magnetic Instrumentation

We used a Geometrics model 856 magnetometer to collect magnetic data at the site. The magnetometer had two sensors and an electronics package. The magnetometer collected both total field data and vertical gradient data. The magnetometer can discriminate to 0.1 gammas in a total field of 40,000 to 60,000 gammas. Magnetic readings were stored in memory with the time of day, station numbers, and line numbers of the readings. The data were downloaded to a computer and contoured.

B. Magnetic Field Procedures

Magnetic data were collected on ten-foot centers along lines spaced 10 feet apart in the area investigated. A magnetic data point is shown by a plus sign on Drawing 2. At the end of the field day, the magnetic data were downloaded and contoured. An anomaly is indicated by one or more concentric magnetic contours.

III RESULTS

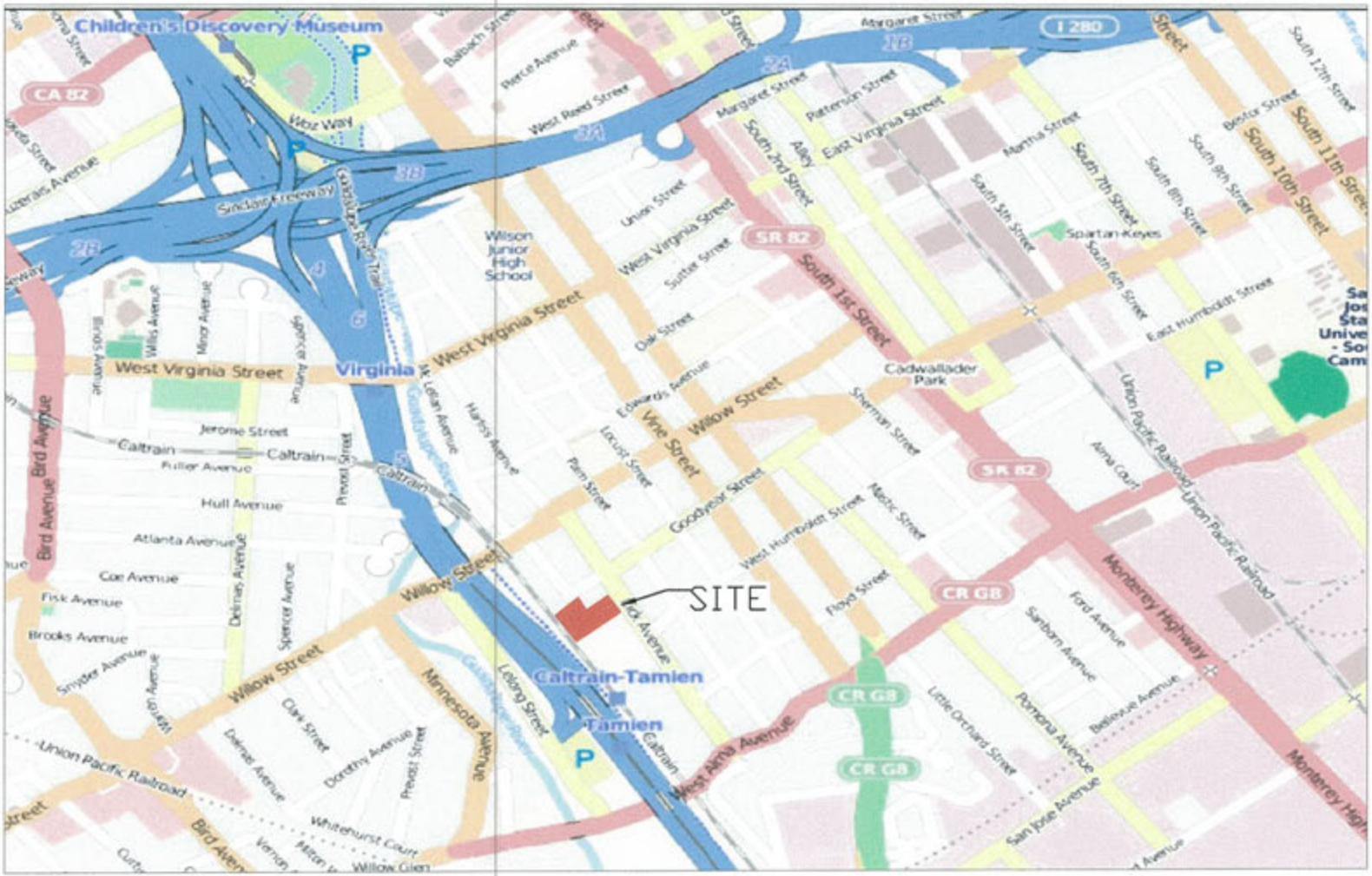
A. Magnetic Data

Drawing 2 shows the contour map of the magnetic data. There were no geophysical indications of significant amounts of buried metal at the site that might be associated with objects such as an old foundation, a large buried tank, or a trash pit. There were three small anomalies that we marked in the field. The small anomalies are indicative of small objects such as sections of pipe or rebar. Occasionally a small anomaly can be from a small buried trash pit with some metal in it. In addition to the magnetic anomalies, we found two apparently abandoned metal pipes. The locations of the magnetic anomalies and buried pipes are shown on Drawing 2 and were marked in the field.

B. Limitations

Magnetic methods locate ferrous objects from the anomalies they produce in the earth's magnetic field. It is possible some ferrous objects will not produce an anomaly. Some possible reasons are that the object is buried too deep, the object is too small, the object is buried under or near another ferrous object or an object is buried near a utility. It is possible there are materials buried at the site that were not detected by the magnetometer.

IV DRAWINGS

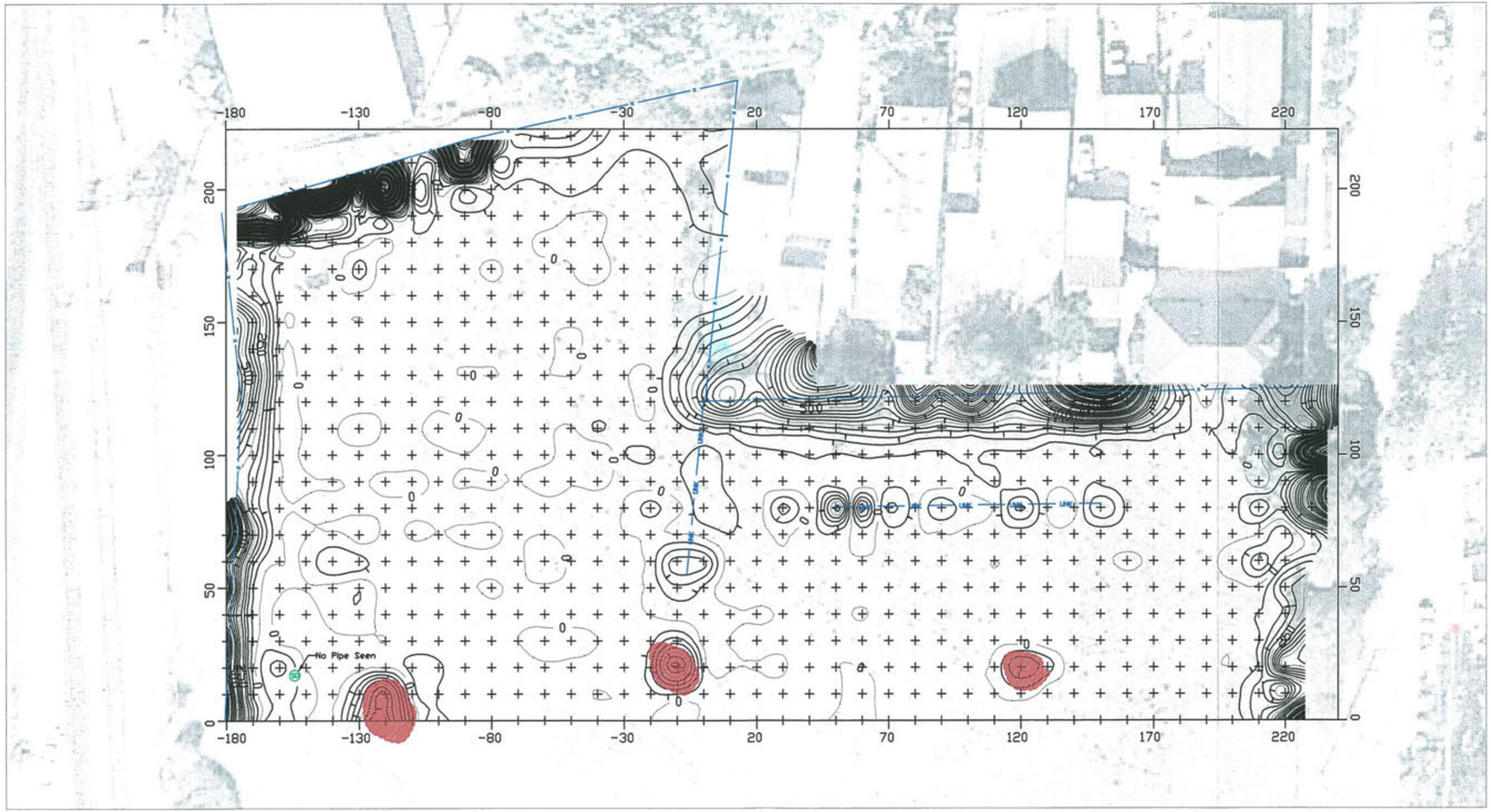


Vicinity Map- Rocketship Public School
Lick Avenue
San Jose, CA

SCALE: No Scale			DRAWN BY: J.J.R.
DATE: 8-27-2012	JOB NUMBER:	151-010-12	REVISED:

J R Associates Civil and Environmental Geophysics
1886 Emory Street, San Jose, CA (408) 293-7390

DRAWING NUMBER: 1



EXPLANATION:

—UNK—	UNKNOWN PIPE
—X—	FENCE
⊗	STORM DRAIN
●	MAGNETIC ANOMALY INDICATING BURIED METAL

Magnetic Contour Map- Rocketship Public School
Lick Avenue
San Jose, CA

SCALE: 1" = 40'			DRAWN BY: J.J.R.
DATE: 8-27-2012	JOB NUMBER:	151-010-12	REVISED:

J R Associates Civil and Environmental Geophysics
1886 Emory Street, San Jose, CA (408) 293-7390

DRAWING NUMBER: 2

APPENDIX B – SAMPLING PROTOCOL AND LOGS

Subsurface Investigation. Our field engineer directed a subsurface investigation, continuously logged in general accordance with the Unified Soil Classification System (ASTM D-2487), and sampled the exploratory borings. The borings were advanced using limited access direct push technology using the dual wall sampling system. The dual wall sampling system helps prevent cross contamination between sampling intervals. The dual wall sampler is comprised of two main components: an exterior steel casing and an inner sample barrel. The outer casing has a 2-inch outer diameter (OD) and a 1.5-inch inner diameter (ID). The sample barrel is 5 feet in length with a 1.375-inch outside diameter (OD) and a 1-inch inner diameter (ID). The dual wall sample barrel is loaded with a 5-foot acetate liner and installed inside the outer casing. The outer drive casing and inner sample barrel are then hydraulically pushed to a depth of approximately 5 feet. As these tools are advanced, the inner sampling barrel collects the soil core sample. This sampler is then retrieved while the outer casing remains in place, protecting the integrity of the hole. A new sampler is lowered into place and advanced another 5 feet to collect the next soil sample. This process continues until a desired depth has been reached. The borings were advanced approximately 5 feet into the first water yielding zone. All borings were tremmie grouted upon completion.

Equipment Decontamination. All sampling equipment was cleaned in a solution of laboratory grade detergent and steam cleaned prior to use at each sample point.

Soil Cuttings and Cleaning Rinsate. All soil cuttings and cleaning rinsate were stored on-Site in a DOT approved 55-gallon drum.

BORING NUMBER SB-1

CORNERSTONE EARTH GROUP

PROJECT NAME Rocketship - Tamien
PROJECT NUMBER 465-4-3
PROJECT LOCATION San Jose, CA
GROUND ELEVATION _____ **BORING DEPTH** 5 ft.
LATITUDE _____ **LONGITUDE** _____
GROUND WATER LEVELS:
AT TIME OF DRILLING Not Encountered
AT END OF DRILLING Not Encountered

DATE STARTED 8/28/12 **DATE COMPLETED** 8/28/12
DRILLING CONTRACTOR Penecore
DRILLING METHOD Direct Push - Dual Wall Sampling System
LOGGED BY RAM
NOTES

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Notes
	0		**Clayey Sand w/gravel (SP) [Fill]** dense, dry, gray, fine to coarse sand, fine gravel							
			Sandy Clay w/gravel (CL) stiff, moist, brown, fine to medium sand, some fine gravel				50	0	None	
	5		Bottom of Boring at 5.0 feet.							
	10									
	15									
	20									
	25									

REGISTERED PROFESSIONAL ENGINEER
KURT M. SOENEN
63615
EXP. 9/30/14
CIVIL
STATE OF CALIFORNIA

CORNERSTONE GE LOG DEC192007 - CORNERSTONE 0812.GDT - 9/24/12 14:41 - P:\DRAFTING\GINT FILES\465-4-3 ROCKETSHIP TAMIEN GE.GPJ

BORING NUMBER SB-2

CORNERSTONE EARTH GROUP

PROJECT NAME Rocketship - Tamien
PROJECT NUMBER 465-4-3
PROJECT LOCATION San Jose, CA
GROUND ELEVATION _____ **BORING DEPTH** 5 ft.
LATITUDE _____ **LONGITUDE** _____
GROUND WATER LEVELS:
AT TIME OF DRILLING Not Encountered
AT END OF DRILLING Not Encountered

DATE STARTED 8/28/12 **DATE COMPLETED** 8/28/12
DRILLING CONTRACTOR Penecore
DRILLING METHOD Direct Push - Dual Wall Sampling System
LOGGED BY RAM
NOTES

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Notes
	0		**Sandy Clay w/gravel (CL) [Fill]** stiff, moist, brown, fine to medium sand, some fine gravel				60	0	None	
			Clay (CL) stiff, moist, brown							
	5		Bottom of Boring at 5.0 feet.							
	10									
	15									
	20									
	25									

REGISTERED PROFESSIONAL ENGINEER
KURT M. SOENEN
63615
EXP. 9/30/14
CIVIL
STATE OF CALIFORNIA

BORING NUMBER SB-3

CORNERSTONE EARTH GROUP

PROJECT NAME Rocketship - Tamien
PROJECT NUMBER 465-4-3
PROJECT LOCATION San Jose, CA
GROUND ELEVATION _____ **BORING DEPTH** 22 ft.
LATITUDE _____ **LONGITUDE** _____
GROUND WATER LEVELS:
AT TIME OF DRILLING Not Encountered
AT END OF DRILLING Not Encountered

DATE STARTED 8/28/12 **DATE COMPLETED** 8/28/12
DRILLING CONTRACTOR Penecore
DRILLING METHOD Direct Push - Dual Wall Sampling System
LOGGED BY RAM
NOTES

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Notes
	0		**Sandy Clay (CL) [Fill]** medium stiff, moist, brown, fine to coarse sand, trace gravel from 0' to 1'				80	0	None	
	5		**Clayey Sand w/gravel (SC)** dense, moist, brown, fine to coarse sand, poor sample recovery				30	0	None	
	10		**Sandy Clay (CL)** stiff,moist, dark brown, fine sand				30	0	None	
	15		**Clay (CL)** stiff, moist, gray/red mottleds				80	0	None	
	20						100	0	None	
			Bottom of Boring at 22.0 feet.							
	25									

REGISTERED PROFESSIONAL ENGINEER KURT M. SOENEN 63615 EXP. 9/30/14 CIVIL STATE OF CALIFORNIA

CORNERSTONE GE LOG DEC192007 - CORNERSTONE 0812.GDT - 8/24/12 14:41 - P:\DRAFTING\GINT FILES\465-4-3 ROCKETSHIP TAMIEN GE.GPJ

BORING NUMBER SB-4

CORNERSTONE EARTH GROUP

PROJECT NAME Rocketship - Tamien
PROJECT NUMBER 465-4-3
PROJECT LOCATION San Jose, CA

DATE STARTED 8/28/12 **DATE COMPLETED** 8/28/12
GROUND ELEVATION **BORING DEPTH** 5 ft.
DRILLING CONTRACTOR Penecore
LATITUDE **LONGITUDE**
DRILLING METHOD Direct Push - Dual Wall Sampling System
GROUND WATER LEVELS:
LOGGED BY RAM
AT TIME OF DRILLING Not Encountered
NOTES
AT END OF DRILLING Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Notes
	0		**Sandy Clay (CL) [Fill]** stiff, moist, gray/brown, fine to medium sand							
			Clayey Sand (SC) [Fill] dense, moist, gray, fine to coarse sand				75	0	None	
			Sandy Clay w/gravel (CL) [Fill] stiff, moist, brown, fine to coarse sand							
	5		Bottom of Boring at 5.0 feet.							
	10									
	15									
	20									
	25									

REGISTERED PROFESSIONAL ENGINEER
KURT M. SOENEN
63615
EXP. 9/30/14
CIVIL
STATE OF CALIFORNIA

CORNERSTONE GE LOG DEC192007 - CORNERSTONE 0812.GDT - 9/24/12 14:41 - P:\DRAFTING\GINT FILES\465-4-3 ROCKETSHIP TAMIEN GE.GPJ

BORING NUMBER SB-5

CORNERSTONE EARTH GROUP

PROJECT NAME Rocketship - Tamien
PROJECT NUMBER 465-4-3
PROJECT LOCATION San Jose, CA
GROUND ELEVATION _____ **BORING DEPTH** 5 ft.
LATITUDE _____ **LONGITUDE** _____
GROUND WATER LEVELS:
AT TIME OF DRILLING Not Encountered
AT END OF DRILLING Not Encountered

DATE STARTED 8/28/12 **DATE COMPLETED** 8/28/12
DRILLING CONTRACTOR Penecore
DRILLING METHOD Direct Push - Dual Wall Sampling System
LOGGED BY RAM
NOTES

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Notes
	0		**Sandy Clay w/gravel (CL) [Fill]** stiff, moist, brown, fine to coarse sand				60	0	None	
	5		Bottom of Boring at 5.0 feet.							
	10									
	15									
	20									
	25									

REGISTERED PROFESSIONAL ENGINEER
KURT M. SOENEN
63615
EXP. 9/30/14
CIVIL
STATE OF CALIFORNIA

BORING NUMBER SB-6

CORNERSTONE EARTH GROUP

PROJECT NAME Rocketship - Tamien
PROJECT NUMBER 465-4-3
PROJECT LOCATION San Jose, CA
GROUND ELEVATION _____ **BORING DEPTH** 5 ft.
LATITUDE _____ **LONGITUDE** _____
GROUND WATER LEVELS:
AT TIME OF DRILLING Not Encountered
AT END OF DRILLING Not Encountered

DATE STARTED 8/28/12 **DATE COMPLETED** 8/28/12
DRILLING CONTRACTOR Penecore
DRILLING METHOD Direct Push - Dual Wall Sampling System
LOGGED BY RAM
NOTES

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Notes
	0		**Sandy Clay w/gravel (CL) [Fill]** stiff, moist, brown, fine to coarse sand, trace fine gravel							
			Clay (CL) stiff,moist, brown				60	0	None	
	5		Bottom of Boring at 5.0 feet.							
	10									
	15									
	20									
	25									

REGISTERED PROFESSIONAL ENGINEER
KURT M. SOENEN
63615
EXP. 9/30/14
CIVIL
STATE OF CALIFORNIA

CORNERSTONE GE LOG DEC192007 - CORNERSTONE 0812.GDT - 9/24/12 14:41 - P:\DRAFTING\GINT FILES\465-4-3 ROCKETSHIP TAMIEN GE.GPJ

BORING NUMBER SB-7

CORNERSTONE EARTH GROUP

PROJECT NAME Rocketship - Tamien
PROJECT NUMBER 465-4-3
PROJECT LOCATION San Jose, CA
GROUND ELEVATION _____ **BORING DEPTH** 24 ft.
LATITUDE _____ **LONGITUDE** _____
GROUND WATER LEVELS:
AT TIME OF DRILLING Not Encountered
AT END OF DRILLING Not Encountered

DATE STARTED 8/28/12 **DATE COMPLETED** 8/28/12
DRILLING CONTRACTOR Penecore
DRILLING METHOD Direct Push - Dual Wall Sampling System
LOGGED BY RAM
NOTES _____

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Notes
	0		**Sandy Clay w/gravel (CL)[Fill]** loose, dry, brown, fine to coarse sand, some fine gravel							
			Sandy Clay (CL) stiff, moist, brown, fine to medium sand				60	0	None	
	5						80	0	None	
	10		**Clay (CL)** Stiff, moist, brown/gray				100	0	None	
	15						100	0	None	
	20		transition to gray/green at 20 feet				100	0	None	
			Bottom of Boring at 24.0 feet.							
	25									

REGISTERED PROFESSIONAL ENGINEER KURT M. SOENEN 63615 EXP. 9/30/14 CIVIL STATE OF CALIFORNIA

CORNERSTONE GE LOG DEC192007 - CORNERSTONE 0812.GDT - 9/24/12 14:41 - P:\DRAFTING\GINT FILES\465-4-3 ROCKETSHIP TAMIEN GE.GPJ

BORING NUMBER SB-8

CORNERSTONE EARTH GROUP

PROJECT NAME Rocketship - Tamien
PROJECT NUMBER 465-4-3
PROJECT LOCATION San Jose, CA

DATE STARTED 8/28/12 **DATE COMPLETED** 8/28/12
GROUND ELEVATION **BORING DEPTH** 20 ft.
DRILLING CONTRACTOR Penecore
LATITUDE **LONGITUDE**
DRILLING METHOD Direct Push - Dual Wall Sampling System
GROUND WATER LEVELS:
LOGGED BY RAM
AT TIME OF DRILLING Not Encountered
NOTES
AT END OF DRILLING Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Notes
	0		**Sandy Clay (CL)[Fill]** loose, dry, brown, fine to coarse sand							
			Sandy Clay (CL) stiff, moist, brown, fine to medium sand				75	0	None	
	5		sandy gravel from 7 to 7.5 feet				75	0	None	
	10						60	0	None	
			Poorly Graded Sand (SP) medium dense, moist, brown, fine to coarse sand, some fine gravel							
	15		**Sandy Clay (CL)** stiff, moist, gray, fine sand				75	0	None	
			Clay (CL) stiff, moist, gray							
	20		Bottom of Boring at 20.0 feet.							
	25									

REGISTERED PROFESSIONAL ENGINEER KURT M. SOENEN 63615 EXP. 9/30/14 CIVIL STATE OF CALIFORNIA

CORNERSTONE GE LOG DEC192007 - CORNERSTONE 0812.GDT - 9/24/12 14:41 - P:\DRAFTING\GINT FILES\465-4-3 ROCKETSHIP TAMIEN GE.GPJ

BORING NUMBER SB-9

CORNERSTONE EARTH GROUP

PROJECT NAME Rocketship - Tamien
PROJECT NUMBER 465-4-3
PROJECT LOCATION San Jose, CA
GROUND ELEVATION _____ **BORING DEPTH** 20 ft.
LATITUDE _____ **LONGITUDE** _____
GROUND WATER LEVELS:
AT TIME OF DRILLING Not Encountered
AT END OF DRILLING Not Encountered

DATE STARTED 8/28/12 **DATE COMPLETED** 8/28/12
DRILLING CONTRACTOR Penecore
DRILLING METHOD Direct Push - Dual Wall Sampling System
LOGGED BY RAM
NOTES _____

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Notes
	0		**Sandy Clay (CL) [Fill]** loose, dry, brown, fine to medium sand				75	0	None	
	5		**Clay (CL)** stiff, moist, brown				75	0	None	
	10		**Clayey Sand (SC)** dense, moist, fine to coarse sand							
	15		**Clay (CL)** stiff, moist, brown to gray				75	0	None	
							100	0	None	
	20		Bottom of Boring at 20.0 feet.							
	25									

REGISTERED PROFESSIONAL ENGINEER
KURT M. SOENEN
63615
EXP. 9/30/14
CIVIL
STATE OF CALIFORNIA

BORING NUMBER SB-10

CORNERSTONE EARTH GROUP

PROJECT NAME Rocketship - Tamien
PROJECT NUMBER 465-4-3
PROJECT LOCATION San Jose, CA
GROUND ELEVATION _____ **BORING DEPTH** 25 ft.
LATITUDE _____ **LONGITUDE** _____
GROUND WATER LEVELS:
AT TIME OF DRILLING Not Encountered
AT END OF DRILLING Not Encountered

DATE STARTED 8/28/12 **DATE COMPLETED** 8/28/12
DRILLING CONTRACTOR Penecore
DRILLING METHOD Direct Push - Dual Wall Sampling System
LOGGED BY RAM
NOTES

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Notes
	0		**Sandy Clay (CL) [Fill]** loose, dry, brown, fine to coarse sand				60	0	None	
			Sandy Clay (CL) stiff, moist, brown, fine to medium sand, fine and coarse gravel 7 to 7.5 feet				60	0	None	
	5									
	10		**Clay (CL)** stiff, moist, brown to gray with red mottles				60	0	None	
	15						100	0	None	
	20						80	0	None	
	25		Bottom of Boring at 25.0 feet.							

REGISTERED PROFESSIONAL ENGINEER KURT M. SOENEN 63615 EXP. 9/30/14 CIVIL STATE OF CALIFORNIA

Soil Vapor Well SV-1

CORNERSTONE EARTH GROUP

PROJECT NAME Rocketship - Tamien
PROJECT NUMBER 465-4-3
PROJECT LOCATION San Jose, CA
DATE STARTED 8/28/12 **DATE COMPLETED** 8/28/12
GROUND ELEVATION **BORING DEPTH** 9.8 ft.
DRILLING CONTRACTOR Penecore Drilling, Inc.
BORING DIAMETER 0.2 ft
DRILLING METHOD Direct Push - Dual Wall Sampling System
GROUND WATER LEVELS:
LOGGED BY RAM
AT TIME OF DRILLING Not Encountered
PERMIT NUMBER **INSPECTOR**
AT END OF DRILLING Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	Sample Type	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration
	0.0		**Sandy Clay w/gravel (CL)[Fill]** loose, dry, brown, fine to coarse sand, some fine gravel				
	2.5		**Sandy Clay (CL)** stiff, moist, brown, fine to medium sand		60		None
	5.0						
	7.5				80		None
	10.0		Vapor Well SV-1 was installed near exploratory boring SB-7. Soil lithology is based on observations from SB-7. Bottom of Boring at 9.8 feet.				
	12.5						

Well Details

REGISTERED PROFESSIONAL ENGINEER
KURT M. SOENEN
63615
EXP. 9/30/14
CIVIL
STATE OF CALIFORNIA

CORNERSTONE GE WELL LOG - CORNERSTONE 0812.GDT - 9/26/12 11:01 - P:\DRAFTING\GINT FILES\465-4-3 TAMIEN GE SV WELLS.GPJ

Soil Vapor Well SV-2

CORNERSTONE EARTH GROUP

PROJECT NAME Rocketship - Tamien
PROJECT NUMBER 465-4-3
PROJECT LOCATION San Jose, CA
GROUND ELEVATION _____ **BORING DEPTH** 10 ft.
BORING DIAMETER 0.2 ft
GROUND WATER LEVELS:
AT TIME OF DRILLING Not Encountered
AT END OF DRILLING Not Encountered

DATE STARTED 8/28/12 **DATE COMPLETED** 8/28/12
DRILLING CONTRACTOR Penecore Drilling, Inc.
DRILLING METHOD Direct Push - Dual Wall Sampling System
LOGGED BY RAM
PERMIT NUMBER _____ **INSPECTOR** _____

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	Sample Type	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration
	0.0		**Sandy Clay (CL)[Fill]** loose, dry, brown, fine to coarse sand				
	2.5		**Sandy Clay (CL)** stiff, moist, brown, fine to medium sand		50		None
	5.0						
	7.5				60		None
	10.0		Vapor Well SV-2 was installed near exploratory boring SB-8.Soil lithology based on observations from SB-8. Bottom of Boring at 10.0 feet.				
	12.5						

Well Details

REGISTERED PROFESSIONAL ENGINEER
KURT M. SOENEN
63615
EXP. 9/30/14
CIVIL
STATE OF CALIFORNIA

CORNERSTONE GE WELL LOG - CORNERSTONE 0812.GDT - 9/26/12 11:01 - P:\DRAFTING\GINT FILES\465-4-3 TAMIEN GE SV WELLS.GPJ

APPENDIX C – ANALYTICAL DATA SHEETS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-44232-1
Client Project/Site: Rocketship-Tamien

For:
Cornerstone Earth Group
1259 Oakmead Parkway
Sunnyvale, California 94085

Attn: Kurt Soenen

Authorized for release by:
9/5/2012 6:10:30 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-44232-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-44232-1

Comments
No additional comments.

Receipt
The samples were received on 8/28/2012 7:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3º C.

Except:

SB-10 (4-4 1/2) is marked for analysis and hold. Logged on hold.

GC/MS VOA

Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following sample 44232-9,15,17,22 and 27. The sample(s) shows evidence of matrix interference and confirmed by reanalysis.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 8270C SIM: The following sample(s) was diluted due to the abundance of non-target analytes: SB-4 (1-1 1/2') (720-44232-41), SB-6 (1-1 1/2') (720-44232-32). Elevated reporting limits (RLs) are provided.

Method(s) 8270C SIM: Due to the high concentration of target compounds, the matrix spike / matrix spike duplicate (MS/MSD) for batch #120057 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 8270C SIM: The following sample(s) was diluted due to the abundance of non-target analytes: SB-10 (1-1 1/2) (720-44232-14), SB-9 (2-2 1/2') (720-44232-27). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: (720-44227-33 MS), (720-44227-33 MSD), S1,2,3,4-0-6 (720-44227-33).

Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: SB-5 (1-1 1/2') (720-44232-35), SB-5 (4-4 1/2') (720-44232-37).

Method(s) 8082: The continuing calibration verification (CCV) associated with batch 120047 recovered above the upper control limit for DCB. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (MB 720-120061/1-A), CS-EX-NR-14-WWS2-5 (720-44261-1).

Method(s) 8082: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: SB-5 (4-4 1/2') (720-44232-37).

No other analytical or quality issues were noted.

Job ID: 720-44232-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Metals

No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-7 (1/2-1 1/2) — Lab Sample ID: 720-44232-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	10		5.0		ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	8.2		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
4,4'-DDT	2.6		2.0		ug/Kg	1		8081A	Total/NA
Antimony	1.0		0.48		mg/Kg	1		6010B	Total/NA
Barium	24		0.48		mg/Kg	1		6010B	Total/NA
Chromium	77		0.48		mg/Kg	1		6010B	Total/NA
Cobalt	15		0.19		mg/Kg	1		6010B	Total/NA
Copper	5.4		1.4		mg/Kg	1		6010B	Total/NA
Lead	6.4		0.48		mg/Kg	1		6010B	Total/NA
Nickel	300		0.48		mg/Kg	1		6010B	Total/NA
Vanadium	7.8		0.48		mg/Kg	1		6010B	Total/NA
Zinc	15		1.4		mg/Kg	1		6010B	Total/NA
Mercury	0.88		0.0091		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-7 (2-2 1/2) — Lab Sample ID: 720-44232-2

No Detections

Client Sample ID: SB-7 (9-9 1/2) — Lab Sample ID: 720-44232-4

No Detections

Client Sample ID: SB-7 (14-14 1/2) — Lab Sample ID: 720-44232-5

No Detections

Client Sample ID: SB-8 (2-2 1/2) — Lab Sample ID: 720-44232-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	4.9		4.9		ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	13		4.9		ug/Kg	1		8270C SIM	Total/NA
Antimony	0.49		0.49		mg/Kg	1		6010B	Total/NA
Arsenic	1.3		0.98		mg/Kg	1		6010B	Total/NA
Barium	52		0.49		mg/Kg	1		6010B	Total/NA
Chromium	42		0.49		mg/Kg	1		6010B	Total/NA
Cobalt	6.5		0.20		mg/Kg	1		6010B	Total/NA
Copper	11		1.5		mg/Kg	1		6010B	Total/NA
Lead	1.7		0.49		mg/Kg	1		6010B	Total/NA
Nickel	56		0.49		mg/Kg	1		6010B	Total/NA
Vanadium	20		0.49		mg/Kg	1		6010B	Total/NA
Zinc	17		1.5		mg/Kg	1		6010B	Total/NA
Mercury	0.74		0.0088		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-8 (11-11 1/2) — Lab Sample ID: 720-44232-11

No Detections

Client Sample ID: SB-8 (14-14 1/2) — Lab Sample ID: 720-44232-12

No Detections

Client Sample ID: SB-8 (16-16 1/2) — Lab Sample ID: 720-44232-13

No Detections

Detection Summary

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-10 (1-1 1/2) — Lab Sample ID: 720-44232-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	12		9.8		ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	17		9.8		ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	27		9.8		ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	16		9.8		ug/Kg	2		8270C SIM	Total/NA
Chrysene	21		9.8		ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	40		9.8		ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	11		9.8		ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	22		9.8		ug/Kg	2		8270C SIM	Total/NA
Pyrene	47		9.8		ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	7.2		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Barium	16		0.49		mg/Kg	1		6010B	Total/NA
Chromium	31		0.49		mg/Kg	1		6010B	Total/NA
Cobalt	4.7		0.20		mg/Kg	1		6010B	Total/NA
Copper	29		1.5		mg/Kg	1		6010B	Total/NA
Lead	2.0		0.49		mg/Kg	1		6010B	Total/NA
Nickel	21		0.49		mg/Kg	1		6010B	Total/NA
Vanadium	15		0.49		mg/Kg	1		6010B	Total/NA
Zinc	9.3		1.5		mg/Kg	1		6010B	Total/NA
Mercury	0.56		0.0098		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-10 (2-2 1/2) — Lab Sample ID: 720-44232-15

No Detections

Client Sample ID: SB-10 (4-4 1/2) — Lab Sample ID: 720-44232-16

No Detections

Client Sample ID: SB-10 (9 1/2-10) — Lab Sample ID: 720-44232-17

No Detections

Client Sample ID: SB-10 (17-17 1/2) — Lab Sample ID: 720-44232-18

No Detections

Client Sample ID: SB-3 (1-1 1/2) — Lab Sample ID: 720-44232-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	7.2		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Arsenic	5.7		4.0		mg/Kg	4		6010B	Total/NA
Barium	260		2.0		mg/Kg	4		6010B	Total/NA
Chromium	130		2.0		mg/Kg	4		6010B	Total/NA
Cobalt	22		0.79		mg/Kg	4		6010B	Total/NA
Copper	41		5.9		mg/Kg	4		6010B	Total/NA
Lead	18		2.0		mg/Kg	4		6010B	Total/NA
Nickel	190		2.0		mg/Kg	4		6010B	Total/NA
Vanadium	65		2.0		mg/Kg	4		6010B	Total/NA
Zinc	78		5.9		mg/Kg	4		6010B	Total/NA
Mercury	1.5		0.0097		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-3 (2-2 1/2) — Lab Sample ID: 720-44232-21

No Detections

Client Sample ID: SB-3 (4-4 1/2) — Lab Sample ID: 720-44232-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	5.7		4.9		ug/Kg	1		8270C SIM	Total/NA
Antimony	2.1		1.9		mg/Kg	4		6010B	Total/NA
Barium	87		1.9		mg/Kg	4		6010B	Total/NA
Chromium	150		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	19		0.77		mg/Kg	4		6010B	Total/NA
Copper	26		5.8		mg/Kg	4		6010B	Total/NA
Lead	3.6		1.9		mg/Kg	4		6010B	Total/NA
Nickel	180		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	69		1.9		mg/Kg	4		6010B	Total/NA
Zinc	49		5.8		mg/Kg	4		6010B	Total/NA
Mercury	0.14		0.0098		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-3 (2-2 1/2) — Lab Sample ID: 720-44232-23

No Detections

Client Sample ID: SB-3 (14 1/2-15) — Lab Sample ID: 720-44232-24

No Detections

Client Sample ID: SB-3 (16 1/2-17') — Lab Sample ID: 720-44232-25

No Detections

Client Sample ID: SB-9 (2-2 1/2') — Lab Sample ID: 720-44232-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	74		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	100		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	150		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	70		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	49		25		ug/Kg	5		8270C SIM	Total/NA
Chrysene	80		25		ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	92		25		ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	60		25		ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	27		25		ug/Kg	5		8270C SIM	Total/NA
Pyrene	85		25		ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	71		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	270		150		mg/Kg	3		8015B	Silica Gel Cleanup
PCB-1260	710		240		ug/Kg	5		8082	Total/NA

Client Sample ID: SB-9 (4-4 1/2') — Lab Sample ID: 720-44232-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.6		3.9		mg/Kg	4		6010B	Total/NA
Barium	220		2.0		mg/Kg	4		6010B	Total/NA
Beryllium	0.41		0.39		mg/Kg	4		6010B	Total/NA
Chromium	140		2.0		mg/Kg	4		6010B	Total/NA
Cobalt	26		0.78		mg/Kg	4		6010B	Total/NA

Client Sample ID: SB-9 (4-4 1/2') (Continued) — Lab Sample ID: 720-44232-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	45		5.9		mg/Kg	4		6010B	Total/NA
Lead	6.9		2.0		mg/Kg	4		6010B	Total/NA
Nickel	210		2.0		mg/Kg	4		6010B	Total/NA
Vanadium	73		2.0		mg/Kg	4		6010B	Total/NA
Zinc	67		5.9		mg/Kg	4		6010B	Total/NA
Mercury	0.76		0.0095		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-9 (8-8 1/2') — Lab Sample ID: 720-44232-29

No Detections

Client Sample ID: SB-9 (11 1/2-12') — Lab Sample ID: 720-44232-30

No Detections

Client Sample ID: SB-9 (17-17 1/2') — Lab Sample ID: 720-44232-31

No Detections

Client Sample ID: SB-6 (1-1 1/2') — Lab Sample ID: 720-44232-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	32		25		ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	19		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	70		50		mg/Kg	1		8015B	Silica Gel Cleanup
4,4'-DDT	4.7		2.0		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	3.9		2.0		ug/Kg	1		8081A	Total/NA
gamma-Chlordane	3.2		2.0		ug/Kg	1		8081A	Total/NA
Arsenic	10		3.9		mg/Kg	4		6010B	Total/NA
Barium	200		2.0		mg/Kg	4		6010B	Total/NA
Chromium	130		2.0		mg/Kg	4		6010B	Total/NA
Cobalt	22		0.78		mg/Kg	4		6010B	Total/NA
Copper	67		5.9		mg/Kg	4		6010B	Total/NA
Lead	21		2.0		mg/Kg	4		6010B	Total/NA
Nickel	160		2.0		mg/Kg	4		6010B	Total/NA
Vanadium	78		2.0		mg/Kg	4		6010B	Total/NA
Zinc	95		5.9		mg/Kg	4		6010B	Total/NA
Mercury	1.9		0.046		mg/Kg	5		7471A	Total/NA

Client Sample ID: SB-5 (1-1 1/2') — Lab Sample ID: 720-44232-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	64		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	320		250		mg/Kg	5		8015B	Silica Gel Cleanup
4,4'-DDT	3.7		2.0		ug/Kg	1		8081A	Total/NA
Arsenic	7.4		3.9		mg/Kg	4		6010B	Total/NA
Barium	140		1.9		mg/Kg	4		6010B	Total/NA
Chromium	61		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	15		0.78		mg/Kg	4		6010B	Total/NA
Copper	56		5.8		mg/Kg	4		6010B	Total/NA
Lead	15		1.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: SB-5 (1-1 1/2') (Continued) — Lab Sample ID: 720-44232-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	89		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	52		1.9		mg/Kg	4		6010B	Total/NA
Zinc	61		5.8		mg/Kg	4		6010B	Total/NA
Mercury	1.5		0.0097		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-5 (4-4 1/2') — Lab Sample ID: 720-44232-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	120		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	640		250		mg/Kg	5		8015B	Silica Gel Cleanup
4,4'-DDT	14		9.8		ug/Kg	5		8081A	Total/NA
alpha-Chlordane	22		9.8		ug/Kg	5		8081A	Total/NA
gamma-Chlordane	20		9.8		ug/Kg	5		8081A	Total/NA
PCB-1254	1500		490		ug/Kg	10		8082	Total/NA
Arsenic	7.4		3.9		mg/Kg	4		6010B	Total/NA
Barium	170		1.9		mg/Kg	4		6010B	Total/NA
Chromium	85		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	14		0.78		mg/Kg	4		6010B	Total/NA
Copper	95		5.8		mg/Kg	4		6010B	Total/NA
Lead	240		1.9		mg/Kg	4		6010B	Total/NA
Nickel	130		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	43		1.9		mg/Kg	4		6010B	Total/NA
Zinc	290		5.8		mg/Kg	4		6010B	Total/NA
Mercury	9.7		0.17		mg/Kg	20		7471A	Total/NA

Client Sample ID: SB-2 (1-1 1/2') — Lab Sample ID: 720-44232-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	15		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	65		49		mg/Kg	1		8015B	Silica Gel Cleanup
Arsenic	6.9		4.0		mg/Kg	4		6010B	Total/NA
Barium	220		2.0		mg/Kg	4		6010B	Total/NA
Chromium	140		2.0		mg/Kg	4		6010B	Total/NA
Cobalt	24		0.79		mg/Kg	4		6010B	Total/NA
Copper	53		5.9		mg/Kg	4		6010B	Total/NA
Lead	13		2.0		mg/Kg	4		6010B	Total/NA
Nickel	200		2.0		mg/Kg	4		6010B	Total/NA
Vanadium	74		2.0		mg/Kg	4		6010B	Total/NA
Zinc	82		5.9		mg/Kg	4		6010B	Total/NA
Mercury	1.4		0.010		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-2 (2-2 1/2') — Lab Sample ID: 720-44232-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	92		4.9		ug/Kg	1		8270C SIM	Total/NA
Anthracene	32		4.9		ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	120		4.9		ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	220		4.9		ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	270		4.9		ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	130		4.9		ug/Kg	1		8270C SIM	Total/NA

Client Sample ID: SB-2 (2-2 1/2') (Continued) — Lab Sample ID: 720-44232-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	100		4.9		ug/Kg	1		8270C SIM	Total/NA
Chrysene	220		4.9		ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	21		4.9		ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	600		4.9		ug/Kg	1		8270C SIM	Total/NA
Fluorene	20		4.9		ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	110		4.9		ug/Kg	1		8270C SIM	Total/NA
Naphthalene	140		4.9		ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	510		4.9		ug/Kg	1		8270C SIM	Total/NA
Pyrene	650		4.9		ug/Kg	1		8270C SIM	Total/NA

Client Sample ID: SB-2 (4-4 1/2') — Lab Sample ID: 720-44232-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.6		4.0		mg/Kg	4		6010B	Total/NA
Barium	300		2.0		mg/Kg	4		6010B	Total/NA
Beryllium	0.50		0.40		mg/Kg	4		6010B	Total/NA
Chromium	170		2.0		mg/Kg	4		6010B	Total/NA
Cobalt	30		0.79		mg/Kg	4		6010B	Total/NA
Copper	52		5.9		mg/Kg	4		6010B	Total/NA
Lead	7.9		2.0		mg/Kg	4		6010B	Total/NA
Nickel	240		2.0		mg/Kg	4		6010B	Total/NA
Vanadium	83		2.0		mg/Kg	4		6010B	Total/NA
Zinc	79		5.9		mg/Kg	4		6010B	Total/NA
Mercury	17		0.20		mg/Kg	20		7471A	Total/NA

Client Sample ID: SB-4 (1-1 1/2') — Lab Sample ID: 720-44232-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	66		49		ug/Kg	10		8270C SIM	Total/NA
Benzo[g,h,i]perylene	62		49		ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	110		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	390		150		mg/Kg	3		8015B	Silica Gel Cleanup
4,4'-DDT	3.5		1.9		ug/Kg	1		8081A	Total/NA
PCB-1260	49		49		ug/Kg	1		8082	Total/NA
Arsenic	5.4		3.8		mg/Kg	4		6010B	Total/NA
Barium	150		1.9		mg/Kg	4		6010B	Total/NA
Chromium	91		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	18		0.77		mg/Kg	4		6010B	Total/NA
Copper	35		5.8		mg/Kg	4		6010B	Total/NA
Lead	18		1.9		mg/Kg	4		6010B	Total/NA
Nickel	120		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	53		1.9		mg/Kg	4		6010B	Total/NA
Zinc	66		5.8		mg/Kg	4		6010B	Total/NA
Mercury	0.97		0.0097		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-4 (2-2 1/2') — Lab Sample ID: 720-44232-42

No Detections

Client Sample ID: SB-1 (2-2 1/2') — Lab Sample ID: 720-44232-44

Client Sample ID: SB-1 (2-2 1/2') (Continued) — Lab Sample ID: 720-44232-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	5.9		4.9		ug/Kg	1		8270C SIM	Total/NA

Client Sample ID: SB-1 (4-4 1/2') — Lab Sample ID: 720-44232-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.3		2.0		mg/Kg	4		6010B	Total/NA
Arsenic	4.6		3.9		mg/Kg	4		6010B	Total/NA
Barium	180		2.0		mg/Kg	4		6010B	Total/NA
Chromium	150		2.0		mg/Kg	4		6010B	Total/NA
Cobalt	24		0.78		mg/Kg	4		6010B	Total/NA
Copper	39		5.9		mg/Kg	4		6010B	Total/NA
Lead	10		2.0		mg/Kg	4		6010B	Total/NA
Nickel	210		2.0		mg/Kg	4		6010B	Total/NA
Vanadium	70		2.0		mg/Kg	4		6010B	Total/NA
Zinc	68		5.9		mg/Kg	4		6010B	Total/NA
Mercury	9.5		0.20		mg/Kg	20		7471A	Total/NA

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-7 (1/2-1 1/2)

Lab Sample ID: 720-44232-1

Date Collected: 08/28/12 08:15
Matrix: Solid
Date Received: 08/28/12 19:00

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		08/30/12 11:30	09/05/12 15:05	1
Acenaphthylene	ND		5.0		ug/Kg		08/30/12 11:30	09/05/12 15:05	1
Anthracene	ND		5.0		ug/Kg		08/30/12 11:30	09/05/12 15:05	1
Benzo[a]anthracene	ND		5.0		ug/Kg		08/30/12 11:30	09/05/12 15:05	1
Benzo[a]pyrene	ND		5.0		ug/Kg		08/30/12 11:30	09/05/12 15:05	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		08/30/12 11:30	09/05/12 15:05	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		08/30/12 11:30	09/05/12 15:05	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		08/30/12 11:30	09/05/12 15:05	1
Chrysene	ND		5.0		ug/Kg		08/30/12 11:30	09/05/12 15:05	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		08/30/12 11:30	09/05/12 15:05	1
Fluoranthene	ND		5.0		ug/Kg		08/30/12 11:30	09/05/12 15:05	1
Fluorene	ND		5.0		ug/Kg		08/30/12 11:30	09/05/12 15:05	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		08/30/12 11:30	09/05/12 15:05	1
Naphthalene	ND		5.0		ug/Kg		08/30/12 11:30	09/05/12 15:05	1
Phenanthrene	**10**		5.0		ug/Kg		08/30/12 11:30	09/05/12 15:05	1
Pyrene	ND		5.0		ug/Kg		08/30/12 11:30	09/05/12 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*33 - 120*	*08/30/12 11:30*	*09/05/12 15:05*	*1*
Terphenyl-d14	*70*		*35 - 146*	*08/30/12 11:30*	*09/05/12 15:05*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**8.2**		1.0		mg/Kg		08/30/12 08:13	08/31/12 14:49	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/30/12 08:13	08/31/12 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.003*		*0 - 1*	*08/30/12 08:13*	*08/31/12 14:49*	*1*
p-Terphenyl	*87*		*38 - 148*	*08/30/12 08:13*	*08/31/12 14:49*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:10	1
Dieldrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:10	1
Endrin aldehyde	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:10	1
Endrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:10	1
Endrin ketone	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:10	1
Heptachlor	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:10	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:10	1
4,4'-DDT	**2.6**		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:10	1
4,4'-DDE	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:10	1
4,4'-DDD	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:10	1
Endosulfan I	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:10	1
Endosulfan II	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:10	1
alpha-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:10	1
beta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:10	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:10	1
delta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:10	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:10	1
Methoxychlor	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:10	1
Toxaphene	ND		39		ug/Kg		08/30/12 14:19	08/31/12 22:10	1
Chlordane (technical)	ND		39		ug/Kg		08/30/12 14:19	08/31/12 22:10	1

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-7 (1/2-1 1/2)

Date Collected: 08/28/12 08:15
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-1

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:10	1
gamma-Chlordane	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*34 - 110*	*08/30/12 14:19*	*08/31/12 22:10*	*1*
DCB Decachlorobiphenyl	*98*		*21 - 136*	*08/30/12 14:19*	*08/31/12 22:10*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		08/30/12 14:16	08/31/12 18:44	1
PCB-1221	ND		49		ug/Kg		08/30/12 14:16	08/31/12 18:44	1
PCB-1232	ND		49		ug/Kg		08/30/12 14:16	08/31/12 18:44	1
PCB-1242	ND		49		ug/Kg		08/30/12 14:16	08/31/12 18:44	1
PCB-1248	ND		49		ug/Kg		08/30/12 14:16	08/31/12 18:44	1
PCB-1254	ND		49		ug/Kg		08/30/12 14:16	08/31/12 18:44	1
PCB-1260	ND		49		ug/Kg		08/30/12 14:16	08/31/12 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*32 - 112*	*08/30/12 14:16*	*08/31/12 18:44*	*1*
DCB Decachlorobiphenyl	*81*		*2 - 122*	*08/30/12 14:16*	*08/31/12 18:44*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.0**		0.48		mg/Kg		08/30/12 16:51	08/31/12 19:01	1
Arsenic	ND		0.96		mg/Kg		08/30/12 16:51	08/31/12 19:01	1
Barium	**24**		0.48		mg/Kg		08/30/12 16:51	08/31/12 19:01	1
Beryllium	ND		0.096		mg/Kg		08/30/12 16:51	08/31/12 19:01	1
Cadmium	ND		0.12		mg/Kg		08/30/12 16:51	08/31/12 19:01	1
Chromium	**77**		0.48		mg/Kg		08/30/12 16:51	08/31/12 19:01	1
Cobalt	**15**		0.19		mg/Kg		08/30/12 16:51	08/31/12 19:01	1
Copper	**5.4**		1.4		mg/Kg		08/30/12 16:51	08/31/12 19:01	1
Lead	**6.4**		0.48		mg/Kg		08/30/12 16:51	08/31/12 19:01	1
Molybdenum	ND		0.48		mg/Kg		08/30/12 16:51	08/31/12 19:01	1
Nickel	**300**		0.48		mg/Kg		08/30/12 16:51	08/31/12 19:01	1
Selenium	ND		0.96		mg/Kg		08/30/12 16:51	08/31/12 19:01	1
Silver	ND		0.24		mg/Kg		08/30/12 16:51	08/31/12 19:01	1
Thallium	ND		0.48		mg/Kg		08/30/12 16:51	08/31/12 19:01	1
Vanadium	**7.8**		0.48		mg/Kg		08/30/12 16:51	08/31/12 19:01	1
Zinc	**15**		1.4		mg/Kg		08/30/12 16:51	08/31/12 19:01	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.88**		0.0091		mg/Kg		09/04/12 08:57	09/04/12 19:22	1

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-7 (2-2 1/2)
Date Collected: 08/28/12 08:20
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-2
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Acetone	ND		43		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Benzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Dichlorobromomethane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Bromobenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Chlorobromomethane	ND		17		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Bromoform	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Bromomethane	ND		8.6		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
2-Butanone (MEK)	ND		43		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
n-Butylbenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
sec-Butylbenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
tert-Butylbenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Carbon disulfide	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Carbon tetrachloride	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Chlorobenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Chloroethane	ND		8.6		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Chloroform	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Chloromethane	ND		8.6		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
2-Chlorotoluene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
4-Chlorotoluene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Chlorodibromomethane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
1,2-Dichlorobenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
1,3-Dichlorobenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
1,4-Dichlorobenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
1,3-Dichloropropane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
1,1-Dichloropropene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
1,2-Dibromo-3-Chloropropane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Ethylene Dibromide	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Dibromomethane	ND		8.6		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Dichlorodifluoromethane	ND		8.6		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
1,1-Dichloroethane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
1,2-Dichloroethane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
1,1-Dichloroethene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
cis-1,2-Dichloroethene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
trans-1,2-Dichloroethene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
1,2-Dichloropropane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
cis-1,3-Dichloropropene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
trans-1,3-Dichloropropene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Ethylbenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Hexachlorobutadiene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
2-Hexanone	ND		43		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Isopropylbenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
4-Isopropyltoluene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Methylene Chloride	ND		8.6		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
4-Methyl-2-pentanone (MIBK)	ND		43		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Naphthalene	ND		8.6		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
N-Propylbenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Styrene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
1,1,1,2-Tetrachloroethane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
1,1,2,2-Tetrachloroethane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Tetrachloroethene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-7 (2-2 1/2)

Date Collected: 08/28/12 08:20
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-2

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
1,2,3-Trichlorobenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
1,2,4-Trichlorobenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
1,1,1-Trichloroethane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
1,1,2-Trichloroethane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Trichloroethene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Trichlorofluoromethane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
1,2,3-Trichloropropane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
1,2,4-Trimethylbenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
1,3,5-Trimethylbenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Vinyl acetate	ND		43		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Vinyl chloride	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Xylenes, Total	ND		8.6		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
2,2-Dichloropropane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 16:50	1
Gasoline Range Organics (GRO) -C5-C12	ND		220		ug/Kg		08/29/12 14:45	08/29/12 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*84*		*45 - 131*	*08/29/12 14:45*	*08/29/12 16:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*	*08/29/12 14:45*	*08/29/12 16:50*	*1*
Toluene-d8 (Surr)	*98*		*58 - 140*	*08/29/12 14:45*	*08/29/12 16:50*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		08/30/12 08:13	08/31/12 15:13	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/30/12 08:13	08/31/12 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.006*		*0 - 1*	*08/30/12 08:13*	*08/31/12 15:13*	*1*
p-Terphenyl	*74*		*38 - 148*	*08/30/12 08:13*	*08/31/12 15:13*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		1.0		mg/Kg		08/30/12 17:30	08/31/12 13:04	1

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-7 (9-9 1/2)

Lab Sample ID: 720-44232-4

Date Collected: 08/28/12 08:45

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Acetone	ND		48		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Benzene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Dichlorobromomethane	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Bromobenzene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Chlorobromomethane	ND		19		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Bromoform	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Bromomethane	ND		9.6		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
2-Butanone (MEK)	ND		48		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
n-Butylbenzene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
sec-Butylbenzene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
tert-Butylbenzene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Carbon disulfide	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Carbon tetrachloride	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Chlorobenzene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Chloroethane	ND		9.6		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Chloroform	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Chloromethane	ND		9.6		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
2-Chlorotoluene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
4-Chlorotoluene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Chlorodibromomethane	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
1,3-Dichloropropane	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
1,1-Dichloropropene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Ethylene Dibromide	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Dibromomethane	ND		9.6		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
1,1-Dichloroethane	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
1,2-Dichloroethane	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
1,1-Dichloroethene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
1,2-Dichloropropane	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Ethylbenzene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Hexachlorobutadiene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
2-Hexanone	ND		48		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Isopropylbenzene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
4-Isopropyltoluene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Methylene Chloride	ND		9.6		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Naphthalene	ND		9.6		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
N-Propylbenzene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Styrene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Tetrachloroethene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-7 (9-9 1/2)

Lab Sample ID: 720-44232-4

Date Collected: 08/28/12 08:45

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Trichloroethene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Trichlorofluoromethane	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Vinyl acetate	ND		48		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Vinyl chloride	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Xylenes, Total	ND		9.6		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
2,2-Dichloropropane	ND		4.8		ug/Kg		08/29/12 14:45	08/29/12 17:18	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/29/12 14:45	08/29/12 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*45 - 131*	*08/29/12 14:45*	*08/29/12 17:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*	*08/29/12 14:45*	*08/29/12 17:18*	*1*
Toluene-d8 (Surr)	*100*		*58 - 140*	*08/29/12 14:45*	*08/29/12 17:18*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/30/12 08:13	08/31/12 16:02	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/30/12 08:13	08/31/12 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 1*	*08/30/12 08:13*	*08/31/12 16:02*	*1*
p-Terphenyl	*84*		*38 - 148*	*08/30/12 08:13*	*08/31/12 16:02*	*1*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-7 (14-14 1/2)

Lab Sample ID: 720-44232-5

Date Collected: 08/28/12 09:00
Matrix: Solid
Date Received: 08/28/12 19:00

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Acetone	ND		50		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Benzene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Bromobenzene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Chlorobromomethane	ND		20		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Bromoform	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Bromomethane	ND		10		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
2-Butanone (MEK)	ND		50		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
n-Butylbenzene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
sec-Butylbenzene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
tert-Butylbenzene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Carbon disulfide	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Chlorobenzene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Chloroethane	ND		10		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Chloroform	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Chloromethane	ND		10		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
2-Chlorotoluene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
4-Chlorotoluene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Dibromomethane	ND		10		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Dichlorodifluoromethane	ND		10		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Ethylbenzene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Hexachlorobutadiene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
2-Hexanone	ND		50		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Isopropylbenzene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
4-Isopropyltoluene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Methylene Chloride	ND		10		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Naphthalene	ND		10		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
N-Propylbenzene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Styrene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Tetrachloroethene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-7 (14-14 1/2)

Lab Sample ID: 720-44232-5

Date Collected: 08/28/12 09:00

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Trichloroethene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Trichlorofluoromethane	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Vinyl acetate	ND		50		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Vinyl chloride	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Xylenes, Total	ND		10		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/30/12 18:13	08/30/12 19:24	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/30/12 18:13	08/30/12 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*86*		*45 - 131*	*08/30/12 18:13*	*08/30/12 19:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*	*08/30/12 18:13*	*08/30/12 19:24*	*1*
Toluene-d8 (Surr)	*98*		*58 - 140*	*08/30/12 18:13*	*08/30/12 19:24*	*1*

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-8 (2-2 1/2)
Date Collected: 08/28/12 10:00
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-9
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Acetone	ND		50		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Benzene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Bromobenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Chlorobromomethane	ND		20		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Bromoform	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Bromomethane	ND		9.9		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
2-Butanone (MEK)	ND		50		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
n-Butylbenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
sec-Butylbenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
tert-Butylbenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Carbon disulfide	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Chlorobenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Chloroethane	ND		9.9		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Chloroform	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Chloromethane	ND		9.9		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
2-Chlorotoluene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
4-Chlorotoluene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Dibromomethane	ND		9.9		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Ethylbenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Hexachlorobutadiene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
2-Hexanone	ND		50		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Isopropylbenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
4-Isopropyltoluene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Methylene Chloride	ND		9.9		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Naphthalene	ND		9.9		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
N-Propylbenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Styrene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Tetrachloroethene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1

Client Sample ID: SB-8 (2-2 1/2)

Lab Sample ID: 720-44232-9

Date Collected: 08/28/12 10:00

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Trichloroethene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Trichlorofluoromethane	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Vinyl acetate	ND		50		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Vinyl chloride	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Xylenes, Total	ND		9.9		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/29/12 14:45	08/30/12 12:11	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/29/12 14:45	08/30/12 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*80*		*45 - 131*	*08/29/12 14:45*	*08/30/12 12:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*	*08/29/12 14:45*	*08/30/12 12:11*	*1*
Toluene-d8 (Surr)	*95*		*58 - 140*	*08/29/12 14:45*	*08/30/12 12:11*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:29	1
Acenaphthylene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:29	1
Anthracene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:29	1
Benzo[a]anthracene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:29	1
Benzo[a]pyrene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:29	1
Benzo[b]fluoranthene	**4.9**		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:29	1
Benzo[g,h,i]perylene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:29	1
Benzo[k]fluoranthene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:29	1
Chrysene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:29	1
Dibenz(a,h)anthracene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:29	1
Fluoranthene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:29	1
Fluorene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:29	1
Indeno[1,2,3-cd]pyrene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:29	1
Naphthalene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:29	1
Phenanthrene	**13**		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:29	1
Pyrene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*57*		*33 - 120*	*08/30/12 11:30*	*09/05/12 15:29*	*1*
Terphenyl-d14	*62*		*35 - 146*	*08/30/12 11:30*	*09/05/12 15:29*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/30/12 08:13	08/31/12 15:37	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/30/12 08:13	08/31/12 15:37	1

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-8 (2-2 1/2)

Date Collected: 08/28/12 10:00
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-9

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	*0.03*		*0 - 1*	*08/30/12 08:13*	*08/31/12 15:37*	*1*
p-Terphenyl	*70*		*38 - 148*	*08/30/12 08:13*	*08/31/12 15:37*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:29	1
Dieldrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:29	1
Endrin aldehyde	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:29	1
Endrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:29	1
Endrin ketone	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:29	1
Heptachlor	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:29	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:29	1
4,4'-DDT	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:29	1
4,4'-DDE	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:29	1
4,4'-DDD	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:29	1
Endosulfan I	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:29	1
Endosulfan II	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:29	1
alpha-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:29	1
beta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:29	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:29	1
delta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:29	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:29	1
Methoxychlor	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:29	1
Toxaphene	ND		39		ug/Kg		08/30/12 14:19	08/31/12 22:29	1
Chlordane (technical)	ND		39		ug/Kg		08/30/12 14:19	08/31/12 22:29	1
alpha-Chlordane	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:29	1
gamma-Chlordane	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*99*		*34 - 110*	*08/30/12 14:19*	*08/31/12 22:29*	*1*
DCB Decachlorobiphenyl	*81*		*21 - 136*	*08/30/12 14:19*	*08/31/12 22:29*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:01	1
PCB-1221	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:01	1
PCB-1232	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:01	1
PCB-1242	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:01	1
PCB-1248	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:01	1
PCB-1254	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:01	1
PCB-1260	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*73*		*32 - 112*	*08/30/12 14:16*	*08/31/12 19:01*	*1*
DCB Decachlorobiphenyl	*82*		*2 - 122*	*08/30/12 14:16*	*08/31/12 19:01*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.49**		0.49		mg/Kg		08/30/12 16:51	08/31/12 19:05	1
Arsenic	**1.3**		0.98		mg/Kg		08/30/12 16:51	08/31/12 19:05	1
Barium	**52**		0.49		mg/Kg		08/30/12 16:51	08/31/12 19:05	1
Beryllium	ND		0.098		mg/Kg		08/30/12 16:51	08/31/12 19:05	1
Cadmium	ND		0.12		mg/Kg		08/30/12 16:51	08/31/12 19:05	1

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-8 (2-2 1/2)

Lab Sample ID: 720-44232-9

Date Collected: 08/28/12 10:00

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	42		0.49		mg/Kg		08/30/12 16:51	08/31/12 19:05	1
Cobalt	6.5		0.20		mg/Kg		08/30/12 16:51	08/31/12 19:05	1
Copper	11		1.5		mg/Kg		08/30/12 16:51	08/31/12 19:05	1
Lead	1.7		0.49		mg/Kg		08/30/12 16:51	08/31/12 19:05	1
Molybdenum	ND		0.49		mg/Kg		08/30/12 16:51	08/31/12 19:05	1
Nickel	56		0.49		mg/Kg		08/30/12 16:51	08/31/12 19:05	1
Selenium	ND		0.98		mg/Kg		08/30/12 16:51	08/31/12 19:05	1
Silver	ND		0.25		mg/Kg		08/30/12 16:51	08/31/12 19:05	1
Thallium	ND		0.49		mg/Kg		08/30/12 16:51	08/31/12 19:05	1
Vanadium	20		0.49		mg/Kg		08/30/12 16:51	08/31/12 19:05	1
Zinc	17		1.5		mg/Kg		08/30/12 16:51	08/31/12 19:05	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.74		0.0088		mg/Kg		08/30/12 20:47	08/31/12 10:20	1

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-8 (11-11 1/2)
Date Collected: 08/28/12 10:20
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-11
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Acetone	ND		45		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Benzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Dichlorobromomethane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Bromobenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Chlorobromomethane	ND		18		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Bromoform	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Bromomethane	ND		9.0		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
2-Butanone (MEK)	ND		45		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
n-Butylbenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
sec-Butylbenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
tert-Butylbenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Carbon disulfide	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Carbon tetrachloride	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Chlorobenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Chloroethane	ND		9.0		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Chloroform	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Chloromethane	ND		9.0		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
2-Chlorotoluene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
4-Chlorotoluene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Chlorodibromomethane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
1,2-Dichlorobenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
1,3-Dichlorobenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
1,4-Dichlorobenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
1,3-Dichloropropane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
1,1-Dichloropropene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
1,2-Dibromo-3-Chloropropane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Ethylene Dibromide	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Dibromomethane	ND		9.0		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Dichlorodifluoromethane	ND		9.0		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
1,1-Dichloroethane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
1,2-Dichloroethane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
1,1-Dichloroethene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
cis-1,2-Dichloroethene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
trans-1,2-Dichloroethene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
1,2-Dichloropropane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
cis-1,3-Dichloropropene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
trans-1,3-Dichloropropene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Ethylbenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Hexachlorobutadiene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
2-Hexanone	ND		45		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Isopropylbenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
4-Isopropyltoluene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Methylene Chloride	ND		9.0		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
4-Methyl-2-pentanone (MIBK)	ND		45		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Naphthalene	ND		9.0		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
N-Propylbenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Styrene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
1,1,1,2-Tetrachloroethane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
1,1,2,2-Tetrachloroethane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Tetrachloroethene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-8 (11-11 1/2)

Lab Sample ID: 720-44232-11

Date Collected: 08/28/12 10:20
Matrix: Solid
Date Received: 08/28/12 19:00

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
1,2,3-Trichlorobenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
1,2,4-Trichlorobenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
1,1,1-Trichloroethane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
1,1,2-Trichloroethane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Trichloroethene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Trichlorofluoromethane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
1,2,3-Trichloropropane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
1,2,4-Trimethylbenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
1,3,5-Trimethylbenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Vinyl acetate	ND		45		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Vinyl chloride	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Xylenes, Total	ND		9.0		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
2,2-Dichloropropane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:16	1
Gasoline Range Organics (GRO) -C5-C12	ND		220		ug/Kg		08/29/12 14:45	08/29/12 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*45 - 131*	*08/29/12 14:45*	*08/29/12 18:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*	*08/29/12 14:45*	*08/29/12 18:16*	*1*
Toluene-d8 (Surr)	*100*		*58 - 140*	*08/29/12 14:45*	*08/29/12 18:16*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/30/12 08:13	08/31/12 16:26	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/30/12 08:13	08/31/12 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.1*		*0 - 1*	*08/30/12 08:13*	*08/31/12 16:26*	*1*
p-Terphenyl	*80*		*38 - 148*	*08/30/12 08:13*	*08/31/12 16:26*	*1*

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-8 (14-14 1/2)
Date Collected: 08/28/12 10:30
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-12
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Acetone	ND		50		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Benzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Bromobenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Chlorobromomethane	ND		20		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Bromoform	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Bromomethane	ND		9.9		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
2-Butanone (MEK)	ND		50		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
n-Butylbenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
sec-Butylbenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
tert-Butylbenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Carbon disulfide	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Chlorobenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Chloroethane	ND		9.9		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Chloroform	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Chloromethane	ND		9.9		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
2-Chlorotoluene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
4-Chlorotoluene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Dibromomethane	ND		9.9		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Ethylbenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Hexachlorobutadiene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
2-Hexanone	ND		50		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Isopropylbenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
4-Isopropyltoluene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Methylene Chloride	ND		9.9		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Naphthalene	ND		9.9		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
N-Propylbenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Styrene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Tetrachloroethene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-8 (14-14 1/2)

Date Collected: 08/28/12 10:30
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-12

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Trichloroethene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Trichlorofluoromethane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Vinyl acetate	ND		50		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Vinyl chloride	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Xylenes, Total	ND		9.9		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 04:43	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/29/12 20:15	08/30/12 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*86*		*45 - 131*	*08/29/12 20:15*	*08/30/12 04:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 140*	*08/29/12 20:15*	*08/30/12 04:43*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*	*08/29/12 20:15*	*08/30/12 04:43*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/30/12 08:13	09/04/12 23:41	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/30/12 08:13	09/04/12 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.06*		*0 - 1*	*08/30/12 08:13*	*09/04/12 23:41*	*1*
p-Terphenyl	*77*		*38 - 148*	*08/30/12 08:13*	*09/04/12 23:41*	*1*

Client Sample ID: SB-8 (16-16 1/2)

Lab Sample ID: 720-44232-13

Date Collected: 08/28/12 10:40

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Acetone	ND		45		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Benzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Dichlorobromomethane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Bromobenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Chlorobromomethane	ND		18		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Bromoform	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Bromomethane	ND		9.0		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
2-Butanone (MEK)	ND		45		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
n-Butylbenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
sec-Butylbenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
tert-Butylbenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Carbon disulfide	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Carbon tetrachloride	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Chlorobenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Chloroethane	ND		9.0		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Chloroform	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Chloromethane	ND		9.0		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
2-Chlorotoluene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
4-Chlorotoluene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Chlorodibromomethane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
1,2-Dichlorobenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
1,3-Dichlorobenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
1,4-Dichlorobenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
1,3-Dichloropropane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
1,1-Dichloropropene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
1,2-Dibromo-3-Chloropropane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Ethylene Dibromide	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Dibromomethane	ND		9.0		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Dichlorodifluoromethane	ND		9.0		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
1,1-Dichloroethane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
1,2-Dichloroethane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
1,1-Dichloroethene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
cis-1,2-Dichloroethene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
trans-1,2-Dichloroethene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
1,2-Dichloropropane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
cis-1,3-Dichloropropene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
trans-1,3-Dichloropropene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Ethylbenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Hexachlorobutadiene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
2-Hexanone	ND		45		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Isopropylbenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
4-Isopropyltoluene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Methylene Chloride	ND		9.0		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
4-Methyl-2-pentanone (MIBK)	ND		45		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Naphthalene	ND		9.0		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
N-Propylbenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Styrene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
1,1,1,2-Tetrachloroethane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
1,1,2,2-Tetrachloroethane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Tetrachloroethene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1

Client Sample ID: SB-8 (16-16 1/2)

Lab Sample ID: 720-44232-13

Date Collected: 08/28/12 10:40

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
1,2,3-Trichlorobenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
1,2,4-Trichlorobenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
1,1,1-Trichloroethane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
1,1,2-Trichloroethane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Trichloroethene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Trichlorofluoromethane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
1,2,3-Trichloropropane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
1,2,4-Trimethylbenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
1,3,5-Trimethylbenzene	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Vinyl acetate	ND		45		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Vinyl chloride	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Xylenes, Total	ND		9.0		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
2,2-Dichloropropane	ND		4.5		ug/Kg		08/29/12 14:45	08/29/12 18:44	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		08/29/12 14:45	08/29/12 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*45 - 131*	*08/29/12 14:45*	*08/29/12 18:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*	*08/29/12 14:45*	*08/29/12 18:44*	*1*
Toluene-d8 (Surr)	*98*		*58 - 140*	*08/29/12 14:45*	*08/29/12 18:44*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		08/30/12 08:13	08/31/12 17:15	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/30/12 08:13	08/31/12 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.003*		*0 - 1*	*08/30/12 08:13*	*08/31/12 17:15*	*1*
p-Terphenyl	*85*		*38 - 148*	*08/30/12 08:13*	*08/31/12 17:15*	*1*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-10 (1-1 1/2)

Lab Sample ID: 720-44232-14

Date Collected: 08/28/12 11:50
Matrix: Solid
Date Received: 08/28/12 19:00

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		9.8		ug/Kg		08/30/12 11:30	09/05/12 17:02	2
Acenaphthylene	ND		9.8		ug/Kg		08/30/12 11:30	09/05/12 17:02	2
Anthracene	ND		9.8		ug/Kg		08/30/12 11:30	09/05/12 17:02	2
Benzo[a]anthracene	**12**		9.8		ug/Kg		08/30/12 11:30	09/05/12 17:02	2
Benzo[a]pyrene	**17**		9.8		ug/Kg		08/30/12 11:30	09/05/12 17:02	2
Benzo[b]fluoranthene	**27**		9.8		ug/Kg		08/30/12 11:30	09/05/12 17:02	2
Benzo[g,h,i]perylene	**16**		9.8		ug/Kg		08/30/12 11:30	09/05/12 17:02	2
Benzo[k]fluoranthene	ND		9.8		ug/Kg		08/30/12 11:30	09/05/12 17:02	2
Chrysene	**21**		9.8		ug/Kg		08/30/12 11:30	09/05/12 17:02	2
Dibenz(a,h)anthracene	ND		9.8		ug/Kg		08/30/12 11:30	09/05/12 17:02	2
Fluoranthene	**40**		9.8		ug/Kg		08/30/12 11:30	09/05/12 17:02	2
Fluorene	ND		9.8		ug/Kg		08/30/12 11:30	09/05/12 17:02	2
Indeno[1,2,3-cd]pyrene	**11**		9.8		ug/Kg		08/30/12 11:30	09/05/12 17:02	2
Naphthalene	ND		9.8		ug/Kg		08/30/12 11:30	09/05/12 17:02	2
Phenanthrene	**22**		9.8		ug/Kg		08/30/12 11:30	09/05/12 17:02	2
Pyrene	**47**		9.8		ug/Kg		08/30/12 11:30	09/05/12 17:02	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*33 - 120*	*08/30/12 11:30*	*09/05/12 17:02*	*2*
Terphenyl-d14	*77*		*35 - 146*	*08/30/12 11:30*	*09/05/12 17:02*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**7.2**		1.0		mg/Kg		08/30/12 08:13	08/31/12 20:06	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/30/12 08:13	08/31/12 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.003*		*0 - 1*	*08/30/12 08:13*	*08/31/12 20:06*	*1*
p-Terphenyl	*87*		*38 - 148*	*08/30/12 08:13*	*08/31/12 20:06*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:47	1
Dieldrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:47	1
Endrin aldehyde	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:47	1
Endrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:47	1
Endrin ketone	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:47	1
Heptachlor	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:47	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:47	1
4,4'-DDT	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:47	1
4,4'-DDE	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:47	1
4,4'-DDD	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:47	1
Endosulfan I	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:47	1
Endosulfan II	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:47	1
alpha-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:47	1
beta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:47	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:47	1
delta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:47	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:47	1
Methoxychlor	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:47	1
Toxaphene	ND		39		ug/Kg		08/30/12 14:19	08/31/12 22:47	1
Chlordane (technical)	ND		39		ug/Kg		08/30/12 14:19	08/31/12 22:47	1

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-10 (1-1 1/2)

Date Collected: 08/28/12 11:50
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-14

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:47	1
gamma-Chlordane	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*34 - 110*	*08/30/12 14:19*	*08/31/12 22:47*	*1*
DCB Decachlorobiphenyl	*82*		*21 - 136*	*08/30/12 14:19*	*08/31/12 22:47*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:18	1
PCB-1221	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:18	1
PCB-1232	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:18	1
PCB-1242	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:18	1
PCB-1248	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:18	1
PCB-1254	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:18	1
PCB-1260	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*32 - 112*	*08/30/12 14:16*	*08/31/12 19:18*	*1*
DCB Decachlorobiphenyl	*80*		*2 - 122*	*08/30/12 14:16*	*08/31/12 19:18*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.49		mg/Kg		08/30/12 16:51	08/31/12 19:10	1
Arsenic	ND		0.98		mg/Kg		08/30/12 16:51	08/31/12 19:10	1
Barium	**16**		0.49		mg/Kg		08/30/12 16:51	08/31/12 19:10	1
Beryllium	ND		0.098		mg/Kg		08/30/12 16:51	08/31/12 19:10	1
Cadmium	ND		0.12		mg/Kg		08/30/12 16:51	08/31/12 19:10	1
Chromium	**31**		0.49		mg/Kg		08/30/12 16:51	08/31/12 19:10	1
Cobalt	**4.7**		0.20		mg/Kg		08/30/12 16:51	08/31/12 19:10	1
Copper	**29**		1.5		mg/Kg		08/30/12 16:51	08/31/12 19:10	1
Lead	**2.0**		0.49		mg/Kg		08/30/12 16:51	08/31/12 19:10	1
Molybdenum	ND		0.49		mg/Kg		08/30/12 16:51	08/31/12 19:10	1
Nickel	**21**		0.49		mg/Kg		08/30/12 16:51	08/31/12 19:10	1
Selenium	ND		0.98		mg/Kg		08/30/12 16:51	08/31/12 19:10	1
Silver	ND		0.25		mg/Kg		08/30/12 16:51	08/31/12 19:10	1
Thallium	ND		0.49		mg/Kg		08/30/12 16:51	08/31/12 19:10	1
Vanadium	**15**		0.49		mg/Kg		08/30/12 16:51	08/31/12 19:10	1
Zinc	**9.3**		1.5		mg/Kg		08/30/12 16:51	08/31/12 19:10	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.56**		0.0098		mg/Kg		08/30/12 20:47	08/31/12 10:22	1

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-10 (2-2 1/2)

Lab Sample ID: 720-44232-15

Date Collected: 08/28/12 12:00

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Acetone	ND		47		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Benzene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Dichlorobromomethane	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Bromobenzene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Chlorobromomethane	ND		19		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Bromoform	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Bromomethane	ND		9.5		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
2-Butanone (MEK)	ND		47		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
n-Butylbenzene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
sec-Butylbenzene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
tert-Butylbenzene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Carbon disulfide	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Carbon tetrachloride	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Chlorobenzene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Chloroethane	ND		9.5		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Chloroform	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Chloromethane	ND		9.5		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
2-Chlorotoluene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
4-Chlorotoluene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Chlorodibromomethane	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
1,2-Dichlorobenzene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
1,3-Dichlorobenzene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
1,4-Dichlorobenzene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
1,3-Dichloropropane	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
1,1-Dichloropropene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
1,2-Dibromo-3-Chloropropane	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Ethylene Dibromide	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Dibromomethane	ND		9.5		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Dichlorodifluoromethane	ND		9.5		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
1,1-Dichloroethane	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
1,2-Dichloroethane	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
1,1-Dichloroethene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
cis-1,2-Dichloroethene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
trans-1,2-Dichloroethene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
1,2-Dichloropropane	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
cis-1,3-Dichloropropene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
trans-1,3-Dichloropropene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Ethylbenzene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Hexachlorobutadiene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
2-Hexanone	ND		47		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Isopropylbenzene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
4-Isopropyltoluene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Methylene Chloride	ND		9.5		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
4-Methyl-2-pentanone (MIBK)	ND		47		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Naphthalene	ND		9.5		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
N-Propylbenzene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Styrene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
1,1,1,2-Tetrachloroethane	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
1,1,2,2-Tetrachloroethane	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Tetrachloroethene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-10 (2-2 1/2)

Date Collected: 08/28/12 12:00
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-15

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
1,2,3-Trichlorobenzene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
1,2,4-Trichlorobenzene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
1,1,1-Trichloroethane	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
1,1,2-Trichloroethane	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Trichloroethene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Trichlorofluoromethane	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
1,2,3-Trichloropropane	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
1,2,4-Trimethylbenzene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
1,3,5-Trimethylbenzene	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Vinyl acetate	ND		47		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Vinyl chloride	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Xylenes, Total	ND		9.5		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
2,2-Dichloropropane	ND		4.7		ug/Kg		08/29/12 14:45	08/30/12 12:39	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/29/12 14:45	08/30/12 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*73*		*45 - 131*	*08/29/12 14:45*	*08/30/12 12:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*	*08/29/12 14:45*	*08/30/12 12:39*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*	*08/29/12 14:45*	*08/30/12 12:39*	*1*

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-10 (4-4 1/2)

Lab Sample ID: 720-44232-16

Date Collected: 08/28/12 12:10

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Acetone	ND		50		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Benzene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Bromobenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Chlorobromomethane	ND		20		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Bromoform	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Bromomethane	ND		10		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
2-Butanone (MEK)	ND		50		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
n-Butylbenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
sec-Butylbenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
tert-Butylbenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Carbon disulfide	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Chlorobenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Chloroethane	ND		10		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Chloroform	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Chloromethane	ND		10		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
2-Chlorotoluene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
4-Chlorotoluene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Dibromomethane	ND		10		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Dichlorodifluoromethane	ND		10		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Ethylbenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Hexachlorobutadiene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
2-Hexanone	ND		50		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Isopropylbenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
4-Isopropyltoluene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Methylene Chloride	ND		10		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Naphthalene	ND		10		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
N-Propylbenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Styrene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Tetrachloroethene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-10 (4-4 1/2)

Date Collected: 08/28/12 12:10
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-16

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Trichloroethene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Trichlorofluoromethane	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Vinyl acetate	ND		50		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Vinyl chloride	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Xylenes, Total	ND		10		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/29/12 14:45	08/29/12 19:41	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/29/12 14:45	08/29/12 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*45 - 131*	*08/29/12 14:45*	*08/29/12 19:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*	*08/29/12 14:45*	*08/29/12 19:41*	*1*
Toluene-d8 (Surr)	*99*		*58 - 140*	*08/29/12 14:45*	*08/29/12 19:41*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/30/12 08:13	08/31/12 20:30	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/30/12 08:13	08/31/12 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.03*		*0 - 1*	*08/30/12 08:13*	*08/31/12 20:30*	*1*
p-Terphenyl	*73*		*38 - 148*	*08/30/12 08:13*	*08/31/12 20:30*	*1*

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-10 (9 1/2-10)
Date Collected: 08/28/12 12:10
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-17
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Acetone	ND		120		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Benzene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Dichlorobromomethane	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Bromobenzene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Chlorobromomethane	ND		49		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Bromoform	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Bromomethane	ND		25		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
2-Butanone (MEK)	ND		120		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
n-Butylbenzene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
sec-Butylbenzene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
tert-Butylbenzene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Carbon disulfide	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Carbon tetrachloride	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Chlorobenzene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Chloroethane	ND		25		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Chloroform	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Chloromethane	ND		25		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
2-Chlorotoluene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
4-Chlorotoluene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Chlorodibromomethane	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
1,2-Dichlorobenzene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
1,3-Dichlorobenzene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
1,4-Dichlorobenzene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
1,3-Dichloropropane	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
1,1-Dichloropropene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
1,2-Dibromo-3-Chloropropane	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Ethylene Dibromide	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Dibromomethane	ND		25		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Dichlorodifluoromethane	ND		25		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
1,1-Dichloroethane	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
1,2-Dichloroethane	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
1,1-Dichloroethene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
cis-1,2-Dichloroethene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
trans-1,2-Dichloroethene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
1,2-Dichloropropane	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
cis-1,3-Dichloropropene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
trans-1,3-Dichloropropene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Ethylbenzene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Hexachlorobutadiene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
2-Hexanone	ND		120		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Isopropylbenzene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
4-Isopropyltoluene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Methylene Chloride	ND		25		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
4-Methyl-2-pentanone (MIBK)	ND		120		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Naphthalene	ND		25		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
N-Propylbenzene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Styrene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
1,1,1,2-Tetrachloroethane	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
1,1,2,2-Tetrachloroethane	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Tetrachloroethene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1

Client Sample ID: SB-10 (9 1/2-10)

Lab Sample ID: 720-44232-17

Date Collected: 08/28/12 12:10

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
1,2,3-Trichlorobenzene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
1,2,4-Trichlorobenzene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
1,1,1-Trichloroethane	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
1,1,2-Trichloroethane	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Trichloroethene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Trichlorofluoromethane	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
1,2,3-Trichloropropane	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
1,2,4-Trimethylbenzene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
1,3,5-Trimethylbenzene	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Vinyl acetate	ND		120		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Vinyl chloride	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Xylenes, Total	ND		25		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
2,2-Dichloropropane	ND		12		ug/Kg		08/29/12 14:45	08/30/12 13:08	1
Gasoline Range Organics (GRO) -C5-C12	ND		620		ug/Kg		08/29/12 14:45	08/30/12 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*82*		*45 - 131*	*08/29/12 14:45*	*08/30/12 13:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*	*08/29/12 14:45*	*08/30/12 13:08*	*1*
Toluene-d8 (Surr)	*97*		*58 - 140*	*08/29/12 14:45*	*08/30/12 13:08*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		08/30/12 08:13	08/31/12 20:55	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/30/12 08:13	08/31/12 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.05*		*0 - 1*	*08/30/12 08:13*	*08/31/12 20:55*	*1*
p-Terphenyl	*69*		*38 - 148*	*08/30/12 08:13*	*08/31/12 20:55*	*1*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-10 (17-17 1/2)

Lab Sample ID: 720-44232-18

Date Collected: 08/28/12 12:20

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Acetone	ND		44		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Benzene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Dichlorobromomethane	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Bromobenzene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Chlorobromomethane	ND		18		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Bromoform	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Bromomethane	ND		8.8		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
2-Butanone (MEK)	ND		44		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
n-Butylbenzene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
sec-Butylbenzene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
tert-Butylbenzene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Carbon disulfide	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Carbon tetrachloride	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Chlorobenzene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Chloroethane	ND		8.8		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Chloroform	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Chloromethane	ND		8.8		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
2-Chlorotoluene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
4-Chlorotoluene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Chlorodibromomethane	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
1,2-Dichlorobenzene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
1,3-Dichlorobenzene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
1,4-Dichlorobenzene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
1,3-Dichloropropane	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
1,1-Dichloropropene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
1,2-Dibromo-3-Chloropropane	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Ethylene Dibromide	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Dibromomethane	ND		8.8		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Dichlorodifluoromethane	ND		8.8		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
1,1-Dichloroethane	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
1,2-Dichloroethane	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
1,1-Dichloroethene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
cis-1,2-Dichloroethene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
trans-1,2-Dichloroethene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
1,2-Dichloropropane	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
cis-1,3-Dichloropropene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
trans-1,3-Dichloropropene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Ethylbenzene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Hexachlorobutadiene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
2-Hexanone	ND		44		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Isopropylbenzene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
4-Isopropyltoluene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Methylene Chloride	ND		8.8		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
4-Methyl-2-pentanone (MIBK)	ND		44		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Naphthalene	ND		8.8		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
N-Propylbenzene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Styrene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
1,1,1,2-Tetrachloroethane	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
1,1,2,2-Tetrachloroethane	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Tetrachloroethene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-10 (17-17 1/2)

Date Collected: 08/28/12 12:20
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-18

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
1,2,3-Trichlorobenzene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
1,2,4-Trichlorobenzene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
1,1,1-Trichloroethane	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
1,1,2-Trichloroethane	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Trichloroethene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Trichlorofluoromethane	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
1,2,3-Trichloropropane	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
1,2,4-Trimethylbenzene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
1,3,5-Trimethylbenzene	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Vinyl acetate	ND		44		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Vinyl chloride	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Xylenes, Total	ND		8.8		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
2,2-Dichloropropane	ND		4.4		ug/Kg		08/30/12 18:13	08/30/12 19:53	1
Gasoline Range Organics (GRO) -C5-C12	ND		220		ug/Kg		08/30/12 18:13	08/30/12 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*45 - 131*	*08/30/12 18:13*	*08/30/12 19:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*	*08/30/12 18:13*	*08/30/12 19:53*	*1*
Toluene-d8 (Surr)	*99*		*58 - 140*	*08/30/12 18:13*	*08/30/12 19:53*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/30/12 08:13	08/31/12 21:19	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/30/12 08:13	08/31/12 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.03*		*0 - 1*	*08/30/12 08:13*	*08/31/12 21:19*	*1*
p-Terphenyl	*76*		*38 - 148*	*08/30/12 08:13*	*08/31/12 21:19*	*1*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-3 (1-1 1/2)

Lab Sample ID: 720-44232-20

Date Collected: 08/28/12 12:40
Matrix: Solid
Date Received: 08/28/12 19:00

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**7.2**		1.0		mg/Kg		08/30/12 08:13	08/31/12 21:44	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/30/12 08:13	08/31/12 21:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.03*		*0 - 1*	*08/30/12 08:13*	*08/31/12 21:44*	*1*
p-Terphenyl	*81*		*38 - 148*	*08/30/12 08:13*	*08/31/12 21:44*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:05	1
Dieldrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:05	1
Endrin aldehyde	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:05	1
Endrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:05	1
Endrin ketone	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:05	1
Heptachlor	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:05	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:05	1
4,4'-DDT	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:05	1
4,4'-DDE	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:05	1
4,4'-DDD	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:05	1
Endosulfan I	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:05	1
Endosulfan II	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:05	1
alpha-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:05	1
beta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:05	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:05	1
delta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:05	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:05	1
Methoxychlor	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:05	1
Toxaphene	ND		39		ug/Kg		08/30/12 14:19	08/31/12 23:05	1
Chlordane (technical)	ND		39		ug/Kg		08/30/12 14:19	08/31/12 23:05	1
alpha-Chlordane	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:05	1
gamma-Chlordane	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*34 - 110*	*08/30/12 14:19*	*08/31/12 23:05*	*1*
DCB Decachlorobiphenyl	*82*		*21 - 136*	*08/30/12 14:19*	*08/31/12 23:05*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:35	1
PCB-1221	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:35	1
PCB-1232	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:35	1
PCB-1242	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:35	1
PCB-1248	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:35	1
PCB-1254	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:35	1
PCB-1260	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*32 - 112*	*08/30/12 14:16*	*08/31/12 19:35*	*1*
DCB Decachlorobiphenyl	*83*		*2 - 122*	*08/30/12 14:16*	*08/31/12 19:35*	*1*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-3 (1-1 1/2)

Date Collected: 08/28/12 12:40
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-20

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:14	4
Arsenic	**5.7**		4.0		mg/Kg		08/30/12 16:51	08/31/12 19:14	4
Barium	**260**		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:14	4
Beryllium	ND		0.40		mg/Kg		08/30/12 16:51	08/31/12 19:14	4
Cadmium	ND		0.50		mg/Kg		08/30/12 16:51	08/31/12 19:14	4
Chromium	**130**		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:14	4
Cobalt	**22**		0.79		mg/Kg		08/30/12 16:51	08/31/12 19:14	4
Copper	**41**		5.9		mg/Kg		08/30/12 16:51	08/31/12 19:14	4
Lead	**18**		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:14	4
Molybdenum	ND		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:14	4
Nickel	**190**		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:14	4
Selenium	ND		4.0		mg/Kg		08/30/12 16:51	08/31/12 19:14	4
Silver	ND		0.99		mg/Kg		08/30/12 16:51	08/31/12 19:14	4
Thallium	ND		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:14	4
Vanadium	**65**		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:14	4
Zinc	**78**		5.9		mg/Kg		08/30/12 16:51	08/31/12 19:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.5**		0.0097		mg/Kg		08/30/12 20:47	08/31/12 10:24	1

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-3 (2-2 1/2)

Lab Sample ID: 720-44232-21

Date Collected: 08/28/12 14:00

Matrix: Solid

Date Received: 08/28/12 19:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.99		mg/Kg		08/30/12 17:30	08/31/12 13:04	1

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-3 (4-4 1/2)

Lab Sample ID: 720-44232-22

Date Collected: 08/28/12 14:10

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Acetone	ND		46		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Benzene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Dichlorobromomethane	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Bromobenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Chlorobromomethane	ND		19		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Bromoform	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Bromomethane	ND		9.3		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
2-Butanone (MEK)	ND		46		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
n-Butylbenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
sec-Butylbenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
tert-Butylbenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Carbon disulfide	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Carbon tetrachloride	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Chlorobenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Chloroethane	ND		9.3		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Chloroform	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Chloromethane	ND		9.3		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
2-Chlorotoluene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
4-Chlorotoluene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Chlorodibromomethane	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
1,3-Dichloropropane	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
1,1-Dichloropropene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
1,2-Dibromo-3-Chloropropane	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Ethylene Dibromide	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Dibromomethane	ND		9.3		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Dichlorodifluoromethane	ND		9.3		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
1,1-Dichloroethane	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
1,2-Dichloroethane	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
1,1-Dichloroethene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
cis-1,2-Dichloroethene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
1,2-Dichloropropane	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Ethylbenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Hexachlorobutadiene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
2-Hexanone	ND		46		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Isopropylbenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
4-Isopropyltoluene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Methylene Chloride	ND		9.3		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Naphthalene	ND		9.3		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
N-Propylbenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Styrene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Tetrachloroethene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1

Client Sample ID: SB-3 (4-4 1/2)

Date Collected: 08/28/12 14:10
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-22
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Trichloroethene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Trichlorofluoromethane	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Vinyl acetate	ND		46		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Vinyl chloride	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Xylenes, Total	ND		9.3		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
2,2-Dichloropropane	ND		4.6		ug/Kg		08/29/12 14:45	08/30/12 13:37	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		08/29/12 14:45	08/30/12 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*77*		*45 - 131*	*08/29/12 14:45*	*08/30/12 13:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*	*08/29/12 14:45*	*08/30/12 13:37*	*1*
Toluene-d8 (Surr)	*97*		*58 - 140*	*08/29/12 14:45*	*08/30/12 13:37*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:52	1
Acenaphthylene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:52	1
Anthracene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:52	1
Benzo[a]anthracene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:52	1
Benzo[a]pyrene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:52	1
Benzo[b]fluoranthene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:52	1
Benzo[g,h,i]perylene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:52	1
Benzo[k]fluoranthene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:52	1
Chrysene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:52	1
Dibenz(a,h)anthracene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:52	1
Fluoranthene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:52	1
Fluorene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:52	1
Indeno[1,2,3-cd]pyrene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:52	1
Naphthalene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:52	1
Phenanthrene	**5.7**		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:52	1
Pyrene	ND		4.9		ug/Kg		08/30/12 11:30	09/05/12 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*33 - 120*	*08/30/12 11:30*	*09/05/12 15:52*	*1*
Terphenyl-d14	*78*		*35 - 146*	*08/30/12 11:30*	*09/05/12 15:52*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/30/12 14:51	08/31/12 12:42	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/30/12 14:51	08/31/12 12:42	1

Client Sample ID: SB-3 (4-4 1/2)

Lab Sample ID: 720-44232-22

Date Collected: 08/28/12 14:10

Matrix: Solid

Date Received: 08/28/12 19:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.002		0 - 1	08/30/12 14:51	08/31/12 12:42	1
p-Terphenyl	88		38 - 148	08/30/12 14:51	08/31/12 12:42	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:23	1
Dieldrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:23	1
Endrin aldehyde	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:23	1
Endrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:23	1
Endrin ketone	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:23	1
Heptachlor	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:23	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:23	1
4,4'-DDT	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:23	1
4,4'-DDE	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:23	1
4,4'-DDD	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:23	1
Endosulfan I	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:23	1
Endosulfan II	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:23	1
alpha-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:23	1
beta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:23	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:23	1
delta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:23	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:23	1
Methoxychlor	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:23	1
Toxaphene	ND		39		ug/Kg		08/30/12 14:19	08/31/12 23:23	1
Chlordane (technical)	ND		39		ug/Kg		08/30/12 14:19	08/31/12 23:23	1
alpha-Chlordane	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:23	1
gamma-Chlordane	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		34 - 110	08/30/12 14:19	08/31/12 23:23	1
DCB Decachlorobiphenyl	86		21 - 136	08/30/12 14:19	08/31/12 23:23	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:53	1
PCB-1221	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:53	1
PCB-1232	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:53	1
PCB-1242	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:53	1
PCB-1248	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:53	1
PCB-1254	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:53	1
PCB-1260	ND		49		ug/Kg		08/30/12 14:16	08/31/12 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		32 - 112	08/30/12 14:16	08/31/12 19:53	1
DCB Decachlorobiphenyl	86		2 - 122	08/30/12 14:16	08/31/12 19:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.1**		1.9		mg/Kg		08/30/12 16:51	08/31/12 19:18	4
Arsenic	ND		3.8		mg/Kg		08/30/12 16:51	08/31/12 19:18	4
Barium	**87**		1.9		mg/Kg		08/30/12 16:51	08/31/12 19:18	4
Beryllium	ND		0.38		mg/Kg		08/30/12 16:51	08/31/12 19:18	4
Cadmium	ND		0.48		mg/Kg		08/30/12 16:51	08/31/12 19:18	4

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-3 (4-4 1/2)

Date Collected: 08/28/12 14:10
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-22

Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**150**		1.9		mg/Kg		08/30/12 16:51	08/31/12 19:18	4
Cobalt	**19**		0.77		mg/Kg		08/30/12 16:51	08/31/12 19:18	4
Copper	**26**		5.8		mg/Kg		08/30/12 16:51	08/31/12 19:18	4
Lead	**3.6**		1.9		mg/Kg		08/30/12 16:51	08/31/12 19:18	4
Molybdenum	ND		1.9		mg/Kg		08/30/12 16:51	08/31/12 19:18	4
Nickel	**180**		1.9		mg/Kg		08/30/12 16:51	08/31/12 19:18	4
Selenium	ND		3.8		mg/Kg		08/30/12 16:51	08/31/12 19:18	4
Silver	ND		0.96		mg/Kg		08/30/12 16:51	08/31/12 19:18	4
Thallium	ND		1.9		mg/Kg		08/30/12 16:51	08/31/12 19:18	4
Vanadium	**69**		1.9		mg/Kg		08/30/12 16:51	08/31/12 19:18	4
Zinc	**49**		5.8		mg/Kg		08/30/12 16:51	08/31/12 19:18	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**		0.0098		mg/Kg		08/30/12 20:47	08/31/12 10:27	1

Client Sample ID: SB-3 (2-2 1/2)

Lab Sample ID: 720-44232-23

Date Collected: 08/28/12 14:20

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Acetone	ND		43		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Benzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Dichlorobromomethane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Bromobenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Chlorobromomethane	ND		17		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Bromoform	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Bromomethane	ND		8.7		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
2-Butanone (MEK)	ND		43		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
n-Butylbenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
sec-Butylbenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
tert-Butylbenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Carbon disulfide	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Carbon tetrachloride	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Chlorobenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Chloroethane	ND		8.7		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Chloroform	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Chloromethane	ND		8.7		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
2-Chlorotoluene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
4-Chlorotoluene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Chlorodibromomethane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
1,2-Dichlorobenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
1,3-Dichlorobenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
1,4-Dichlorobenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
1,3-Dichloropropane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
1,1-Dichloropropene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
1,2-Dibromo-3-Chloropropane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Ethylene Dibromide	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Dibromomethane	ND		8.7		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Dichlorodifluoromethane	ND		8.7		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
1,1-Dichloroethane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
1,2-Dichloroethane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
1,1-Dichloroethene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
cis-1,2-Dichloroethene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
trans-1,2-Dichloroethene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
1,2-Dichloropropane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
cis-1,3-Dichloropropene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
trans-1,3-Dichloropropene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Ethylbenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Hexachlorobutadiene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
2-Hexanone	ND		43		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Isopropylbenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
4-Isopropyltoluene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Methylene Chloride	ND		8.7		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
4-Methyl-2-pentanone (MIBK)	ND		43		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Naphthalene	ND		8.7		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
N-Propylbenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Styrene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
1,1,1,2-Tetrachloroethane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
1,1,2,2-Tetrachloroethane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Tetrachloroethene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-3 (2-2 1/2)

Lab Sample ID: 720-44232-23

Date Collected: 08/28/12 14:20
Matrix: Solid
Date Received: 08/28/12 19:00

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
1,2,3-Trichlorobenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
1,2,4-Trichlorobenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
1,1,1-Trichloroethane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
1,1,2-Trichloroethane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Trichloroethene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Trichlorofluoromethane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
1,2,3-Trichloropropane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
1,2,4-Trimethylbenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
1,3,5-Trimethylbenzene	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Vinyl acetate	ND		43		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Vinyl chloride	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Xylenes, Total	ND		8.7		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
2,2-Dichloropropane	ND		4.3		ug/Kg		08/29/12 14:45	08/29/12 21:08	1
Gasoline Range Organics (GRO) -C5-C12	ND		220		ug/Kg		08/29/12 14:45	08/29/12 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*84*		*45 - 131*	*08/29/12 14:45*	*08/29/12 21:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*	*08/29/12 14:45*	*08/29/12 21:08*	*1*
Toluene-d8 (Surr)	*96*		*58 - 140*	*08/29/12 14:45*	*08/29/12 21:08*	*1*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-3 (14 1/2-15)

Lab Sample ID: 720-44232-24

Date Collected: 08/28/12 14:30
Matrix: Solid
Date Received: 08/28/12 19:00

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Acetone	ND		44		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Benzene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Dichlorobromomethane	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Bromobenzene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Chlorobromomethane	ND		18		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Bromoform	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Bromomethane	ND		8.8		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
2-Butanone (MEK)	ND		44		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
n-Butylbenzene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
sec-Butylbenzene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
tert-Butylbenzene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Carbon disulfide	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Carbon tetrachloride	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Chlorobenzene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Chloroethane	ND		8.8		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Chloroform	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Chloromethane	ND		8.8		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
2-Chlorotoluene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
4-Chlorotoluene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Chlorodibromomethane	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
1,2-Dichlorobenzene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
1,3-Dichlorobenzene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
1,4-Dichlorobenzene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
1,3-Dichloropropane	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
1,1-Dichloropropene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
1,2-Dibromo-3-Chloropropane	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Ethylene Dibromide	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Dibromomethane	ND		8.8		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Dichlorodifluoromethane	ND		8.8		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
1,1-Dichloroethane	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
1,2-Dichloroethane	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
1,1-Dichloroethene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
cis-1,2-Dichloroethene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
trans-1,2-Dichloroethene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
1,2-Dichloropropane	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
cis-1,3-Dichloropropene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
trans-1,3-Dichloropropene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Ethylbenzene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Hexachlorobutadiene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
2-Hexanone	ND		44		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Isopropylbenzene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
4-Isopropyltoluene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Methylene Chloride	ND		8.8		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
4-Methyl-2-pentanone (MIBK)	ND		44		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Naphthalene	ND		8.8		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
N-Propylbenzene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Styrene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
1,1,1,2-Tetrachloroethane	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
1,1,2,2-Tetrachloroethane	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Tetrachloroethene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-3 (14 1/2-15)

Date Collected: 08/28/12 14:30
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-24

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
1,2,3-Trichlorobenzene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
1,2,4-Trichlorobenzene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
1,1,1-Trichloroethane	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
1,1,2-Trichloroethane	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Trichloroethene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Trichlorofluoromethane	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
1,2,3-Trichloropropane	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
1,2,4-Trimethylbenzene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
1,3,5-Trimethylbenzene	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Vinyl acetate	ND		44		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Vinyl chloride	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Xylenes, Total	ND		8.8		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
2,2-Dichloropropane	ND		4.4		ug/Kg		08/29/12 14:45	08/29/12 21:37	1
Gasoline Range Organics (GRO) -C5-C12	ND		220		ug/Kg		08/29/12 14:45	08/29/12 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*45 - 131*	*08/29/12 14:45*	*08/29/12 21:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*	*08/29/12 14:45*	*08/29/12 21:37*	*1*
Toluene-d8 (Surr)	*96*		*58 - 140*	*08/29/12 14:45*	*08/29/12 21:37*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/30/12 14:51	08/31/12 14:00	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/30/12 14:51	08/31/12 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.008*		*0 - 1*	*08/30/12 14:51*	*08/31/12 14:00*	*1*
p-Terphenyl	*66*		*38 - 148*	*08/30/12 14:51*	*08/31/12 14:00*	*1*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-3 (16 1/2-17')

Lab Sample ID: 720-44232-25

Date Collected: 08/28/12 14:30

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/30/12 14:51	08/31/12 14:24	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/30/12 14:51	08/31/12 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.0004*		*0 - 1*	*08/30/12 14:51*	*08/31/12 14:24*	*1*
p-Terphenyl	*100*		*38 - 148*	*08/30/12 14:51*	*08/31/12 14:24*	*1*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-9 (2-2 1/2')

Lab Sample ID: 720-44232-27

Date Collected: 08/28/12 14:50

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Acetone	ND		53		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Benzene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Dichlorobromomethane	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Bromobenzene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Chlorobromomethane	ND		21		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Bromoform	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Bromomethane	ND		11		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
2-Butanone (MEK)	ND		53		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
n-Butylbenzene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
sec-Butylbenzene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
tert-Butylbenzene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Carbon disulfide	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Carbon tetrachloride	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Chlorobenzene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Chloroethane	ND		11		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Chloroform	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Chloromethane	ND		11		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
2-Chlorotoluene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
4-Chlorotoluene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Chlorodibromomethane	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
1,2-Dichlorobenzene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
1,3-Dichlorobenzene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
1,4-Dichlorobenzene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
1,3-Dichloropropane	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
1,1-Dichloropropene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
1,2-Dibromo-3-Chloropropane	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Ethylene Dibromide	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Dibromomethane	ND		11		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Dichlorodifluoromethane	ND		11		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
1,1-Dichloroethane	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
1,2-Dichloroethane	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
1,1-Dichloroethene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
cis-1,2-Dichloroethene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
trans-1,2-Dichloroethene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
1,2-Dichloropropane	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
cis-1,3-Dichloropropene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
trans-1,3-Dichloropropene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Ethylbenzene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Hexachlorobutadiene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
2-Hexanone	ND		53		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Isopropylbenzene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
4-Isopropyltoluene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Methylene Chloride	ND		11		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
4-Methyl-2-pentanone (MIBK)	ND		53		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Naphthalene	ND		11		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
N-Propylbenzene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Styrene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
1,1,1,2-Tetrachloroethane	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
1,1,2,2-Tetrachloroethane	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Tetrachloroethene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1

Client Sample ID: SB-9 (2-2 1/2')

Date Collected: 08/28/12 14:50
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-27
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
1,2,3-Trichlorobenzene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
1,2,4-Trichlorobenzene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
1,1,1-Trichloroethane	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
1,1,2-Trichloroethane	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Trichloroethene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Trichlorofluoromethane	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
1,2,3-Trichloropropane	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
1,2,4-Trimethylbenzene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
1,3,5-Trimethylbenzene	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Vinyl acetate	ND		53		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Vinyl chloride	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Xylenes, Total	ND		11		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
2,2-Dichloropropane	ND		5.3		ug/Kg		08/29/12 14:45	08/30/12 14:06	1
Gasoline Range Organics (GRO) -C5-C12	ND		270		ug/Kg		08/29/12 14:45	08/30/12 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*79*		*45 - 131*	*08/29/12 14:45*	*08/30/12 14:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*	*08/29/12 14:45*	*08/30/12 14:06*	*1*
Toluene-d8 (Surr)	*96*		*58 - 140*	*08/29/12 14:45*	*08/30/12 14:06*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		25		ug/Kg		08/30/12 11:30	09/05/12 17:25	5
Acenaphthylene	ND		25		ug/Kg		08/30/12 11:30	09/05/12 17:25	5
Anthracene	ND		25		ug/Kg		08/30/12 11:30	09/05/12 17:25	5
Benzo[a]anthracene	**74**		25		ug/Kg		08/30/12 11:30	09/05/12 17:25	5
Benzo[a]pyrene	**100**		25		ug/Kg		08/30/12 11:30	09/05/12 17:25	5
Benzo[b]fluoranthene	**150**		25		ug/Kg		08/30/12 11:30	09/05/12 17:25	5
Benzo[g,h,i]perylene	**70**		25		ug/Kg		08/30/12 11:30	09/05/12 17:25	5
Benzo[k]fluoranthene	**49**		25		ug/Kg		08/30/12 11:30	09/05/12 17:25	5
Chrysene	**80**		25		ug/Kg		08/30/12 11:30	09/05/12 17:25	5
Dibenz(a,h)anthracene	ND		25		ug/Kg		08/30/12 11:30	09/05/12 17:25	5
Fluoranthene	**92**		25		ug/Kg		08/30/12 11:30	09/05/12 17:25	5
Fluorene	ND		25		ug/Kg		08/30/12 11:30	09/05/12 17:25	5
Indeno[1,2,3-cd]pyrene	**60**		25		ug/Kg		08/30/12 11:30	09/05/12 17:25	5
Naphthalene	ND		25		ug/Kg		08/30/12 11:30	09/05/12 17:25	5
Phenanthrene	**27**		25		ug/Kg		08/30/12 11:30	09/05/12 17:25	5
Pyrene	**85**		25		ug/Kg		08/30/12 11:30	09/05/12 17:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*33 - 120*	*08/30/12 11:30*	*09/05/12 17:25*	*5*
Terphenyl-d14	*68*		*35 - 146*	*08/30/12 11:30*	*09/05/12 17:25*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**71**		3.0		mg/Kg		08/30/12 14:51	09/02/12 00:39	3
Motor Oil Range Organics [C24-C36]	**270**		150		mg/Kg		08/30/12 14:51	09/02/12 00:39	3

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-9 (2-2 1/2')

Lab Sample ID: 720-44232-27

Date Collected: 08/28/12 14:50

Matrix: Solid

Date Received: 08/28/12 19:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	*0.06*		*0 - 1*	*08/30/12 14:51*	*09/02/12 00:39*	*3*
p-Terphenyl	*57*		*38 - 148*	*08/30/12 14:51*	*09/02/12 00:39*	*3*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		240		ug/Kg		08/30/12 21:01	09/05/12 07:13	5
PCB-1221	ND		240		ug/Kg		08/30/12 21:01	09/05/12 07:13	5
PCB-1232	ND		240		ug/Kg		08/30/12 21:01	09/05/12 07:13	5
PCB-1242	ND		240		ug/Kg		08/30/12 21:01	09/05/12 07:13	5
PCB-1248	ND		240		ug/Kg		08/30/12 21:01	09/05/12 07:13	5
PCB-1254	ND		240		ug/Kg		08/30/12 21:01	09/05/12 07:13	5
PCB-1260	**710**		240		ug/Kg		08/30/12 21:01	09/05/12 07:13	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*102*		*32 - 112*	*08/30/12 21:01*	*09/05/12 07:13*	*5*
DCB Decachlorobiphenyl	*110*		*2 - 122*	*08/30/12 21:01*	*09/05/12 07:13*	*5*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-9 (4-4 1/2')

Lab Sample ID: 720-44232-28

Date Collected: 08/28/12 15:00
Matrix: Solid
Date Received: 08/28/12 19:00

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		08/30/12 14:51	08/31/12 15:13	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/30/12 14:51	08/31/12 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.2*		*0 - 1*	*08/30/12 14:51*	*08/31/12 15:13*	*1*
p-Terphenyl	*90*		*38 - 148*	*08/30/12 14:51*	*08/31/12 15:13*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 01:29	1
Dieldrin	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 01:29	1
Endrin aldehyde	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 01:29	1
Endrin	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 01:29	1
Endrin ketone	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 01:29	1
Heptachlor	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 01:29	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 01:29	1
4,4'-DDT	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 01:29	1
4,4'-DDE	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 01:29	1
4,4'-DDD	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 01:29	1
Endosulfan I	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 01:29	1
Endosulfan II	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 01:29	1
alpha-BHC	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 01:29	1
beta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 01:29	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 01:29	1
delta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 01:29	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 01:29	1
Methoxychlor	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 01:29	1
Toxaphene	ND		39		ug/Kg		08/30/12 14:19	09/01/12 01:29	1
Chlordane (technical)	ND		39		ug/Kg		08/30/12 14:19	09/01/12 01:29	1
alpha-Chlordane	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 01:29	1
gamma-Chlordane	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*34 - 110*	*08/30/12 14:19*	*09/01/12 01:29*	*1*
DCB Decachlorobiphenyl	*66*		*21 - 136*	*08/30/12 14:19*	*09/01/12 01:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:23	4
Arsenic	**5.6**		3.9		mg/Kg		08/30/12 16:51	08/31/12 19:23	4
Barium	**220**		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:23	4
Beryllium	**0.41**		0.39		mg/Kg		08/30/12 16:51	08/31/12 19:23	4
Cadmium	ND		0.49		mg/Kg		08/30/12 16:51	08/31/12 19:23	4
Chromium	**140**		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:23	4
Cobalt	**26**		0.78		mg/Kg		08/30/12 16:51	08/31/12 19:23	4
Copper	**45**		5.9		mg/Kg		08/30/12 16:51	08/31/12 19:23	4
Lead	**6.9**		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:23	4
Molybdenum	ND		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:23	4
Nickel	**210**		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:23	4
Selenium	ND		3.9		mg/Kg		08/30/12 16:51	08/31/12 19:23	4
Silver	ND		0.98		mg/Kg		08/30/12 16:51	08/31/12 19:23	4
Thallium	ND		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:23	4

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-9 (4-4 1/2')

Lab Sample ID: 720-44232-28

Date Collected: 08/28/12 15:00

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	73		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:23	4
Zinc	67		5.9		mg/Kg		08/30/12 16:51	08/31/12 19:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.76		0.0095		mg/Kg		08/30/12 20:47	08/31/12 10:29	1

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-9 (8-8 1/2')
Date Collected: 08/28/12 15:10
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-29
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Acetone	ND		49		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Benzene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Dichlorobromomethane	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Bromobenzene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Chlorobromomethane	ND		20		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Bromoform	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Bromomethane	ND		9.8		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
2-Butanone (MEK)	ND		49		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
n-Butylbenzene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
sec-Butylbenzene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
tert-Butylbenzene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Carbon disulfide	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Carbon tetrachloride	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Chlorobenzene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Chloroethane	ND		9.8		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Chloroform	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Chloromethane	ND		9.8		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
2-Chlorotoluene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
4-Chlorotoluene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Chlorodibromomethane	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
1,3-Dichloropropane	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
1,1-Dichloropropene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Ethylene Dibromide	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Dibromomethane	ND		9.8		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Dichlorodifluoromethane	ND		9.8		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
1,1-Dichloroethane	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
1,2-Dichloroethane	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
1,1-Dichloroethene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
1,2-Dichloropropane	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Ethylbenzene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Hexachlorobutadiene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
2-Hexanone	ND		49		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Isopropylbenzene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
4-Isopropyltoluene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Methylene Chloride	ND		9.8		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Naphthalene	ND		9.8		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
N-Propylbenzene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Styrene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Tetrachloroethene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-9 (8-8 1/2')

Lab Sample ID: 720-44232-29

Date Collected: 08/28/12 15:10
Matrix: Solid
Date Received: 08/28/12 19:00

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Trichloroethene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Trichlorofluoromethane	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Vinyl acetate	ND		49		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Vinyl chloride	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Xylenes, Total	ND		9.8		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
2,2-Dichloropropane	ND		4.9		ug/Kg		08/29/12 20:15	08/30/12 05:41	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/29/12 20:15	08/30/12 05:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*45 - 131*	*08/29/12 20:15*	*08/30/12 05:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 140*	*08/29/12 20:15*	*08/30/12 05:41*	*1*
Toluene-d8 (Surr)	*95*		*58 - 140*	*08/29/12 20:15*	*08/30/12 05:41*	*1*

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-9 (11 1/2-12')
Date Collected: 08/28/12 15:20
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-30
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Acetone	ND		46		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Benzene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Dichlorobromomethane	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Bromobenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Chlorobromomethane	ND		18		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Bromoform	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Bromomethane	ND		9.2		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
2-Butanone (MEK)	ND		46		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
n-Butylbenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
sec-Butylbenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
tert-Butylbenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Carbon disulfide	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Carbon tetrachloride	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Chlorobenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Chloroethane	ND		9.2		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Chloroform	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Chloromethane	ND		9.2		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
2-Chlorotoluene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
4-Chlorotoluene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Chlorodibromomethane	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
1,3-Dichloropropane	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
1,1-Dichloropropene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
1,2-Dibromo-3-Chloropropane	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Ethylene Dibromide	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Dibromomethane	ND		9.2		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Dichlorodifluoromethane	ND		9.2		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
1,1-Dichloroethane	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
1,2-Dichloroethane	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
1,1-Dichloroethene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
cis-1,2-Dichloroethene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
1,2-Dichloropropane	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Ethylbenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Hexachlorobutadiene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
2-Hexanone	ND		46		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Isopropylbenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
4-Isopropyltoluene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Methylene Chloride	ND		9.2		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Naphthalene	ND		9.2		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
N-Propylbenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Styrene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Tetrachloroethene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1

Client Sample ID: SB-9 (11 1/2-12')

Lab Sample ID: 720-44232-30

Date Collected: 08/28/12 15:20

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Trichloroethene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Trichlorofluoromethane	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Vinyl acetate	ND		46		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Vinyl chloride	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Xylenes, Total	ND		9.2		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
2,2-Dichloropropane	ND		4.6		ug/Kg		08/29/12 14:45	08/29/12 22:34	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		08/29/12 14:45	08/29/12 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*45 - 131*	*08/29/12 14:45*	*08/29/12 22:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*	*08/29/12 14:45*	*08/29/12 22:34*	*1*
Toluene-d8 (Surr)	*95*		*58 - 140*	*08/29/12 14:45*	*08/29/12 22:34*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		08/30/12 14:51	08/31/12 15:37	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/30/12 14:51	08/31/12 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.006*		*0 - 1*	*08/30/12 14:51*	*08/31/12 15:37*	*1*
p-Terphenyl	*98*		*38 - 148*	*08/30/12 14:51*	*08/31/12 15:37*	*1*

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-9 (17-17 1/2')
Date Collected: 08/28/12 15:25
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-31
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Acetone	ND		50		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Benzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Bromobenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Chlorobromomethane	ND		20		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Bromoform	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Bromomethane	ND		10		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
2-Butanone (MEK)	ND		50		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
n-Butylbenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
sec-Butylbenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
tert-Butylbenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Carbon disulfide	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Chlorobenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Chloroethane	ND		10		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Chloroform	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Chloromethane	ND		10		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
2-Chlorotoluene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
4-Chlorotoluene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Dibromomethane	ND		10		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Dichlorodifluoromethane	ND		10		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Ethylbenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Hexachlorobutadiene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
2-Hexanone	ND		50		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Isopropylbenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
4-Isopropyltoluene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Methylene Chloride	ND		10		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Naphthalene	ND		10		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
N-Propylbenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Styrene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Tetrachloroethene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-9 (17-17 1/2')
Date Collected: 08/28/12 15:25
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-31
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Trichloroethene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Trichlorofluoromethane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Vinyl acetate	ND		50		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Vinyl chloride	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Xylenes, Total	ND		10		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/29/12 20:15	08/30/12 06:10	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/29/12 20:15	08/30/12 06:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*83*		*45 - 131*	*08/29/12 20:15*	*08/30/12 06:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*	*08/29/12 20:15*	*08/30/12 06:10*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*	*08/29/12 20:15*	*08/30/12 06:10*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		08/30/12 14:51	08/31/12 16:02	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/30/12 14:51	08/31/12 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.006*		*0 - 1*	*08/30/12 14:51*	*08/31/12 16:02*	*1*
p-Terphenyl	*99*		*38 - 148*	*08/30/12 14:51*	*08/31/12 16:02*	*1*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-6 (1-1 1/2')

Lab Sample ID: 720-44232-32

Date Collected: 08/28/12 15:40
Matrix: Solid
Date Received: 08/28/12 19:00

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		25		ug/Kg		08/31/12 09:41	09/02/12 18:14	5
Acenaphthylene	ND		25		ug/Kg		08/31/12 09:41	09/02/12 18:14	5
Anthracene	ND		25		ug/Kg		08/31/12 09:41	09/02/12 18:14	5
Benzo[a]anthracene	ND		25		ug/Kg		08/31/12 09:41	09/02/12 18:14	5
Benzo[a]pyrene	ND		25		ug/Kg		08/31/12 09:41	09/02/12 18:14	5
Benzo[b]fluoranthene	**32**		25		ug/Kg		08/31/12 09:41	09/02/12 18:14	5
Benzo[g,h,i]perylene	ND		25		ug/Kg		08/31/12 09:41	09/02/12 18:14	5
Benzo[k]fluoranthene	ND		25		ug/Kg		08/31/12 09:41	09/02/12 18:14	5
Chrysene	ND		25		ug/Kg		08/31/12 09:41	09/02/12 18:14	5
Dibenz(a,h)anthracene	ND		25		ug/Kg		08/31/12 09:41	09/02/12 18:14	5
Fluoranthene	ND		25		ug/Kg		08/31/12 09:41	09/02/12 18:14	5
Fluorene	ND		25		ug/Kg		08/31/12 09:41	09/02/12 18:14	5
Indeno[1,2,3-cd]pyrene	ND		25		ug/Kg		08/31/12 09:41	09/02/12 18:14	5
Naphthalene	ND		25		ug/Kg		08/31/12 09:41	09/02/12 18:14	5
Phenanthrene	ND		25		ug/Kg		08/31/12 09:41	09/02/12 18:14	5
Pyrene	ND		25		ug/Kg		08/31/12 09:41	09/02/12 18:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*33 - 120*	*08/31/12 09:41*	*09/02/12 18:14*	*5*
Terphenyl-d14	*80*		*35 - 146*	*08/31/12 09:41*	*09/02/12 18:14*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**19**		0.99		mg/Kg		08/30/12 14:51	08/31/12 16:26	1
Motor Oil Range Organics [C24-C36]	**70**		50		mg/Kg		08/30/12 14:51	08/31/12 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.001*		*0 - 1*	*08/30/12 14:51*	*08/31/12 16:26*	*1*
p-Terphenyl	*78*		*38 - 148*	*08/30/12 14:51*	*08/31/12 16:26*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:41	1
Dieldrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:41	1
Endrin aldehyde	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:41	1
Endrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:41	1
Endrin ketone	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:41	1
Heptachlor	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:41	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:41	1
4,4'-DDT	**4.7**		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:41	1
4,4'-DDE	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:41	1
4,4'-DDD	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:41	1
Endosulfan I	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:41	1
Endosulfan II	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:41	1
alpha-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:41	1
beta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:41	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:41	1
delta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:41	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:41	1
Methoxychlor	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:41	1
Toxaphene	ND		40		ug/Kg		08/30/12 14:19	08/31/12 23:41	1

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-6 (1-1 1/2')

Date Collected: 08/28/12 15:40
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-32

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		40		ug/Kg		08/30/12 14:19	08/31/12 23:41	1
alpha-Chlordane	**3.9**		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:41	1
gamma-Chlordane	**3.2**		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*34 - 110*	*08/30/12 14:19*	*08/31/12 23:41*	*1*
DCB Decachlorobiphenyl	*89*		*21 - 136*	*08/30/12 14:19*	*08/31/12 23:41*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		08/30/12 14:16	08/31/12 20:10	1
PCB-1221	ND		50		ug/Kg		08/30/12 14:16	08/31/12 20:10	1
PCB-1232	ND		50		ug/Kg		08/30/12 14:16	08/31/12 20:10	1
PCB-1242	ND		50		ug/Kg		08/30/12 14:16	08/31/12 20:10	1
PCB-1248	ND		50		ug/Kg		08/30/12 14:16	08/31/12 20:10	1
PCB-1254	ND		50		ug/Kg		08/30/12 14:16	08/31/12 20:10	1
PCB-1260	ND		50		ug/Kg		08/30/12 14:16	08/31/12 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*32 - 112*	*08/30/12 14:16*	*08/31/12 20:10*	*1*
DCB Decachlorobiphenyl	*83*		*2 - 122*	*08/30/12 14:16*	*08/31/12 20:10*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		mg/Kg		08/30/12 12:25	08/31/12 10:53	4
Arsenic	**10**		3.9		mg/Kg		08/30/12 12:25	08/31/12 10:53	4
Barium	**200**		2.0		mg/Kg		08/30/12 12:25	08/31/12 10:53	4
Beryllium	ND		0.39		mg/Kg		08/30/12 12:25	08/31/12 10:53	4
Cadmium	ND		0.49		mg/Kg		08/30/12 12:25	08/31/12 10:53	4
Chromium	**130**		2.0		mg/Kg		08/30/12 12:25	08/31/12 10:53	4
Cobalt	**22**		0.78		mg/Kg		08/30/12 12:25	08/31/12 10:53	4
Copper	**67**		5.9		mg/Kg		08/30/12 12:25	08/31/12 10:53	4
Lead	**21**		2.0		mg/Kg		08/30/12 12:25	08/31/12 10:53	4
Molybdenum	ND		2.0		mg/Kg		08/30/12 12:25	08/31/12 10:53	4
Nickel	**160**		2.0		mg/Kg		08/30/12 12:25	08/31/12 10:53	4
Selenium	ND		3.9		mg/Kg		08/30/12 12:25	08/31/12 10:53	4
Silver	ND		0.98		mg/Kg		08/30/12 12:25	08/31/12 10:53	4
Thallium	ND		2.0		mg/Kg		08/30/12 12:25	08/31/12 10:53	4
Vanadium	**78**		2.0		mg/Kg		08/30/12 12:25	08/31/12 10:53	4
Zinc	**95**		5.9		mg/Kg		08/30/12 12:25	08/31/12 10:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.9**		0.046		mg/Kg		08/30/12 20:47	08/31/12 12:25	5

Client Sample ID: SB-5 (1-1 1/2')

Lab Sample ID: 720-44232-35

Date Collected: 08/28/12 15:52

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	64		5.0		mg/Kg		08/30/12 14:51	08/31/12 16:50	5
Motor Oil Range Organics [C24-C36]	320		250		mg/Kg		08/30/12 14:51	08/31/12 16:50	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/30/12 14:51*	*08/31/12 16:50*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/30/12 14:51*	*08/31/12 16:50*	*5*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:58	1
Dieldrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:58	1
Endrin aldehyde	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:58	1
Endrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:58	1
Endrin ketone	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:58	1
Heptachlor	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:58	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:58	1
4,4'-DDT	3.7		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:58	1
4,4'-DDE	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:58	1
4,4'-DDD	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:58	1
Endosulfan I	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:58	1
Endosulfan II	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:58	1
alpha-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:58	1
beta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:58	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:58	1
delta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:58	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:58	1
Methoxychlor	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:58	1
Toxaphene	ND		39		ug/Kg		08/30/12 14:19	08/31/12 23:58	1
Chlordane (technical)	ND		39		ug/Kg		08/30/12 14:19	08/31/12 23:58	1
alpha-Chlordane	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:58	1
gamma-Chlordane	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*34 - 110*	*08/30/12 14:19*	*08/31/12 23:58*	*1*
DCB Decachlorobiphenyl	*69*		*21 - 136*	*08/30/12 14:19*	*08/31/12 23:58*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		08/30/12 14:16	08/31/12 20:27	1
PCB-1221	ND		49		ug/Kg		08/30/12 14:16	08/31/12 20:27	1
PCB-1232	ND		49		ug/Kg		08/30/12 14:16	08/31/12 20:27	1
PCB-1242	ND		49		ug/Kg		08/30/12 14:16	08/31/12 20:27	1
PCB-1248	ND		49		ug/Kg		08/30/12 14:16	08/31/12 20:27	1
PCB-1254	ND		49		ug/Kg		08/30/12 14:16	08/31/12 20:27	1
PCB-1260	ND		49		ug/Kg		08/30/12 14:16	08/31/12 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*32 - 112*	*08/30/12 14:16*	*08/31/12 20:27*	*1*
DCB Decachlorobiphenyl	*76*		*2 - 122*	*08/30/12 14:16*	*08/31/12 20:27*	*1*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-5 (1-1 1/2')

Date Collected: 08/28/12 15:52
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-35

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:06	4
Arsenic	**7.4**		3.9		mg/Kg		08/30/12 12:25	08/31/12 11:06	4
Barium	**140**		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:06	4
Beryllium	ND		0.39		mg/Kg		08/30/12 12:25	08/31/12 11:06	4
Cadmium	ND		0.49		mg/Kg		08/30/12 12:25	08/31/12 11:06	4
Chromium	**61**		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:06	4
Cobalt	**15**		0.78		mg/Kg		08/30/12 12:25	08/31/12 11:06	4
Copper	**56**		5.8		mg/Kg		08/30/12 12:25	08/31/12 11:06	4
Lead	**15**		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:06	4
Molybdenum	ND		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:06	4
Nickel	**89**		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:06	4
Selenium	ND		3.9		mg/Kg		08/30/12 12:25	08/31/12 11:06	4
Silver	ND		0.97		mg/Kg		08/30/12 12:25	08/31/12 11:06	4
Thallium	ND		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:06	4
Vanadium	**52**		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:06	4
Zinc	**61**		5.8		mg/Kg		08/30/12 12:25	08/31/12 11:06	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.5**		0.0097		mg/Kg		08/30/12 20:47	08/31/12 10:39	1

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-5 (4-4 1/2')

Lab Sample ID: 720-44232-37

Date Collected: 08/28/12 15:55
Matrix: Solid
Date Received: 08/28/12 19:00

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**120**		5.0		mg/Kg		08/30/12 14:51	08/31/12 17:15	5
Motor Oil Range Organics [C24-C36]	**640**		250		mg/Kg		08/30/12 14:51	08/31/12 17:15	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/30/12 14:51*	*08/31/12 17:15*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/30/12 14:51*	*08/31/12 17:15*	*5*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		9.8		ug/Kg		08/30/12 14:19	09/01/12 00:16	5
Dieldrin	ND		9.8		ug/Kg		08/30/12 14:19	09/01/12 00:16	5
Endrin aldehyde	ND		9.8		ug/Kg		08/30/12 14:19	09/01/12 00:16	5
Endrin	ND		9.8		ug/Kg		08/30/12 14:19	09/01/12 00:16	5
Endrin ketone	ND		9.8		ug/Kg		08/30/12 14:19	09/01/12 00:16	5
Heptachlor	ND		9.8		ug/Kg		08/30/12 14:19	09/01/12 00:16	5
Heptachlor epoxide	ND		9.8		ug/Kg		08/30/12 14:19	09/01/12 00:16	5
4,4'-DDT	**14**		9.8		ug/Kg		08/30/12 14:19	09/01/12 00:16	5
4,4'-DDE	ND		9.8		ug/Kg		08/30/12 14:19	09/01/12 00:16	5
4,4'-DDD	ND		9.8		ug/Kg		08/30/12 14:19	09/01/12 00:16	5
Endosulfan I	ND		9.8		ug/Kg		08/30/12 14:19	09/01/12 00:16	5
Endosulfan II	ND		9.8		ug/Kg		08/30/12 14:19	09/01/12 00:16	5
alpha-BHC	ND		9.8		ug/Kg		08/30/12 14:19	09/01/12 00:16	5
beta-BHC	ND		9.8		ug/Kg		08/30/12 14:19	09/01/12 00:16	5
gamma-BHC (Lindane)	ND		9.8		ug/Kg		08/30/12 14:19	09/01/12 00:16	5
delta-BHC	ND		9.8		ug/Kg		08/30/12 14:19	09/01/12 00:16	5
Endosulfan sulfate	ND		9.8		ug/Kg		08/30/12 14:19	09/01/12 00:16	5
Methoxychlor	ND		9.8		ug/Kg		08/30/12 14:19	09/01/12 00:16	5
Toxaphene	ND		200		ug/Kg		08/30/12 14:19	09/01/12 00:16	5
Chlordane (technical)	ND		200		ug/Kg		08/30/12 14:19	09/01/12 00:16	5
alpha-Chlordane	**22**		9.8		ug/Kg		08/30/12 14:19	09/01/12 00:16	5
gamma-Chlordane	**20**		9.8		ug/Kg		08/30/12 14:19	09/01/12 00:16	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*34 - 110*	*08/30/12 14:19*	*09/01/12 00:16*	*5*
DCB Decachlorobiphenyl	*81*		*21 - 136*	*08/30/12 14:19*	*09/01/12 00:16*	*5*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		490		ug/Kg		08/30/12 14:16	08/31/12 20:44	10
PCB-1221	ND		490		ug/Kg		08/30/12 14:16	08/31/12 20:44	10
PCB-1232	ND		490		ug/Kg		08/30/12 14:16	08/31/12 20:44	10
PCB-1242	ND		490		ug/Kg		08/30/12 14:16	08/31/12 20:44	10
PCB-1248	ND		490		ug/Kg		08/30/12 14:16	08/31/12 20:44	10
PCB-1254	**1500**		490		ug/Kg		08/30/12 14:16	08/31/12 20:44	10
PCB-1260	ND		490		ug/Kg		08/30/12 14:16	08/31/12 20:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X D*	*32 - 112*	*08/30/12 14:16*	*08/31/12 20:44*	*10*
DCB Decachlorobiphenyl	*0*	*X D*	*2 - 122*	*08/30/12 14:16*	*08/31/12 20:44*	*10*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-5 (4-4 1/2')

Date Collected: 08/28/12 15:55
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-37

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:11	4
Arsenic	**7.4**		3.9		mg/Kg		08/30/12 12:25	08/31/12 11:11	4
Barium	**170**		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:11	4
Beryllium	ND		0.39		mg/Kg		08/30/12 12:25	08/31/12 11:11	4
Cadmium	ND		0.49		mg/Kg		08/30/12 12:25	08/31/12 11:11	4
Chromium	**85**		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:11	4
Cobalt	**14**		0.78		mg/Kg		08/30/12 12:25	08/31/12 11:11	4
Copper	**95**		5.8		mg/Kg		08/30/12 12:25	08/31/12 11:11	4
Lead	**240**		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:11	4
Molybdenum	ND		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:11	4
Nickel	**130**		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:11	4
Selenium	ND		3.9		mg/Kg		08/30/12 12:25	08/31/12 11:11	4
Silver	ND		0.97		mg/Kg		08/30/12 12:25	08/31/12 11:11	4
Thallium	ND		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:11	4
Vanadium	**43**		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:11	4
Zinc	**290**		5.8		mg/Kg		08/30/12 12:25	08/31/12 11:11	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**9.7**		0.17		mg/Kg		08/30/12 20:47	08/31/12 11:42	20

Client Sample ID: SB-2 (1-1 1/2')

Lab Sample ID: 720-44232-38

Date Collected: 08/28/12 15:30

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	15		0.99		mg/Kg		08/30/12 14:51	08/31/12 17:39	1
Motor Oil Range Organics [C24-C36]	65		49		mg/Kg		08/30/12 14:51	08/31/12 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.005*		*0 - 1*	*08/30/12 14:51*	*08/31/12 17:39*	*1*
p-Terphenyl	*79*		*38 - 148*	*08/30/12 14:51*	*08/31/12 17:39*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:34	1
Dieldrin	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:34	1
Endrin aldehyde	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:34	1
Endrin	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:34	1
Endrin ketone	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:34	1
Heptachlor	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:34	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:34	1
4,4'-DDT	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:34	1
4,4'-DDE	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:34	1
4,4'-DDD	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:34	1
Endosulfan I	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:34	1
Endosulfan II	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:34	1
alpha-BHC	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:34	1
beta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:34	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:34	1
delta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:34	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:34	1
Methoxychlor	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:34	1
Toxaphene	ND		40		ug/Kg		08/30/12 14:19	09/01/12 00:34	1
Chlordane (technical)	ND		40		ug/Kg		08/30/12 14:19	09/01/12 00:34	1
alpha-Chlordane	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:34	1
gamma-Chlordane	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*34 - 110*	*08/30/12 14:19*	*09/01/12 00:34*	*1*
DCB Decachlorobiphenyl	*83*		*21 - 136*	*08/30/12 14:19*	*09/01/12 00:34*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		08/30/12 14:16	08/31/12 21:01	1
PCB-1221	ND		50		ug/Kg		08/30/12 14:16	08/31/12 21:01	1
PCB-1232	ND		50		ug/Kg		08/30/12 14:16	08/31/12 21:01	1
PCB-1242	ND		50		ug/Kg		08/30/12 14:16	08/31/12 21:01	1
PCB-1248	ND		50		ug/Kg		08/30/12 14:16	08/31/12 21:01	1
PCB-1254	ND		50		ug/Kg		08/30/12 14:16	08/31/12 21:01	1
PCB-1260	ND		50		ug/Kg		08/30/12 14:16	08/31/12 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*32 - 112*	*08/30/12 14:16*	*08/31/12 21:01*	*1*
DCB Decachlorobiphenyl	*76*		*2 - 122*	*08/30/12 14:16*	*08/31/12 21:01*	*1*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-2 (1-1 1/2')

Date Collected: 08/28/12 15:30
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-38

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		mg/Kg		08/30/12 12:25	08/31/12 11:15	4
Arsenic	**6.9**		4.0		mg/Kg		08/30/12 12:25	08/31/12 11:15	4
Barium	**220**		2.0		mg/Kg		08/30/12 12:25	08/31/12 11:15	4
Beryllium	ND		0.40		mg/Kg		08/30/12 12:25	08/31/12 11:15	4
Cadmium	ND		0.50		mg/Kg		08/30/12 12:25	08/31/12 11:15	4
Chromium	**140**		2.0		mg/Kg		08/30/12 12:25	08/31/12 11:15	4
Cobalt	**24**		0.79		mg/Kg		08/30/12 12:25	08/31/12 11:15	4
Copper	**53**		5.9		mg/Kg		08/30/12 12:25	08/31/12 11:15	4
Lead	**13**		2.0		mg/Kg		08/30/12 12:25	08/31/12 11:15	4
Molybdenum	ND		2.0		mg/Kg		08/30/12 12:25	08/31/12 11:15	4
Nickel	**200**		2.0		mg/Kg		08/30/12 12:25	08/31/12 11:15	4
Selenium	ND		4.0		mg/Kg		08/30/12 12:25	08/31/12 11:15	4
Silver	ND		0.99		mg/Kg		08/30/12 12:25	08/31/12 11:15	4
Thallium	ND		2.0		mg/Kg		08/30/12 12:25	08/31/12 11:15	4
Vanadium	**74**		2.0		mg/Kg		08/30/12 12:25	08/31/12 11:15	4
Zinc	**82**		5.9		mg/Kg		08/30/12 12:25	08/31/12 11:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.4**		0.010		mg/Kg		08/30/12 20:47	08/31/12 10:44	1

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-2 (2-2 1/2')

Lab Sample ID: 720-44232-39

Date Collected: 08/28/12 15:40

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.9		ug/Kg		08/31/12 09:41	09/02/12 18:37	1
Acenaphthylene	**92**		4.9		ug/Kg		08/31/12 09:41	09/02/12 18:37	1
Anthracene	**32**		4.9		ug/Kg		08/31/12 09:41	09/02/12 18:37	1
Benzo[a]anthracene	**120**		4.9		ug/Kg		08/31/12 09:41	09/02/12 18:37	1
Benzo[a]pyrene	**220**		4.9		ug/Kg		08/31/12 09:41	09/02/12 18:37	1
Benzo[b]fluoranthene	**270**		4.9		ug/Kg		08/31/12 09:41	09/02/12 18:37	1
Benzo[g,h,i]perylene	**130**		4.9		ug/Kg		08/31/12 09:41	09/02/12 18:37	1
Benzo[k]fluoranthene	**100**		4.9		ug/Kg		08/31/12 09:41	09/02/12 18:37	1
Chrysene	**220**		4.9		ug/Kg		08/31/12 09:41	09/02/12 18:37	1
Dibenz(a,h)anthracene	**21**		4.9		ug/Kg		08/31/12 09:41	09/02/12 18:37	1
Fluoranthene	**600**		4.9		ug/Kg		08/31/12 09:41	09/02/12 18:37	1
Fluorene	**20**		4.9		ug/Kg		08/31/12 09:41	09/02/12 18:37	1
Indeno[1,2,3-cd]pyrene	**110**		4.9		ug/Kg		08/31/12 09:41	09/02/12 18:37	1
Naphthalene	**140**		4.9		ug/Kg		08/31/12 09:41	09/02/12 18:37	1
Phenanthrene	**510**		4.9		ug/Kg		08/31/12 09:41	09/02/12 18:37	1
Pyrene	**650**		4.9		ug/Kg		08/31/12 09:41	09/02/12 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*33 - 120*	*08/31/12 09:41*	*09/02/12 18:37*	*1*
Terphenyl-d14	*87*		*35 - 146*	*08/31/12 09:41*	*09/02/12 18:37*	*1*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-2 (4-4 1/2')

Lab Sample ID: 720-44232-40

Date Collected: 08/28/12 15:50
Matrix: Solid
Date Received: 08/28/12 19:00

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/30/12 14:51	08/31/12 18:04	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/30/12 14:51	08/31/12 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.2*		*0 - 1*	*08/30/12 14:51*	*08/31/12 18:04*	*1*
p-Terphenyl	*79*		*38 - 148*	*08/30/12 14:51*	*08/31/12 18:04*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:52	1
Dieldrin	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:52	1
Endrin aldehyde	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:52	1
Endrin	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:52	1
Endrin ketone	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:52	1
Heptachlor	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:52	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:52	1
4,4'-DDT	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:52	1
4,4'-DDE	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:52	1
4,4'-DDD	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:52	1
Endosulfan I	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:52	1
Endosulfan II	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:52	1
alpha-BHC	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:52	1
beta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:52	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:52	1
delta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:52	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:52	1
Methoxychlor	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:52	1
Toxaphene	ND		40		ug/Kg		08/30/12 14:19	09/01/12 00:52	1
Chlordane (technical)	ND		40		ug/Kg		08/30/12 14:19	09/01/12 00:52	1
alpha-Chlordane	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:52	1
gamma-Chlordane	ND		2.0		ug/Kg		08/30/12 14:19	09/01/12 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*34 - 110*	*08/30/12 14:19*	*09/01/12 00:52*	*1*
DCB Decachlorobiphenyl	*80*		*21 - 136*	*08/30/12 14:19*	*09/01/12 00:52*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		08/30/12 14:16	08/31/12 21:19	1
PCB-1221	ND		50		ug/Kg		08/30/12 14:16	08/31/12 21:19	1
PCB-1232	ND		50		ug/Kg		08/30/12 14:16	08/31/12 21:19	1
PCB-1242	ND		50		ug/Kg		08/30/12 14:16	08/31/12 21:19	1
PCB-1248	ND		50		ug/Kg		08/30/12 14:16	08/31/12 21:19	1
PCB-1254	ND		50		ug/Kg		08/30/12 14:16	08/31/12 21:19	1
PCB-1260	ND		50		ug/Kg		08/30/12 14:16	08/31/12 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*32 - 112*	*08/30/12 14:16*	*08/31/12 21:19*	*1*
DCB Decachlorobiphenyl	*81*		*2 - 122*	*08/30/12 14:16*	*08/31/12 21:19*	*1*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-2 (4-4 1/2')

Date Collected: 08/28/12 15:50
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-40

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		mg/Kg		08/30/12 12:25	08/31/12 11:19	4
Arsenic	**5.6**		4.0		mg/Kg		08/30/12 12:25	08/31/12 11:19	4
Barium	**300**		2.0		mg/Kg		08/30/12 12:25	08/31/12 11:19	4
Beryllium	**0.50**		0.40		mg/Kg		08/30/12 12:25	08/31/12 11:19	4
Cadmium	ND		0.50		mg/Kg		08/30/12 12:25	08/31/12 11:19	4
Chromium	**170**		2.0		mg/Kg		08/30/12 12:25	08/31/12 11:19	4
Cobalt	**30**		0.79		mg/Kg		08/30/12 12:25	08/31/12 11:19	4
Copper	**52**		5.9		mg/Kg		08/30/12 12:25	08/31/12 11:19	4
Lead	**7.9**		2.0		mg/Kg		08/30/12 12:25	08/31/12 11:19	4
Molybdenum	ND		2.0		mg/Kg		08/30/12 12:25	08/31/12 11:19	4
Nickel	**240**		2.0		mg/Kg		08/30/12 12:25	08/31/12 11:19	4
Selenium	ND		4.0		mg/Kg		08/30/12 12:25	08/31/12 11:19	4
Silver	ND		0.99		mg/Kg		08/30/12 12:25	08/31/12 11:19	4
Thallium	ND		2.0		mg/Kg		08/30/12 12:25	08/31/12 11:19	4
Vanadium	**83**		2.0		mg/Kg		08/30/12 12:25	08/31/12 11:19	4
Zinc	**79**		5.9		mg/Kg		08/30/12 12:25	08/31/12 11:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**17**		0.20		mg/Kg		08/30/12 20:47	08/31/12 11:44	20

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-4 (1-1 1/2')

Date Collected: 08/28/12 16:00
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-41

Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		49		ug/Kg		08/31/12 09:41	09/02/12 19:01	10
Acenaphthylene	ND		49		ug/Kg		08/31/12 09:41	09/02/12 19:01	10
Anthracene	ND		49		ug/Kg		08/31/12 09:41	09/02/12 19:01	10
Benzo[a]anthracene	ND		49		ug/Kg		08/31/12 09:41	09/02/12 19:01	10
Benzo[a]pyrene	ND		49		ug/Kg		08/31/12 09:41	09/02/12 19:01	10
Benzo[b]fluoranthene	**66**		49		ug/Kg		08/31/12 09:41	09/02/12 19:01	10
Benzo[g,h,i]perylene	**62**		49		ug/Kg		08/31/12 09:41	09/02/12 19:01	10
Benzo[k]fluoranthene	ND		49		ug/Kg		08/31/12 09:41	09/02/12 19:01	10
Chrysene	ND		49		ug/Kg		08/31/12 09:41	09/02/12 19:01	10
Dibenz(a,h)anthracene	ND		49		ug/Kg		08/31/12 09:41	09/02/12 19:01	10
Fluoranthene	ND		49		ug/Kg		08/31/12 09:41	09/02/12 19:01	10
Fluorene	ND		49		ug/Kg		08/31/12 09:41	09/02/12 19:01	10
Indeno[1,2,3-cd]pyrene	ND		49		ug/Kg		08/31/12 09:41	09/02/12 19:01	10
Naphthalene	ND		49		ug/Kg		08/31/12 09:41	09/02/12 19:01	10
Phenanthrene	ND		49		ug/Kg		08/31/12 09:41	09/02/12 19:01	10
Pyrene	ND		49		ug/Kg		08/31/12 09:41	09/02/12 19:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*33 - 120*	*08/31/12 09:41*	*09/02/12 19:01*	*10*
Terphenyl-d14	*87*		*35 - 146*	*08/31/12 09:41*	*09/02/12 19:01*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**110**		3.0		mg/Kg		08/30/12 14:51	08/31/12 18:28	3
Motor Oil Range Organics [C24-C36]	**390**		150		mg/Kg		08/30/12 14:51	08/31/12 18:28	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.6*		*0 - 1*	*08/30/12 14:51*	*08/31/12 18:28*	*3*
p-Terphenyl	*70*		*38 - 148*	*08/30/12 14:51*	*08/31/12 18:28*	*3*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.9		ug/Kg		08/30/12 14:19	09/01/12 01:11	1
Dieldrin	ND		1.9		ug/Kg		08/30/12 14:19	09/01/12 01:11	1
Endrin aldehyde	ND		1.9		ug/Kg		08/30/12 14:19	09/01/12 01:11	1
Endrin	ND		1.9		ug/Kg		08/30/12 14:19	09/01/12 01:11	1
Endrin ketone	ND		1.9		ug/Kg		08/30/12 14:19	09/01/12 01:11	1
Heptachlor	ND		1.9		ug/Kg		08/30/12 14:19	09/01/12 01:11	1
Heptachlor epoxide	ND		1.9		ug/Kg		08/30/12 14:19	09/01/12 01:11	1
4,4'-DDT	**3.5**		1.9		ug/Kg		08/30/12 14:19	09/01/12 01:11	1
4,4'-DDE	ND		1.9		ug/Kg		08/30/12 14:19	09/01/12 01:11	1
4,4'-DDD	ND		1.9		ug/Kg		08/30/12 14:19	09/01/12 01:11	1
Endosulfan I	ND		1.9		ug/Kg		08/30/12 14:19	09/01/12 01:11	1
Endosulfan II	ND		1.9		ug/Kg		08/30/12 14:19	09/01/12 01:11	1
alpha-BHC	ND		1.9		ug/Kg		08/30/12 14:19	09/01/12 01:11	1
beta-BHC	ND		1.9		ug/Kg		08/30/12 14:19	09/01/12 01:11	1
gamma-BHC (Lindane)	ND		1.9		ug/Kg		08/30/12 14:19	09/01/12 01:11	1
delta-BHC	ND		1.9		ug/Kg		08/30/12 14:19	09/01/12 01:11	1
Endosulfan sulfate	ND		1.9		ug/Kg		08/30/12 14:19	09/01/12 01:11	1
Methoxychlor	ND		1.9		ug/Kg		08/30/12 14:19	09/01/12 01:11	1
Toxaphene	ND		39		ug/Kg		08/30/12 14:19	09/01/12 01:11	1

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-4 (1-1 1/2')

Date Collected: 08/28/12 16:00
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-41

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		39		ug/Kg		08/30/12 14:19	09/01/12 01:11	1
alpha-Chlordane	ND		1.9		ug/Kg		08/30/12 14:19	09/01/12 01:11	1
gamma-Chlordane	ND		1.9		ug/Kg		08/30/12 14:19	09/01/12 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*34 - 110*	*08/30/12 14:19*	*09/01/12 01:11*	*1*
DCB Decachlorobiphenyl	*61*		*21 - 136*	*08/30/12 14:19*	*09/01/12 01:11*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		08/30/12 14:16	08/31/12 21:36	1
PCB-1221	ND		49		ug/Kg		08/30/12 14:16	08/31/12 21:36	1
PCB-1232	ND		49		ug/Kg		08/30/12 14:16	08/31/12 21:36	1
PCB-1242	ND		49		ug/Kg		08/30/12 14:16	08/31/12 21:36	1
PCB-1248	ND		49		ug/Kg		08/30/12 14:16	08/31/12 21:36	1
PCB-1254	ND		49		ug/Kg		08/30/12 14:16	08/31/12 21:36	1
PCB-1260	**49**		49		ug/Kg		08/30/12 14:16	08/31/12 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*32 - 112*	*08/30/12 14:16*	*08/31/12 21:36*	*1*
DCB Decachlorobiphenyl	*72*		*2 - 122*	*08/30/12 14:16*	*08/31/12 21:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:24	4
Arsenic	**5.4**		3.8		mg/Kg		08/30/12 12:25	08/31/12 11:24	4
Barium	**150**		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:24	4
Beryllium	ND		0.38		mg/Kg		08/30/12 12:25	08/31/12 11:24	4
Cadmium	ND		0.48		mg/Kg		08/30/12 12:25	08/31/12 11:24	4
Chromium	**91**		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:24	4
Cobalt	**18**		0.77		mg/Kg		08/30/12 12:25	08/31/12 11:24	4
Copper	**35**		5.8		mg/Kg		08/30/12 12:25	08/31/12 11:24	4
Lead	**18**		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:24	4
Molybdenum	ND		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:24	4
Nickel	**120**		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:24	4
Selenium	ND		3.8		mg/Kg		08/30/12 12:25	08/31/12 11:24	4
Silver	ND		0.96		mg/Kg		08/30/12 12:25	08/31/12 11:24	4
Thallium	ND		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:24	4
Vanadium	**53**		1.9		mg/Kg		08/30/12 12:25	08/31/12 11:24	4
Zinc	**66**		5.8		mg/Kg		08/30/12 12:25	08/31/12 11:24	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.97**		0.0097		mg/Kg		09/04/12 08:57	09/04/12 19:25	1

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-4 (2-2 1/2')

Lab Sample ID: 720-44232-42

Date Collected: 08/28/12 16:10

Matrix: Solid

Date Received: 08/28/12 19:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.99		mg/Kg		08/30/12 17:30	08/31/12 13:05	1

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-1 (2-2 1/2')

Lab Sample ID: 720-44232-44

Date Collected: 08/28/12 16:20

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 19:33	1
Acenaphthylene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 19:33	1
Anthracene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 19:33	1
Benzo[a]anthracene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 19:33	1
Benzo[a]pyrene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 19:33	1
Benzo[b]fluoranthene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 19:33	1
Benzo[g,h,i]perylene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 19:33	1
Benzo[k]fluoranthene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 19:33	1
Chrysene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 19:33	1
Dibenz(a,h)anthracene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 19:33	1
Fluoranthene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 19:33	1
Fluorene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 19:33	1
Indeno[1,2,3-cd]pyrene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 19:33	1
Naphthalene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 19:33	1
Phenanthrene	**5.9**		4.9		ug/Kg		08/31/12 09:41	09/01/12 19:33	1
Pyrene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*33 - 120*	*08/31/12 09:41*	*09/01/12 19:33*	*1*
Terphenyl-d14	*94*		*35 - 146*	*08/31/12 09:41*	*09/01/12 19:33*	*1*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-1 (4-4 1/2')

Lab Sample ID: 720-44232-45

Date Collected: 08/28/12 16:25
Date Received: 08/28/12 19:00

Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/30/12 14:51	08/31/12 20:06	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/30/12 14:51	08/31/12 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.04*		*0 - 1*	*08/30/12 14:51*	*08/31/12 20:06*	*1*
p-Terphenyl	*91*		*38 - 148*	*08/30/12 14:51*	*08/31/12 20:06*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 21:02	1
Dieldrin	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 21:02	1
Endrin aldehyde	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 21:02	1
Endrin	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 21:02	1
Endrin ketone	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 21:02	1
Heptachlor	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 21:02	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 21:02	1
4,4'-DDT	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 21:02	1
4,4'-DDE	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 21:02	1
4,4'-DDD	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 21:02	1
Endosulfan I	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 21:02	1
Endosulfan II	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 21:02	1
alpha-BHC	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 21:02	1
beta-BHC	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 21:02	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 21:02	1
delta-BHC	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 21:02	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 21:02	1
Methoxychlor	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 21:02	1
Toxaphene	ND		40		ug/Kg		08/31/12 13:47	09/04/12 21:02	1
Chlordane (technical)	ND		40		ug/Kg		08/31/12 13:47	09/04/12 21:02	1
alpha-Chlordane	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 21:02	1
gamma-Chlordane	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*34 - 110*	*08/31/12 13:47*	*09/04/12 21:02*	*1*
DCB Decachlorobiphenyl	*101*		*21 - 136*	*08/31/12 13:47*	*09/04/12 21:02*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		08/31/12 13:47	09/04/12 17:03	1
PCB-1221	ND		50		ug/Kg		08/31/12 13:47	09/04/12 17:03	1
PCB-1232	ND		50		ug/Kg		08/31/12 13:47	09/04/12 17:03	1
PCB-1242	ND		50		ug/Kg		08/31/12 13:47	09/04/12 17:03	1
PCB-1248	ND		50		ug/Kg		08/31/12 13:47	09/04/12 17:03	1
PCB-1254	ND		50		ug/Kg		08/31/12 13:47	09/04/12 17:03	1
PCB-1260	ND		50		ug/Kg		08/31/12 13:47	09/04/12 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*32 - 112*	*08/31/12 13:47*	*09/04/12 17:03*	*1*
DCB Decachlorobiphenyl	*81*		*2 - 122*	*08/31/12 13:47*	*09/04/12 17:03*	*1*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-1 (4-4 1/2')

Date Collected: 08/28/12 16:25
Date Received: 08/28/12 19:00

Lab Sample ID: 720-44232-45

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.3**		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:27	4
Arsenic	**4.6**		3.9		mg/Kg		08/30/12 16:51	08/31/12 19:27	4
Barium	**180**		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:27	4
Beryllium	ND		0.39		mg/Kg		08/30/12 16:51	08/31/12 19:27	4
Cadmium	ND		0.49		mg/Kg		08/30/12 16:51	08/31/12 19:27	4
Chromium	**150**		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:27	4
Cobalt	**24**		0.78		mg/Kg		08/30/12 16:51	08/31/12 19:27	4
Copper	**39**		5.9		mg/Kg		08/30/12 16:51	08/31/12 19:27	4
Lead	**10**		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:27	4
Molybdenum	ND		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:27	4
Nickel	**210**		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:27	4
Selenium	ND		3.9		mg/Kg		08/30/12 16:51	08/31/12 19:27	4
Silver	ND		0.98		mg/Kg		08/30/12 16:51	08/31/12 19:27	4
Thallium	ND		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:27	4
Vanadium	**70**		2.0		mg/Kg		08/30/12 16:51	08/31/12 19:27	4
Zinc	**68**		5.9		mg/Kg		08/30/12 16:51	08/31/12 19:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**9.5**		0.20		mg/Kg		09/04/12 08:57	09/04/12 20:01	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-119997/1-A
Matrix: Solid
Analysis Batch: 119985

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 119997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Acetone	ND		50		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Benzene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Bromobenzene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Chlorobromomethane	ND		20		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Bromoform	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Bromomethane	ND		10		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
2-Butanone (MEK)	ND		50		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
n-Butylbenzene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
sec-Butylbenzene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
tert-Butylbenzene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Carbon disulfide	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Chlorobenzene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Chloroethane	ND		10		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Chloroform	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Chloromethane	ND		10		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
2-Chlorotoluene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
4-Chlorotoluene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Dibromomethane	ND		10		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Dichlorodifluoromethane	ND		10		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Ethylbenzene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Hexachlorobutadiene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
2-Hexanone	ND		50		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Isopropylbenzene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
4-Isopropyltoluene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Methylene Chloride	ND		10		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Naphthalene	ND		10		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
N-Propylbenzene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Styrene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-119997/1-A
Matrix: Solid
Analysis Batch: 119985

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 119997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Tetrachloroethene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Toluene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Trichloroethene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Trichlorofluoromethane	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Vinyl acetate	ND		50		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Vinyl chloride	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Xylenes, Total	ND		10		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/29/12 13:00	08/29/12 14:12	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/29/12 13:00	08/29/12 14:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*45 - 131*	*08/29/12 13:00*	*08/29/12 14:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*	*08/29/12 13:00*	*08/29/12 14:12*	*1*
Toluene-d8 (Surr)	*102*		*58 - 140*	*08/29/12 13:00*	*08/29/12 14:12*	*1*

Lab Sample ID: LCS 720-119997/2-A
Matrix: Solid
Analysis Batch: 119985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 119997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	50.9		ug/Kg		102	70 - 144
Acetone	250	152		ug/Kg		61	30 - 162
Benzene	50.0	48.6		ug/Kg		97	70 - 130
Dichlorobromomethane	50.0	50.5		ug/Kg		101	70 - 131
Bromobenzene	50.0	48.0		ug/Kg		96	70 - 130
Chlorobromomethane	50.0	52.0		ug/Kg		104	70 - 130
Bromoform	50.0	53.9		ug/Kg		108	59 - 158
Bromomethane	50.0	48.3		ug/Kg		97	59 - 132
2-Butanone (MEK)	250	196		ug/Kg		78	53 - 124
n-Butylbenzene	50.0	43.9		ug/Kg		88	70 - 142
sec-Butylbenzene	50.0	44.9		ug/Kg		90	70 - 136
tert-Butylbenzene	50.0	45.3		ug/Kg		91	70 - 130
Carbon disulfide	50.0	46.7		ug/Kg		93	60 - 140
Carbon tetrachloride	50.0	47.5		ug/Kg		95	70 - 138
Chlorobenzene	50.0	48.4		ug/Kg		97	70 - 130
Chloroethane	50.0	47.8		ug/Kg		96	65 - 130
Chloroform	50.0	47.5		ug/Kg		95	77 - 127
Chloromethane	50.0	46.1		ug/Kg		92	55 - 140
2-Chlorotoluene	50.0	46.9		ug/Kg		94	70 - 138
4-Chlorotoluene	50.0	45.2		ug/Kg		90	70 - 136

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-119997/2-A
Matrix: Solid
Analysis Batch: 119985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 119997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	50.0	56.1		ug/Kg		112	70 - 146
1,2-Dichlorobenzene	50.0	47.9		ug/Kg		96	70 - 130
1,3-Dichlorobenzene	50.0	48.0		ug/Kg		96	70 - 131
1,4-Dichlorobenzene	50.0	45.6		ug/Kg		91	70 - 130
1,3-Dichloropropane	50.0	50.3		ug/Kg		101	70 - 140
1,1-Dichloropropene	50.0	47.9		ug/Kg		96	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	47.7		ug/Kg		95	60 - 145
Ethylene Dibromide	50.0	54.1		ug/Kg		108	70 - 140
Dibromomethane	50.0	50.6		ug/Kg		101	70 - 139
Dichlorodifluoromethane	50.0	35.6		ug/Kg		71	37 - 158
1,1-Dichloroethane	50.0	50.1		ug/Kg		100	70 - 130
1,2-Dichloroethane	50.0	49.5		ug/Kg		99	70 - 130
1,1-Dichloroethene	50.0	47.0		ug/Kg		94	76 - 122
cis-1,2-Dichloroethene	50.0	51.7		ug/Kg		103	70 - 138
trans-1,2-Dichloroethene	50.0	48.6		ug/Kg		97	67 - 130
1,2-Dichloropropane	50.0	52.7		ug/Kg		105	73 - 127
cis-1,3-Dichloropropene	50.0	54.9		ug/Kg		110	68 - 147
trans-1,3-Dichloropropene	50.0	53.9		ug/Kg		108	70 - 136
Ethylbenzene	50.0	46.1		ug/Kg		92	80 - 137
Hexachlorobutadiene	50.0	45.7		ug/Kg		91	70 - 132
2-Hexanone	250	232		ug/Kg		93	44 - 133
Isopropylbenzene	50.0	48.1		ug/Kg		96	88 - 128
4-Isopropyltoluene	50.0	45.7		ug/Kg		91	70 - 133
Methylene Chloride	50.0	48.1		ug/Kg		96	70 - 134
4-Methyl-2-pentanone (MIBK)	250	280		ug/Kg		112	60 - 160
Naphthalene	50.0	47.3		ug/Kg		95	60 - 147
N-Propylbenzene	50.0	46.7		ug/Kg		93	70 - 130
Styrene	50.0	49.6		ug/Kg		99	70 - 130
1,1,1,2-Tetrachloroethane	50.0	48.9		ug/Kg		98	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.7		ug/Kg		95	70 - 146
Tetrachloroethene	50.0	49.6		ug/Kg		99	70 - 132
Toluene	50.0	46.5		ug/Kg		93	80 - 128
1,2,3-Trichlorobenzene	50.0	45.5		ug/Kg		91	60 - 140
1,2,4-Trichlorobenzene	50.0	46.1		ug/Kg		92	60 - 140
1,1,1-Trichloroethane	50.0	46.2		ug/Kg		92	70 - 130
1,1,2-Trichloroethane	50.0	53.3		ug/Kg		107	70 - 130
Trichloroethene	50.0	51.2		ug/Kg		102	70 - 133
Trichlorofluoromethane	50.0	45.3		ug/Kg		91	60 - 140
1,2,3-Trichloropropane	50.0	49.4		ug/Kg		99	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.0		ug/Kg		92	60 - 140
1,2,4-Trimethylbenzene	50.0	45.4		ug/Kg		91	70 - 130
1,3,5-Trimethylbenzene	50.0	46.1		ug/Kg		92	70 - 131
Vinyl acetate	50.0	59.2		ug/Kg		118	38 - 176
Vinyl chloride	50.0	43.4		ug/Kg		87	58 - 125
m-Xylene & p-Xylene	100	99.6		ug/Kg		100	70 - 146
o-Xylene	50.0	48.2		ug/Kg		96	70 - 140
2,2-Dichloropropane	50.0	47.2		ug/Kg		94	70 - 162

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-119997/2-A
Matrix: Solid
Analysis Batch: 119985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 119997

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*102*		*58 - 140*

Lab Sample ID: LCS 720-119997/4-A
Matrix: Solid
Analysis Batch: 119985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 119997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1030		ug/Kg		103	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Lab Sample ID: LCSD 720-119997/3-A
Matrix: Solid
Analysis Batch: 119985

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 119997

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	50.6		ug/Kg		101	70 - 144	1	20
Acetone	250	158		ug/Kg		63	30 - 162	4	30
Benzene	50.0	48.7		ug/Kg		97	70 - 130	0	20
Dichlorobromomethane	50.0	50.3		ug/Kg		101	70 - 131	0	20
Bromobenzene	50.0	49.2		ug/Kg		98	70 - 130	3	20
Chlorobromomethane	50.0	51.8		ug/Kg		104	70 - 130	0	20
Bromoform	50.0	55.2		ug/Kg		110	59 - 158	3	20
Bromomethane	50.0	47.3		ug/Kg		95	59 - 132	2	20
2-Butanone (MEK)	250	203		ug/Kg		81	53 - 124	3	20
n-Butylbenzene	50.0	45.8		ug/Kg		92	70 - 142	4	20
sec-Butylbenzene	50.0	46.5		ug/Kg		93	70 - 136	3	20
tert-Butylbenzene	50.0	46.2		ug/Kg		92	70 - 130	2	20
Carbon disulfide	50.0	46.9		ug/Kg		94	60 - 140	1	20
Carbon tetrachloride	50.0	47.4		ug/Kg		95	70 - 138	0	20
Chlorobenzene	50.0	48.9		ug/Kg		98	70 - 130	1	20
Chloroethane	50.0	47.0		ug/Kg		94	65 - 130	2	20
Chloroform	50.0	47.4		ug/Kg		95	77 - 127	0	20
Chloromethane	50.0	46.1		ug/Kg		92	55 - 140	0	20
2-Chlorotoluene	50.0	48.3		ug/Kg		97	70 - 138	3	20
4-Chlorotoluene	50.0	47.2		ug/Kg		94	70 - 136	4	20
Chlorodibromomethane	50.0	56.0		ug/Kg		112	70 - 146	0	20
1,2-Dichlorobenzene	50.0	49.2		ug/Kg		98	70 - 130	3	20
1,3-Dichlorobenzene	50.0	49.6		ug/Kg		99	70 - 131	3	20
1,4-Dichlorobenzene	50.0	46.9		ug/Kg		94	70 - 130	3	20
1,3-Dichloropropane	50.0	51.7		ug/Kg		103	70 - 140	3	20
1,1-Dichloropropene	50.0	47.8		ug/Kg		96	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	50.0	49.6		ug/Kg		99	60 - 145	4	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-119997/3-A
Matrix: Solid
Analysis Batch: 119985

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 119997

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide	50.0	53.7		ug/Kg		107	70 - 140	1	20
Dibromomethane	50.0	51.2		ug/Kg		102	70 - 139	1	20
Dichlorodifluoromethane	50.0	36.9		ug/Kg		74	37 - 158	4	20
1,1-Dichloroethane	50.0	50.4		ug/Kg		101	70 - 130	1	20
1,2-Dichloroethane	50.0	49.1		ug/Kg		98	70 - 130	1	20
1,1-Dichloroethene	50.0	46.5		ug/Kg		93	76 - 122	1	20
cis-1,2-Dichloroethene	50.0	52.0		ug/Kg		104	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	48.7		ug/Kg		97	67 - 130	0	20
1,2-Dichloropropane	50.0	52.2		ug/Kg		104	73 - 127	1	20
cis-1,3-Dichloropropene	50.0	54.6		ug/Kg		109	68 - 147	0	20
trans-1,3-Dichloropropene	50.0	53.7		ug/Kg		107	70 - 136	0	20
Ethylbenzene	50.0	46.9		ug/Kg		94	80 - 137	2	20
Hexachlorobutadiene	50.0	45.9		ug/Kg		92	70 - 132	0	20
2-Hexanone	250	242		ug/Kg		97	44 - 133	4	20
Isopropylbenzene	50.0	49.3		ug/Kg		99	88 - 128	3	20
4-Isopropyltoluene	50.0	46.9		ug/Kg		94	70 - 133	3	20
Methylene Chloride	50.0	47.8		ug/Kg		96	70 - 134	1	20
4-Methyl-2-pentanone (MIBK)	250	276		ug/Kg		111	60 - 160	1	20
Naphthalene	50.0	50.7		ug/Kg		101	60 - 147	7	20
N-Propylbenzene	50.0	47.9		ug/Kg		96	70 - 130	3	20
Styrene	50.0	50.7		ug/Kg		101	70 - 130	2	20
1,1,1,2-Tetrachloroethane	50.0	49.8		ug/Kg		100	70 - 130	2	20
1,1,2,2-Tetrachloroethane	50.0	48.6		ug/Kg		97	70 - 146	2	20
Tetrachloroethene	50.0	49.4		ug/Kg		99	70 - 132	0	20
Toluene	50.0	47.6		ug/Kg		95	80 - 128	2	20
1,2,3-Trichlorobenzene	50.0	48.5		ug/Kg		97	60 - 140	6	20
1,2,4-Trichlorobenzene	50.0	47.9		ug/Kg		96	60 - 140	4	20
1,1,1-Trichloroethane	50.0	46.7		ug/Kg		93	70 - 130	1	20
1,1,2-Trichloroethane	50.0	53.9		ug/Kg		108	70 - 130	1	20
Trichloroethene	50.0	50.6		ug/Kg		101	70 - 133	1	20
Trichlorofluoromethane	50.0	44.3		ug/Kg		89	60 - 140	2	20
1,2,3-Trichloropropane	50.0	50.9		ug/Kg		102	70 - 146	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.5		ug/Kg		93	60 - 140	1	20
1,2,4-Trimethylbenzene	50.0	46.7		ug/Kg		93	70 - 130	3	20
1,3,5-Trimethylbenzene	50.0	47.4		ug/Kg		95	70 - 131	3	20
Vinyl acetate	50.0	58.9		ug/Kg		118	38 - 176	1	20
Vinyl chloride	50.0	43.1		ug/Kg		86	58 - 125	1	20
m-Xylene & p-Xylene	100	102		ug/Kg		102	70 - 146	2	20
o-Xylene	50.0	48.9		ug/Kg		98	70 - 140	1	20
2,2-Dichloropropane	50.0	48.6		ug/Kg		97	70 - 162	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-119997/5-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119985 — **Prep Batch: 119997**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	979		ug/Kg		98	61 - 128	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Lab Sample ID: MB 720-120024/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120001 — **Prep Batch: 120024**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Acetone	ND		50		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Benzene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Bromobenzene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Chlorobromomethane	ND		20		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Bromoform	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Bromomethane	ND		10		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
2-Butanone (MEK)	ND		50		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
n-Butylbenzene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
sec-Butylbenzene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
tert-Butylbenzene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Carbon disulfide	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Chlorobenzene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Chloroethane	ND		10		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Chloroform	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Chloromethane	ND		10		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
2-Chlorotoluene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
4-Chlorotoluene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Dibromomethane	ND		10		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Dichlorodifluoromethane	ND		10		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-120024/1-A
Matrix: Solid
Analysis Batch: 120001

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Ethylbenzene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Hexachlorobutadiene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
2-Hexanone	ND		50		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Isopropylbenzene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
4-Isopropyltoluene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Methylene Chloride	ND		10		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Naphthalene	ND		10		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
N-Propylbenzene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Styrene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Tetrachloroethene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Toluene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Trichloroethene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Trichlorofluoromethane	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Vinyl acetate	ND		50		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Vinyl chloride	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Xylenes, Total	ND		10		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/29/12 19:00	08/29/12 19:36	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/29/12 19:00	08/29/12 19:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*45 - 131*	*08/29/12 19:00*	*08/29/12 19:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 140*	*08/29/12 19:00*	*08/29/12 19:36*	*1*
Toluene-d8 (Surr)	*97*		*58 - 140*	*08/29/12 19:00*	*08/29/12 19:36*	*1*

Lab Sample ID: LCS 720-120024/2-A
Matrix: Solid
Analysis Batch: 120001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	56.9		ug/Kg		114	70 - 144
Acetone	250	184		ug/Kg		73	30 - 162
Benzene	50.0	55.3		ug/Kg		111	70 - 130
Dichlorobromomethane	50.0	56.4		ug/Kg		113	70 - 131
Bromobenzene	50.0	54.3		ug/Kg		109	70 - 130
Chlorobromomethane	50.0	55.5		ug/Kg		111	70 - 130
Bromoform	50.0	57.4		ug/Kg		115	59 - 158

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-120024/2-A
Matrix: Solid
Analysis Batch: 120001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	50.0	50.3		ug/Kg		101	59 - 132
2-Butanone (MEK)	250	258		ug/Kg		103	53 - 124
n-Butylbenzene	50.0	58.6		ug/Kg		117	70 - 142
sec-Butylbenzene	50.0	58.5		ug/Kg		117	70 - 136
tert-Butylbenzene	50.0	58.1		ug/Kg		116	70 - 130
Carbon disulfide	50.0	63.2		ug/Kg		126	60 - 140
Carbon tetrachloride	50.0	54.9		ug/Kg		110	70 - 138
Chlorobenzene	50.0	56.2		ug/Kg		112	70 - 130
Chloroethane	50.0	52.6		ug/Kg		105	65 - 130
Chloroform	50.0	53.4		ug/Kg		107	77 - 127
Chloromethane	50.0	49.6		ug/Kg		99	55 - 140
2-Chlorotoluene	50.0	58.6		ug/Kg		117	70 - 138
4-Chlorotoluene	50.0	56.9		ug/Kg		114	70 - 136
Chlorodibromomethane	50.0	57.0		ug/Kg		114	70 - 146
1,2-Dichlorobenzene	50.0	53.4		ug/Kg		107	70 - 130
1,3-Dichlorobenzene	50.0	56.4		ug/Kg		113	70 - 131
1,4-Dichlorobenzene	50.0	54.9		ug/Kg		110	70 - 130
1,3-Dichloropropane	50.0	58.0		ug/Kg		116	70 - 140
1,1-Dichloropropene	50.0	59.3		ug/Kg		119	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	54.2		ug/Kg		108	60 - 145
Ethylene Dibromide	50.0	59.3		ug/Kg		119	70 - 140
Dibromomethane	50.0	55.9		ug/Kg		112	70 - 139
Dichlorodifluoromethane	50.0	41.3		ug/Kg		83	37 - 158
1,1-Dichloroethane	50.0	55.2		ug/Kg		110	70 - 130
1,2-Dichloroethane	50.0	53.3		ug/Kg		107	70 - 130
1,1-Dichloroethene	50.0	56.4		ug/Kg		113	76 - 122
cis-1,2-Dichloroethene	50.0	57.3		ug/Kg		115	70 - 138
trans-1,2-Dichloroethene	50.0	54.6		ug/Kg		109	67 - 130
1,2-Dichloropropane	50.0	56.4		ug/Kg		113	73 - 127
cis-1,3-Dichloropropene	50.0	60.0		ug/Kg		120	68 - 147
trans-1,3-Dichloropropene	50.0	58.3		ug/Kg		117	70 - 136
Ethylbenzene	50.0	55.7		ug/Kg		111	80 - 137
Hexachlorobutadiene	50.0	47.2		ug/Kg		94	70 - 132
2-Hexanone	250	263		ug/Kg		105	44 - 133
Isopropylbenzene	50.0	59.7		ug/Kg		119	88 - 128
4-Isopropyltoluene	50.0	56.4		ug/Kg		113	70 - 133
Methylene Chloride	50.0	51.3		ug/Kg		103	70 - 134
4-Methyl-2-pentanone (MIBK)	250	303		ug/Kg		121	60 - 160
Naphthalene	50.0	50.5		ug/Kg		101	60 - 147
N-Propylbenzene	50.0	60.5		ug/Kg		121	70 - 130
Styrene	50.0	57.8		ug/Kg		116	70 - 130
1,1,1,2-Tetrachloroethane	50.0	53.7		ug/Kg		107	70 - 130
1,1,2,2-Tetrachloroethane	50.0	60.9		ug/Kg		122	70 - 146
Tetrachloroethene	50.0	57.2		ug/Kg		114	70 - 132
Toluene	50.0	55.9		ug/Kg		112	80 - 128
1,2,3-Trichlorobenzene	50.0	46.7		ug/Kg		93	60 - 140
1,2,4-Trichlorobenzene	50.0	46.8		ug/Kg		94	60 - 140
1,1,1-Trichloroethane	50.0	54.9		ug/Kg		110	70 - 130
1,1,2-Trichloroethane	50.0	58.1		ug/Kg		116	70 - 130
Trichloroethene	50.0	55.6		ug/Kg		111	70 - 133

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-120024/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120001 — **Prep Batch: 120024**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	49.4		ug/Kg		99	60 - 140
1,2,3-Trichloropropane	50.0	59.6		ug/Kg		119	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.0		ug/Kg		112	60 - 140
1,2,4-Trimethylbenzene	50.0	56.8		ug/Kg		114	70 - 130
1,3,5-Trimethylbenzene	50.0	57.9		ug/Kg		116	70 - 131
Vinyl acetate	50.0	56.6		ug/Kg		113	38 - 176
Vinyl chloride	50.0	50.1		ug/Kg		100	58 - 125
m-Xylene & p-Xylene	100	114		ug/Kg		114	70 - 146
o-Xylene	50.0	57.5		ug/Kg		115	70 - 140
2,2-Dichloropropane	50.0	58.3		ug/Kg		117	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 140*
Toluene-d8 (Surr)	*100*		*58 - 140*

Lab Sample ID: LCS 720-120024/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120001 — **Prep Batch: 120024**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1010		ug/Kg		101	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Lab Sample ID: LCSD 720-120024/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120001 — **Prep Batch: 120024**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	54.1		ug/Kg		108	70 - 144	5	20
Acetone	250	185		ug/Kg		74	30 - 162	1	30
Benzene	50.0	55.2		ug/Kg		110	70 - 130	0	20
Dichlorobromomethane	50.0	54.6		ug/Kg		109	70 - 131	3	20
Bromobenzene	50.0	53.6		ug/Kg		107	70 - 130	1	20
Chlorobromomethane	50.0	53.3		ug/Kg		107	70 - 130	4	20
Bromoform	50.0	54.8		ug/Kg		110	59 - 158	5	20
Bromomethane	50.0	52.9		ug/Kg		106	59 - 132	5	20
2-Butanone (MEK)	250	253		ug/Kg		101	53 - 124	2	20
n-Butylbenzene	50.0	59.8		ug/Kg		120	70 - 142	2	20
sec-Butylbenzene	50.0	59.3		ug/Kg		119	70 - 136	1	20
tert-Butylbenzene	50.0	59.3		ug/Kg		119	70 - 130	2	20
Carbon disulfide	50.0	65.3		ug/Kg		131	60 - 140	3	20
Carbon tetrachloride	50.0	55.2		ug/Kg		110	70 - 138	1	20
Chlorobenzene	50.0	55.6		ug/Kg		111	70 - 130	1	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-120024/3-A
Matrix: Solid
Analysis Batch: 120001

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 120024

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	50.0	55.5		ug/Kg		111	65 - 130	5	20
Chloroform	50.0	53.0		ug/Kg		106	77 - 127	1	20
Chloromethane	50.0	52.6		ug/Kg		105	55 - 140	6	20
2-Chlorotoluene	50.0	58.8		ug/Kg		118	70 - 138	0	20
4-Chlorotoluene	50.0	56.8		ug/Kg		114	70 - 136	0	20
Chlorodibromomethane	50.0	54.9		ug/Kg		110	70 - 146	4	20
1,2-Dichlorobenzene	50.0	53.5		ug/Kg		107	70 - 130	0	20
1,3-Dichlorobenzene	50.0	56.2		ug/Kg		112	70 - 131	0	20
1,4-Dichlorobenzene	50.0	54.5		ug/Kg		109	70 - 130	1	20
1,3-Dichloropropane	50.0	55.9		ug/Kg		112	70 - 140	4	20
1,1-Dichloropropene	50.0	60.1		ug/Kg		120	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	50.0	52.1		ug/Kg		104	60 - 145	4	20
Ethylene Dibromide	50.0	56.8		ug/Kg		114	70 - 140	4	20
Dibromomethane	50.0	53.7		ug/Kg		107	70 - 139	4	20
Dichlorodifluoromethane	50.0	43.7		ug/Kg		87	37 - 158	6	20
1,1-Dichloroethane	50.0	56.0		ug/Kg		112	70 - 130	1	20
1,2-Dichloroethane	50.0	51.6		ug/Kg		103	70 - 130	3	20
1,1-Dichloroethene	50.0	58.2		ug/Kg		116	76 - 122	3	20
cis-1,2-Dichloroethene	50.0	56.9		ug/Kg		114	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	56.8		ug/Kg		114	67 - 130	4	20
1,2-Dichloropropane	50.0	55.7		ug/Kg		111	73 - 127	1	20
cis-1,3-Dichloropropene	50.0	58.9		ug/Kg		118	68 - 147	2	20
trans-1,3-Dichloropropene	50.0	56.0		ug/Kg		112	70 - 136	4	20
Ethylbenzene	50.0	56.1		ug/Kg		112	80 - 137	1	20
Hexachlorobutadiene	50.0	48.4		ug/Kg		97	70 - 132	3	20
2-Hexanone	250	250		ug/Kg		100	44 - 133	5	20
Isopropylbenzene	50.0	60.3		ug/Kg		121	88 - 128	1	20
4-Isopropyltoluene	50.0	57.6		ug/Kg		115	70 - 133	2	20
Methylene Chloride	50.0	51.8		ug/Kg		104	70 - 134	1	20
4-Methyl-2-pentanone (MIBK)	250	284		ug/Kg		113	60 - 160	6	20
Naphthalene	50.0	50.3		ug/Kg		101	60 - 147	0	20
N-Propylbenzene	50.0	61.2		ug/Kg		122	70 - 130	1	20
Styrene	50.0	57.5		ug/Kg		115	70 - 130	1	20
1,1,1,2-Tetrachloroethane	50.0	52.6		ug/Kg		105	70 - 130	2	20
1,1,2,2-Tetrachloroethane	50.0	59.2		ug/Kg		118	70 - 146	3	20
Tetrachloroethene	50.0	56.7		ug/Kg		113	70 - 132	1	20
Toluene	50.0	56.2		ug/Kg		112	80 - 128	1	20
1,2,3-Trichlorobenzene	50.0	46.9		ug/Kg		94	60 - 140	1	20
1,2,4-Trichlorobenzene	50.0	47.4		ug/Kg		95	60 - 140	1	20
1,1,1-Trichloroethane	50.0	55.0		ug/Kg		110	70 - 130	0	20
1,1,2-Trichloroethane	50.0	56.8		ug/Kg		114	70 - 130	2	20
Trichloroethene	50.0	56.2		ug/Kg		112	70 - 133	1	20
Trichlorofluoromethane	50.0	51.4		ug/Kg		103	60 - 140	4	20
1,2,3-Trichloropropane	50.0	56.8		ug/Kg		114	70 - 146	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.8		ug/Kg		114	60 - 140	1	20
1,2,4-Trimethylbenzene	50.0	57.3		ug/Kg		115	70 - 130	1	20
1,3,5-Trimethylbenzene	50.0	58.6		ug/Kg		117	70 - 131	1	20
Vinyl acetate	50.0	54.3		ug/Kg		109	38 - 176	4	20
Vinyl chloride	50.0	53.0		ug/Kg		106	58 - 125	6	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-120024/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120001 — **Prep Batch: 120024**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene			100	114		ug/Kg		114	70 - 146	0	20
o-Xylene			50.0	58.2		ug/Kg		116	70 - 140	1	20
2,2-Dichloropropane			50.0	58.8		ug/Kg		118	70 - 162	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Lab Sample ID: LCSD 720-120024/5-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120001 — **Prep Batch: 120024**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1020		ug/Kg		102	61 - 128	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 140*
Toluene-d8 (Surr)	*100*		*58 - 140*

Lab Sample ID: MB 720-120048/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120037 — **Prep Batch: 120048**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Acetone	ND		50		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Benzene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Bromobenzene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Chlorobromomethane	ND		20		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Bromoform	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Bromomethane	ND		10		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
2-Butanone (MEK)	ND		50		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
n-Butylbenzene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
sec-Butylbenzene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
tert-Butylbenzene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Carbon disulfide	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Chlorobenzene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Chloroethane	ND		10		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Chloroform	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Chloromethane	ND		10		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
2-Chlorotoluene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
4-Chlorotoluene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-120048/1-A
Matrix: Solid
Analysis Batch: 120037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120048

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Dibromomethane	ND		10		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Dichlorodifluoromethane	ND		10		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Ethylbenzene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Hexachlorobutadiene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
2-Hexanone	ND		50		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Isopropylbenzene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
4-Isopropyltoluene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Methylene Chloride	ND		10		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Naphthalene	ND		10		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
N-Propylbenzene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Styrene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Tetrachloroethene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Toluene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Trichloroethene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Trichlorofluoromethane	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Vinyl acetate	ND		50		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Vinyl chloride	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Xylenes, Total	ND		10		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/30/12 07:30	08/30/12 08:19	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/30/12 07:30	08/30/12 08:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*45 - 131*	*08/30/12 07:30*	*08/30/12 08:19*	*1*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-120048/1-A
Matrix: Solid
Analysis Batch: 120037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120048

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		60 - 140	08/30/12 07:30	08/30/12 08:19	1
Toluene-d8 (Surr)	102		58 - 140	08/30/12 07:30	08/30/12 08:19	1

Lab Sample ID: LCS 720-120048/2-A
Matrix: Solid
Analysis Batch: 120037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120048

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	53.6		ug/Kg		107	70 - 144
Acetone	250	193		ug/Kg		77	30 - 162
Benzene	50.0	52.2		ug/Kg		104	70 - 130
Dichlorobromomethane	50.0	54.2		ug/Kg		108	70 - 131
Bromobenzene	50.0	52.5		ug/Kg		105	70 - 130
Chlorobromomethane	50.0	55.1		ug/Kg		110	70 - 130
Bromoform	50.0	57.0		ug/Kg		114	59 - 158
Bromomethane	50.0	48.7		ug/Kg		97	59 - 132
2-Butanone (MEK)	250	229		ug/Kg		92	53 - 124
n-Butylbenzene	50.0	47.9		ug/Kg		96	70 - 142
sec-Butylbenzene	50.0	49.2		ug/Kg		98	70 - 136
tert-Butylbenzene	50.0	48.7		ug/Kg		97	70 - 130
Carbon disulfide	50.0	52.7		ug/Kg		105	60 - 140
Carbon tetrachloride	50.0	51.7		ug/Kg		103	70 - 138
Chlorobenzene	50.0	51.2		ug/Kg		102	70 - 130
Chloroethane	50.0	48.1		ug/Kg		96	65 - 130
Chloroform	50.0	50.5		ug/Kg		101	77 - 127
Chloromethane	50.0	48.3		ug/Kg		97	55 - 140
2-Chlorotoluene	50.0	51.5		ug/Kg		103	70 - 138
4-Chlorotoluene	50.0	49.5		ug/Kg		99	70 - 136
Chlorodibromomethane	50.0	58.5		ug/Kg		117	70 - 146
1,2-Dichlorobenzene	50.0	50.9		ug/Kg		102	70 - 130
1,3-Dichlorobenzene	50.0	52.6		ug/Kg		105	70 - 131
1,4-Dichlorobenzene	50.0	49.2		ug/Kg		98	70 - 130
1,3-Dichloropropane	50.0	54.4		ug/Kg		109	70 - 140
1,1-Dichloropropene	50.0	52.1		ug/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	51.6		ug/Kg		103	60 - 145
Ethylene Dibromide	50.0	56.6		ug/Kg		113	70 - 140
Dibromomethane	50.0	53.7		ug/Kg		107	70 - 139
Dichlorodifluoromethane	50.0	37.6		ug/Kg		75	37 - 158
1,1-Dichloroethane	50.0	54.5		ug/Kg		109	70 - 130
1,2-Dichloroethane	50.0	53.2		ug/Kg		106	70 - 130
1,1-Dichloroethene	50.0	51.7		ug/Kg		103	76 - 122
cis-1,2-Dichloroethene	50.0	56.2		ug/Kg		112	70 - 138
trans-1,2-Dichloroethene	50.0	52.4		ug/Kg		105	67 - 130
1,2-Dichloropropane	50.0	56.0		ug/Kg		112	73 - 127
cis-1,3-Dichloropropene	50.0	58.7		ug/Kg		117	68 - 147
trans-1,3-Dichloropropene	50.0	56.8		ug/Kg		114	70 - 136
Ethylbenzene	50.0	49.5		ug/Kg		99	80 - 137
Hexachlorobutadiene	50.0	48.1		ug/Kg		96	70 - 132
2-Hexanone	250	266		ug/Kg		107	44 - 133

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-120048/2-A
Matrix: Solid
Analysis Batch: 120037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120048

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	51.4		ug/Kg		103	88 - 128
4-Isopropyltoluene	50.0	49.8		ug/Kg		100	70 - 133
Methylene Chloride	50.0	51.5		ug/Kg		103	70 - 134
4-Methyl-2-pentanone (MIBK)	250	304		ug/Kg		122	60 - 160
Naphthalene	50.0	51.4		ug/Kg		103	60 - 147
N-Propylbenzene	50.0	51.3		ug/Kg		103	70 - 130
Styrene	50.0	52.5		ug/Kg		105	70 - 130
1,1,1,2-Tetrachloroethane	50.0	51.7		ug/Kg		103	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.0		ug/Kg		104	70 - 146
Tetrachloroethene	50.0	54.0		ug/Kg		108	70 - 132
Toluene	50.0	49.9		ug/Kg		100	80 - 128
1,2,3-Trichlorobenzene	50.0	49.0		ug/Kg		98	60 - 140
1,2,4-Trichlorobenzene	50.0	49.1		ug/Kg		98	60 - 140
1,1,1-Trichloroethane	50.0	51.0		ug/Kg		102	70 - 130
1,1,2-Trichloroethane	50.0	55.8		ug/Kg		112	70 - 130
Trichloroethene	50.0	54.7		ug/Kg		109	70 - 133
Trichlorofluoromethane	50.0	46.9		ug/Kg		94	60 - 140
1,2,3-Trichloropropane	50.0	55.9		ug/Kg		112	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.6		ug/Kg		103	60 - 140
1,2,4-Trimethylbenzene	50.0	49.7		ug/Kg		99	70 - 130
1,3,5-Trimethylbenzene	50.0	50.5		ug/Kg		101	70 - 131
Vinyl acetate	50.0	60.5		ug/Kg		121	38 - 176
Vinyl chloride	50.0	44.3		ug/Kg		89	58 - 125
m-Xylene & p-Xylene	100	107		ug/Kg		107	70 - 146
o-Xylene	50.0	51.2		ug/Kg		102	70 - 140
2,2-Dichloropropane	50.0	54.0		ug/Kg		108	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*103*		*58 - 140*

Lab Sample ID: LCS 720-120048/4-A
Matrix: Solid
Analysis Batch: 120037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120048

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	957		ug/Kg		96	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*
Toluene-d8 (Surr)	*100*		*58 - 140*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-120048/3-A
Matrix: Solid
Analysis Batch: 120037

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 120048

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	54.7		ug/Kg		109	70 - 144	2	20
Acetone	250	218		ug/Kg		87	30 - 162	12	30
Benzene	50.0	50.1		ug/Kg		100	70 - 130	4	20
Dichlorobromomethane	50.0	52.7		ug/Kg		105	70 - 131	3	20
Bromobenzene	50.0	50.4		ug/Kg		101	70 - 130	4	20
Chlorobromomethane	50.0	54.4		ug/Kg		109	70 - 130	1	20
Bromoform	50.0	58.4		ug/Kg		117	59 - 158	3	20
Bromomethane	50.0	46.4		ug/Kg		93	59 - 132	5	20
2-Butanone (MEK)	250	239		ug/Kg		96	53 - 124	4	20
n-Butylbenzene	50.0	46.5		ug/Kg		93	70 - 142	3	20
sec-Butylbenzene	50.0	47.5		ug/Kg		95	70 - 136	3	20
tert-Butylbenzene	50.0	47.4		ug/Kg		95	70 - 130	3	20
Carbon disulfide	50.0	50.4		ug/Kg		101	60 - 140	4	20
Carbon tetrachloride	50.0	50.4		ug/Kg		101	70 - 138	3	20
Chlorobenzene	50.0	49.8		ug/Kg		100	70 - 130	3	20
Chloroethane	50.0	45.9		ug/Kg		92	65 - 130	5	20
Chloroform	50.0	48.6		ug/Kg		97	77 - 127	4	20
Chloromethane	50.0	45.1		ug/Kg		90	55 - 140	7	20
2-Chlorotoluene	50.0	49.6		ug/Kg		99	70 - 138	4	20
4-Chlorotoluene	50.0	47.4		ug/Kg		95	70 - 136	4	20
Chlorodibromomethane	50.0	58.1		ug/Kg		116	70 - 146	1	20
1,2-Dichlorobenzene	50.0	50.4		ug/Kg		101	70 - 130	1	20
1,3-Dichlorobenzene	50.0	51.1		ug/Kg		102	70 - 131	3	20
1,4-Dichlorobenzene	50.0	48.3		ug/Kg		97	70 - 130	2	20
1,3-Dichloropropane	50.0	54.6		ug/Kg		109	70 - 140	0	20
1,1-Dichloropropene	50.0	49.2		ug/Kg		98	70 - 130	6	20
1,2-Dibromo-3-Chloropropane	50.0	55.9		ug/Kg		112	60 - 145	8	20
Ethylene Dibromide	50.0	58.0		ug/Kg		116	70 - 140	2	20
Dibromomethane	50.0	52.9		ug/Kg		106	70 - 139	1	20
Dichlorodifluoromethane	50.0	34.7		ug/Kg		69	37 - 158	8	20
1,1-Dichloroethane	50.0	52.5		ug/Kg		105	70 - 130	4	20
1,2-Dichloroethane	50.0	52.6		ug/Kg		105	70 - 130	1	20
1,1-Dichloroethene	50.0	49.6		ug/Kg		99	76 - 122	4	20
cis-1,2-Dichloroethene	50.0	53.8		ug/Kg		108	70 - 138	4	20
trans-1,2-Dichloroethene	50.0	50.5		ug/Kg		101	67 - 130	4	20
1,2-Dichloropropane	50.0	53.9		ug/Kg		108	73 - 127	4	20
cis-1,3-Dichloropropene	50.0	57.4		ug/Kg		115	68 - 147	2	20
trans-1,3-Dichloropropene	50.0	57.2		ug/Kg		114	70 - 136	1	20
Ethylbenzene	50.0	47.6		ug/Kg		95	80 - 137	4	20
Hexachlorobutadiene	50.0	46.2		ug/Kg		92	70 - 132	4	20
2-Hexanone	250	295		ug/Kg		118	44 - 133	10	20
Isopropylbenzene	50.0	50.1		ug/Kg		100	88 - 128	3	20
4-Isopropyltoluene	50.0	48.0		ug/Kg		96	70 - 133	4	20
Methylene Chloride	50.0	50.2		ug/Kg		100	70 - 134	3	20
4-Methyl-2-pentanone (MIBK)	250	324		ug/Kg		130	60 - 160	6	20
Naphthalene	50.0	54.1		ug/Kg		108	60 - 147	5	20
N-Propylbenzene	50.0	48.9		ug/Kg		98	70 - 130	5	20
Styrene	50.0	51.5		ug/Kg		103	70 - 130	2	20
1,1,1,2-Tetrachloroethane	50.0	50.2		ug/Kg		100	70 - 130	3	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-120048/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120037 — **Prep Batch: 120048**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	50.0	52.7		ug/Kg		105	70 - 146	1	20
Tetrachloroethene	50.0	51.1		ug/Kg		102	70 - 132	6	20
Toluene	50.0	47.9		ug/Kg		96	80 - 128	4	20
1,2,3-Trichlorobenzene	50.0	49.1		ug/Kg		98	60 - 140	0	20
1,2,4-Trichlorobenzene	50.0	48.3		ug/Kg		97	60 - 140	2	20
1,1,1-Trichloroethane	50.0	48.9		ug/Kg		98	70 - 130	4	20
1,1,2-Trichloroethane	50.0	56.2		ug/Kg		112	70 - 130	1	20
Trichloroethene	50.0	52.3		ug/Kg		105	70 - 133	5	20
Trichlorofluoromethane	50.0	44.2		ug/Kg		88	60 - 140	6	20
1,2,3-Trichloropropane	50.0	55.4		ug/Kg		111	70 - 146	1	20
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	48.8		ug/Kg		98	60 - 140	5	20
1,2,4-Trimethylbenzene	50.0	47.8		ug/Kg		96	70 - 130	4	20
1,3,5-Trimethylbenzene	50.0	48.1		ug/Kg		96	70 - 131	5	20
Vinyl acetate	50.0	61.2		ug/Kg		122	38 - 176	1	20
Vinyl chloride	50.0	41.8		ug/Kg		84	58 - 125	6	20
m-Xylene & p-Xylene	100	103		ug/Kg		103	70 - 146	3	20
o-Xylene	50.0	49.8		ug/Kg		100	70 - 140	3	20
2,2-Dichloropropane	50.0	52.5		ug/Kg		105	70 - 162	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Lab Sample ID: LCSD 720-120048/5-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120037 — **Prep Batch: 120048**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	1000	959		ug/Kg		96	61 - 128	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*102*		*58 - 140*

Lab Sample ID: MB 720-120092/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120074 — **Prep Batch: 120092**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Acetone	ND		50		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Benzene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Bromobenzene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Chlorobromomethane	ND		20		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Bromoform	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-120092/1-A
Matrix: Solid
Analysis Batch: 120074

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		10		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
2-Butanone (MEK)	ND		50		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
n-Butylbenzene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
sec-Butylbenzene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
tert-Butylbenzene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Carbon disulfide	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Chlorobenzene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Chloroethane	ND		10		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Chloroform	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Chloromethane	ND		10		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
2-Chlorotoluene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
4-Chlorotoluene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Dibromomethane	ND		10		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Dichlorodifluoromethane	ND		10		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Ethylbenzene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Hexachlorobutadiene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
2-Hexanone	ND		50		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Isopropylbenzene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
4-Isopropyltoluene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Methylene Chloride	ND		10		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Naphthalene	ND		10		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
N-Propylbenzene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Styrene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Tetrachloroethene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Toluene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Trichloroethene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-120092/1-A
Matrix: Solid
Analysis Batch: 120074

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Vinyl acetate	ND		50		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Vinyl chloride	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Xylenes, Total	ND		10		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/30/12 16:00	08/30/12 16:31	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/30/12 16:00	08/30/12 16:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*45 - 131*	*08/30/12 16:00*	*08/30/12 16:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*	*08/30/12 16:00*	*08/30/12 16:31*	*1*
Toluene-d8 (Surr)	*99*		*58 - 140*	*08/30/12 16:00*	*08/30/12 16:31*	*1*

Lab Sample ID: LCS 720-120092/2-A
Matrix: Solid
Analysis Batch: 120074

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	55.8		ug/Kg		112	70 - 144
Acetone	250	208		ug/Kg		83	30 - 162
Benzene	50.0	52.7		ug/Kg		105	70 - 130
Dichlorobromomethane	50.0	56.0		ug/Kg		112	70 - 131
Bromobenzene	50.0	53.4		ug/Kg		107	70 - 130
Chlorobromomethane	50.0	57.0		ug/Kg		114	70 - 130
Bromoform	50.0	59.1		ug/Kg		118	59 - 158
Bromomethane	50.0	48.0		ug/Kg		96	59 - 132
2-Butanone (MEK)	250	239		ug/Kg		96	53 - 124
n-Butylbenzene	50.0	46.7		ug/Kg		93	70 - 142
sec-Butylbenzene	50.0	47.8		ug/Kg		96	70 - 136
tert-Butylbenzene	50.0	47.7		ug/Kg		95	70 - 130
Carbon disulfide	50.0	51.3		ug/Kg		103	60 - 140
Carbon tetrachloride	50.0	51.8		ug/Kg		104	70 - 138
Chlorobenzene	50.0	51.7		ug/Kg		103	70 - 130
Chloroethane	50.0	47.6		ug/Kg		95	65 - 130
Chloroform	50.0	51.6		ug/Kg		103	77 - 127
Chloromethane	50.0	46.5		ug/Kg		93	55 - 140
2-Chlorotoluene	50.0	51.3		ug/Kg		103	70 - 138
4-Chlorotoluene	50.0	49.7		ug/Kg		99	70 - 136
Chlorodibromomethane	50.0	60.7		ug/Kg		121	70 - 146
1,2-Dichlorobenzene	50.0	51.8		ug/Kg		104	70 - 130
1,3-Dichlorobenzene	50.0	52.8		ug/Kg		106	70 - 131
1,4-Dichlorobenzene	50.0	49.3		ug/Kg		99	70 - 130
1,3-Dichloropropane	50.0	57.0		ug/Kg		114	70 - 140
1,1-Dichloropropene	50.0	52.2		ug/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	51.2		ug/Kg		102	60 - 145
Ethylene Dibromide	50.0	58.9		ug/Kg		118	70 - 140

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-120092/2-A
Matrix: Solid
Analysis Batch: 120074

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromomethane	50.0	55.4		ug/Kg		111	70 - 139
Dichlorodifluoromethane	50.0	35.4		ug/Kg		71	37 - 158
1,1-Dichloroethane	50.0	54.9		ug/Kg		110	70 - 130
1,2-Dichloroethane	50.0	54.8		ug/Kg		110	70 - 130
1,1-Dichloroethene	50.0	51.4		ug/Kg		103	76 - 122
cis-1,2-Dichloroethene	50.0	56.8		ug/Kg		114	70 - 138
trans-1,2-Dichloroethene	50.0	53.8		ug/Kg		108	67 - 130
1,2-Dichloropropane	50.0	57.5		ug/Kg		115	73 - 127
cis-1,3-Dichloropropene	50.0	59.5		ug/Kg		119	68 - 147
trans-1,3-Dichloropropene	50.0	59.1		ug/Kg		118	70 - 136
Ethylbenzene	50.0	49.6		ug/Kg		99	80 - 137
Hexachlorobutadiene	50.0	48.0		ug/Kg		96	70 - 132
2-Hexanone	250	285		ug/Kg		114	44 - 133
Isopropylbenzene	50.0	51.1		ug/Kg		102	88 - 128
4-Isopropyltoluene	50.0	49.1		ug/Kg		98	70 - 133
Methylene Chloride	50.0	54.4		ug/Kg		109	70 - 134
4-Methyl-2-pentanone (MIBK)	250	309		ug/Kg		124	60 - 160
Naphthalene	50.0	52.8		ug/Kg		106	60 - 147
N-Propylbenzene	50.0	51.0		ug/Kg		102	70 - 130
Styrene	50.0	53.5		ug/Kg		107	70 - 130
1,1,1,2-Tetrachloroethane	50.0	52.9		ug/Kg		106	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.7		ug/Kg		101	70 - 146
Tetrachloroethene	50.0	54.1		ug/Kg		108	70 - 132
Toluene	50.0	49.8		ug/Kg		100	80 - 128
1,2,3-Trichlorobenzene	50.0	50.3		ug/Kg		101	60 - 140
1,2,4-Trichlorobenzene	50.0	50.2		ug/Kg		100	60 - 140
1,1,1-Trichloroethane	50.0	50.9		ug/Kg		102	70 - 130
1,1,2-Trichloroethane	50.0	57.7		ug/Kg		115	70 - 130
Trichloroethene	50.0	56.1		ug/Kg		112	70 - 133
Trichlorofluoromethane	50.0	45.5		ug/Kg		91	60 - 140
1,2,3-Trichloropropane	50.0	55.9		ug/Kg		112	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.2		ug/Kg		102	60 - 140
1,2,4-Trimethylbenzene	50.0	49.0		ug/Kg		98	70 - 130
1,3,5-Trimethylbenzene	50.0	49.7		ug/Kg		99	70 - 131
Vinyl acetate	50.0	58.4		ug/Kg		117	38 - 176
Vinyl chloride	50.0	42.8		ug/Kg		86	58 - 125
m-Xylene & p-Xylene	100	106		ug/Kg		106	70 - 146
o-Xylene	50.0	51.3		ug/Kg		103	70 - 140
2,2-Dichloropropane	50.0	52.6		ug/Kg		105	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*
Toluene-d8 (Surr)	*102*		*58 - 140*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-120092/4-A
Matrix: Solid
Analysis Batch: 120074

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	978		ug/Kg		98	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*100*		*58 - 140*

Lab Sample ID: LCSD 720-120092/3-A
Matrix: Solid
Analysis Batch: 120074

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 120092

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	55.6		ug/Kg		111	70 - 144	0	20
Acetone	250	200		ug/Kg		80	30 - 162	4	30
Benzene	50.0	52.7		ug/Kg		105	70 - 130	0	20
Dichlorobromomethane	50.0	55.3		ug/Kg		111	70 - 131	1	20
Bromobenzene	50.0	51.5		ug/Kg		103	70 - 130	4	20
Chlorobromomethane	50.0	57.0		ug/Kg		114	70 - 130	0	20
Bromoform	50.0	59.7		ug/Kg		119	59 - 158	1	20
Bromomethane	50.0	49.8		ug/Kg		100	59 - 132	4	20
2-Butanone (MEK)	250	225		ug/Kg		90	53 - 124	6	20
n-Butylbenzene	50.0	49.8		ug/Kg		100	70 - 142	6	20
sec-Butylbenzene	50.0	49.5		ug/Kg		99	70 - 136	4	20
tert-Butylbenzene	50.0	49.6		ug/Kg		99	70 - 130	4	20
Carbon disulfide	50.0	52.8		ug/Kg		106	60 - 140	3	20
Carbon tetrachloride	50.0	52.2		ug/Kg		104	70 - 138	1	20
Chlorobenzene	50.0	52.8		ug/Kg		106	70 - 130	2	20
Chloroethane	50.0	49.0		ug/Kg		98	65 - 130	3	20
Chloroform	50.0	51.6		ug/Kg		103	77 - 127	0	20
Chloromethane	50.0	47.6		ug/Kg		95	55 - 140	2	20
2-Chlorotoluene	50.0	51.5		ug/Kg		103	70 - 138	0	20
4-Chlorotoluene	50.0	49.7		ug/Kg		99	70 - 136	0	20
Chlorodibromomethane	50.0	60.6		ug/Kg		121	70 - 146	0	20
1,2-Dichlorobenzene	50.0	53.9		ug/Kg		108	70 - 130	4	20
1,3-Dichlorobenzene	50.0	53.8		ug/Kg		108	70 - 131	2	20
1,4-Dichlorobenzene	50.0	51.0		ug/Kg		102	70 - 130	3	20
1,3-Dichloropropane	50.0	56.9		ug/Kg		114	70 - 140	0	20
1,1-Dichloropropene	50.0	52.2		ug/Kg		104	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	50.0	51.6		ug/Kg		103	60 - 145	1	20
Ethylene Dibromide	50.0	59.9		ug/Kg		120	70 - 140	2	20
Dibromomethane	50.0	55.6		ug/Kg		111	70 - 139	0	20
Dichlorodifluoromethane	50.0	36.7		ug/Kg		73	37 - 158	4	20
1,1-Dichloroethane	50.0	54.6		ug/Kg		109	70 - 130	1	20
1,2-Dichloroethane	50.0	54.4		ug/Kg		109	70 - 130	1	20
1,1-Dichloroethene	50.0	52.9		ug/Kg		106	76 - 122	3	20
cis-1,2-Dichloroethene	50.0	56.9		ug/Kg		114	70 - 138	0	20
trans-1,2-Dichloroethene	50.0	53.4		ug/Kg		107	67 - 130	1	20
1,2-Dichloropropane	50.0	58.0		ug/Kg		116	73 - 127	1	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-120092/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120074 — **Prep Batch: 120092**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			50.0	60.1		ug/Kg		120	68 - 147	1	20
trans-1,3-Dichloropropene			50.0	58.6		ug/Kg		117	70 - 136	1	20
Ethylbenzene			50.0	50.0		ug/Kg		100	80 - 137	1	20
Hexachlorobutadiene			50.0	50.9		ug/Kg		102	70 - 132	6	20
2-Hexanone			250	270		ug/Kg		108	44 - 133	6	20
Isopropylbenzene			50.0	52.9		ug/Kg		106	88 - 128	3	20
4-Isopropyltoluene			50.0	50.7		ug/Kg		101	70 - 133	3	20
Methylene Chloride			50.0	56.0		ug/Kg		112	70 - 134	3	20
4-Methyl-2-pentanone (MIBK)			250	309		ug/Kg		123	60 - 160	0	20
Naphthalene			50.0	54.3		ug/Kg		109	60 - 147	3	20
N-Propylbenzene			50.0	51.2		ug/Kg		102	70 - 130	0	20
Styrene			50.0	55.3		ug/Kg		111	70 - 130	3	20
1,1,1,2-Tetrachloroethane			50.0	53.3		ug/Kg		107	70 - 130	1	20
1,1,2,2-Tetrachloroethane			50.0	49.2		ug/Kg		98	70 - 146	3	20
Tetrachloroethene			50.0	54.5		ug/Kg		109	70 - 132	1	20
Toluene			50.0	50.4		ug/Kg		101	80 - 128	1	20
1,2,3-Trichlorobenzene			50.0	52.7		ug/Kg		105	60 - 140	5	20
1,2,4-Trichlorobenzene			50.0	52.8		ug/Kg		106	60 - 140	5	20
1,1,1-Trichloroethane			50.0	51.2		ug/Kg		102	70 - 130	1	20
1,1,2-Trichloroethane			50.0	59.0		ug/Kg		118	70 - 130	2	20
Trichloroethene			50.0	55.7		ug/Kg		111	70 - 133	1	20
Trichlorofluoromethane			50.0	46.1		ug/Kg		92	60 - 140	1	20
1,2,3-Trichloropropane			50.0	53.2		ug/Kg		106	70 - 146	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	53.2		ug/Kg		106	60 - 140	4	20
1,2,4-Trimethylbenzene			50.0	50.5		ug/Kg		101	70 - 130	3	20
1,3,5-Trimethylbenzene			50.0	50.7		ug/Kg		101	70 - 131	2	20
Vinyl acetate			50.0	60.2		ug/Kg		120	38 - 176	3	20
Vinyl chloride			50.0	43.2		ug/Kg		86	58 - 125	1	20
m-Xylene & p-Xylene			100	109		ug/Kg		109	70 - 146	2	20
o-Xylene			50.0	53.0		ug/Kg		106	70 - 140	3	20
2,2-Dichloropropane			50.0	56.1		ug/Kg		112	70 - 162	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*
Toluene-d8 (Surr)	*102*		*58 - 140*

Lab Sample ID: LCSD 720-120092/5-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120074 — **Prep Batch: 120092**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	996		ug/Kg		100	61 - 128	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-120092/5-A
Matrix: Solid
Analysis Batch: 120074

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 120092

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*58 - 140*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-120057/1-A
Matrix: Solid
Analysis Batch: 120122

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120057

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		08/30/12 11:30	08/31/12 12:19	1
Acenaphthylene	ND		5.0		ug/Kg		08/30/12 11:30	08/31/12 12:19	1
Anthracene	ND		5.0		ug/Kg		08/30/12 11:30	08/31/12 12:19	1
Benzo[a]anthracene	ND		5.0		ug/Kg		08/30/12 11:30	08/31/12 12:19	1
Benzo[a]pyrene	ND		5.0		ug/Kg		08/30/12 11:30	08/31/12 12:19	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		08/30/12 11:30	08/31/12 12:19	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		08/30/12 11:30	08/31/12 12:19	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		08/30/12 11:30	08/31/12 12:19	1
Chrysene	ND		5.0		ug/Kg		08/30/12 11:30	08/31/12 12:19	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		08/30/12 11:30	08/31/12 12:19	1
Fluoranthene	ND		5.0		ug/Kg		08/30/12 11:30	08/31/12 12:19	1
Fluorene	ND		5.0		ug/Kg		08/30/12 11:30	08/31/12 12:19	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		08/30/12 11:30	08/31/12 12:19	1
Naphthalene	ND		5.0		ug/Kg		08/30/12 11:30	08/31/12 12:19	1
Phenanthrene	ND		5.0		ug/Kg		08/30/12 11:30	08/31/12 12:19	1
Pyrene	ND		5.0		ug/Kg		08/30/12 11:30	08/31/12 12:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*33 - 120*	*08/30/12 11:30*	*08/31/12 12:19*	*1*
Terphenyl-d14	*83*		*35 - 146*	*08/30/12 11:30*	*08/31/12 12:19*	*1*

Lab Sample ID: LCS 720-120057/2-A
Matrix: Solid
Analysis Batch: 120122

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120057

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	331	232		ug/Kg		70	49 - 120
Acenaphthylene	331	240		ug/Kg		72	52 - 120
Anthracene	331	263		ug/Kg		79	52 - 120
Benzo[a]anthracene	331	246		ug/Kg		74	52 - 120
Benzo[a]pyrene	331	289		ug/Kg		87	54 - 120
Benzo[b]fluoranthene	331	292		ug/Kg		88	51 - 120
Benzo[g,h,i]perylene	331	294		ug/Kg		89	48 - 120
Benzo[k]fluoranthene	331	273		ug/Kg		83	56 - 120
Chrysene	331	242		ug/Kg		73	40 - 120
Dibenz(a,h)anthracene	331	309		ug/Kg		93	50 - 120
Fluoranthene	331	252		ug/Kg		76	57 - 120
Fluorene	331	233		ug/Kg		70	52 - 120
Indeno[1,2,3-cd]pyrene	331	300		ug/Kg		91	48 - 120
Naphthalene	331	213		ug/Kg		64	46 - 120

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCS 720-120057/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120122 — **Prep Batch: 120057**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenanthrene	331	230		ug/Kg		69	48 - 120
Pyrene	331	269		ug/Kg		81	53 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*33 - 120*
Terphenyl-d14	*85*		*35 - 146*

Lab Sample ID: LCSD 720-120057/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120122 — **Prep Batch: 120057**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	333	242		ug/Kg		73	49 - 120	4	20
Acenaphthylene	333	247		ug/Kg		74	52 - 120	3	20
Anthracene	333	273		ug/Kg		82	52 - 120	4	20
Benzo[a]anthracene	333	249		ug/Kg		75	52 - 120	1	20
Benzo[a]pyrene	333	297		ug/Kg		89	54 - 120	3	20
Benzo[b]fluoranthene	333	289		ug/Kg		87	51 - 120	1	20
Benzo[g,h,i]perylene	333	313		ug/Kg		94	48 - 120	6	20
Benzo[k]fluoranthene	333	289		ug/Kg		87	56 - 120	6	20
Chrysene	333	251		ug/Kg		75	40 - 120	4	20
Dibenz(a,h)anthracene	333	329		ug/Kg		99	50 - 120	6	20
Fluoranthene	333	258		ug/Kg		78	57 - 120	2	20
Fluorene	333	240		ug/Kg		72	52 - 120	3	20
Indeno[1,2,3-cd]pyrene	333	320		ug/Kg		96	48 - 120	7	20
Naphthalene	333	219		ug/Kg		66	46 - 120	3	20
Phenanthrene	333	235		ug/Kg		71	48 - 120	3	20
Pyrene	333	278		ug/Kg		84	53 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*73*		*33 - 120*
Terphenyl-d14	*88*		*35 - 146*

Lab Sample ID: MB 720-120117/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120182 — **Prep Batch: 120117**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 18:46	1
Acenaphthylene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 18:46	1
Anthracene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 18:46	1
Benzo[a]anthracene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 18:46	1
Benzo[a]pyrene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 18:46	1
Benzo[b]fluoranthene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 18:46	1
Benzo[g,h,i]perylene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 18:46	1
Benzo[k]fluoranthene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 18:46	1
Chrysene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 18:46	1
Dibenz(a,h)anthracene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 18:46	1
Fluoranthene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 18:46	1

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: MB 720-120117/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120182 — **Prep Batch: 120117**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 18:46	1
Indeno[1,2,3-cd]pyrene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 18:46	1
Naphthalene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 18:46	1
Phenanthrene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 18:46	1
Pyrene	ND		4.9		ug/Kg		08/31/12 09:41	09/01/12 18:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*33 - 120*	*08/31/12 09:41*	*09/01/12 18:46*	*1*
Terphenyl-d14	*103*		*35 - 146*	*08/31/12 09:41*	*09/01/12 18:46*	*1*

Lab Sample ID: LCS 720-120117/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120182 — **Prep Batch: 120117**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	330	295		ug/Kg		90	49 - 120
Acenaphthylene	330	308		ug/Kg		94	52 - 120
Anthracene	330	342		ug/Kg		104	52 - 120
Benzo[a]anthracene	330	311		ug/Kg		94	52 - 120
Benzo[a]pyrene	330	362		ug/Kg		110	54 - 120
Benzo[b]fluoranthene	330	367		ug/Kg		111	51 - 120
Benzo[g,h,i]perylene	330	243		ug/Kg		74	48 - 120
Benzo[k]fluoranthene	330	365		ug/Kg		111	56 - 120
Chrysene	330	303		ug/Kg		92	40 - 120
Dibenz(a,h)anthracene	330	300		ug/Kg		91	50 - 120
Fluoranthene	330	326		ug/Kg		99	57 - 120
Fluorene	330	298		ug/Kg		90	52 - 120
Indeno[1,2,3-cd]pyrene	330	280		ug/Kg		85	48 - 120
Naphthalene	330	262		ug/Kg		80	46 - 120
Phenanthrene	330	293		ug/Kg		89	48 - 120
Pyrene	330	328		ug/Kg		99	53 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*87*		*33 - 120*
Terphenyl-d14	*107*		*35 - 146*

Lab Sample ID: LCSD 720-120117/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120182 — **Prep Batch: 120117**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	332	306		ug/Kg		92	49 - 120	3	20
Acenaphthylene	332	318		ug/Kg		96	52 - 120	3	20
Anthracene	332	343		ug/Kg		103	52 - 120	0	20
Benzo[a]anthracene	332	311		ug/Kg		93	52 - 120	0	20
Benzo[a]pyrene	332	367		ug/Kg		110	54 - 120	1	20
Benzo[b]fluoranthene	332	370		ug/Kg		111	51 - 120	1	20
Benzo[g,h,i]perylene	332	239		ug/Kg		72	48 - 120	1	20
Benzo[k]fluoranthene	332	370		ug/Kg		111	56 - 120	1	20

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCSD 720-120117/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120182 — **Prep Batch: 120117**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chrysene	332	309		ug/Kg		93	40 - 120	2	20
Dibenz(a,h)anthracene	332	297		ug/Kg		89	50 - 120	1	20
Fluoranthene	332	326		ug/Kg		98	57 - 120	0	20
Fluorene	332	308		ug/Kg		93	52 - 120	3	20
Indeno[1,2,3-cd]pyrene	332	279		ug/Kg		84	48 - 120	0	20
Naphthalene	332	269		ug/Kg		81	46 - 120	2	20
Phenanthrene	332	292		ug/Kg		88	48 - 120	0	20
Pyrene	332	332		ug/Kg		100	53 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*89*		*33 - 120*
Terphenyl-d14	*108*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-120046/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Silica Gel Cleanup**
Analysis Batch: 120114 — **Prep Batch: 120046**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		08/30/12 08:13	08/31/12 18:28	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/30/12 08:13	08/31/12 18:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.003*		*0 - 1*	*08/30/12 08:13*	*08/31/12 18:28*	*1*
p-Terphenyl	*110*		*38 - 148*	*08/30/12 08:13*	*08/31/12 18:28*	*1*

Lab Sample ID: LCS 720-120046/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Silica Gel Cleanup**
Analysis Batch: 120114 — **Prep Batch: 120046**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.0	70.2		mg/Kg		85	36 - 112

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*87*		*38 - 148*

Lab Sample ID: LCSD 720-120046/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Silica Gel Cleanup**
Analysis Batch: 120114 — **Prep Batch: 120046**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	83.2	70.0		mg/Kg		84	36 - 112	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*91*		*38 - 148*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-44232-45 MS
Matrix: Solid
Analysis Batch: 120113

Client Sample ID: SB-1 (4-4 1/2')
Prep Type: Silica Gel Cleanup
Prep Batch: 120076

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	ND		83.0	51.5		mg/Kg		61	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*56*		*38 - 148*

Lab Sample ID: 720-44232-45 MSD
Matrix: Solid
Analysis Batch: 120113

Client Sample ID: SB-1 (4-4 1/2')
Prep Type: Silica Gel Cleanup
Prep Batch: 120076

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		82.5	62.8		mg/Kg		76	50 - 150	20	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*76*		*38 - 148*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-120072/1-A
Matrix: Solid
Analysis Batch: 120143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120072

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 19:28	1
Dieldrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 19:28	1
Endrin aldehyde	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 19:28	1
Endrin	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 19:28	1
Endrin ketone	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 19:28	1
Heptachlor	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 19:28	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 19:28	1
4,4'-DDT	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 19:28	1
4,4'-DDE	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 19:28	1
4,4'-DDD	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 19:28	1
Endosulfan I	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 19:28	1
Endosulfan II	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 19:28	1
alpha-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 19:28	1
beta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 19:28	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 19:28	1
delta-BHC	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 19:28	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 19:28	1
Methoxychlor	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 19:28	1
Toxaphene	ND		40		ug/Kg		08/30/12 14:19	08/31/12 19:28	1
Chlordane (technical)	ND		40		ug/Kg		08/30/12 14:19	08/31/12 19:28	1
alpha-Chlordane	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 19:28	1
gamma-Chlordane	ND		2.0		ug/Kg		08/30/12 14:19	08/31/12 19:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*34 - 110*	*08/30/12 14:19*	*08/31/12 19:28*	*1*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 720-120072/1-A
Matrix: Solid
Analysis Batch: 120143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120072

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93		21 - 136	08/30/12 14:19	08/31/12 19:28	1

Lab Sample ID: LCS 720-120072/2-A
Matrix: Solid
Analysis Batch: 120143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.6	11.8		ug/Kg		71	54 - 120
Dieldrin	16.6	13.3		ug/Kg		80	59 - 120
Endrin aldehyde	16.6	14.6		ug/Kg		88	40 - 120
Endrin	16.6	13.4		ug/Kg		81	53 - 120
Endrin ketone	16.6	14.3		ug/Kg		86	40 - 120
Heptachlor	16.6	12.5		ug/Kg		75	54 - 120
Heptachlor epoxide	16.6	13.4		ug/Kg		81	40 - 120
4,4'-DDT	16.6	13.1		ug/Kg		79	51 - 120
4,4'-DDE	16.6	12.4		ug/Kg		75	40 - 120
4,4'-DDD	16.6	13.5		ug/Kg		81	40 - 120
Endosulfan I	16.6	13.8		ug/Kg		83	40 - 120
Endosulfan II	16.6	14.1		ug/Kg		85	40 - 120
alpha-BHC	16.6	13.2		ug/Kg		80	40 - 120
beta-BHC	16.6	14.1		ug/Kg		85	40 - 120
gamma-BHC (Lindane)	16.6	12.9		ug/Kg		78	50 - 96
delta-BHC	16.6	14.0		ug/Kg		85	40 - 120
Endosulfan sulfate	16.6	14.3		ug/Kg		86	40 - 120
Methoxychlor	16.6	15.6		ug/Kg		94	40 - 120
alpha-Chlordane	16.6	12.9		ug/Kg		77	40 - 120
gamma-Chlordane	16.6	12.7		ug/Kg		76	40 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	77		34 - 110
DCB Decachlorobiphenyl	90		21 - 136

Lab Sample ID: LCSD 720-120072/3-A
Matrix: Solid
Analysis Batch: 120143

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 120072

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	16.3	11.6		ug/Kg		71	54 - 120	2	20
Dieldrin	16.3	13.0		ug/Kg		80	59 - 120	2	20
Endrin aldehyde	16.3	14.3		ug/Kg		88	40 - 120	2	20
Endrin	16.3	13.3		ug/Kg		81	53 - 120	1	20
Endrin ketone	16.3	14.2		ug/Kg		87	40 - 120	1	20
Heptachlor	16.3	12.1		ug/Kg		74	54 - 120	3	20
Heptachlor epoxide	16.3	13.1		ug/Kg		80	40 - 120	3	20
4,4'-DDT	16.3	12.8		ug/Kg		78	51 - 120	2	20
4,4'-DDE	16.3	12.4		ug/Kg		76	40 - 120	0	20
4,4'-DDD	16.3	13.3		ug/Kg		82	40 - 120	1	20
Endosulfan I	16.3	13.2		ug/Kg		81	40 - 120	4	20
Endosulfan II	16.3	13.9		ug/Kg		85	40 - 120	1	35

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 720-120072/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120143 — **Prep Batch: 120072**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-BHC	16.3	12.8		ug/Kg		78	40 - 120	3	20
beta-BHC	16.3	13.8		ug/Kg		85	40 - 120	2	20
gamma-BHC (Lindane)	16.3	12.5		ug/Kg		77	50 - 96	3	20
delta-BHC	16.3	13.6		ug/Kg		83	40 - 120	3	20
Endosulfan sulfate	16.3	14.1		ug/Kg		87	40 - 120	1	20
Methoxychlor	16.3	15.6		ug/Kg		96	40 - 120	0	20
alpha-Chlordane	16.3	12.7		ug/Kg		78	40 - 120	1	20
gamma-Chlordane	16.3	12.5		ug/Kg		77	40 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*34 - 110*
DCB Decachlorobiphenyl	*94*		*21 - 136*

Lab Sample ID: MB 720-120130/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120254 — **Prep Batch: 120130**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 20:12	1
Dieldrin	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 20:12	1
Endrin aldehyde	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 20:12	1
Endrin	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 20:12	1
Endrin ketone	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 20:12	1
Heptachlor	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 20:12	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 20:12	1
4,4'-DDT	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 20:12	1
4,4'-DDE	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 20:12	1
4,4'-DDD	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 20:12	1
Endosulfan I	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 20:12	1
Endosulfan II	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 20:12	1
alpha-BHC	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 20:12	1
beta-BHC	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 20:12	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 20:12	1
delta-BHC	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 20:12	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 20:12	1
Methoxychlor	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 20:12	1
Toxaphene	ND		40		ug/Kg		08/31/12 13:47	09/04/12 20:12	1
Chlordane (technical)	ND		40		ug/Kg		08/31/12 13:47	09/04/12 20:12	1
alpha-Chlordane	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 20:12	1
gamma-Chlordane	ND		2.0		ug/Kg		08/31/12 13:47	09/04/12 20:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*34 - 110*	*08/31/12 13:47*	*09/04/12 20:12*	*1*
DCB Decachlorobiphenyl	*101*		*21 - 136*	*08/31/12 13:47*	*09/04/12 20:12*	*1*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-120130/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120254 — **Prep Batch: 120130**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.4	14.3		ug/Kg		87	54 - 120
Dieldrin	16.4	15.6		ug/Kg		95	59 - 120
Endrin aldehyde	16.4	16.3		ug/Kg		100	40 - 120
Endrin	16.4	15.8		ug/Kg		97	53 - 120
Endrin ketone	16.4	17.0		ug/Kg		104	40 - 120
Heptachlor	16.4	14.4		ug/Kg		88	54 - 120
Heptachlor epoxide	16.4	15.3		ug/Kg		94	40 - 120
4,4'-DDT	16.4	16.3		ug/Kg		99	51 - 120
4,4'-DDE	16.4	15.5		ug/Kg		95	40 - 120
4,4'-DDD	16.4	16.3		ug/Kg		99	40 - 120
Endosulfan I	16.4	16.3		ug/Kg		99	40 - 120
Endosulfan II	16.4	16.1		ug/Kg		98	40 - 120
alpha-BHC	16.4	14.3		ug/Kg		87	40 - 120
beta-BHC	16.4	16.7		ug/Kg		102	40 - 120
gamma-BHC (Lindane)	16.4	14.8		ug/Kg		91	50 - 96
delta-BHC	16.4	16.0		ug/Kg		98	40 - 120
Endosulfan sulfate	16.4	16.4		ug/Kg		100	40 - 120
Methoxychlor	16.4	17.1		ug/Kg		105	40 - 120
alpha-Chlordane	16.4	15.3		ug/Kg		94	40 - 120
gamma-Chlordane	16.4	15.3		ug/Kg		93	40 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*89*		*34 - 110*
DCB Decachlorobiphenyl	*109*		*21 - 136*

Lab Sample ID: LCSD 720-120130/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120254 — **Prep Batch: 120130**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	16.4	13.7		ug/Kg		83	54 - 120	4	20
Dieldrin	16.4	15.1		ug/Kg		92	59 - 120	3	20
Endrin aldehyde	16.4	15.6		ug/Kg		95	40 - 120	5	20
Endrin	16.4	15.4		ug/Kg		93	53 - 120	3	20
Endrin ketone	16.4	16.3		ug/Kg		99	40 - 120	4	20
Heptachlor	16.4	13.9		ug/Kg		84	54 - 120	4	20
Heptachlor epoxide	16.4	14.9		ug/Kg		91	40 - 120	2	20
4,4'-DDT	16.4	15.7		ug/Kg		95	51 - 120	4	20
4,4'-DDE	16.4	15.1		ug/Kg		92	40 - 120	3	20
4,4'-DDD	16.4	15.7		ug/Kg		96	40 - 120	3	20
Endosulfan I	16.4	15.7		ug/Kg		95	40 - 120	4	20
Endosulfan II	16.4	15.4		ug/Kg		94	40 - 120	4	35
alpha-BHC	16.4	13.6		ug/Kg		82	40 - 120	5	20
beta-BHC	16.4	16.4		ug/Kg		100	40 - 120	2	20
gamma-BHC (Lindane)	16.4	14.3		ug/Kg		87	50 - 96	4	20
delta-BHC	16.4	15.6		ug/Kg		95	40 - 120	3	20
Endosulfan sulfate	16.4	15.7		ug/Kg		95	40 - 120	4	20
Methoxychlor	16.4	16.6		ug/Kg		101	40 - 120	3	20
alpha-Chlordane	16.4	14.9		ug/Kg		91	40 - 120	3	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 720-120130/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120254 — **Prep Batch: 120130**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
gamma-Chlordane			16.4	14.9		ug/Kg		91	40 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*84*		*34 - 110*
DCB Decachlorobiphenyl	*104*		*21 - 136*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 720-120061/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120047 — **Prep Batch: 120061**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		08/30/12 11:43	08/30/12 22:53	1
PCB-1221	ND		50		ug/Kg		08/30/12 11:43	08/30/12 22:53	1
PCB-1232	ND		50		ug/Kg		08/30/12 11:43	08/30/12 22:53	1
PCB-1242	ND		50		ug/Kg		08/30/12 11:43	08/30/12 22:53	1
PCB-1248	ND		50		ug/Kg		08/30/12 11:43	08/30/12 22:53	1
PCB-1254	ND		50		ug/Kg		08/30/12 11:43	08/30/12 22:53	1
PCB-1260	ND		50		ug/Kg		08/30/12 11:43	08/30/12 22:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*32 - 112*	*08/30/12 11:43*	*08/30/12 22:53*	*1*
DCB Decachlorobiphenyl	*105*		*2 - 122*	*08/30/12 11:43*	*08/30/12 22:53*	*1*

Lab Sample ID: MB 720-120104/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120126 — **Prep Batch: 120104**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		08/30/12 21:01	09/01/12 03:37	1
PCB-1221	ND		50		ug/Kg		08/30/12 21:01	09/01/12 03:37	1
PCB-1232	ND		50		ug/Kg		08/30/12 21:01	09/01/12 03:37	1
PCB-1242	ND		50		ug/Kg		08/30/12 21:01	09/01/12 03:37	1
PCB-1248	ND		50		ug/Kg		08/30/12 21:01	09/01/12 03:37	1
PCB-1254	ND		50		ug/Kg		08/30/12 21:01	09/01/12 03:37	1
PCB-1260	ND		50		ug/Kg		08/30/12 21:01	09/01/12 03:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*32 - 112*	*08/30/12 21:01*	*09/01/12 03:37*	*1*
DCB Decachlorobiphenyl	*69*		*2 - 122*	*08/30/12 21:01*	*09/01/12 03:37*	*1*

Lab Sample ID: LCS 720-120104/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120126 — **Prep Batch: 120104**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			131	109		ug/Kg		83	65 - 120		
PCB-1260			131	108		ug/Kg		82	65 - 120		

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 720-120104/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120126 — **Prep Batch: 120104**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	*81*		*32 - 112*
DCB Decachlorobiphenyl	*76*		*2 - 122*

Lab Sample ID: LCSD 720-120104/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120126 — **Prep Batch: 120104**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			132	116		ug/Kg		88	65 - 120	6	20
PCB-1260			132	111		ug/Kg		84	65 - 120	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	*87*		*32 - 112*
DCB Decachlorobiphenyl	*77*		*2 - 122*

Lab Sample ID: MB 720-120121/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120216 — **Prep Batch: 120121**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		08/31/12 11:11	09/04/12 17:20	1
PCB-1221	ND		49		ug/Kg		08/31/12 11:11	09/04/12 17:20	1
PCB-1232	ND		49		ug/Kg		08/31/12 11:11	09/04/12 17:20	1
PCB-1242	ND		49		ug/Kg		08/31/12 11:11	09/04/12 17:20	1
PCB-1248	ND		49		ug/Kg		08/31/12 11:11	09/04/12 17:20	1
PCB-1254	ND		49		ug/Kg		08/31/12 11:11	09/04/12 17:20	1
PCB-1260	ND		49		ug/Kg		08/31/12 11:11	09/04/12 17:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*74*		*32 - 112*	*08/31/12 11:11*	*09/04/12 17:20*	*1*
DCB Decachlorobiphenyl	*84*		*2 - 122*	*08/31/12 11:11*	*09/04/12 17:20*	*1*

Lab Sample ID: LCS 720-120121/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120216 — **Prep Batch: 120121**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			132	105		ug/Kg		79	65 - 120		
PCB-1260			132	113		ug/Kg		85	65 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	*75*		*32 - 112*
DCB Decachlorobiphenyl	*81*		*2 - 122*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 720-120121/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120216 — **Prep Batch: 120121**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			132	105		ug/Kg		79	65 - 120	0	20
PCB-1260			132	113		ug/Kg		86	65 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*32 - 112*
DCB Decachlorobiphenyl	*83*		*2 - 122*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-120063/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120132 — **Prep Batch: 120063**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		08/30/12 12:25	08/31/12 09:21	1
Arsenic	ND		1.0		mg/Kg		08/30/12 12:25	08/31/12 09:21	1
Barium	ND		0.50		mg/Kg		08/30/12 12:25	08/31/12 09:21	1
Beryllium	ND		0.10		mg/Kg		08/30/12 12:25	08/31/12 09:21	1
Cadmium	ND		0.13		mg/Kg		08/30/12 12:25	08/31/12 09:21	1
Chromium	ND		0.50		mg/Kg		08/30/12 12:25	08/31/12 09:21	1
Cobalt	ND		0.20		mg/Kg		08/30/12 12:25	08/31/12 09:21	1
Copper	ND		1.5		mg/Kg		08/30/12 12:25	08/31/12 09:21	1
Lead	ND		0.50		mg/Kg		08/30/12 12:25	08/31/12 09:21	1
Molybdenum	ND		0.50		mg/Kg		08/30/12 12:25	08/31/12 09:21	1
Nickel	ND		0.50		mg/Kg		08/30/12 12:25	08/31/12 09:21	1
Selenium	ND		1.0		mg/Kg		08/30/12 12:25	08/31/12 09:21	1
Silver	ND		0.25		mg/Kg		08/30/12 12:25	08/31/12 09:21	1
Thallium	ND		0.50		mg/Kg		08/30/12 12:25	08/31/12 09:21	1
Vanadium	ND		0.50		mg/Kg		08/30/12 12:25	08/31/12 09:21	1
Zinc	ND		1.5		mg/Kg		08/30/12 12:25	08/31/12 09:21	1

Lab Sample ID: LCS 720-120063/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120132 — **Prep Batch: 120063**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Antimony			50.0	47.7		mg/Kg		95	80 - 120		
Arsenic			50.0	48.8		mg/Kg		98	80 - 120		
Barium			50.0	49.8		mg/Kg		100	80 - 120		
Beryllium			50.0	51.1		mg/Kg		102	80 - 120		
Cadmium			50.0	49.4		mg/Kg		99	80 - 120		
Chromium			50.0	50.5		mg/Kg		101	80 - 120		
Cobalt			50.0	50.4		mg/Kg		101	80 - 120		
Copper			50.0	50.2		mg/Kg		100	80 - 120		
Lead			50.0	50.5		mg/Kg		101	80 - 120		
Molybdenum			50.0	50.5		mg/Kg		101	80 - 120		
Nickel			50.0	50.5		mg/Kg		101	80 - 120		
Selenium			50.0	47.6		mg/Kg		95	80 - 120		
Silver			25.0	24.5		mg/Kg		98	80 - 120		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-120063/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120132 — **Prep Batch: 120063**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	50.0	50.4		mg/Kg		101	80 - 120
Vanadium	50.0	50.4		mg/Kg		101	80 - 120
Zinc	50.0	49.7		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 720-120063/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120132 — **Prep Batch: 120063**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	47.9		mg/Kg		96	80 - 120	0	20
Arsenic	50.0	48.6		mg/Kg		97	80 - 120	1	20
Barium	50.0	49.4		mg/Kg		99	80 - 120	1	20
Beryllium	50.0	50.3		mg/Kg		101	80 - 120	2	20
Cadmium	50.0	49.0		mg/Kg		98	80 - 120	1	20
Chromium	50.0	49.9		mg/Kg		100	80 - 120	1	20
Cobalt	50.0	50.0		mg/Kg		100	80 - 120	1	20
Copper	50.0	49.8		mg/Kg		100	80 - 120	1	20
Lead	50.0	50.3		mg/Kg		101	80 - 120	0	20
Molybdenum	50.0	50.2		mg/Kg		100	80 - 120	1	20
Nickel	50.0	50.1		mg/Kg		100	80 - 120	1	20
Selenium	50.0	47.2		mg/Kg		94	80 - 120	1	20
Silver	25.0	24.3		mg/Kg		97	80 - 120	1	20
Thallium	50.0	50.2		mg/Kg		100	80 - 120	1	20
Vanadium	50.0	50.0		mg/Kg		100	80 - 120	1	20
Zinc	50.0	49.3		mg/Kg		99	80 - 120	1	20

Lab Sample ID: LCSSRM 720-120063/15-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120132 — **Prep Batch: 120063**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	76.3	35.5		mg/Kg		46	11 - 101
Arsenic	84.1	81.0		mg/Kg		96	69 - 119
Barium	517	479		mg/Kg		93	61 - 117
Beryllium	153	151		mg/Kg		98	56 - 102
Cadmium	42.0	40.4		mg/Kg		96	67 - 118
Chromium	269	267		mg/Kg		99	67 - 121
Cobalt	323	316		mg/Kg		98	64 - 133
Copper	263	259		mg/Kg		99	68 - 126
Lead	280	270		mg/Kg		96	62 - 113
Molybdenum	215	211		mg/Kg		98	62 - 128
Nickel	106	103		mg/Kg		97	65 - 117
Selenium	138	130		mg/Kg		94	63 - 126
Silver	50.4	49.3		mg/Kg		98	51 - 130
Thallium	331	320		mg/Kg		97	64 - 124
Vanadium	142	141		mg/Kg		99	67 - 123
Zinc	574	546		mg/Kg		95	62 - 110

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-120088/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120151 — **Prep Batch: 120088**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		08/30/12 16:51	08/31/12 15:10	1
Arsenic	ND		1.0		mg/Kg		08/30/12 16:51	08/31/12 15:10	1
Barium	ND		0.50		mg/Kg		08/30/12 16:51	08/31/12 15:10	1
Beryllium	ND		0.10		mg/Kg		08/30/12 16:51	08/31/12 15:10	1
Cadmium	ND		0.13		mg/Kg		08/30/12 16:51	08/31/12 15:10	1
Chromium	ND		0.50		mg/Kg		08/30/12 16:51	08/31/12 15:10	1
Cobalt	ND		0.20		mg/Kg		08/30/12 16:51	08/31/12 15:10	1
Copper	ND		1.5		mg/Kg		08/30/12 16:51	08/31/12 15:10	1
Lead	ND		0.50		mg/Kg		08/30/12 16:51	08/31/12 15:10	1
Molybdenum	ND		0.50		mg/Kg		08/30/12 16:51	08/31/12 15:10	1
Nickel	ND		0.50		mg/Kg		08/30/12 16:51	08/31/12 15:10	1
Selenium	ND		1.0		mg/Kg		08/30/12 16:51	08/31/12 15:10	1
Silver	ND		0.25		mg/Kg		08/30/12 16:51	08/31/12 15:10	1
Thallium	ND		0.50		mg/Kg		08/30/12 16:51	08/31/12 15:10	1
Vanadium	ND		0.50		mg/Kg		08/30/12 16:51	08/31/12 15:10	1
Zinc	ND		1.5		mg/Kg		08/30/12 16:51	08/31/12 15:10	1

Lab Sample ID: LCS 720-120088/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120151 — **Prep Batch: 120088**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.5		mg/Kg		93	80 - 120
Arsenic	50.0	48.2		mg/Kg		96	80 - 120
Barium	50.0	48.0		mg/Kg		96	80 - 120
Beryllium	50.0	50.2		mg/Kg		100	80 - 120
Cadmium	50.0	47.3		mg/Kg		95	80 - 120
Chromium	50.0	51.6		mg/Kg		103	80 - 120
Cobalt	50.0	49.0		mg/Kg		98	80 - 120
Copper	50.0	50.5		mg/Kg		101	80 - 120
Lead	50.0	50.1		mg/Kg		100	80 - 120
Molybdenum	50.0	49.8		mg/Kg		100	80 - 120
Nickel	50.0	51.1		mg/Kg		102	80 - 120
Selenium	50.0	47.4		mg/Kg		95	80 - 120
Silver	25.0	23.3		mg/Kg		93	80 - 120
Thallium	50.0	50.4		mg/Kg		101	80 - 120
Vanadium	50.0	49.4		mg/Kg		99	80 - 120
Zinc	50.0	48.8		mg/Kg		98	80 - 120

Lab Sample ID: LCSD 720-120088/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120151 — **Prep Batch: 120088**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	45.7		mg/Kg		91	80 - 120	2	20
Arsenic	50.0	47.3		mg/Kg		95	80 - 120	2	20
Barium	50.0	47.8		mg/Kg		96	80 - 120	0	20
Beryllium	50.0	49.0		mg/Kg		98	80 - 120	2	20
Cadmium	50.0	46.5		mg/Kg		93	80 - 120	2	20
Chromium	50.0	49.9		mg/Kg		100	80 - 120	3	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 720-120088/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120151 — **Prep Batch: 120088**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt	50.0	48.2		mg/Kg		96	80 - 120	2	20
Copper	50.0	49.4		mg/Kg		99	80 - 120	2	20
Lead	50.0	49.0		mg/Kg		98	80 - 120	2	20
Molybdenum	50.0	49.0		mg/Kg		98	80 - 120	1	20
Nickel	50.0	50.0		mg/Kg		100	80 - 120	2	20
Selenium	50.0	46.4		mg/Kg		93	80 - 120	2	20
Silver	25.0	22.8		mg/Kg		91	80 - 120	2	20
Thallium	50.0	49.6		mg/Kg		99	80 - 120	2	20
Vanadium	50.0	48.1		mg/Kg		96	80 - 120	3	20
Zinc	50.0	47.7		mg/Kg		95	80 - 120	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-120102/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120127 — **Prep Batch: 120102**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		08/30/12 20:47	08/31/12 09:39	1

Lab Sample ID: LCS 720-120102/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120127 — **Prep Batch: 120102**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.818		mg/Kg		98	80 - 120

Lab Sample ID: LCSD 720-120102/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120127 — **Prep Batch: 120102**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.833	0.823		mg/Kg		99	80 - 120	1	20

Lab Sample ID: MB 720-120157/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120274 — **Prep Batch: 120157**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		08/31/12 17:33	09/04/12 18:22	1

Lab Sample ID: LCS 720-120157/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120274 — **Prep Batch: 120157**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.842		mg/Kg		101	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 720-120157/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120274 — **Prep Batch: 120157**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.833	0.833		mg/Kg		100	80 - 120	1	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 500-161279/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 161392 — **Prep Batch: 161279**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		1.0		mg/Kg		08/30/12 17:30	08/31/12 13:01	1

Lab Sample ID: LCS 500-161279/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 161392 — **Prep Batch: 161279**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium, hexavalent			10.0	9.92		mg/Kg		99	80 - 120		

Lab Sample ID: LCS 500-161279/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 161392 — **Prep Batch: 161279**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium, hexavalent			740	763		mg/Kg		103	80 - 120		

GC/MS VOA

Analysis Batch: 119985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-2	SB-7 (2-2 1/2)	Total/NA	Solid	8260B/CA_LUFT MS	119997
720-44232-4	SB-7 (9-9 1/2)	Total/NA	Solid	8260B/CA_LUFT MS	119997
720-44232-11	SB-8 (11-11 1/2)	Total/NA	Solid	8260B/CA_LUFT MS	119997
720-44232-13	SB-8 (16-16 1/2)	Total/NA	Solid	8260B/CA_LUFT MS	119997
720-44232-16	SB-10 (4-4 1/2)	Total/NA	Solid	8260B/CA_LUFT MS	119997
720-44232-23	SB-3 (2-2 1/2)	Total/NA	Solid	8260B/CA_LUFT MS	119997
720-44232-24	SB-3 (14 1/2-15)	Total/NA	Solid	8260B/CA_LUFT MS	119997
720-44232-30	SB-9 (11 1/2-12')	Total/NA	Solid	8260B/CA_LUFT MS	119997
LCS 720-119997/2-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	119997
LCS 720-119997/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	119997
LCSD 720-119997/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	119997
LCSD 720-119997/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	119997
MB 720-119997/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	119997

Prep Batch: 119997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-2	SB-7 (2-2 1/2)	Total/NA	Solid	5035	
720-44232-4	SB-7 (9-9 1/2)	Total/NA	Solid	5035	
720-44232-11	SB-8 (11-11 1/2)	Total/NA	Solid	5035	
720-44232-13	SB-8 (16-16 1/2)	Total/NA	Solid	5035	
720-44232-16	SB-10 (4-4 1/2)	Total/NA	Solid	5035	
720-44232-23	SB-3 (2-2 1/2)	Total/NA	Solid	5035	
720-44232-24	SB-3 (14 1/2-15)	Total/NA	Solid	5035	
720-44232-30	SB-9 (11 1/2-12')	Total/NA	Solid	5035	
LCS 720-119997/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 720-119997/4-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 720-119997/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	
LCSD 720-119997/5-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 720-119997/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 120001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-12	SB-8 (14-14 1/2)	Total/NA	Solid	8260B/CA_LUFT MS	120024
720-44232-29	SB-9 (8-8 1/2')	Total/NA	Solid	8260B/CA_LUFT MS	120024
720-44232-31	SB-9 (17-17 1/2')	Total/NA	Solid	8260B/CA_LUFT MS	120024
LCS 720-120024/2-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	120024
LCS 720-120024/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	120024
LCSD 720-120024/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	120024

GC/MS VOA (Continued)

Analysis Batch: 120001 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 720-120024/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	120024
MB 720-120024/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	120024

Prep Batch: 120024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-12	SB-8 (14-14 1/2)	Total/NA	Solid	5030B	
720-44232-29	SB-9 (8-8 1/2')	Total/NA	Solid	5030B	
720-44232-31	SB-9 (17-17 1/2')	Total/NA	Solid	5030B	
LCS 720-120024/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCS 720-120024/4-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-120024/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
LCSD 720-120024/5-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
MB 720-120024/1-A	Method Blank	Total/NA	Solid	5030B	

Analysis Batch: 120037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-9	SB-8 (2-2 1/2)	Total/NA	Solid	8260B/CA_LUFT MS	120048
720-44232-15	SB-10 (2-2 1/2)	Total/NA	Solid	8260B/CA_LUFT MS	120048
720-44232-17	SB-10 (9 1/2-10)	Total/NA	Solid	8260B/CA_LUFT MS	120048
720-44232-22	SB-3 (4-4 1/2)	Total/NA	Solid	8260B/CA_LUFT MS	120048
720-44232-27	SB-9 (2-2 1/2')	Total/NA	Solid	8260B/CA_LUFT MS	120048
LCS 720-120048/2-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	120048
LCS 720-120048/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	120048
LCSD 720-120048/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	120048
LCSD 720-120048/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	120048
MB 720-120048/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	120048

Prep Batch: 120048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-9	SB-8 (2-2 1/2)	Total/NA	Solid	5035	
720-44232-15	SB-10 (2-2 1/2)	Total/NA	Solid	5035	
720-44232-17	SB-10 (9 1/2-10)	Total/NA	Solid	5035	
720-44232-22	SB-3 (4-4 1/2)	Total/NA	Solid	5035	
720-44232-27	SB-9 (2-2 1/2')	Total/NA	Solid	5035	
LCS 720-120048/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 720-120048/4-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 720-120048/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	
LCSD 720-120048/5-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 720-120048/1-A	Method Blank	Total/NA	Solid	5035	

GC/MS VOA (Continued)

Analysis Batch: 120074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-5	SB-7 (14-14 1/2)	Total/NA	Solid	8260B/CA_LUFT MS	120092
720-44232-18	SB-10 (17-17 1/2)	Total/NA	Solid	8260B/CA_LUFT MS	120092
LCS 720-120092/2-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	120092
LCS 720-120092/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	120092
LCSD 720-120092/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	120092
LCSD 720-120092/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	120092
MB 720-120092/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	120092

Prep Batch: 120092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-5	SB-7 (14-14 1/2)	Total/NA	Solid	5030B	
720-44232-18	SB-10 (17-17 1/2)	Total/NA	Solid	5030B	
LCS 720-120092/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCS 720-120092/4-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-120092/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
LCSD 720-120092/5-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
MB 720-120092/1-A	Method Blank	Total/NA	Solid	5030B	

GC/MS Semi VOA

Prep Batch: 120057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-1	SB-7 (1/2-1 1/2)	Total/NA	Solid	3546	
720-44232-9	SB-8 (2-2 1/2)	Total/NA	Solid	3546	
720-44232-14	SB-10 (1-1 1/2)	Total/NA	Solid	3546	
720-44232-22	SB-3 (4-4 1/2)	Total/NA	Solid	3546	
720-44232-27	SB-9 (2-2 1/2')	Total/NA	Solid	3546	
LCS 720-120057/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-120057/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-120057/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 120117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-32	SB-6 (1-1 1/2')	Total/NA	Solid	3546	
720-44232-39	SB-2 (2-2 1/2')	Total/NA	Solid	3546	
720-44232-41	SB-4 (1-1 1/2')	Total/NA	Solid	3546	
720-44232-44	SB-1 (2-2 1/2')	Total/NA	Solid	3546	
LCS 720-120117/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-120117/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-120117/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 120122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-120057/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	120057
LCSD 720-120057/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	120057
MB 720-120057/1-A	Method Blank	Total/NA	Solid	8270C SIM	120057

GC/MS Semi VOA (Continued)

Analysis Batch: 120182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-44	SB-1 (2-2 1/2')	Total/NA	Solid	8270C SIM	120117
LCS 720-120117/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	120117
LCSD 720-120117/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	120117
MB 720-120117/1-A	Method Blank	Total/NA	Solid	8270C SIM	120117

Analysis Batch: 120205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-32	SB-6 (1-1 1/2')	Total/NA	Solid	8270C SIM	120117
720-44232-39	SB-2 (2-2 1/2')	Total/NA	Solid	8270C SIM	120117
720-44232-41	SB-4 (1-1 1/2')	Total/NA	Solid	8270C SIM	120117

Analysis Batch: 120314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-1	SB-7 (1/2-1 1/2)	Total/NA	Solid	8270C SIM	120057
720-44232-9	SB-8 (2-2 1/2)	Total/NA	Solid	8270C SIM	120057
720-44232-14	SB-10 (1-1 1/2)	Total/NA	Solid	8270C SIM	120057
720-44232-22	SB-3 (4-4 1/2)	Total/NA	Solid	8270C SIM	120057
720-44232-27	SB-9 (2-2 1/2')	Total/NA	Solid	8270C SIM	120057

GC Semi VOA

Prep Batch: 120046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-1	SB-7 (1/2-1 1/2)	Silica Gel Cleanup	Solid	3546	
720-44232-2	SB-7 (2-2 1/2)	Silica Gel Cleanup	Solid	3546	
720-44232-4	SB-7 (9-9 1/2)	Silica Gel Cleanup	Solid	3546	
720-44232-9	SB-8 (2-2 1/2)	Silica Gel Cleanup	Solid	3546	
720-44232-11	SB-8 (11-11 1/2)	Silica Gel Cleanup	Solid	3546	
720-44232-12	SB-8 (14-14 1/2)	Silica Gel Cleanup	Solid	3546	
720-44232-13	SB-8 (16-16 1/2)	Silica Gel Cleanup	Solid	3546	
720-44232-14	SB-10 (1-1 1/2)	Silica Gel Cleanup	Solid	3546	
720-44232-16	SB-10 (4-4 1/2)	Silica Gel Cleanup	Solid	3546	
720-44232-17	SB-10 (9 1/2-10)	Silica Gel Cleanup	Solid	3546	
720-44232-18	SB-10 (17-17 1/2)	Silica Gel Cleanup	Solid	3546	
720-44232-20	SB-3 (1-1 1/2)	Silica Gel Cleanup	Solid	3546	
LCS 720-120046/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-120046/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-120046/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 120047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-120061/1-A	Method Blank	Total/NA	Solid	8082	120061

Prep Batch: 120061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-1	SB-7 (1/2-1 1/2)	Total/NA	Solid	3546	
720-44232-9	SB-8 (2-2 1/2)	Total/NA	Solid	3546	
720-44232-14	SB-10 (1-1 1/2)	Total/NA	Solid	3546	
720-44232-20	SB-3 (1-1 1/2)	Total/NA	Solid	3546	
720-44232-22	SB-3 (4-4 1/2)	Total/NA	Solid	3546	
720-44232-32	SB-6 (1-1 1/2')	Total/NA	Solid	3546	
720-44232-35	SB-5 (1-1 1/2')	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 120061 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-37	SB-5 (4-4 1/2')	Total/NA	Solid	3546	
720-44232-38	SB-2 (1-1 1/2')	Total/NA	Solid	3546	
720-44232-40	SB-2 (4-4 1/2')	Total/NA	Solid	3546	
720-44232-41	SB-4 (1-1 1/2')	Total/NA	Solid	3546	
MB 720-120061/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 120072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-1	SB-7 (1/2-1 1/2)	Total/NA	Solid	3546	
720-44232-9	SB-8 (2-2 1/2)	Total/NA	Solid	3546	
720-44232-14	SB-10 (1-1 1/2)	Total/NA	Solid	3546	
720-44232-20	SB-3 (1-1 1/2)	Total/NA	Solid	3546	
720-44232-22	SB-3 (4-4 1/2)	Total/NA	Solid	3546	
720-44232-28	SB-9 (4-4 1/2')	Total/NA	Solid	3546	
720-44232-32	SB-6 (1-1 1/2')	Total/NA	Solid	3546	
720-44232-35	SB-5 (1-1 1/2')	Total/NA	Solid	3546	
720-44232-37	SB-5 (4-4 1/2')	Total/NA	Solid	3546	
720-44232-38	SB-2 (1-1 1/2')	Total/NA	Solid	3546	
720-44232-40	SB-2 (4-4 1/2')	Total/NA	Solid	3546	
720-44232-41	SB-4 (1-1 1/2')	Total/NA	Solid	3546	
LCS 720-120072/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-120072/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-120072/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 120076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-22	SB-3 (4-4 1/2)	Silica Gel Cleanup	Solid	3546	
720-44232-24	SB-3 (14 1/2-15)	Silica Gel Cleanup	Solid	3546	
720-44232-25	SB-3 (16 1/2-17')	Silica Gel Cleanup	Solid	3546	
720-44232-27	SB-9 (2-2 1/2')	Silica Gel Cleanup	Solid	3546	
720-44232-28	SB-9 (4-4 1/2')	Silica Gel Cleanup	Solid	3546	
720-44232-30	SB-9 (11 1/2-12')	Silica Gel Cleanup	Solid	3546	
720-44232-31	SB-9 (17-17 1/2')	Silica Gel Cleanup	Solid	3546	
720-44232-32	SB-6 (1-1 1/2')	Silica Gel Cleanup	Solid	3546	
720-44232-35	SB-5 (1-1 1/2')	Silica Gel Cleanup	Solid	3546	
720-44232-37	SB-5 (4-4 1/2')	Silica Gel Cleanup	Solid	3546	
720-44232-38	SB-2 (1-1 1/2')	Silica Gel Cleanup	Solid	3546	
720-44232-40	SB-2 (4-4 1/2')	Silica Gel Cleanup	Solid	3546	
720-44232-41	SB-4 (1-1 1/2')	Silica Gel Cleanup	Solid	3546	
720-44232-45	SB-1 (4-4 1/2')	Silica Gel Cleanup	Solid	3546	
720-44232-45 MS	SB-1 (4-4 1/2')	Silica Gel Cleanup	Solid	3546	
720-44232-45 MSD	SB-1 (4-4 1/2')	Silica Gel Cleanup	Solid	3546	

Prep Batch: 120104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-27	SB-9 (2-2 1/2')	Total/NA	Solid	3546	
LCS 720-120104/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-120104/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-120104/1-A	Method Blank	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Analysis Batch: 120113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-22	SB-3 (4-4 1/2)	Silica Gel Cleanup	Solid	8015B	120076
720-44232-24	SB-3 (14 1/2-15)	Silica Gel Cleanup	Solid	8015B	120076
720-44232-25	SB-3 (16 1/2-17')	Silica Gel Cleanup	Solid	8015B	120076
720-44232-28	SB-9 (4-4 1/2')	Silica Gel Cleanup	Solid	8015B	120076
720-44232-30	SB-9 (11 1/2-12')	Silica Gel Cleanup	Solid	8015B	120076
720-44232-31	SB-9 (17-17 1/2')	Silica Gel Cleanup	Solid	8015B	120076
720-44232-32	SB-6 (1-1 1/2')	Silica Gel Cleanup	Solid	8015B	120076
720-44232-35	SB-5 (1-1 1/2')	Silica Gel Cleanup	Solid	8015B	120076
720-44232-37	SB-5 (4-4 1/2')	Silica Gel Cleanup	Solid	8015B	120076
720-44232-38	SB-2 (1-1 1/2')	Silica Gel Cleanup	Solid	8015B	120076
720-44232-40	SB-2 (4-4 1/2')	Silica Gel Cleanup	Solid	8015B	120076
720-44232-41	SB-4 (1-1 1/2')	Silica Gel Cleanup	Solid	8015B	120076
720-44232-45	SB-1 (4-4 1/2')	Silica Gel Cleanup	Solid	8015B	120076
720-44232-45 MS	SB-1 (4-4 1/2')	Silica Gel Cleanup	Solid	8015B	120076
720-44232-45 MSD	SB-1 (4-4 1/2')	Silica Gel Cleanup	Solid	8015B	120076

Analysis Batch: 120114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-1	SB-7 (1/2-1 1/2)	Silica Gel Cleanup	Solid	8015B	120046
720-44232-2	SB-7 (2-2 1/2)	Silica Gel Cleanup	Solid	8015B	120046
720-44232-4	SB-7 (9-9 1/2)	Silica Gel Cleanup	Solid	8015B	120046
720-44232-9	SB-8 (2-2 1/2)	Silica Gel Cleanup	Solid	8015B	120046
720-44232-11	SB-8 (11-11 1/2)	Silica Gel Cleanup	Solid	8015B	120046
720-44232-13	SB-8 (16-16 1/2)	Silica Gel Cleanup	Solid	8015B	120046
720-44232-14	SB-10 (1-1 1/2)	Silica Gel Cleanup	Solid	8015B	120046
720-44232-16	SB-10 (4-4 1/2)	Silica Gel Cleanup	Solid	8015B	120046
720-44232-17	SB-10 (9 1/2-10)	Silica Gel Cleanup	Solid	8015B	120046
720-44232-18	SB-10 (17-17 1/2)	Silica Gel Cleanup	Solid	8015B	120046
720-44232-20	SB-3 (1-1 1/2)	Silica Gel Cleanup	Solid	8015B	120046
LCS 720-120046/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	120046
LCSD 720-120046/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	120046
MB 720-120046/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	120046

Prep Batch: 120121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-45	SB-1 (4-4 1/2')	Total/NA	Solid	3546	
LCS 720-120121/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-120121/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-120121/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 120126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-1	SB-7 (1/2-1 1/2)	Total/NA	Solid	8082	120061
720-44232-9	SB-8 (2-2 1/2)	Total/NA	Solid	8082	120061
720-44232-14	SB-10 (1-1 1/2)	Total/NA	Solid	8082	120061
720-44232-20	SB-3 (1-1 1/2)	Total/NA	Solid	8082	120061
720-44232-22	SB-3 (4-4 1/2)	Total/NA	Solid	8082	120061
720-44232-32	SB-6 (1-1 1/2')	Total/NA	Solid	8082	120061
720-44232-35	SB-5 (1-1 1/2')	Total/NA	Solid	8082	120061
720-44232-37	SB-5 (4-4 1/2')	Total/NA	Solid	8082	120061
720-44232-38	SB-2 (1-1 1/2')	Total/NA	Solid	8082	120061
720-44232-40	SB-2 (4-4 1/2')	Total/NA	Solid	8082	120061

GC Semi VOA (Continued)

Analysis Batch: 120126 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-41	SB-4 (1-1 1/2')	Total/NA	Solid	8082	120061
LCS 720-120104/2-A	Lab Control Sample	Total/NA	Solid	8082	120104
LCSD 720-120104/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	120104
MB 720-120104/1-A	Method Blank	Total/NA	Solid	8082	120104

Prep Batch: 120130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-45	SB-1 (4-4 1/2')	Total/NA	Solid	3546	
LCS 720-120130/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-120130/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-120130/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 120143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-1	SB-7 (1/2-1 1/2)	Total/NA	Solid	8081A	120072
720-44232-9	SB-8 (2-2 1/2)	Total/NA	Solid	8081A	120072
720-44232-14	SB-10 (1-1 1/2)	Total/NA	Solid	8081A	120072
720-44232-20	SB-3 (1-1 1/2)	Total/NA	Solid	8081A	120072
720-44232-22	SB-3 (4-4 1/2)	Total/NA	Solid	8081A	120072
720-44232-28	SB-9 (4-4 1/2')	Total/NA	Solid	8081A	120072
720-44232-32	SB-6 (1-1 1/2')	Total/NA	Solid	8081A	120072
720-44232-35	SB-5 (1-1 1/2')	Total/NA	Solid	8081A	120072
720-44232-37	SB-5 (4-4 1/2')	Total/NA	Solid	8081A	120072
720-44232-38	SB-2 (1-1 1/2')	Total/NA	Solid	8081A	120072
720-44232-40	SB-2 (4-4 1/2')	Total/NA	Solid	8081A	120072
720-44232-41	SB-4 (1-1 1/2')	Total/NA	Solid	8081A	120072
LCS 720-120072/2-A	Lab Control Sample	Total/NA	Solid	8081A	120072
LCSD 720-120072/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	120072
MB 720-120072/1-A	Method Blank	Total/NA	Solid	8081A	120072

Analysis Batch: 120178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-27	SB-9 (2-2 1/2')	Silica Gel Cleanup	Solid	8015B	120076

Analysis Batch: 120216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-27	SB-9 (2-2 1/2')	Total/NA	Solid	8082	120104
720-44232-45	SB-1 (4-4 1/2')	Total/NA	Solid	8082	120121
LCS 720-120121/2-A	Lab Control Sample	Total/NA	Solid	8082	120121
LCSD 720-120121/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	120121
MB 720-120121/1-A	Method Blank	Total/NA	Solid	8082	120121

Analysis Batch: 120222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-12	SB-8 (14-14 1/2)	Silica Gel Cleanup	Solid	8015B	120046

Analysis Batch: 120254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-45	SB-1 (4-4 1/2')	Total/NA	Solid	8081A	120130
LCS 720-120130/2-A	Lab Control Sample	Total/NA	Solid	8081A	120130
LCSD 720-120130/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	120130
MB 720-120130/1-A	Method Blank	Total/NA	Solid	8081A	120130

Metals

Prep Batch: 120063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-32	SB-6 (1-1 1/2')	Total/NA	Solid	3050B	
720-44232-35	SB-5 (1-1 1/2')	Total/NA	Solid	3050B	
720-44232-37	SB-5 (4-4 1/2')	Total/NA	Solid	3050B	
720-44232-38	SB-2 (1-1 1/2')	Total/NA	Solid	3050B	
720-44232-40	SB-2 (4-4 1/2')	Total/NA	Solid	3050B	
720-44232-41	SB-4 (1-1 1/2')	Total/NA	Solid	3050B	
LCS 720-120063/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-120063/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-120063/15-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-120063/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 120088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-1	SB-7 (1/2-1 1/2)	Total/NA	Solid	3050B	
720-44232-9	SB-8 (2-2 1/2)	Total/NA	Solid	3050B	
720-44232-14	SB-10 (1-1 1/2)	Total/NA	Solid	3050B	
720-44232-20	SB-3 (1-1 1/2)	Total/NA	Solid	3050B	
720-44232-22	SB-3 (4-4 1/2)	Total/NA	Solid	3050B	
720-44232-28	SB-9 (4-4 1/2')	Total/NA	Solid	3050B	
720-44232-45	SB-1 (4-4 1/2')	Total/NA	Solid	3050B	
LCS 720-120088/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-120088/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-120088/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 120102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-9	SB-8 (2-2 1/2)	Total/NA	Solid	7471A	
720-44232-14	SB-10 (1-1 1/2)	Total/NA	Solid	7471A	
720-44232-20	SB-3 (1-1 1/2)	Total/NA	Solid	7471A	
720-44232-22	SB-3 (4-4 1/2)	Total/NA	Solid	7471A	
720-44232-28	SB-9 (4-4 1/2')	Total/NA	Solid	7471A	
720-44232-32	SB-6 (1-1 1/2')	Total/NA	Solid	7471A	
720-44232-35	SB-5 (1-1 1/2')	Total/NA	Solid	7471A	
720-44232-37	SB-5 (4-4 1/2')	Total/NA	Solid	7471A	
720-44232-38	SB-2 (1-1 1/2')	Total/NA	Solid	7471A	
720-44232-40	SB-2 (4-4 1/2')	Total/NA	Solid	7471A	
LCS 720-120102/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-120102/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-120102/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 120127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-9	SB-8 (2-2 1/2)	Total/NA	Solid	7471A	120102
720-44232-14	SB-10 (1-1 1/2)	Total/NA	Solid	7471A	120102
720-44232-20	SB-3 (1-1 1/2)	Total/NA	Solid	7471A	120102
720-44232-22	SB-3 (4-4 1/2)	Total/NA	Solid	7471A	120102
720-44232-28	SB-9 (4-4 1/2')	Total/NA	Solid	7471A	120102
720-44232-32	SB-6 (1-1 1/2')	Total/NA	Solid	7471A	120102
720-44232-35	SB-5 (1-1 1/2')	Total/NA	Solid	7471A	120102
720-44232-37	SB-5 (4-4 1/2')	Total/NA	Solid	7471A	120102
720-44232-38	SB-2 (1-1 1/2')	Total/NA	Solid	7471A	120102
720-44232-40	SB-2 (4-4 1/2')	Total/NA	Solid	7471A	120102

Metals (Continued)

Analysis Batch: 120127 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-120102/2-A	Lab Control Sample	Total/NA	Solid	7471A	120102
LCSD 720-120102/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	120102
MB 720-120102/1-A	Method Blank	Total/NA	Solid	7471A	120102

Analysis Batch: 120132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-32	SB-6 (1-1 1/2')	Total/NA	Solid	6010B	120063
720-44232-35	SB-5 (1-1 1/2')	Total/NA	Solid	6010B	120063
720-44232-37	SB-5 (4-4 1/2')	Total/NA	Solid	6010B	120063
720-44232-38	SB-2 (1-1 1/2')	Total/NA	Solid	6010B	120063
720-44232-40	SB-2 (4-4 1/2')	Total/NA	Solid	6010B	120063
720-44232-41	SB-4 (1-1 1/2')	Total/NA	Solid	6010B	120063
LCS 720-120063/2-A	Lab Control Sample	Total/NA	Solid	6010B	120063
LCSD 720-120063/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	120063
LCSSRM 720-120063/15-A	Lab Control Sample	Total/NA	Solid	6010B	120063
MB 720-120063/1-A	Method Blank	Total/NA	Solid	6010B	120063

Analysis Batch: 120151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-120088/2-A	Lab Control Sample	Total/NA	Solid	6010B	120088
LCSD 720-120088/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	120088
MB 720-120088/1-A	Method Blank	Total/NA	Solid	6010B	120088

Prep Batch: 120157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-1	SB-7 (1/2-1 1/2)	Total/NA	Solid	7471A	
720-44232-41	SB-4 (1-1 1/2')	Total/NA	Solid	7471A	
720-44232-45	SB-1 (4-4 1/2')	Total/NA	Solid	7471A	
LCS 720-120157/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-120157/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-120157/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 120172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-1	SB-7 (1/2-1 1/2)	Total/NA	Solid	6010B	120088
720-44232-9	SB-8 (2-2 1/2)	Total/NA	Solid	6010B	120088
720-44232-14	SB-10 (1-1 1/2)	Total/NA	Solid	6010B	120088
720-44232-20	SB-3 (1-1 1/2)	Total/NA	Solid	6010B	120088
720-44232-22	SB-3 (4-4 1/2)	Total/NA	Solid	6010B	120088
720-44232-28	SB-9 (4-4 1/2')	Total/NA	Solid	6010B	120088
720-44232-45	SB-1 (4-4 1/2')	Total/NA	Solid	6010B	120088

Analysis Batch: 120274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-120157/2-A	Lab Control Sample	Total/NA	Solid	7471A	120157
LCSD 720-120157/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	120157
MB 720-120157/1-A	Method Blank	Total/NA	Solid	7471A	120157

Analysis Batch: 120275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-1	SB-7 (1/2-1 1/2)	Total/NA	Solid	7471A	120157
720-44232-41	SB-4 (1-1 1/2')	Total/NA	Solid	7471A	120157

Metals (Continued)

Analysis Batch: 120275 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-45	SB-1 (4-4 1/2')	Total/NA	Solid	7471A	120157

General Chemistry

Prep Batch: 161279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-2	SB-7 (2-2 1/2)	Total/NA	Solid	3060A	
720-44232-21	SB-3 (2-2 1/2)	Total/NA	Solid	3060A	
720-44232-42	SB-4 (2-2 1/2')	Total/NA	Solid	3060A	
LCS 500-161279/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCS 500-161279/3-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 500-161279/1-A	Method Blank	Total/NA	Solid	3060A	

Analysis Batch: 161392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-2	SB-7 (2-2 1/2)	Total/NA	Solid	7196A	161279
720-44232-21	SB-3 (2-2 1/2)	Total/NA	Solid	7196A	161279
720-44232-42	SB-4 (2-2 1/2')	Total/NA	Solid	7196A	161279
LCS 500-161279/2-A	Lab Control Sample	Total/NA	Solid	7196A	161279
LCS 500-161279/3-A	Lab Control Sample	Total/NA	Solid	7196A	161279
MB 500-161279/1-A	Method Blank	Total/NA	Solid	7196A	161279

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-7 (1/2-1 1/2)

Lab Sample ID: 720-44232-1

Date Collected: 08/28/12 08:15
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			120057	08/30/12 11:30	MP	TAL SF
Total/NA	Analysis	8270C SIM		1	120314	09/05/12 15:05	ML	TAL SF
Silica Gel Cleanup	Prep	3546			120046	08/30/12 08:13	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120114	08/31/12 14:49	JZ	TAL SF
Total/NA	Prep	3546			120061	08/30/12 14:16	MP	TAL SF
Total/NA	Analysis	8082		1	120126	08/31/12 18:44	EC	TAL SF
Total/NA	Prep	3546			120072	08/30/12 14:19	ND	TAL SF
Total/NA	Analysis	8081A		1	120143	08/31/12 22:10	EC	TAL SF
Total/NA	Prep	3050B			120088	08/30/12 16:51	EFH	TAL SF
Total/NA	Analysis	6010B		1	120172	08/31/12 19:01	SK	TAL SF
Total/NA	Prep	7471A			120157	09/04/12 08:57	JR	TAL SF
Total/NA	Analysis	7471A		1	120275	09/04/12 19:22	ASB	TAL SF

Client Sample ID: SB-7 (2-2 1/2)

Lab Sample ID: 720-44232-2

Date Collected: 08/28/12 08:20
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119997	08/29/12 14:45	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	119985	08/29/12 16:50	AC	TAL SF
Silica Gel Cleanup	Prep	3546			120046	08/30/12 08:13	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120114	08/31/12 15:13	JZ	TAL SF
Total/NA	Prep	3060A			161279	08/30/12 17:30	APW	TAL CHI
Total/NA	Analysis	7196A		1	161392		APW	TAL CHI
					(Start)	08/31/12 13:04		
					(End)	08/31/12 13:04		

Client Sample ID: SB-7 (9-9 1/2)

Lab Sample ID: 720-44232-4

Date Collected: 08/28/12 08:45
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119997	08/29/12 14:45	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	119985	08/29/12 17:18	AC	TAL SF
Silica Gel Cleanup	Prep	3546			120046	08/30/12 08:13	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120114	08/31/12 16:02	JZ	TAL SF

Client Sample ID: SB-7 (14-14 1/2)

Lab Sample ID: 720-44232-5

Date Collected: 08/28/12 09:00
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			120092	08/30/12 18:13	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	120074	08/30/12 19:24	AC	TAL SF

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-8 (2-2 1/2)

Lab Sample ID: 720-44232-9

Date Collected: 08/28/12 10:00
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			120048	08/29/12 14:45	DH	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	120037	08/30/12 12:11	AC	TAL SF
Total/NA	Prep	3546			120057	08/30/12 11:30	MP	TAL SF
Total/NA	Analysis	8270C SIM		1	120314	09/05/12 15:29	ML	TAL SF
Silica Gel Cleanup	Prep	3546			120046	08/30/12 08:13	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120114	08/31/12 15:37	JZ	TAL SF
Total/NA	Prep	3546			120061	08/30/12 14:16	MP	TAL SF
Total/NA	Analysis	8082		1	120126	08/31/12 19:01	EC	TAL SF
Total/NA	Prep	3546			120072	08/30/12 14:19	ND	TAL SF
Total/NA	Analysis	8081A		1	120143	08/31/12 22:29	EC	TAL SF
Total/NA	Prep	7471A			120102	08/30/12 20:47	CDT	TAL SF
Total/NA	Analysis	7471A		1	120127	08/31/12 10:20	EFH	TAL SF
Total/NA	Prep	3050B			120088	08/30/12 16:51	EFH	TAL SF
Total/NA	Analysis	6010B		1	120172	08/31/12 19:05	SK	TAL SF

Client Sample ID: SB-8 (11-11 1/2)

Lab Sample ID: 720-44232-11

Date Collected: 08/28/12 10:20
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119997	08/29/12 14:45	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	119985	08/29/12 18:16	AC	TAL SF
Silica Gel Cleanup	Prep	3546			120046	08/30/12 08:13	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120114	08/31/12 16:26	JZ	TAL SF

Client Sample ID: SB-8 (14-14 1/2)

Lab Sample ID: 720-44232-12

Date Collected: 08/28/12 10:30
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			120024	08/29/12 20:15	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	120001	08/30/12 04:43	AC	TAL SF
Silica Gel Cleanup	Prep	3546			120046	08/30/12 08:13	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120222	09/04/12 23:41	DH	TAL SF

Client Sample ID: SB-8 (16-16 1/2)

Lab Sample ID: 720-44232-13

Date Collected: 08/28/12 10:40
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119997	08/29/12 14:45	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	119985	08/29/12 18:44	AC	TAL SF
Silica Gel Cleanup	Prep	3546			120046	08/30/12 08:13	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120114	08/31/12 17:15	JZ	TAL SF

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-10 (1-1 1/2)

Lab Sample ID: 720-44232-14

Date Collected: 08/28/12 11:50
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			120057	08/30/12 11:30	MP	TAL SF
Total/NA	Analysis	8270C SIM		2	120314	09/05/12 17:02	ML	TAL SF
Silica Gel Cleanup	Prep	3546			120046	08/30/12 08:13	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120114	08/31/12 20:06	JZ	TAL SF
Total/NA	Prep	3546			120061	08/30/12 14:16	MP	TAL SF
Total/NA	Analysis	8082		1	120126	08/31/12 19:18	EC	TAL SF
Total/NA	Prep	3546			120072	08/30/12 14:19	ND	TAL SF
Total/NA	Analysis	8081A		1	120143	08/31/12 22:47	EC	TAL SF
Total/NA	Prep	7471A			120102	08/30/12 20:47	CDT	TAL SF
Total/NA	Analysis	7471A		1	120127	08/31/12 10:22	EFH	TAL SF
Total/NA	Prep	3050B			120088	08/30/12 16:51	EFH	TAL SF
Total/NA	Analysis	6010B		1	120172	08/31/12 19:10	SK	TAL SF

Client Sample ID: SB-10 (2-2 1/2)

Lab Sample ID: 720-44232-15

Date Collected: 08/28/12 12:00
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			120048	08/29/12 14:45	DH	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	120037	08/30/12 12:39	AC	TAL SF

Client Sample ID: SB-10 (4-4 1/2)

Lab Sample ID: 720-44232-16

Date Collected: 08/28/12 12:10
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119997	08/29/12 14:45	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	119985	08/29/12 19:41	AC	TAL SF
Silica Gel Cleanup	Prep	3546			120046	08/30/12 08:13	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120114	08/31/12 20:30	JZ	TAL SF

Client Sample ID: SB-10 (9 1/2-10)

Lab Sample ID: 720-44232-17

Date Collected: 08/28/12 12:10
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			120048	08/29/12 14:45	DH	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	120037	08/30/12 13:08	AC	TAL SF
Silica Gel Cleanup	Prep	3546			120046	08/30/12 08:13	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120114	08/31/12 20:55	JZ	TAL SF

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-10 (17-17 1/2)

Lab Sample ID: 720-44232-18

Date Collected: 08/28/12 12:20
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			120092	08/30/12 18:13	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	120074	08/30/12 19:53	AC	TAL SF
Silica Gel Cleanup	Prep	3546			120046	08/30/12 08:13	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120114	08/31/12 21:19	JZ	TAL SF

Client Sample ID: SB-3 (1-1 1/2)

Lab Sample ID: 720-44232-20

Date Collected: 08/28/12 12:40
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			120046	08/30/12 08:13	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120114	08/31/12 21:44	JZ	TAL SF
Total/NA	Prep	3546			120061	08/30/12 14:16	MP	TAL SF
Total/NA	Analysis	8082		1	120126	08/31/12 19:35	EC	TAL SF
Total/NA	Prep	3546			120072	08/30/12 14:19	ND	TAL SF
Total/NA	Analysis	8081A		1	120143	08/31/12 23:05	EC	TAL SF
Total/NA	Prep	7471A			120102	08/30/12 20:47	CDT	TAL SF
Total/NA	Analysis	7471A		1	120127	08/31/12 10:24	EFH	TAL SF
Total/NA	Prep	3050B			120088	08/30/12 16:51	EFH	TAL SF
Total/NA	Analysis	6010B		4	120172	08/31/12 19:14	SK	TAL SF

Client Sample ID: SB-3 (2-2 1/2)

Lab Sample ID: 720-44232-21

Date Collected: 08/28/12 14:00
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			161279	08/30/12 17:30	APW	TAL CHI
Total/NA	Analysis	7196A		1	161392		APW	TAL CHI
						(Start) 08/31/12 13:04		
						(End) 08/31/12 13:05		

Client Sample ID: SB-3 (4-4 1/2)

Lab Sample ID: 720-44232-22

Date Collected: 08/28/12 14:10
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			120048	08/29/12 14:45	DH	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	120037	08/30/12 13:37	AC	TAL SF
Total/NA	Prep	3546			120057	08/30/12 11:30	MP	TAL SF
Total/NA	Analysis	8270C SIM		1	120314	09/05/12 15:52	ML	TAL SF
Silica Gel Cleanup	Prep	3546			120076	08/30/12 14:51	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120113	08/31/12 12:42	JZ	TAL SF
Total/NA	Prep	3546			120061	08/30/12 14:16	MP	TAL SF
Total/NA	Analysis	8082		1	120126	08/31/12 19:53	EC	TAL SF
Total/NA	Prep	3546			120072	08/30/12 14:19	ND	TAL SF

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-3 (4-4 1/2)

Lab Sample ID: 720-44232-22
Date Collected: 08/28/12 14:10
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8081A		1	120143	08/31/12 23:23	EC	TAL SF
Total/NA	Prep	7471A			120102	08/30/12 20:47	CDT	TAL SF
Total/NA	Analysis	7471A		1	120127	08/31/12 10:27	EFH	TAL SF
Total/NA	Prep	3050B			120088	08/30/12 16:51	EFH	TAL SF
Total/NA	Analysis	6010B		4	120172	08/31/12 19:18	SK	TAL SF

Client Sample ID: SB-3 (2-2 1/2)

Lab Sample ID: 720-44232-23
Date Collected: 08/28/12 14:20
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119997	08/29/12 14:45	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	119985	08/29/12 21:08	AC	TAL SF

Client Sample ID: SB-3 (14 1/2-15)

Lab Sample ID: 720-44232-24
Date Collected: 08/28/12 14:30
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119997	08/29/12 14:45	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	119985	08/29/12 21:37	AC	TAL SF
Silica Gel Cleanup	Prep	3546			120076	08/30/12 14:51	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120113	08/31/12 14:00	JZ	TAL SF

Client Sample ID: SB-3 (16 1/2-17')

Lab Sample ID: 720-44232-25
Date Collected: 08/28/12 14:30
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			120076	08/30/12 14:51	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120113	08/31/12 14:24	JZ	TAL SF

Client Sample ID: SB-9 (2-2 1/2')

Lab Sample ID: 720-44232-27
Date Collected: 08/28/12 14:50
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			120048	08/29/12 14:45	DH	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	120037	08/30/12 14:06	AC	TAL SF
Total/NA	Prep	3546			120057	08/30/12 11:30	MP	TAL SF
Total/NA	Analysis	8270C SIM		5	120314	09/05/12 17:25	ML	TAL SF
Silica Gel Cleanup	Prep	3546			120076	08/30/12 14:51	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		3	120178	09/02/12 00:39	JZ	TAL SF
Total/NA	Prep	3546			120104	08/30/12 21:01	ND	TAL SF

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-9 (2-2 1/2')

Lab Sample ID: 720-44232-27

Date Collected: 08/28/12 14:50
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		5	120216	09/05/12 07:13	EC	TAL SF

Client Sample ID: SB-9 (4-4 1/2')

Lab Sample ID: 720-44232-28

Date Collected: 08/28/12 15:00
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			120076	08/30/12 14:51	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120113	08/31/12 15:13	JZ	TAL SF
Total/NA	Prep	3546			120072	08/30/12 14:19	ND	TAL SF
Total/NA	Analysis	8081A		1	120143	09/01/12 01:29	EC	TAL SF
Total/NA	Prep	7471A			120102	08/30/12 20:47	CDT	TAL SF
Total/NA	Analysis	7471A		1	120127	08/31/12 10:29	EFH	TAL SF
Total/NA	Prep	3050B			120088	08/30/12 16:51	EFH	TAL SF
Total/NA	Analysis	6010B		4	120172	08/31/12 19:23	SK	TAL SF

Client Sample ID: SB-9 (8-8 1/2')

Lab Sample ID: 720-44232-29

Date Collected: 08/28/12 15:10
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			120024	08/29/12 20:15	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	120001	08/30/12 05:41	AC	TAL SF

Client Sample ID: SB-9 (11 1/2-12')

Lab Sample ID: 720-44232-30

Date Collected: 08/28/12 15:20
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119997	08/29/12 14:45	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	119985	08/29/12 22:34	AC	TAL SF
Silica Gel Cleanup	Prep	3546			120076	08/30/12 14:51	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120113	08/31/12 15:37	JZ	TAL SF

Client Sample ID: SB-9 (17-17 1/2')

Lab Sample ID: 720-44232-31

Date Collected: 08/28/12 15:25
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			120024	08/29/12 20:15	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	120001	08/30/12 06:10	AC	TAL SF
Silica Gel Cleanup	Prep	3546			120076	08/30/12 14:51	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120113	08/31/12 16:02	JZ	TAL SF

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-6 (1-1 1/2')

Lab Sample ID: 720-44232-32

Date Collected: 08/28/12 15:40
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			120117	08/31/12 09:41	MP	TAL SF
Total/NA	Analysis	8270C SIM		5	120205	09/02/12 18:14	ML	TAL SF
Silica Gel Cleanup	Prep	3546			120076	08/30/12 14:51	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120113	08/31/12 16:26	JZ	TAL SF
Total/NA	Prep	3546			120061	08/30/12 14:16	MP	TAL SF
Total/NA	Analysis	8082		1	120126	08/31/12 20:10	EC	TAL SF
Total/NA	Prep	3546			120072	08/30/12 14:19	ND	TAL SF
Total/NA	Analysis	8081A		1	120143	08/31/12 23:41	EC	TAL SF
Total/NA	Prep	7471A			120102	08/30/12 20:47	CDT	TAL SF
Total/NA	Analysis	7471A		5	120127	08/31/12 12:25	EFH	TAL SF
Total/NA	Prep	3050B			120063	08/30/12 12:25	EFH	TAL SF
Total/NA	Analysis	6010B		4	120132	08/31/12 10:53	EFH	TAL SF

Client Sample ID: SB-5 (1-1 1/2')

Lab Sample ID: 720-44232-35

Date Collected: 08/28/12 15:52
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			120076	08/30/12 14:51	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		5	120113	08/31/12 16:50	JZ	TAL SF
Total/NA	Prep	3546			120061	08/30/12 14:16	MP	TAL SF
Total/NA	Analysis	8082		1	120126	08/31/12 20:27	EC	TAL SF
Total/NA	Prep	3546			120072	08/30/12 14:19	ND	TAL SF
Total/NA	Analysis	8081A		1	120143	08/31/12 23:58	EC	TAL SF
Total/NA	Prep	7471A			120102	08/30/12 20:47	CDT	TAL SF
Total/NA	Analysis	7471A		1	120127	08/31/12 10:39	EFH	TAL SF
Total/NA	Prep	3050B			120063	08/30/12 12:25	EFH	TAL SF
Total/NA	Analysis	6010B		4	120132	08/31/12 11:06	EFH	TAL SF

Client Sample ID: SB-5 (4-4 1/2')

Lab Sample ID: 720-44232-37

Date Collected: 08/28/12 15:55
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			120076	08/30/12 14:51	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		5	120113	08/31/12 17:15	JZ	TAL SF
Total/NA	Prep	3546			120061	08/30/12 14:16	MP	TAL SF
Total/NA	Analysis	8082		10	120126	08/31/12 20:44	EC	TAL SF
Total/NA	Prep	3546			120072	08/30/12 14:19	ND	TAL SF
Total/NA	Analysis	8081A		5	120143	09/01/12 00:16	EC	TAL SF
Total/NA	Prep	7471A			120102	08/30/12 20:47	CDT	TAL SF
Total/NA	Analysis	7471A		20	120127	08/31/12 11:42	EFH	TAL SF
Total/NA	Prep	3050B			120063	08/30/12 12:25	EFH	TAL SF
Total/NA	Analysis	6010B		4	120132	08/31/12 11:11	EFH	TAL SF

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-2 (1-1 1/2')

Lab Sample ID: 720-44232-38

Date Collected: 08/28/12 15:30
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			120076	08/30/12 14:51	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120113	08/31/12 17:39	JZ	TAL SF
Total/NA	Prep	3546			120061	08/30/12 14:16	MP	TAL SF
Total/NA	Analysis	8082		1	120126	08/31/12 21:01	EC	TAL SF
Total/NA	Prep	3546			120072	08/30/12 14:19	ND	TAL SF
Total/NA	Analysis	8081A		1	120143	09/01/12 00:34	EC	TAL SF
Total/NA	Prep	7471A			120102	08/30/12 20:47	CDT	TAL SF
Total/NA	Analysis	7471A		1	120127	08/31/12 10:44	EFH	TAL SF
Total/NA	Prep	3050B			120063	08/30/12 12:25	EFH	TAL SF
Total/NA	Analysis	6010B		4	120132	08/31/12 11:15	EFH	TAL SF

Client Sample ID: SB-2 (2-2 1/2')

Lab Sample ID: 720-44232-39

Date Collected: 08/28/12 15:40
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			120117	08/31/12 09:41	MP	TAL SF
Total/NA	Analysis	8270C SIM		1	120205	09/02/12 18:37	ML	TAL SF

Client Sample ID: SB-2 (4-4 1/2')

Lab Sample ID: 720-44232-40

Date Collected: 08/28/12 15:50
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			120076	08/30/12 14:51	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120113	08/31/12 18:04	JZ	TAL SF
Total/NA	Prep	3546			120061	08/30/12 14:16	MP	TAL SF
Total/NA	Analysis	8082		1	120126	08/31/12 21:19	EC	TAL SF
Total/NA	Prep	3546			120072	08/30/12 14:19	ND	TAL SF
Total/NA	Analysis	8081A		1	120143	09/01/12 00:52	EC	TAL SF
Total/NA	Prep	7471A			120102	08/30/12 20:47	CDT	TAL SF
Total/NA	Analysis	7471A		20	120127	08/31/12 11:44	EFH	TAL SF
Total/NA	Prep	3050B			120063	08/30/12 12:25	EFH	TAL SF
Total/NA	Analysis	6010B		4	120132	08/31/12 11:19	EFH	TAL SF

Client Sample ID: SB-4 (1-1 1/2')

Lab Sample ID: 720-44232-41

Date Collected: 08/28/12 16:00
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			120117	08/31/12 09:41	MP	TAL SF
Total/NA	Analysis	8270C SIM		10	120205	09/02/12 19:01	ML	TAL SF
Silica Gel Cleanup	Prep	3546			120076	08/30/12 14:51	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		3	120113	08/31/12 18:28	JZ	TAL SF

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Client Sample ID: SB-4 (1-1 1/2')

Lab Sample ID: 720-44232-41

Date Collected: 08/28/12 16:00
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			120061	08/30/12 14:16	MP	TAL SF
Total/NA	Analysis	8082		1	120126	08/31/12 21:36	EC	TAL SF
Total/NA	Prep	3546			120072	08/30/12 14:19	ND	TAL SF
Total/NA	Analysis	8081A		1	120143	09/01/12 01:11	EC	TAL SF
Total/NA	Prep	3050B			120063	08/30/12 12:25	EFH	TAL SF
Total/NA	Analysis	6010B		4	120132	08/31/12 11:24	EFH	TAL SF
Total/NA	Prep	7471A			120157	09/04/12 08:57	JR	TAL SF
Total/NA	Analysis	7471A		1	120275	09/04/12 19:25	ASB	TAL SF

Client Sample ID: SB-4 (2-2 1/2')

Lab Sample ID: 720-44232-42

Date Collected: 08/28/12 16:10
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			161279	08/30/12 17:30	APW	TAL CHI
Total/NA	Analysis	7196A		1	161392		APW	TAL CHI
					(Start)	08/31/12 13:05		
					(End)	08/31/12 13:05		

Client Sample ID: SB-1 (2-2 1/2')

Lab Sample ID: 720-44232-44

Date Collected: 08/28/12 16:20
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			120117	08/31/12 09:41	MP	TAL SF
Total/NA	Analysis	8270C SIM		1	120182	09/01/12 19:33	RB	TAL SF

Client Sample ID: SB-1 (4-4 1/2')

Lab Sample ID: 720-44232-45

Date Collected: 08/28/12 16:25
Matrix: Solid
Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			120076	08/30/12 14:51	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120113	08/31/12 20:06	JZ	TAL SF
Total/NA	Prep	3546			120121	08/31/12 13:47	MP	TAL SF
Total/NA	Analysis	8082		1	120216	09/04/12 17:03	EC	TAL SF
Total/NA	Prep	3546			120130	08/31/12 13:47	RU	TAL SF
Total/NA	Analysis	8081A		1	120254	09/04/12 21:02	EC	TAL SF
Total/NA	Prep	3050B			120088	08/30/12 16:51	EFH	TAL SF
Total/NA	Analysis	6010B		4	120172	08/31/12 19:27	SK	TAL SF
Total/NA	Prep	7471A			120157	09/04/12 08:57	JR	TAL SF
Total/NA	Analysis	7471A		20	120275	09/04/12 20:01	ASB	TAL SF

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-12
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13

Method Summary

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL SF
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF
8081A	Organochlorine Pesticides (GC)	SW846	TAL SF
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL SF
6010B	Metals (ICP)	SW846	TAL SF
7471A	Mercury (CVAA)	SW846	TAL SF
7196A	Chromium, Hexavalent	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-44232-1	SB-7 (1/2-1 1/2)	Solid	08/28/12 08:15	08/28/12 19:00
720-44232-2	SB-7 (2-2 1/2)	Solid	08/28/12 08:20	08/28/12 19:00
720-44232-4	SB-7 (9-9 1/2)	Solid	08/28/12 08:45	08/28/12 19:00
720-44232-5	SB-7 (14-14 1/2)	Solid	08/28/12 09:00	08/28/12 19:00
720-44232-9	SB-8 (2-2 1/2)	Solid	08/28/12 10:00	08/28/12 19:00
720-44232-11	SB-8 (11-11 1/2)	Solid	08/28/12 10:20	08/28/12 19:00
720-44232-12	SB-8 (14-14 1/2)	Solid	08/28/12 10:30	08/28/12 19:00
720-44232-13	SB-8 (16-16 1/2)	Solid	08/28/12 10:40	08/28/12 19:00
720-44232-14	SB-10 (1-1 1/2)	Solid	08/28/12 11:50	08/28/12 19:00
720-44232-15	SB-10 (2-2 1/2)	Solid	08/28/12 12:00	08/28/12 19:00
720-44232-16	SB-10 (4-4 1/2)	Solid	08/28/12 12:10	08/28/12 19:00
720-44232-17	SB-10 (9 1/2-10)	Solid	08/28/12 12:10	08/28/12 19:00
720-44232-18	SB-10 (17-17 1/2)	Solid	08/28/12 12:20	08/28/12 19:00
720-44232-20	SB-3 (1-1 1/2)	Solid	08/28/12 12:40	08/28/12 19:00
720-44232-21	SB-3 (2-2 1/2)	Solid	08/28/12 14:00	08/28/12 19:00
720-44232-22	SB-3 (4-4 1/2)	Solid	08/28/12 14:10	08/28/12 19:00
720-44232-23	SB-3 (2-2 1/2)	Solid	08/28/12 14:20	08/28/12 19:00
720-44232-24	SB-3 (14 1/2-15)	Solid	08/28/12 14:30	08/28/12 19:00
720-44232-25	SB-3 (16 1/2-17')	Solid	08/28/12 14:30	08/28/12 19:00
720-44232-27	SB-9 (2-2 1/2')	Solid	08/28/12 14:50	08/28/12 19:00
720-44232-28	SB-9 (4-4 1/2')	Solid	08/28/12 15:00	08/28/12 19:00
720-44232-29	SB-9 (8-8 1/2')	Solid	08/28/12 15:10	08/28/12 19:00
720-44232-30	SB-9 (11 1/2-12')	Solid	08/28/12 15:20	08/28/12 19:00
720-44232-31	SB-9 (17-17 1/2')	Solid	08/28/12 15:25	08/28/12 19:00
720-44232-32	SB-6 (1-1 1/2')	Solid	08/28/12 15:40	08/28/12 19:00
720-44232-35	SB-5 (1-1 1/2')	Solid	08/28/12 15:52	08/28/12 19:00
720-44232-37	SB-5 (4-4 1/2')	Solid	08/28/12 15:55	08/28/12 19:00
720-44232-38	SB-2 (1-1 1/2')	Solid	08/28/12 15:30	08/28/12 19:00
720-44232-39	SB-2 (2-2 1/2')	Solid	08/28/12 15:40	08/28/12 19:00
720-44232-40	SB-2 (4-4 1/2')	Solid	08/28/12 15:50	08/28/12 19:00
720-44232-41	SB-4 (1-1 1/2')	Solid	08/28/12 16:00	08/28/12 19:00
720-44232-42	SB-4 (2-2 1/2')	Solid	08/28/12 16:10	08/28/12 19:00
720-44232-44	SB-1 (2-2 1/2')	Solid	08/28/12 16:20	08/28/12 19:00
720-44232-45	SB-1 (4-4 1/2')	Solid	08/28/12 16:25	08/28/12 19:00

CORNERSTONE EARTH GROUP

720-44232

Chain of Custody Record

140441

9/5/2012

Cornerstone Earth Group, Inc.	Project Manager: Kurt Soenen	Site Contact: Noah Hornsby	Date: 8/28/2012
	Tel/Fax:	Lab Contact:	Carrier:
1259 Oakmead Parkway	Analysis Turnaround Time		COC No: 1 of 5 COCs
Sunnyvale, California 94085			Laboratory's Job No.
(408) 245-4600 Phone	TAT if different from Below _____		
(408) 245-4620 FAX	■ 1 week		
Project Name: Rocketship - Tamien	☐ 3 days		
Site: San Jose, CA	☐ 2 days		
Project Number:	☐ 1 day		

	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	OCPs (EPA 8081A)	CAM 17 metals (EPA 6010/7471)	Hexavalent Chromium (EPA 7196A)	TPHd+o w/silica gel (EPA 8015B)	PCBs (EPA 8082)	PAHs (EPA 8270SIM)	TPHg and VOCs (EPA 8260B)		HOLD	Laboratory's Sample Specific Notes:
1	SB-7 (1/2-1 1/2)	8/28/12	8:15	Liner	Soil	1										X	
2	SB-7 (2-2 1/2)	↓	8:20	Liner	↓	1										X	
	SB-7 (2-2 1/2)		"	CNO		3										X	
3	SB-7 (5-5 1/2)		8:30	Liner		1										X	
	SB-7 (5-5 1/2)		"	CNO		3										X	
4	SB-7 (9-9 1/2)		8:45	Liner		1										X	
	SB-7 (9-9 1/2)		"	CNO		3										X	
5	SB-7 (14-14 1/2)		9:00	Liner		1										X	
6	SB-7 (19-19 1/2)		9:15	Liner		1										X	
7	SB-7 (23-23 1/2)		9:30	Liner		1										X	
8	SB-8 (1/2-1)		9:50	Liner		1										X	
	SB-8 (2-2 1/2)	↓	10:00	Liner	↓	1										X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification

☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal

☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

3.3°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	CEG	8/28/12 5:40		TASR	08/28/12 @ 1745
	TASR	08/28/12 @ 1940			8-28-12 1900

CORNERSTONE EARTH GROUP

720-44232

Chain of Custody Record

140441

	Project Manager: Kurt Soenen	Site Contact: Noah Hornsby	Date: 8/28/2012	COC No:
Cornerstone Earth Group, Inc.	Tel/Fax:	Lab Contact:	Carrier:	2 of 5 COCs
1259 Oakmead Parkway	Analysis Turnaround Time			Laboratory's Job No.
Sunnyvale, California 94085				
(408) 245-4600 Phone	TAT if different from Below _____			
(408) 245-4620 FAX	☐ 1 week			
Project Name: Rocketship - Tamien	☐ 3 days			
Site: San Jose, CA	☐ 2 days			
Project Number:	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	OCPs (EPA 8081A)	CAM 17 metals (EPA 6010/7471)	Hexavalent Chromium (EPA 7196A)	TPHd+o w/silica gel (EPA 8015B)	PCBs (EPA 8082)	PAHs (EPA 8270SIM)	TPHg and VOCs (EPA 8260B)		HOLD	Laboratory's Sample Specific Notes:
9	SB-8 (2-2½)	8/28/12	10:00	CNO	Soil	3										X	
10	SB-8 (4-4½)		10:10	Liner		1										X	
	SB-8 (4-4½)		10:10	CNO		3										X	
11	SB-8 (11-11½)		10:20	Liner		1										X	
	SB-8 (11-11½)		10:20	CNO		3										X	
12	SB-8 (14-14½)		10:30	Liner		1										X	
13	SB-8 (16-16½)		10:40	Liner		1										X	
	SB-8 (16-16½)		10:40	CNO		3										X	
14	SB-10 (1-1½)		11:50	liner		1										X	
15	SB-10 (2-2½)		12:00	liner		1										X	
	SB-10 (2-2½)		12:00	CNO		3										X	
16	SB-10 (4-4½)		12:10	liner		1										X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification

☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal

☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

3.3°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	CEG	8/28/12, 5:40		TASF	08/28/12 @ 1745
	TASF	08/28/12 @ 1900			8-28-12 1900

9/5/2012

CORNERSTONE EARTH GROUP

Chain of Custody Record

720-44232

140441

	Project Manager: Kurt Soenen	Site Contact: Noah Hornsby	Date: 8/28/2012
Cornerstone Earth Group, Inc.	Tel/Fax:	Lab Contact:	Carrier:
1259 Oakmead Parkway	Analysis Turnaround Time		
Sunnyvale, California 94085			
(408) 245-4600 Phone	TAT if different from Below _____		
(408) 245-4620 FAX	☐ 1 week		
Project Name: Rocketship - Tamien	☐ 3 days		
Site: San Jose, CA	☐ 2 days		
Project Number:	☐ 1 day		

COC No: 3 of 5 COCs

Laboratory's Job No.

	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	OCPs (EPA 8081A)	CAM 17 metals (EPA 6010/7471)	Hexavalent Chromium (EPA 7196A)	TPHd+o w/silica gel (EPA 8015B)	PCBs (EPA 8082)	PAHs (EPA 8270SIM)	TPHg and VOCs (EPA 8260B)		HOLD									Laboratory's Sample Specific Notes:
	SB-10 (4-4½)	8/28/12	12:10	CNO	soil	3										X									
	SB-10 (9½-10)		12:20	liner		1										X									
17	SB-10 (9½-10)		12:20	CNO		3										X									
18	SB-10 (17-17½)		12:30	liner		1										X									
19	SB-10 (22½-23)		12:40	liner		1										X									
20	SB-3 (1-1½)		2:00 pm	liner		1										X									
21	SB-3 (2-2½)		2:00	liner		1										X									
	SB-3 (4-4½)		2:10	liner		1										X									
22	SB-3 (4-4½)		2:10	CNO		3										X									
23	SB-3 (2-2½)		2:20	CNO		3										X									
24	SB-3 (14½-15)		2:20	liner		1										X									
	SB-3 (14½-15)	↓	2:20	CNO	↓	3										X									

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification

☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal

☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

3.3°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	CEG	8/28/12, 5:40		TASF	08/28/12 @ 1745
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TASF	08/28/12 @ 1900		TASF	8-28-12 1900
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

9/5/2012

CORNERSTONE EARTH GROUP

Chain of Custody Record

770-44232

140441

9/5/2012

	Project Manager: Kurt Soenen	Site Contact: Noah Hornsby	Date: 8/28/2012
Cornerstone Earth Group, Inc.	Tel/Fax:	Lab Contact:	Carrier:
1259 Oakmead Parkway	Analysis Turnaround Time		
Sunnyvale, California 94085			
(408) 245-4600 Phone	TAT if different from Below _____		
(408) 245-4620 FAX	■ 1 week		
Project Name: Rocketship - Tamien	☐ 3 days		
Site: San Jose, CA	☐ 2 days		
Project Number:	☐ 1 day		

COC No: 4 of 5 COCs

Laboratory's Job No.

	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	OCPs (EPA 8081A)	CAM 17 metals (EPA 6010/7471)	Hexavalent Chromium (EPA 7196A)	TPHd+o w/silica gel (EPA 8015B)	PCBs (EPA 8082)	PAHs (EPA 8270SIM)	TPHg and VOCs (EPA 8260B)		HOLD	Laboratory's Sample Specific Notes:
25	SB-3 (16½-17')	8/28/12	2:30	liner	soil	1										X	
26	SB-9 (1-1½')		2:40			1										X	
27	SB-9 (2-2½')		2:50			1										X	
	SB-9 (2-2½')		2:50	CNO		3										X	
28	SB-9 (4-4½')		3:00	liner		1										X	
	SB-9 (4-4½')		3:00	CNO		3										X	
29	SB-9 (8-8½')		3:10	liner		1										X	
30	SB-9 (11½-12')		3:20	liner		1										X	
	SB-9 (11½-12')		3:20	CNO		3										X	
31	SB-9 (17-17½')		3:25	liner		1										X	
32	SB-6 (1-1½')		3:40			1										X	
33	SB-6 (2-2½')		3:45			1										X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification

☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal

☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

3.3°

Relinquished by:	Company: CEG	Date/Time: 8/28/12, 5:40	Received by:	Company: TASK	Date/Time: 08/28/12 @ 17:45
Relinquished by:	Company: TASK	Date/Time: 08/28/12 1900	Received by:	Company:	Date/Time: 8-28-12 1900
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

CORNERSTONE EARTH GROUP

Chain of Custody Record

120-44232

140441

9/5/2012

	Project Manager: Kurt Soenen	Site Contact: Noah Hornsby	Date: 8/28/2012
Cornerstone Earth Group, Inc.	Tel/Fax:	Lab Contact:	Carrier:
1259 Oakmead Parkway	Analysis Turnaround Time		
Sunnyvale, California 94085			
(408) 245-4600 Phone	TAT if different from Below _____		
(408) 245-4620 FAX	☐ 1 week		
Project Name: Rocketship - Tamien	☐ 3 days		
Site: San Jose, CA	☐ 2 days		
Project Number:	☐ 1 day		

COC No: 5 of 5 COCs

Laboratory's Job No.

	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	OCPs (EPA 8081A)	CAM 17 metals (EPA 6010/7471)	Hexavalent Chromium (EPA 7196A)	TPHd+o w/silica gel (EPA 8015B)	PCBs (EPA 8082)	PAHs (EPA 8270SIM)	TPHg and VOCs (EPA 8260B)		HOLD									Laboratory's Sample Specific Notes:
34	SB-6 (4-4½')	8/28/12	3:50	liner	soil	1										X									
35	SB-5 (1-1½')	↓	3:52	↓	↓	1										X									
36	SB-5 (2-2½')		3:53			1										X									
27	SB-5 (4-4½')		3:55			1										X									
38	SB-2 (1-1½')		3:30			1										X									
37	SB-2 (2-2½')		3:40			1										X									
40	SB-2 (4-4½')		3:50			1										X									
41	SB-4 (1-1½')		4:00			1										X									
42	SB-4 (2-2½')		4:10			1										X									
43	SB-4 (4-4½')		4:15			1										X									
44	SB-1 (2-2½')		4:20			1										X									
45	SB-1 (4-4½')	↓	4:25	↓	↓	1										X									

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

3.3°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	CEG	8/28/12, 340		TASK	08/28/12 @ 1745
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TASK	08/28/12 @ 1945			8-28-12 1900
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Salimpour, Afsaneh

From: Kurt M. Soenen [ksoenen@cornerstoneearth.com]
Sent: Wednesday, August 29, 2012 5:57 PM
To: Salimpour, Afsaneh
Subject: Re: Sample Login Confirmation for 720-44232, Rocketship-Tamien

Please remove from hold and perform specified analyses

Sent from my iPhone

On Aug 29, 2012, at 4:13 PM, "Salimpour, Afsaneh" <afsaneh.salimpour@testamericainc.com> wrote:

>
>
> Except:
>
> SB-10 (1- 1/2) is marked for analysis and hold. Logged on hold.
>
>
> AFSANEH SALIMPOUR
>
> TestAmerica Pleasanton
> THE LEADER IN ENVIRONMENTAL TESTING
>
> Tel: 925.484,1919
> www.testamericainc.com<http://www.testamericainc.com>
>
> Reference: [111119]
> Attachments: 3
>
>
> <Std_Tal_Login_Ack for 720-44232-1.pdf> <44232.pdf>
> <Std_Tal_Login_Limits for 720-44232-1.pdf>

720-44232-rev

CORNERSTONE EARTH GROUP

Chain of Custody Record

Project Manager: Kurt Soenen	Site Contact: Noah Hornsby	Date: 8/28/2012	COC No: 1 of 5 COCs
Tel/Fax:	Lab Contact:	Carrier:	Laboratory's Job No.

Cornerstone Earth Group, Inc.
1259 Oakmead Parkway
Sunnyvale, California 94085
(408) 245-4600 Phone
(408) 245-4620 FAX
Project Name: Rocketship - Tamien
Site: San Jose, CA
Project Number:

Analysis Turnaround Time
TAT if different from Below _____
☐ 1 week
☐ 3 days
☐ 2 days
☐ 1 day

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	OCPs (EPA 8081A)	CAM 17 metals (EPA 6010/7471)	Hexavalent Chromium (EPA 7196A)	TPHd+o w/silica gel (EPA 8015B)	PCBs (EPA 8082)	PAHs (EPA 8270SIM)	TPHg and VOCs (EPA 8260B)		HOLD	Laboratory's Sample Specific Notes
SB-7 (1/2-1 1/2)	8/28/12	8:15	Liner	Soil	1		X	X		X	X	X				
SB-7 (2-2 1/2)		8:20	Liner		1				X	X						
SB-7 (2-2 1/2)		"	CNO		3								X			
SB-7 (5-5 1/2)		8:30	Liner		1										X	
SB-7 (5-5 1/2)		"	CNO		3										X	
SB-7 (9-9 1/2)		8:45	Liner		1					X						
SB-7 (9-9 1/2)		"	CNO		3								X			
SB-7 (14-14 1/2)		9:00	Liner		1								X			
SB-7 (19-19 1/2)		9:15	Liner		1										X	
SB-7 (23-23 1/2)		9:30	Liner		1										X	
SB-8 (1/2-1)		9:50	Liner		1										X	
SB-8 (2-2 1/2)	↓	10:00	Liner	↓	1		X	X		X	X	X				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	CEG	8/28/12, 5:40			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

CORNERSTONE EARTH GROUP

Chain of Custody Record

720-44232-rev

Cornerstone Earth Group, Inc.	Project Manager: Kurt Soenen	Site Contact: Noah Hornsby	Date: 8/28/2012	COC No:
1259 Oakmead Parkway	Tel/Fax:	Lab Contact:	Carrier:	2 of 5 COCs
Sunnyvale, California 94085	Analysis Turnaround Time			Laboratory's Job No.
(408) 245-4600 Phone	TAT if different from Below _____			
(408) 245-4620 FAX	☐ 1 week			
Project Name: Rocketship - Tamien	☐ 3 days			
Site: San Jose, CA	☐ 2 days			
Project Number:	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	OCPs (EPA 8081A)	CAM 17 metals (EPA 6010/7471)	Hexavalent Chromium (EPA 7196A)	TPHd w/silica gel (EPA 8015B)	PCBs (EPA 8082)	PAHs (EPA 8270SIM)	TPHg and VOCs (EPA 8260B)		HOLD	Laboratory's Sample Specific Note
SB-8 (2-2½)	8/28/12	10:00	CNO	Soil	3								X			
SB-8 (4-4½)		10:10	Liner		1										X	
SB-8 (4-4½)		10:10	CNO		3										X	
SB-8 (11-11½)		10:20	Liner		1					X						
SB-8 (11-11½)		10:20	CNO		3								X			
SB-8 (14-14½)		10:30	Liner		1					X			X			
SB-8 (16-16½)		10:40	Liner		1					X						
SB-8 (16-16½)		10:40	CNO		3								X			
SB-10 (1-1½)		11:50	liner		1		X	X		X	X	X			X	
SB-10 (2-2½)		12:00	liner		1										X	
SB-10 (2-2½)		12:00	CNO		3								X			
SB-10 (4-4½)		12:10	liner		1					X						

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification

☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal

☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	CEG	8/28/12 5:40			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

CORNERSTONE EARTH GROUP

Chain of Custody Record

720-44232-rev

Cornerstone Earth Group, Inc.	Project Manager: Kurt Soenen	Site Contact: Noah Hornby	Date: 8/28/2012	COC No:
1259 Oakmead Parkway	Tel/Fax:	Lab Contact:	Carrier:	3 of 5 COCs
Sunnyvale, California 94085	Analysis Turnaround Time			Laboratory's Job No.
(408) 245-4600 Phone	TAT if different from Below _____			
(408) 245-4620 FAX	☒ 1 week			
Project Name: Rocketship - Tamien	☐ 3 days			
Site: San Jose, CA	☐ 2 days			
Project Number:	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	OCPs (EPA 8081A)	CAM 17 metals (EPA 6010/7471)	Hexavalent Chromium (EPA 7196A)	TPHd+o w/silica gel (EPA 8015B)	PCBs (EPA 8082)	PAHs (EPA 8270SIM)	TPHg and VOCs (EPA 8260B)		HOLD											Laboratory's Sample Specific Note
SB-10 (4-4½)	8/28/12	12:10	CNO	soil	3								X													
SB-10 (9½-10)		12:20	liner		1					X																
SB-10 (9½-10)		12:20	CNO		3								X													
SB-10 (17-17½)		12:30	liner		1					X			X													
SB-10 (22½-23)		12:40	liner		1										X											
SB-3 (1-1½)		2:00 pm	liner		1		X	X		X	X															
SB-3 (2-2½)		2:00	liner		1				X																	
SB-3 (4-4½)		2:10	liner		1		X	X		X	X	X														
SB-3 (4-4½)		2:10	CNO		3								X													
SB-3 (2-2½)		2:20	CNO		3								X													
SB-3 (14½-15)		2:30	liner		1					X																
SB-3 (14½-15)		2:30	CNO		3								X													

Preservation Used: 1=Ice, 2= HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	CEG	8/28/12, 5:00			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

CORNERSTONE EARTH GROUP

Chain of Custody Record

120-44232-rev

Cornerstone Earth Group, Inc.	Project Manager: Kurt Soenen	Site Contact: Noah Hornsby	Date: 8/28/2012
1259 Oakmead Parkway	Tel/Fax:	Lab Contact:	Carrier:
Sunnyvale, California 94085	Analysis Turnaround Time		COC No: 4 of 5 COCs
(408) 245-4600 Phone	TAT if different from Below _____		Laboratory's Job No.
(408) 245-4620 FAX	☐ 1 week		
Project Name: Rocketship - Tamien	☐ 3 days		
Site: San Jose, CA	☐ 2 days		
Project Number:	☐ 1 day		

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	OCPs (EPA 8081A)	CAM 17 metals (EPA 6010/7471)	Hexavalent Chromium (EPA 7196A)	TPHd w/silica gel (EPA 8015B)	PCBs (EPA 8082)	PAHs (EPA 8270SIM)	TPHg and VOCs (EPA 8260B)		HOLD	Laboratory's Sample Specific Notes
SB-3 (16½-17')	8/28/12	2:30	liner	soil	1					X						
SB-9 (1-1½')		2:40			1										X	
SB-9 (2-2½')		2:50			1					X	X	X				
SB-9 (2-2½')		2:50	CNO		3								X			
SB-9 (4-4½')		3:00	liner		1		X	X		X						
SB-9 (4-4½')		3:00	CNO		3										X	
SB-9 (8-8½')		3:10	liner		1								X			
SB-9 (11½-12')		3:20	liner		1					X						
SB-9 (11½-12')		3:20	CNO		3								X			
SB-9 (17-17½')		3:25	liner		1					X			X			
SB-6 (1-1½')		3:40			1		X	X		X	X	X				
SB-6 (2-2½')		3:45			1										X	

Preservation Used: 1= ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	CEG	8/28/12, 5:00			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

CORNERSTONE EARTH GROUP

Chain of Custody Record

720-44232-Rev

	Project Manager: Kurt Soenen	Site Contact: Noah Hornsby	Date: 8/28/2012	COC No:
Cornerstone Earth Group, Inc.	Tel/Fax:	Lab Contact:	Carrier:	5 of 5 COCs
1259 Oakmead Parkway	Analysis Turnaround Time			Laboratory's Job No.
Sunnyvale, California 94085				
(408) 245-4600 Phone	TAT if different from Below _____			
(408) 245-4620 FAX	☐ 1 week			
Project Name: Rocketship - Tamien	☐ 3 days			
Site: San Jose, CA	☐ 2 days			
Project Number:	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	OCPs (EPA 8081A)	CAM 17 metals (EPA 6010/7471)	Hexavalent Chromium (EPA 7196A)	TPHd+o w/silica gel (EPA 8015B)	PCBs (EPA 8082)	PAHs (EPA 8270SIM)	TPHg and VOCs (EPA 8260B)		HOLD	Laboratory's Sample Specific Notes.
SB-6 (4-4½')	8/28/12	3:50	Grab	soil	1										X	
SB-5 (1-1½')		3:52			1		X	X		X	X					
SB-5 (2-2½')		3:53			1										X	
SB-5 (4-4½')		3:55			1		X	X		X	X					
SB-2 (1-1½')		3:30			1		X	X		X	X					
SB-2 (2-2½')		3:40			1							X				
SB-2 (4-4½')		3:50			1		X	X		X	X					
SB-4 (1-1½')		4:00			1		X	X		X	X	X				
SB-4 (2-2½')		4:10			1				X							
SB-4 (4-4½')		4:15			1										X	
SB-1 (2-2½')		4:20			1							X				
SB-1 (4-4½')		4:25			1		X	X		X	X					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification

☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal

☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	CEG	8/28/12, 340			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Cornerstone Earth Group

Job Number: 720-44232-1

Login Number: 44232

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Cornerstone Earth Group

Job Number: 720-44232-1

Login Number: 44232
List Number: 1
Creator: Kelsey, Shawn M

List Source: TestAmerica Chicago
List Creation: 08/30/12 11:42 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-44232-2
Client Project/Site: Rocketship-Tamien

For:
Cornerstone Earth Group
1259 Oakmead Parkway
Sunnyvale, California 94085

Attn: Kurt Soenen

Authorized for release by:
9/14/2012 4:56:21 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-44232-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-44232-2

Comments
No additional comments.

Receipt
The samples were received on 8/28/2012 7:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3º C.

Except:

SB-10 (4-4 1/2) is marked for analysis and hold. Logged on hold.

GC/MS Semi VOA
Method(s) 8270C SIM: The following sample(s) was diluted due to the abundance of non-target analytes: SB-2 (1-1 1/2') (720-44232-38), SB-5 (2-2 1/2') (720-44232-36). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8082: No MS/MSD report due to diluted out,

Method(s) 8082: The following sample(s) contained more than one Aroclor component: SB-5 (2-2 1/2') (720-44232-36). Aroclors 1254 and 1260 are present.

Method(s) 8082: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: SB-5 (2-2 1/2') (720-44232-36).

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-2

Client Sample ID: SB-9 (1-1 1/2') — Lab Sample ID: 720-44232-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	35		25		ug/Kg	5		8270C SIM	Total/NA
Anthracene	95		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	840		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	1200		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	1700		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	870		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	640		25		ug/Kg	5		8270C SIM	Total/NA
Chrysene	920		25		ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	190		25		ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	1100		25		ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	750		25		ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	320		25		ug/Kg	5		8270C SIM	Total/NA
Pyrene	960		25		ug/Kg	5		8270C SIM	Total/NA

Client Sample ID: SB-9 (4-4 1/2') — Lab Sample ID: 720-44232-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	8.2		5.0		ug/Kg	1		8270C SIM	Total/NA
Chrysene	6.2		5.0		ug/Kg	1		8270C SIM	Total/NA
Naphthalene	7.6		5.0		ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	28		5.0		ug/Kg	1		8270C SIM	Total/NA
Pyrene	5.3		5.0		ug/Kg	1		8270C SIM	Total/NA

Client Sample ID: SB-5 (2-2 1/2') — Lab Sample ID: 720-44232-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	82		49		ug/Kg	10		8270C SIM	Total/NA
PCB-1254	770		490		ug/Kg	10		8082	Total/NA
Lead	54		1.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: SB-2 (1-1 1/2') — Lab Sample ID: 720-44232-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	26		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	29		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	48		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	26		25		ug/Kg	5		8270C SIM	Total/NA
Chrysene	25		25		ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	30		25		ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	25		25		ug/Kg	5		8270C SIM	Total/NA
Pyrene	27		25		ug/Kg	5		8270C SIM	Total/NA

Client Sample ID: SB-2 (4-4 1/2') — Lab Sample ID: 720-44232-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	16		5.0		ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	6.6		5.0		ug/Kg	1		8270C SIM	Total/NA
Chrysene	12		5.0		ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	9.2		5.0		ug/Kg	1		8270C SIM	Total/NA
Naphthalene	10		5.0		ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	33		5.0		ug/Kg	1		8270C SIM	Total/NA
Pyrene	9.2		5.0		ug/Kg	1		8270C SIM	Total/NA

Detection Summary

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-2

Client Sample ID: SB-4 (2-2 1/2') — Lab Sample ID: 720-44232-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	27		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	93		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: SB-4 (4-4 1/2') — Lab Sample ID: 720-44232-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.7		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-2

Client Sample ID: SB-9 (1-1 1/2')

Lab Sample ID: 720-44232-26

Date Collected: 08/28/12 14:40

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		25		ug/Kg		09/10/12 07:36	09/13/12 01:25	5
Acenaphthylene	**35**		25		ug/Kg		09/10/12 07:36	09/13/12 01:25	5
Anthracene	**95**		25		ug/Kg		09/10/12 07:36	09/13/12 01:25	5
Benzo[a]anthracene	**840**		25		ug/Kg		09/10/12 07:36	09/13/12 01:25	5
Benzo[a]pyrene	**1200**		25		ug/Kg		09/10/12 07:36	09/13/12 01:25	5
Benzo[b]fluoranthene	**1700**		25		ug/Kg		09/10/12 07:36	09/13/12 01:25	5
Benzo[g,h,i]perylene	**870**		25		ug/Kg		09/10/12 07:36	09/13/12 01:25	5
Benzo[k]fluoranthene	**640**		25		ug/Kg		09/10/12 07:36	09/13/12 01:25	5
Chrysene	**920**		25		ug/Kg		09/10/12 07:36	09/13/12 01:25	5
Dibenz(a,h)anthracene	**190**		25		ug/Kg		09/10/12 07:36	09/13/12 01:25	5
Fluoranthene	**1100**		25		ug/Kg		09/10/12 07:36	09/13/12 01:25	5
Fluorene	ND		25		ug/Kg		09/10/12 07:36	09/13/12 01:25	5
Indeno[1,2,3-cd]pyrene	**750**		25		ug/Kg		09/10/12 07:36	09/13/12 01:25	5
Naphthalene	ND		25		ug/Kg		09/10/12 07:36	09/13/12 01:25	5
Phenanthrene	**320**		25		ug/Kg		09/10/12 07:36	09/13/12 01:25	5
Pyrene	**960**		25		ug/Kg		09/10/12 07:36	09/13/12 01:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*33 - 120*	*09/10/12 07:36*	*09/13/12 01:25*	*5*
Terphenyl-d14	*70*		*35 - 146*	*09/10/12 07:36*	*09/13/12 01:25*	*5*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-2

Client Sample ID: SB-9 (4-4 1/2')

Lab Sample ID: 720-44232-28

Date Collected: 08/28/12 15:00
Matrix: Solid
Date Received: 08/28/12 19:00

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:33	1
Acenaphthylene	ND		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:33	1
Anthracene	ND		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:33	1
Benzo[a]anthracene	ND		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:33	1
Benzo[a]pyrene	ND		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:33	1
Benzo[b]fluoranthene	**8.2**		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:33	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:33	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:33	1
Chrysene	**6.2**		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:33	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:33	1
Fluoranthene	ND		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:33	1
Fluorene	ND		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:33	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:33	1
Naphthalene	**7.6**		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:33	1
Phenanthrene	**28**		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:33	1
Pyrene	**5.3**		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*33 - 120*	*09/10/12 07:36*	*09/12/12 21:33*	*1*
Terphenyl-d14	*69*		*35 - 146*	*09/10/12 07:36*	*09/12/12 21:33*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		09/10/12 09:28	09/11/12 03:00	1
PCB-1221	ND		50		ug/Kg		09/10/12 09:28	09/11/12 03:00	1
PCB-1232	ND		50		ug/Kg		09/10/12 09:28	09/11/12 03:00	1
PCB-1242	ND		50		ug/Kg		09/10/12 09:28	09/11/12 03:00	1
PCB-1248	ND		50		ug/Kg		09/10/12 09:28	09/11/12 03:00	1
PCB-1254	ND		50		ug/Kg		09/10/12 09:28	09/11/12 03:00	1
PCB-1260	ND		50		ug/Kg		09/10/12 09:28	09/11/12 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*32 - 112*	*09/10/12 09:28*	*09/11/12 03:00*	*1*
DCB Decachlorobiphenyl	*64*		*2 - 122*	*09/10/12 09:28*	*09/11/12 03:00*	*1*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-2

Client Sample ID: SB-5 (2-2 1/2')

Lab Sample ID: 720-44232-36

Date Collected: 08/28/12 15:53
Matrix: Solid
Date Received: 08/28/12 19:00

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		49		ug/Kg		09/10/12 07:36	09/13/12 01:49	10
Acenaphthylene	ND		49		ug/Kg		09/10/12 07:36	09/13/12 01:49	10
Anthracene	ND		49		ug/Kg		09/10/12 07:36	09/13/12 01:49	10
Benzo[a]anthracene	ND		49		ug/Kg		09/10/12 07:36	09/13/12 01:49	10
Benzo[a]pyrene	ND		49		ug/Kg		09/10/12 07:36	09/13/12 01:49	10
Benzo[b]fluoranthene	ND		49		ug/Kg		09/10/12 07:36	09/13/12 01:49	10
Benzo[g,h,i]perylene	**82**		49		ug/Kg		09/10/12 07:36	09/13/12 01:49	10
Benzo[k]fluoranthene	ND		49		ug/Kg		09/10/12 07:36	09/13/12 01:49	10
Chrysene	ND		49		ug/Kg		09/10/12 07:36	09/13/12 01:49	10
Dibenz(a,h)anthracene	ND		49		ug/Kg		09/10/12 07:36	09/13/12 01:49	10
Fluoranthene	ND		49		ug/Kg		09/10/12 07:36	09/13/12 01:49	10
Fluorene	ND		49		ug/Kg		09/10/12 07:36	09/13/12 01:49	10
Indeno[1,2,3-cd]pyrene	ND		49		ug/Kg		09/10/12 07:36	09/13/12 01:49	10
Naphthalene	ND		49		ug/Kg		09/10/12 07:36	09/13/12 01:49	10
Phenanthrene	ND		49		ug/Kg		09/10/12 07:36	09/13/12 01:49	10
Pyrene	ND		49		ug/Kg		09/10/12 07:36	09/13/12 01:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*33 - 120*	*09/10/12 07:36*	*09/13/12 01:49*	*10*
Terphenyl-d14	*69*		*35 - 146*	*09/10/12 07:36*	*09/13/12 01:49*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		490		ug/Kg		09/10/12 09:28	09/11/12 18:57	10
PCB-1221	ND		490		ug/Kg		09/10/12 09:28	09/11/12 18:57	10
PCB-1232	ND		490		ug/Kg		09/10/12 09:28	09/11/12 18:57	10
PCB-1242	ND		490		ug/Kg		09/10/12 09:28	09/11/12 18:57	10
PCB-1248	ND		490		ug/Kg		09/10/12 09:28	09/11/12 18:57	10
PCB-1254	**770**		490		ug/Kg		09/10/12 09:28	09/11/12 18:57	10
PCB-1260	ND		490		ug/Kg		09/10/12 09:28	09/11/12 18:57	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X D*	*32 - 112*	*09/10/12 09:28*	*09/11/12 18:57*	*10*
DCB Decachlorobiphenyl	*0*	*X D*	*2 - 122*	*09/10/12 09:28*	*09/11/12 18:57*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**54**		1.9		mg/Kg		09/10/12 22:01	09/12/12 06:00	4

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-2

Client Sample ID: SB-2 (1-1 1/2')

Lab Sample ID: 720-44232-38

Date Collected: 08/28/12 15:30

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		25		ug/Kg		09/10/12 07:36	09/13/12 02:12	5
Acenaphthylene	ND		25		ug/Kg		09/10/12 07:36	09/13/12 02:12	5
Anthracene	ND		25		ug/Kg		09/10/12 07:36	09/13/12 02:12	5
Benzo[a]anthracene	**26**		25		ug/Kg		09/10/12 07:36	09/13/12 02:12	5
Benzo[a]pyrene	**29**		25		ug/Kg		09/10/12 07:36	09/13/12 02:12	5
Benzo[b]fluoranthene	**48**		25		ug/Kg		09/10/12 07:36	09/13/12 02:12	5
Benzo[g,h,i]perylene	**26**		25		ug/Kg		09/10/12 07:36	09/13/12 02:12	5
Benzo[k]fluoranthene	ND		25		ug/Kg		09/10/12 07:36	09/13/12 02:12	5
Chrysene	**25**		25		ug/Kg		09/10/12 07:36	09/13/12 02:12	5
Dibenz(a,h)anthracene	ND		25		ug/Kg		09/10/12 07:36	09/13/12 02:12	5
Fluoranthene	**30**		25		ug/Kg		09/10/12 07:36	09/13/12 02:12	5
Fluorene	ND		25		ug/Kg		09/10/12 07:36	09/13/12 02:12	5
Indeno[1,2,3-cd]pyrene	ND		25		ug/Kg		09/10/12 07:36	09/13/12 02:12	5
Naphthalene	ND		25		ug/Kg		09/10/12 07:36	09/13/12 02:12	5
Phenanthrene	**25**		25		ug/Kg		09/10/12 07:36	09/13/12 02:12	5
Pyrene	**27**		25		ug/Kg		09/10/12 07:36	09/13/12 02:12	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*33 - 120*	*09/10/12 07:36*	*09/13/12 02:12*	*5*
Terphenyl-d14	*65*		*35 - 146*	*09/10/12 07:36*	*09/13/12 02:12*	*5*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-2

Client Sample ID: SB-2 (4-4 1/2')

Lab Sample ID: 720-44232-40

Date Collected: 08/28/12 15:50

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:57	1
Acenaphthylene	ND		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:57	1
Anthracene	ND		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:57	1
Benzo[a]anthracene	ND		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:57	1
Benzo[a]pyrene	ND		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:57	1
Benzo[b]fluoranthene	**16**		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:57	1
Benzo[g,h,i]perylene	**6.6**		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:57	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:57	1
Chrysene	**12**		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:57	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:57	1
Fluoranthene	**9.2**		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:57	1
Fluorene	ND		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:57	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:57	1
Naphthalene	**10**		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:57	1
Phenanthrene	**33**		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:57	1
Pyrene	**9.2**		5.0		ug/Kg		09/10/12 07:36	09/12/12 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*33 - 120*	*09/10/12 07:36*	*09/12/12 21:57*	*1*
Terphenyl-d14	*66*		*35 - 146*	*09/10/12 07:36*	*09/12/12 21:57*	*1*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-2

Client Sample ID: SB-4 (2-2 1/2')

Lab Sample ID: 720-44232-42

Date Collected: 08/28/12 16:10

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	27		1.0		mg/Kg		09/10/12 21:47	09/12/12 19:00	1
Motor Oil Range Organics [C24-C36]	93		50		mg/Kg		09/10/12 21:47	09/12/12 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.2*		*0 - 1*	*09/10/12 21:47*	*09/12/12 19:00*	*1*
p-Terphenyl	*66*		*38 - 148*	*09/10/12 21:47*	*09/12/12 19:00*	*1*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-2

Client Sample ID: SB-4 (4-4 1/2')

Lab Sample ID: 720-44232-43

Date Collected: 08/28/12 16:15
Matrix: Solid
Date Received: 08/28/12 19:00

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.7**		0.99		mg/Kg		09/11/12 15:43	09/12/12 22:01	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		09/11/12 15:43	09/12/12 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.03*		*0 - 1*	*09/11/12 15:43*	*09/12/12 22:01*	*1*
p-Terphenyl	*92*		*38 - 148*	*09/11/12 15:43*	*09/12/12 22:01*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		09/10/12 09:28	09/11/12 03:17	1
PCB-1221	ND		49		ug/Kg		09/10/12 09:28	09/11/12 03:17	1
PCB-1232	ND		49		ug/Kg		09/10/12 09:28	09/11/12 03:17	1
PCB-1242	ND		49		ug/Kg		09/10/12 09:28	09/11/12 03:17	1
PCB-1248	ND		49		ug/Kg		09/10/12 09:28	09/11/12 03:17	1
PCB-1254	ND		49		ug/Kg		09/10/12 09:28	09/11/12 03:17	1
PCB-1260	ND		49		ug/Kg		09/10/12 09:28	09/11/12 03:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*32 - 112*	*09/10/12 09:28*	*09/11/12 03:17*	*1*
DCB Decachlorobiphenyl	*68*		*2 - 122*	*09/10/12 09:28*	*09/11/12 03:17*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-120560/1-A
Matrix: Solid
Analysis Batch: 120755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120560

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		09/10/12 07:35	09/12/12 19:13	1
Acenaphthylene	ND		5.0		ug/Kg		09/10/12 07:35	09/12/12 19:13	1
Anthracene	ND		5.0		ug/Kg		09/10/12 07:35	09/12/12 19:13	1
Benzo[a]anthracene	ND		5.0		ug/Kg		09/10/12 07:35	09/12/12 19:13	1
Benzo[a]pyrene	ND		5.0		ug/Kg		09/10/12 07:35	09/12/12 19:13	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		09/10/12 07:35	09/12/12 19:13	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		09/10/12 07:35	09/12/12 19:13	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		09/10/12 07:35	09/12/12 19:13	1
Chrysene	ND		5.0		ug/Kg		09/10/12 07:35	09/12/12 19:13	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		09/10/12 07:35	09/12/12 19:13	1
Fluoranthene	ND		5.0		ug/Kg		09/10/12 07:35	09/12/12 19:13	1
Fluorene	ND		5.0		ug/Kg		09/10/12 07:35	09/12/12 19:13	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		09/10/12 07:35	09/12/12 19:13	1
Naphthalene	ND		5.0		ug/Kg		09/10/12 07:35	09/12/12 19:13	1
Phenanthrene	ND		5.0		ug/Kg		09/10/12 07:35	09/12/12 19:13	1
Pyrene	ND		5.0		ug/Kg		09/10/12 07:35	09/12/12 19:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*33 - 120*	*09/10/12 07:35*	*09/12/12 19:13*	*1*
Terphenyl-d14	*77*		*35 - 146*	*09/10/12 07:35*	*09/12/12 19:13*	*1*

Lab Sample ID: LCS 720-120560/2-A
Matrix: Solid
Analysis Batch: 120755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	334	243		ug/Kg		73	49 - 120
Acenaphthylene	334	244		ug/Kg		73	52 - 120
Anthracene	334	266		ug/Kg		80	52 - 120
Benzo[a]anthracene	334	244		ug/Kg		73	52 - 120
Benzo[a]pyrene	334	260		ug/Kg		78	54 - 120
Benzo[b]fluoranthene	334	260		ug/Kg		78	51 - 120
Benzo[g,h,i]perylene	334	267		ug/Kg		80	48 - 120
Benzo[k]fluoranthene	334	263		ug/Kg		79	56 - 120
Chrysene	334	255		ug/Kg		76	40 - 120
Dibenz(a,h)anthracene	334	272		ug/Kg		82	50 - 120
Fluoranthene	334	261		ug/Kg		78	57 - 120
Fluorene	334	261		ug/Kg		78	52 - 120
Indeno[1,2,3-cd]pyrene	334	267		ug/Kg		80	48 - 120
Naphthalene	334	234		ug/Kg		70	46 - 120
Phenanthrene	334	253		ug/Kg		76	48 - 120
Pyrene	334	231		ug/Kg		69	53 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*74*		*33 - 120*
Terphenyl-d14	*78*		*35 - 146*

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCSD 720-120560/3-A
Matrix: Solid
Analysis Batch: 120755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 120560

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	332	243		ug/Kg		73	49 - 120	0	20
Acenaphthylene	332	243		ug/Kg		73	52 - 120	1	20
Anthracene	332	265		ug/Kg		80	52 - 120	1	20
Benzo[a]anthracene	332	245		ug/Kg		74	52 - 120	0	20
Benzo[a]pyrene	332	263		ug/Kg		79	54 - 120	1	20
Benzo[b]fluoranthene	332	261		ug/Kg		79	51 - 120	0	20
Benzo[g,h,i]perylene	332	268		ug/Kg		81	48 - 120	0	20
Benzo[k]fluoranthene	332	266		ug/Kg		80	56 - 120	1	20
Chrysene	332	256		ug/Kg		77	40 - 120	1	20
Dibenz(a,h)anthracene	332	273		ug/Kg		82	50 - 120	0	20
Fluoranthene	332	260		ug/Kg		78	57 - 120	0	20
Fluorene	332	257		ug/Kg		77	52 - 120	1	20
Indeno[1,2,3-cd]pyrene	332	267		ug/Kg		80	48 - 120	0	20
Naphthalene	332	231		ug/Kg		70	46 - 120	1	20
Phenanthrene	332	251		ug/Kg		76	48 - 120	1	20
Pyrene	332	234		ug/Kg		71	53 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*73*		*33 - 120*
Terphenyl-d14	*80*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-120633/1-A
Matrix: Solid
Analysis Batch: 120638

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 120633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		09/10/12 21:47	09/11/12 15:21	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		09/10/12 21:47	09/11/12 15:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.005*		*0 - 1*	*09/10/12 21:47*	*09/11/12 15:21*	*1*
p-Terphenyl	*84*		*38 - 148*	*09/10/12 21:47*	*09/11/12 15:21*	*1*

Lab Sample ID: LCS 720-120633/2-A
Matrix: Solid
Analysis Batch: 120638

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 120633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	82.5	70.8		mg/Kg		86	36 - 112

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*82*		*38 - 148*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-120633/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Silica Gel Cleanup**
Analysis Batch: 120638 — **Prep Batch: 120633**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.7	66.7		mg/Kg		81	36 - 112	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*73*		*38 - 148*

Lab Sample ID: MB 720-120695/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Silica Gel Cleanup**
Analysis Batch: 120734 — **Prep Batch: 120695**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		09/11/12 15:43	09/12/12 21:36	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		09/11/12 15:43	09/12/12 21:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.001*		*0 - 1*	*09/11/12 15:43*	*09/12/12 21:36*	*1*
p-Terphenyl	*92*		*38 - 148*	*09/11/12 15:43*	*09/12/12 21:36*	*1*

Lab Sample ID: LCS 720-120695/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Silica Gel Cleanup**
Analysis Batch: 120734 — **Prep Batch: 120695**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.9	61.3		mg/Kg		74	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*76*		*38 - 148*

Lab Sample ID: LCSD 720-120695/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Silica Gel Cleanup**
Analysis Batch: 120734 — **Prep Batch: 120695**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.1	62.2		mg/Kg		76	36 - 112	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*66*		*38 - 148*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 720-120570/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120569 — **Prep Batch: 120570**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		09/10/12 09:28	09/11/12 01:17	1
PCB-1221	ND		49		ug/Kg		09/10/12 09:28	09/11/12 01:17	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 720-120570/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120569 — **Prep Batch: 120570**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		49		ug/Kg		09/10/12 09:28	09/11/12 01:17	1
PCB-1242	ND		49		ug/Kg		09/10/12 09:28	09/11/12 01:17	1
PCB-1248	ND		49		ug/Kg		09/10/12 09:28	09/11/12 01:17	1
PCB-1254	ND		49		ug/Kg		09/10/12 09:28	09/11/12 01:17	1
PCB-1260	ND		49		ug/Kg		09/10/12 09:28	09/11/12 01:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*32 - 112*	*09/10/12 09:28*	*09/11/12 01:17*	*1*
DCB Decachlorobiphenyl	*73*		*2 - 122*	*09/10/12 09:28*	*09/11/12 01:17*	*1*

Lab Sample ID: LCS 720-120570/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120569 — **Prep Batch: 120570**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	130	107		ug/Kg		83	65 - 120
PCB-1260	130	120		ug/Kg		92	65 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*78*		*32 - 112*
DCB Decachlorobiphenyl	*80*		*2 - 122*

Lab Sample ID: LCSD 720-120570/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120569 — **Prep Batch: 120570**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	131	114		ug/Kg		87	65 - 120	6	20
PCB-1260	131	122		ug/Kg		93	65 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*32 - 112*
DCB Decachlorobiphenyl	*81*		*2 - 122*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-120635/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120753 — **Prep Batch: 120635**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50		mg/Kg		09/10/12 22:01	09/12/12 03:51	1

Lab Sample ID: LCS 720-120635/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120753 — **Prep Batch: 120635**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	52.8		mg/Kg		106	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 720-120635/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120753 — **Prep Batch: 120635**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			50.0	50.3		mg/Kg		101	80 - 120	5	20

Lab Sample ID: LCSSRM 720-120635/25-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120753 — **Prep Batch: 120635**

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			280	276		mg/Kg		99	62 - 113		

QC Association Summary

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-2

GC/MS Semi VOA

Prep Batch: 120560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-26	SB-9 (1-1 1/2')	Total/NA	Solid	3546	
720-44232-28	SB-9 (4-4 1/2')	Total/NA	Solid	3546	
720-44232-36	SB-5 (2-2 1/2')	Total/NA	Solid	3546	
720-44232-38	SB-2 (1-1 1/2')	Total/NA	Solid	3546	
720-44232-40	SB-2 (4-4 1/2')	Total/NA	Solid	3546	
LCS 720-120560/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-120560/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-120560/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 120755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-26	SB-9 (1-1 1/2')	Total/NA	Solid	8270C SIM	120560
720-44232-28	SB-9 (4-4 1/2')	Total/NA	Solid	8270C SIM	120560
720-44232-36	SB-5 (2-2 1/2')	Total/NA	Solid	8270C SIM	120560
720-44232-38	SB-2 (1-1 1/2')	Total/NA	Solid	8270C SIM	120560
720-44232-40	SB-2 (4-4 1/2')	Total/NA	Solid	8270C SIM	120560
LCS 720-120560/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	120560
LCSD 720-120560/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	120560
MB 720-120560/1-A	Method Blank	Total/NA	Solid	8270C SIM	120560

GC Semi VOA

Analysis Batch: 120569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-28	SB-9 (4-4 1/2')	Total/NA	Solid	8082	120570
720-44232-43	SB-4 (4-4 1/2')	Total/NA	Solid	8082	120570
LCS 720-120570/2-A	Lab Control Sample	Total/NA	Solid	8082	120570
LCSD 720-120570/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	120570
MB 720-120570/1-A	Method Blank	Total/NA	Solid	8082	120570

Prep Batch: 120570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-28	SB-9 (4-4 1/2')	Total/NA	Solid	3546	
720-44232-36	SB-5 (2-2 1/2')	Total/NA	Solid	3546	
720-44232-43	SB-4 (4-4 1/2')	Total/NA	Solid	3546	
LCS 720-120570/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-120570/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-120570/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 120633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-42	SB-4 (2-2 1/2')	Silica Gel Cleanup	Solid	3546	
LCS 720-120633/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-120633/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-120633/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 120638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-120633/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	120633
LCSD 720-120633/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	120633
MB 720-120633/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	120633

GC Semi VOA (Continued)

Analysis Batch: 120668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-36	SB-5 (2-2 1/2')	Total/NA	Solid	8082	120570

Prep Batch: 120695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-43	SB-4 (4-4 1/2')	Silica Gel Cleanup	Solid	3546	
LCS 720-120695/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-120695/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-120695/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 120733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-42	SB-4 (2-2 1/2')	Silica Gel Cleanup	Solid	8015B	120633

Analysis Batch: 120734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-43	SB-4 (4-4 1/2')	Silica Gel Cleanup	Solid	8015B	120695
LCS 720-120695/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	120695
LCSD 720-120695/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	120695
MB 720-120695/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	120695

Metals

Prep Batch: 120635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-36	SB-5 (2-2 1/2')	Total/NA	Solid	3050B	
LCS 720-120635/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-120635/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-120635/25-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-120635/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 120753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-36	SB-5 (2-2 1/2')	Total/NA	Solid	6010B	120635
LCS 720-120635/2-A	Lab Control Sample	Total/NA	Solid	6010B	120635
LCSD 720-120635/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	120635
LCSSRM 720-120635/25-A	Lab Control Sample	Total/NA	Solid	6010B	120635
MB 720-120635/1-A	Method Blank	Total/NA	Solid	6010B	120635

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-2

Client Sample ID: SB-9 (1-1 1/2')

Lab Sample ID: 720-44232-26

Date Collected: 08/28/12 14:40

Matrix: Solid

Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			120560	09/10/12 07:36	NP	TAL SF
Total/NA	Analysis	8270C SIM		5	120755	09/13/12 01:25	ML	TAL SF

Client Sample ID: SB-9 (4-4 1/2')

Lab Sample ID: 720-44232-28

Date Collected: 08/28/12 15:00

Matrix: Solid

Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			120560	09/10/12 07:36	NP	TAL SF
Total/NA	Analysis	8270C SIM		1	120755	09/12/12 21:33	ML	TAL SF
Total/NA	Prep	3546			120570	09/10/12 09:28	MP	TAL SF
Total/NA	Analysis	8082		1	120569	09/11/12 03:00	JZ	TAL SF

Client Sample ID: SB-5 (2-2 1/2')

Lab Sample ID: 720-44232-36

Date Collected: 08/28/12 15:53

Matrix: Solid

Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			120560	09/10/12 07:36	NP	TAL SF
Total/NA	Analysis	8270C SIM		10	120755	09/13/12 01:49	ML	TAL SF
Total/NA	Prep	3546			120570	09/10/12 09:28	MP	TAL SF
Total/NA	Analysis	8082		10	120668	09/11/12 18:57	JZ	TAL SF
Total/NA	Prep	3050B			120635	09/10/12 22:01	ET	TAL SF
Total/NA	Analysis	6010B		4	120753	09/12/12 06:00	SK	TAL SF

Client Sample ID: SB-2 (1-1 1/2')

Lab Sample ID: 720-44232-38

Date Collected: 08/28/12 15:30

Matrix: Solid

Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			120560	09/10/12 07:36	NP	TAL SF
Total/NA	Analysis	8270C SIM		5	120755	09/13/12 02:12	ML	TAL SF

Client Sample ID: SB-2 (4-4 1/2')

Lab Sample ID: 720-44232-40

Date Collected: 08/28/12 15:50

Matrix: Solid

Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			120560	09/10/12 07:36	NP	TAL SF
Total/NA	Analysis	8270C SIM		1	120755	09/12/12 21:57	ML	TAL SF

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-2

Client Sample ID: SB-4 (2-2 1/2')

Lab Sample ID: 720-44232-42

Date Collected: 08/28/12 16:10

Matrix: Solid

Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			120633	09/10/12 21:47	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120733	09/12/12 19:00	DH	TAL SF

Client Sample ID: SB-4 (4-4 1/2')

Lab Sample ID: 720-44232-43

Date Collected: 08/28/12 16:15

Matrix: Solid

Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			120570	09/10/12 09:28	MP	TAL SF
Total/NA	Analysis	8082		1	120569	09/11/12 03:17	JZ	TAL SF
Silica Gel Cleanup	Prep	3546			120695	09/11/12 15:43	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120734	09/12/12 22:01	DH	TAL SF

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-2

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-2

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL SF
6010B	Metals (ICP)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-44232-26	SB-9 (1-1 1/2')	Solid	08/28/12 14:40	08/28/12 19:00
720-44232-28	SB-9 (4-4 1/2')	Solid	08/28/12 15:00	08/28/12 19:00
720-44232-36	SB-5 (2-2 1/2')	Solid	08/28/12 15:53	08/28/12 19:00
720-44232-38	SB-2 (1-1 1/2')	Solid	08/28/12 15:30	08/28/12 19:00
720-44232-40	SB-2 (4-4 1/2')	Solid	08/28/12 15:50	08/28/12 19:00
720-44232-42	SB-4 (2-2 1/2')	Solid	08/28/12 16:10	08/28/12 19:00
720-44232-43	SB-4 (4-4 1/2')	Solid	08/28/12 16:15	08/28/12 19:00

Mullen, Joan 720-44232-2

From: Salimpour, Afsaneh
Sent: Thursday, September 06, 2012 3:50 PM
To: Mullen, Joan
Subject: FW: Files from 720-44232-1 Rocketship-Tamien
Attachments: Requested Additional Analyses.pdf

From: Kurt M. Soenen [mailto:ksoenen@cornerstoneearth.com]
Sent: Thursday, September 06, 2012 3:37 PM
To: Salimpour, Afsaneh
Subject: RE: Files from 720-44232-1 Rocketship-Tamien

Hi Afsaneh –

Please perform the requested additional analyses noted in the attachment. Standard 5-day TAT.

Sincerely,

Kurt M. Soenen, P.E.
Principal Engineer

Description:
cid:image001.jpg@01C7565D.20324

1259 Oakmead Parkway
Sunnyvale, California 94085
p 408-245-4600 x110
f 408-245-4620
c 408-605-3037
www.cornerstoneearth.com

From: Salimpour, Afsaneh [mailto:afsaneh.salimpour@testamericainc.com]
Sent: Wednesday, September 05, 2012 6:11 PM
To: Kurt M. Soenen
Subject: Files from 720-44232-1 Rocketship-Tamien

AFSANEH SALIMPOUR

TestAmerica Pleasanton
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 925.484.1919
www.testamericainc.com

Reference: [111499]
Attachments: 2

CORNERSTONE EARTH GROUP

Chain of Custody Record

Cornerstone Earth Group, Inc.	Project Manager: Kurt Soenen	Site Contact: Noah Hornsby	Date: 8/28/2012
1259 Oakmead Parkway	Tel/Fax:	Lab Contact:	Carrier:
Sunnyvale, California 94085	Analysis Turnaround Time		COC No: 4 of 5 COCs
(408) 245-4600 Phone	TAT if different from Below _____		Laboratory's Job No.
(408) 245-4620 FAX	☒ 1 week		
Project Name: Rocketship - Tamien	☐ 3 days		
Site: San Jose, CA	☐ 2 days		
Project Number:	☐ 1 day		

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	OCPs (EPA 8081A)	CAM 17 metals (EPA 6010/7471)	Hexavalent Chromium (EPA 7196A)	TPHdro w/silica gel (EPA 8015B)	PCBs (EPA 8082)	PAHs (EPA 8270SIM)	TPHg and VOCs (EPA 8260B)		HOLD	Laboratory's Sample Specific Notes
SB-3 (16½-17')	8/28/12	2:30	liner	soil	1					X						
SB-9 (1-1½')		2:40			1							X			X	
SB-9 (2-2½')		2:50			1					X	X	X				
SB-9 (2-2½')		2:50	CNO		3								X			
SB-9 (4-4½')		3:00	liner		1		X	X		X	XX					
SB-9 (4-4½')		3:00	CNO		3										X	
SB-9 (8-8½')		3:10	liner		1								X			
SB-9 (11½-12')		3:20	liner		1					X						
SB-9 (11½-12')		3:20	CNO		3								X			
SB-9 (17-17½')		3:25	liner		1					X			X			
SB-6 (1-1½')		3:40			1		X	X		X	X	X				
SB-6 (2-2½')		3:45			1										X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	CEG	8/28/12 5:00			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

2-33244-027

720-47232-2

CORNERSTONE EARTH GROUP

Chain of Custody Record

Cornerstone Earth Group, Inc.	Project Manager: Kurt Soenen	Site Contact: Noah Hornsby	Date: 8/28/2012	COC No:
1259 Oakmead Parkway	Tel/Fax:	Lab Contact:	Carrier:	5 of 5 COCs
Sunnyvale, California 94085	Analysis Turnaround Time			Laboratory's Job No.
(408) 245-4600 Phone	TAT if different from Below _____			
(408) 245-4620 FAX	☒ 1 week			
Project Name: Rocketship - Tamien	☐ 3 days			
Site: San Jose, CA	☐ 2 days			
Project Number:	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	OCPs (EPA 8081A)	CAM 17 metals (EPA 6010/7471)	Hexavalent Chromium (EPA 7196A)	TPHd+o w/silica gel (EPA 8015B)	PCBs (EPA 8082)	PAHs (EPA 8270SIM)	TPHg and VOCs (EPA 8260B)		HOLD	LEAD	Laboratory's Sample Specific Notes.
SB-6 (4-4½')	8/28/12	3:50	Other	soil	1										X		
SB-5 (1-1½')		3:52			1		X	X		X	X						
SB-5 (2-2½')		3:53			1					X	X	X				X	
SB-5 (4-4½')		3:55			1		X	X		X	X						
SB-2 (1-1½')		3:30			1		X	X		X	X	X					
SB-2 (2-2½')		3:40			1							X					
SB-2 (4-4½')		3:50			1		X	X		X	X	X					
SB-4 (1-1½')		4:00			1		X	X		X	X	X					
SB-4 (2-2½')		4:10			1				X	X							
SB-4 (4-4½')		4:15			1					X	X						
SB-1 (2-2½')		4:20			1							X					
SB-1 (4-4½')		4:25			1		X	X		X	X						

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	CEG	8/28/12, 3:40			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Cornerstone Earth Group

Job Number: 720-44232-2

Login Number: 44232
List Number: 1
Creator: Mullen, Joan

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-44232-3
Client Project/Site: Rocketship-Tamien

For:
Cornerstone Earth Group
1259 Oakmead Parkway
Sunnyvale, California 94085

Attn: Kurt Soenen

Authorized for release by:
9/14/2012 4:58:17 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-3

Job ID: 720-44232-3

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-44232-3

Comments
No additional comments.

Receipt
The samples were received on 8/28/2012 7:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 3.3º C.

Except:

SB-10 (4-4 1/2) is marked for analysis and hold. Logged on hold.

GC Semi VOA
Method(s) 8015B: The following sample(s) was prepared outside the method defined holding time because the request for the test was made after the holding time for the sample : SB-1 (2-2 1/2') (720-44232-44).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-3

Client Sample ID: SB-1 (2-2 1/2') **Lab Sample ID: 720-44232-44**

No Detections

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-3

Client Sample ID: SB-1 (2-2 1/2')

Lab Sample ID: 720-44232-44

Date Collected: 08/28/12 16:20

Matrix: Solid

Date Received: 08/28/12 19:00

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	H	1.0		mg/Kg		09/12/12 21:57	09/13/12 11:16	1
Motor Oil Range Organics [C24-C36]	ND	H	50		mg/Kg		09/12/12 21:57	09/13/12 11:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.0003*		*0 - 1*	*09/12/12 21:57*	*09/13/12 11:16*	*1*
p-Terphenyl	*69*		*38 - 148*	*09/12/12 21:57*	*09/13/12 11:16*	*1*

QC Sample Results

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-3

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-120812/1-A
Matrix: Solid
Analysis Batch: 120820

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 120812

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.98		mg/Kg		09/12/12 21:57	09/13/12 14:08	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		09/12/12 21:57	09/13/12 14:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.003*		*0 - 1*	*09/12/12 21:57*	*09/13/12 14:08*	*1*
p-Terphenyl	*57*		*38 - 148*	*09/12/12 21:57*	*09/13/12 14:08*	*1*

Lab Sample ID: LCS 720-120812/2-A
Matrix: Solid
Analysis Batch: 120820

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 120812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.0	47.0		mg/Kg		57	36 - 112

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*86*		*38 - 148*

Lab Sample ID: LCSD 720-120812/3-A
Matrix: Solid
Analysis Batch: 120820

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 120812

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	83.3	45.5		mg/Kg		55	36 - 112	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*78*		*38 - 148*

QC Association Summary

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-3

GC Semi VOA

Prep Batch: 120812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-44	SB-1 (2-2 1/2')	Silica Gel Cleanup	Solid	3546	
LCS 720-120812/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-120812/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-120812/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 120820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-44232-44	SB-1 (2-2 1/2')	Silica Gel Cleanup	Solid	8015B	120812
LCS 720-120812/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	120812
LCSD 720-120812/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	120812
MB 720-120812/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	120812

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-3

Client Sample ID: SB-1 (2-2 1/2')

Lab Sample ID: 720-44232-44

Date Collected: 08/28/12 16:20

Matrix: Solid

Date Received: 08/28/12 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			120812	09/12/12 21:57	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	120820	09/13/12 11:16	JZ	TAL SF

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-3

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-3

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Cornerstone Earth Group
Project/Site: Rocketship-Tamien

TestAmerica Job ID: 720-44232-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-44232-44	SB-1 (2-2 1/2')	Solid	08/28/12 16:20	08/28/12 19:00

720-44232-3

Salimpour, Afsaneh

From: Noah D. Hornsby [nhornsby@cornerstoneearth.com]
Sent: Wednesday, September 12, 2012 10:05 AM
To: Salimpour, Afsaneh
Subject: RE: Files from 720-44232-1 Rocketship-Tamien

Hi Afsaneh,

Can you test sample ID SB-1 (2 to 2½) for TPH-diesel and TPH-oil w/silica gel and provide results on either a 24 hour or 48 hour TAT?

Thank you,

Noah Hornsby
Staff Engineer

CORNERSTONE EARTH GROUP

1259 Oakmead Parkway, Sunnyvale, CA 94085
Office: 408 245 4600 Ext. 119| Fax: 408 245 4620
Cell: 408 747 7674

Hi Afsaneh –

Please perform the requested additional analyses noted in the attachment. Standard 5-day TAT.

Sincerely,

Kurt M. Soenen, P.E.
Principal Engineer

CORNERSTONE EARTH GROUP

1259 Oakmead Parkway
Sunnyvale, California 94085
p 408-245-4600 x110
f 408-245-4620
c 408-605-3037
www.cornerstoneearth.com

From: Salimpour, Afsaneh [mailto:afsaneh.salimpour@testamericainc.com]
Sent: Wednesday, September 05, 2012 6:11 PM
To: Kurt M. Soenen
Subject: Files from 720-44232-1 Rocketship-Tamien

Login Sample Receipt Checklist

Client: Cornerstone Earth Group

Job Number: 720-44232-3

Login Number: 44232
List Number: 1
Creator: Mullen, Joan

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ASBESTOS TEM LABORATORIES, INC.

EPA Quantitative Bulk Test Method
Transmission Electron Microscopy
Analytical Report

Laboratory Report # 312807

630 Bancroft Way
Berkeley, CA 94710
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FAX (510) 704-8429
www.asbestostemlabs.com

ASBESTOS TEM LABORATORIES, INC

Sep/14/2012

Kurt Soenen

Cornerstone Earth Group, Inc.
1259 Oakmead Parkway
Sunnyvale, CA 94085

RE: LABORATORY REPORT # 312807
Transmission electron microscopy analytical results for 7 bulk material sample(s).
Job Site: Rocketship Tamien
Job No.: 465-4-3

Please find below the results for the TEM analysis of one or more bulk material samples. The analytical procedures were performed according to the EPA Test Method For the Determination of Asbestos in Bulk Building Materials - TEM method (EPA 600/R-93/116) modified for quantitative bulk soil sample analysis. Prior to analysis, each sample was logged-in and all pertinent data was recorded. Each sample was checked for damage and disruption of any chain-of-custody seals. A unique laboratory number was assigned to each sample. A hard copy Log-In sheet was generated. This, and all other relevant paper work was kept with the sample throughout the analytical procedures to assure proper analysis.

Sample preparation followed a standard CARB 435 prep method. The entire sample was dried at 135-150 C and then crushed to ~3/8" gravel size. If the submitted sample was >1 pint, the sample was split using a 1/2" riffle splitter following ASTM Method C-702-98 to obtain a 1 pint aliquot. The entire 1 pint aliquot, or entire original sample, was then pulverized in a Bico Braun disc pulverizer calibrated to produce a nominal 200 mesh final product. A representative ~100 mg aliquot of material was weighed out, and then placed into solution in a 500 ml beaker filled with distilled water. A known volume of the liquid suspension was filtered onto a 0.2 micron pore size Millipore mixed cellulose ester filter. The filter was then dried in HEPA filtered, Class 100 air on a clean bench. The filter was placed onto a glass microscope slide, sectioned, and collapsed in acetone. The collapsed filter was plasma-etched to remove 10% of the filter surface and then carbon coated. The carbon coated filter was sectioned and the sections placed onto 200-mesh copper TEM sample grids in dimethyl sulfoxide and acetone wick washers. After sufficient time to dissolve the filter material, the TEM sample grids were removed from the baths and placed into labeled sample containers.

TEM analysis was performed on a Philips CM-12 or JEOL 1200 transmission electron microscope operating at 80 or 100 kV. The sample was placed into the microscope where it was first scanned at low magnification to confirm that the distribution of material was reasonably homogeneous. High magnification analysis was performed using a two tier approach: 1) A relatively large area of several TEM grid openings for large asbestos fibers or fiber bundles, and 2) a relatively small area of a number of fields of view for individual asbestos fibers (fibrous particles exhibiting an aspect ratio greater than or equal to 3 to 1, and a length greater than or equal to .5 um). Detected asbestiform structures were subjected to detailed morphological and/or selected area diffraction analysis. If necessary, energy dispersive X-ray analysis was also performed. The length and width of each asbestos fiber was measured. From this data, a total volume and mass of asbestos observed in the scanned area is calculated, and extrapolated to a total weight percent asbestos for each sample.

Laboratory Manager

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

630 BANCROFT WAY ▪ BERKELEY, CA 94710 ▪ (510) 704-8930 ▪ FAX (510) 704-8429
www.asbestostemlabs.com *With Offices in Reno, NV (775) 359-3377*

TRANSMISSION ELECTRON MICROSCOPY ANALYTICAL REPORT

Contact:	Kurt Soenen	**REPORT NO.**	**312807**
Address:	Cornerstone Earth Group, Inc. 1259 Oakmead Parkway Sunnyvale, CA 94085	Date:	Sep-14-12
		Date Received:	Sep-07-12
Job Site / No.	Rocketship Tamien 465-4-3	Total Samples Analyzed:	7

Client Sample # **SB-10 (6.5-7)**

Laboratory Sample # 1206-00035-001

SAMPLE DESCRIPTION

SAMPLE PREPARATION PARAMETERS

Weight of Material Suspended (mg):	60.8	Filter Type & Pore Size	MCE0.22um
Volume of Suspension Water (ml):	500	Effective Filter Area (sq.mm)	201
Volume of Suspension Filtered (ml):	0.5		

ASBESTOS DETECTED IN SCAN AREA

CHRYSOTILE		AMPHIBOLE	
FIBERS	BUNDLES	FIBERS	BUNDLES
39	4	NSD	NSD

CALCULATED ASBESTOS CONCENTRATION (WEIGHT %)

CHRYSOTILE	AMPHIBOLE	TOTAL
0.031	<0.001	0.031

COMMENTS

Chrysotile Asbestos Detected

Filter Loading: Moderate

SAED Photo ID Nos.

TEM / ANALYTICAL PARAMETERS

Grid Op. # Scanned For Large Fibers & Bundles	20	Grid Area (sq.mm)	0.0092	Bundle Scan Area (sq.mm)	0.184
Grid Op. # Scanned For Small Fibers & Bundles	1	Grid Area (sq.mm)	0.0092	Fiber Scan Area (sq.mm)	0.0092
		Magnification:	15,000X		

NOTATION KEY

Chrys. - Chrysotile Asbestos
Amph. - Amphibole Asbestos
NSD - No Structures Detected
Non-Asb. - Non-Asbestos

1 um = 1 micron = 0.001 mm
1 mm = 1 millimeter
1 sq.mm = 1 square millimeter
1 cc = 1 cubic centimeter

Analyst Signature

Lab QC Reviewer Signature

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www.asbestostemlabs.com
With Offices in Reno, NV (775) 359-3377

TRANSMISSION ELECTRON MICROSCOPY ANALYTICAL REPORT

Contact:	Kurt Soenen	**REPORT NO.**	**312807**
Address:	Cornerstone Earth Group, Inc. 1259 Oakmead Parkway Sunnyvale, CA 94085	Date:	Sep-14-12
		Date Received:	Sep-07-12
Job Site / No.	Rocketship Tamien 465-4-3	Total Samples Analyzed:	7

Client Sample # **SB-8 (9.5-10)**

Laboratory Sample # 1206-00035-002

SAMPLE DESCRIPTION

SAMPLE PREPARATION PARAMETERS

Weight of Material Suspended (mg):	60.7	Filter Type & Pore Size	MCE0.22um
Volume of Suspension Water (ml):	500	Effective Filter Area (sq.mm)	201
Volume of Suspension Filtered (ml):	0.5		

ASBESTOS DETECTED IN SCAN AREA

CHRYSOTILE		AMPHIBOLE	
FIBERS	BUNDLES	FIBERS	BUNDLES
62	14	2	NSD

CALCULATED ASBESTOS CONCENTRATION (WEIGHT %)

CHRYSOTILE	AMPHIBOLE	TOTAL
0.070	0.017	0.087

COMMENTS

Chrysotile and Crocidolite Asbestos Detected

Filter Loading: Heavy

SAED Photo ID Nos.

TEM / ANALYTICAL PARAMETERS

Grid Op. # Scanned For Large Fibers & Bundles	20	Grid Area (sq.mm)	0.0092	Bundle Scan Area (sq.mm)	0.184
Grid Op. # Scanned For Small Fibers & Bundles	1	Grid Area (sq.mm)	0.0092	Fiber Scan Area (sq.mm)	0.0092
		Magnification:	15,000X		

NOTATION KEY

Chrys. - Chrysotile Asbestos
Amph. - Amphibole Asbestos
NSD - No Structures Detected
Non-Asb. - Non-Asbestos

1 um = 1 micron = 0.001 mm
1 mm = 1 millimeter
1 sq.mm = 1 square millimeter
1 cc = 1 cubic centimeter

Analyst Signature

Lab QC Reviewer Signature

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TRANSMISSION ELECTRON MICROSCOPY ANALYTICAL REPORT

Contact:	Kurt Soenen	**REPORT NO.**	**312807**
Address:	Cornerstone Earth Group, Inc. 1259 Oakmead Parkway Sunnyvale, CA 94085	Date:	Sep-14-12
		Date Received:	Sep-07-12
Job Site / No.	Rocketship Tamien 465-4-3	Total Samples Analyzed:	7

Client Sample # **SB-9 (11-11.5)**

Laboratory Sample # 1206-00035-003

SAMPLE DESCRIPTION

SAMPLE PREPARATION PARAMETERS

Weight of Material Suspended (mg):	59.7	Filter Type & Pore Size	MCE0.22um
Volume of Suspension Water (ml):	500	Effective Filter Area (sq.mm)	201
Volume of Suspension Filtered (ml):	0.5		

ASBESTOS DETECTED IN SCAN AREA

CHRYSOTILE		AMPHIBOLE	
FIBERS	BUNDLES	FIBERS	BUNDLES
23	5	1	NSD

CALCULATED ASBESTOS CONCENTRATION (WEIGHT %)

CHRYSOTILE	AMPHIBOLE	TOTAL
0.027	0.015	0.042

COMMENTS

Chrysotile and Crocidolite Asbestos Detected

Filter Loading: Heavy

SAED Photo ID Nos.

TEM / ANALYTICAL PARAMETERS

Grid Op. # Scanned For Large Fibers & Bundles	20	Grid Area (sq.mm)	0.0092	Bundle Scan Area (sq.mm)	0.184
Grid Op. # Scanned For Small Fibers & Bundles	1	Grid Area (sq.mm)	0.0092	Fiber Scan Area (sq.mm)	0.0092
		Magnification:	15,000X		

NOTATION KEY

Chrys. - Chrysotile Asbestos
Amph. - Amphibole Asbestos
NSD - No Structures Detected
Non-Asb. - Non-Asbestos

1 um = 1 micron = 0.001 mm
1 mm = 1 millimeter
1 sq.mm = 1 square millimeter
1 cc = 1 cubic centimeter

Analyst Signature

Lab QC Reviewer Signature

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TRANSMISSION ELECTRON MICROSCOPY ANALYTICAL REPORT

Contact:	Kurt Soenen	**REPORT NO.**	**312807**
Address:	Cornerstone Earth Group, Inc. 1259 Oakmead Parkway Sunnyvale, CA 94085	Date:	Sep-14-12
		Date Received:	Sep-07-12
Job Site / No.	Rocketship Tamien 465-4-3	Total Samples Analyzed:	7

Client Sample # **SB-4 (2-2.5)**

Laboratory Sample # 1206-00035-004

SAMPLE DESCRIPTION

SAMPLE PREPARATION PARAMETERS

Weight of Material Suspended (mg):	59.8	Filter Type & Pore Size	MCE0.22um
Volume of Suspension Water (ml):	500	Effective Filter Area (sq.mm)	201
Volume of Suspension Filtered (ml):	0.5		

ASBESTOS DETECTED IN SCAN AREA

CHRYSOTILE		AMPHIBOLE	
FIBERS	BUNDLES	FIBERS	BUNDLES
20	4	NSD	NSD

CALCULATED ASBESTOS CONCENTRATION (WEIGHT %)

CHRYSOTILE	AMPHIBOLE	TOTAL
0.027	<0.001	0.027

COMMENTS

Chrysotile Asbestos Detected

Filter Loading: Heavy

SAED Photo ID Nos.

TEM / ANALYTICAL PARAMETERS

Grid Op. # Scanned For Large Fibers & Bundles	20	Grid Area (sq.mm)	0.0092	Bundle Scan Area (sq.mm)	0.184
Grid Op. # Scanned For Small Fibers & Bundles	1	Grid Area (sq.mm)	0.0092	Fiber Scan Area (sq.mm)	0.0092
		Magnification:	15,000X		

NOTATION KEY

Chrys. - Chrysotile Asbestos
Amph. - Amphibole Asbestos
NSD - No Structures Detected
Non-Asb. - Non-Asbestos

1 um = 1 micron = 0.001 mm
1 mm = 1 millimeter
1 sq.mm = 1 square millimeter
1 cc = 1 cubic centimeter

Analyst Signature

Lab QC Reviewer Signature

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TRANSMISSION ELECTRON MICROSCOPY ANALYTICAL REPORT

Contact:	Kurt Soenen	**REPORT NO.**	**312807**
Address:	Cornerstone Earth Group, Inc. 1259 Oakmead Parkway Sunnyvale, CA 94085	Date:	Sep-14-12
		Date Received:	Sep-07-12
Job Site / No.	Rocketship Tamien 465-4-3	Total Samples Analyzed:	7

Client Sample # **SB-6 (1-1.5)**

Laboratory Sample # 1206-00035-005

SAMPLE DESCRIPTION

SAMPLE PREPARATION PARAMETERS

Weight of Material Suspended (mg):	59.7	Filter Type & Pore Size	MCE0.22um
Volume of Suspension Water (ml):	500	Effective Filter Area (sq.mm)	201
Volume of Suspension Filtered (ml):	0.5		

ASBESTOS DETECTED IN SCAN AREA

CHRYSOTILE		AMPHIBOLE	
FIBERS	BUNDLES	FIBERS	BUNDLES
7	1	NSD	NSD

CALCULATED ASBESTOS CONCENTRATION (WEIGHT %)

CHRYSOTILE	AMPHIBOLE	TOTAL
0.006	<0.001	0.006

COMMENTS

Chrysotile Asbestos Detected

Filter Loading: Heavy

SAED Photo ID Nos.

TEM / ANALYTICAL PARAMETERS

Grid Op. # Scanned For Large Fibers & Bundles	20	Grid Area (sq.mm)	0.0092	Bundle Scan Area (sq.mm)	0.184
Grid Op. # Scanned For Small Fibers & Bundles	1	Grid Area (sq.mm)	0.0092	Fiber Scan Area (sq.mm)	0.0092
		Magnification:	15,000X		

NOTATION KEY

Chrys. - Chrysotile Asbestos
Amph. - Amphibole Asbestos
NSD - No Structures Detected
Non-Asb. - Non-Asbestos

1 um = 1 micron = 0.001 mm
1 mm = 1 millimeter
1 sq.mm = 1 square millimeter
1 cc = 1 cubic centimeter

Analyst Signature

Lab QC Reviewer Signature

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TRANSMISSION ELECTRON MICROSCOPY ANALYTICAL REPORT

Contact:	Kurt Soenen	**REPORT NO.**	**312807**
Address:	Cornerstone Earth Group, Inc. 1259 Oakmead Parkway Sunnyvale, CA 94085	Date:	Sep-14-12
		Date Received:	Sep-07-12
Job Site / No.	Rocketship Tamien 465-4-3	Total Samples Analyzed:	7

Client Sample # **SB-2 (2.5-3)**

Laboratory Sample # 1206-00035-006

SAMPLE DESCRIPTION

SAMPLE PREPARATION PARAMETERS

Weight of Material Suspended (mg):	60	Filter Type & Pore Size	MCE0.22um
Volume of Suspension Water (ml):	500	Effective Filter Area (sq.mm)	201
Volume of Suspension Filtered (ml):	0.5		

ASBESTOS DETECTED IN SCAN AREA

CHRYSOTILE		AMPHIBOLE	
FIBERS	BUNDLES	FIBERS	BUNDLES
11	NSD	1	NSD

CALCULATED ASBESTOS CONCENTRATION (WEIGHT %)

CHRYSOTILE	AMPHIBOLE	TOTAL
0.020	0.013	0.033

COMMENTS

Chrysotile and Actinolite Asbestos Detected

Filter Loading: Heavy

SAED Photo ID Nos.

TEM / ANALYTICAL PARAMETERS

Grid Op. # Scanned For Large Fibers & Bundles	20	Grid Area (sq.mm)	0.0092	Bundle Scan Area (sq.mm)	0.184
Grid Op. # Scanned For Small Fibers & Bundles	1	Grid Area (sq.mm)	0.0092	Fiber Scan Area (sq.mm)	0.0092
		Magnification:	15,000X		

NOTATION KEY

Chrys. - Chrysotile Asbestos
Amph. - Amphibole Asbestos
NSD - No Structures Detected
Non-Asb. - Non-Asbestos

1 um = 1 micron = 0.001 mm
1 mm = 1 millimeter
1 sq.mm = 1 square millimeter
1 cc = 1 cubic centimeter

Analyst Signature

Lab QC Reviewer Signature

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www.asbestostemlabs.com
With Offices in Reno, NV (775) 359-3377

TRANSMISSION ELECTRON MICROSCOPY ANALYTICAL REPORT

Contact:	Kurt Soenen	**REPORT NO.**	**312807**
Address:	Cornerstone Earth Group, Inc. 1259 Oakmead Parkway Sunnyvale, CA 94085	Date:	Sep-14-12
		Date Received:	Sep-07-12
Job Site / No.	Rocketship Tamien 465-4-3	Total Samples Analyzed:	7

Client Sample # **TP-2 (2-2.5)**

Laboratory Sample # 1206-00035-007

SAMPLE DESCRIPTION

SAMPLE PREPARATION PARAMETERS

Weight of Material Suspended (mg):	59.7	Filter Type & Pore Size	MCE0.22um
Volume of Suspension Water (ml):	500	Effective Filter Area (sq.mm)	201
Volume of Suspension Filtered (ml):	0.5		

ASBESTOS DETECTED IN SCAN AREA

CHRYSOTILE		AMPHIBOLE	
FIBERS	BUNDLES	FIBERS	BUNDLES
23	NSD	NSD	NSD

CALCULATED ASBESTOS CONCENTRATION (WEIGHT %)

CHRYSOTILE	AMPHIBOLE	TOTAL
0.014	<0.001	0.014

COMMENTS

Chrysotile Asbestos Detected

Filter Loading: Heavy

SAED Photo ID Nos.

TEM / ANALYTICAL PARAMETERS

Grid Op. # Scanned For Large Fibers & Bundles	20	Grid Area (sq.mm)	0.0092	Bundle Scan Area (sq.mm)	0.184
Grid Op. # Scanned For Small Fibers & Bundles	1	Grid Area (sq.mm)	0.0092	Fiber Scan Area (sq.mm)	0.0092
		Magnification:	15,000X		

NOTATION KEY

Chrys. - Chrysotile Asbestos
Amph. - Amphibole Asbestos
NSD - No Structures Detected
Non-Asb. - Non-Asbestos

1 um = 1 micron = 0.001 mm
1 mm = 1 millimeter
1 sq.mm = 1 square millimeter
1 cc = 1 cubic centimeter

Analyst Signature

Lab QC Reviewer Signature

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With Offices in Reno, NV (775) 359-3377

EARTH GROUP

Chain of Custody Record

Cornerstone Earth Group, Inc.	Project Manager: Kurt Somen	Site Contact:	Date: April 17, 2012
1259 Oakmead Pkwy	Tel/Fax:	Lab Contact:	Carrier:
Sunnyvale, California 94085	Analysis Turnaround Time		
(408) 245-4600 Phone	☐ Not different from Below		
(408) 245-4620 FAX	☐ 1 week 4/14/12		
Project Name: Rocketship Tamien	☐ 3 days		
Site:	☐ 2 days		
Project Number: 465-4-3	☐ 1 day		

COC No: ____ of ____ COCs

Laboratory's Job No.

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Arsenic TEM (JEL <0.001%), CARB 435 Prep	CAM-B QUANT.	Laboratory's Sample Specific Notes:
SB-10 (6½-7)	082812		Bulk	S	1		X		
SB-8 (9½-10)	082812		Bulk	S	1				HOLD Per
SB-9 (11-11½)	082812		Bulk	S	1		X		
Per ~~SB-3 (11½-12)~~	082812		Bulk	S	1		X		
SB-4 (2-2½)	082812		Bulk	S	1		X		
SB-6 (1-1½)	082812		Bulk	S	1		X		
SB-2 (2½-3)	082812		Bulk	S	1		X		
TP-2 (2-2½)	09048		BULK	S	1		X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification

☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal

☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Kurt Somen	Cornerstone Earth Group	1500 04/06/12	[illegible]	ATEM	
Relinquished by:	Company	Date/Time	Received by:	Company:	Date/Time
Relinquished by	Company	Date/Time	Received by	Company:	Date/Time

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9/10/2012
Mr. Ross Tinline
SVC Environmental, Inc.
11 Kenton Ave

San Carlos CA 94070

Project Name: Tamien @ Lick
Project #:
Workorder #: 1208707A

Dear Mr. Ross Tinline

The following report includes the data for the above referenced project for sample(s) received on 8/31/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1208707A

Work Order Summary

CLIENT:	Mr. Ross Tinline SVC Environmental, Inc. 11 Kenton Ave San Carlos, CA 94070	**BILL TO:**	Mr. Ross Tinline SVC Environmental, Inc. 11 Kenton Ave San Carlos, CA 94070
PHONE:	650-218-3766	**P.O. #**	
FAX:		**PROJECT #**	Tamien @ Lick
DATE RECEIVED:	08/31/2012	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	09/10/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SV-1/SB-7 D4.75	Modified TO-15	3.0 "Hg	15 psi
02A	SV-1/SB-7 D9.5	Modified TO-15	7.5 "Hg	15 psi
03A	SV-2/SB-8 D4.75	Modified TO-15	5.5 "Hg	15 psi
04A	SV-2/SB-8 D4.75 R	Modified TO-15	7.0 "Hg	15 psi
05A	SV-2/SB-8 D9.25	Modified TO-15	0.5 "Hg	15 psi
06A(on hold)	Trip Blank	Modified TO-15	28.0 "Hg	15 psi
07A	Lab Blank	Modified TO-15	NA	NA
08A	CCV	Modified TO-15	NA	NA
09A	LCS	Modified TO-15	NA	NA
09AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 09/10/12

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
SVC Environmental, Inc.
Workorder# 1208707A

Six 1 Liter Summa Canister samples were received on August 31, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

Sample Trip Blank was placed on hold per the client's request.

Analytical Notes

The reported result for 4-Ethyltoluene in sample SV-1/SB-7 D4.75 may be biased high due to co-elution with a non target compound with similar characteristic ions. Both the primary and secondary ion for 4-Ethyltoluene exhibited potential interference.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SV-1/SB-7 D4.75

Lab ID#: 1208707A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	11	16	27	39
Carbon Disulfide	4.5	6.9	14	22
Benzene	1.1	9.0	3.6	29
Heptane	1.1	1.2	4.6	4.8
Toluene	1.1	32	4.2	120
Tetrachloroethene	1.1	1.3	7.6	8.7
Chlorobenzene	1.1	1.2	5.2	5.4
Ethyl Benzene	1.1	8.4	4.9	36
m,p-Xylene	1.1	37	4.9	160
o-Xylene	1.1	12	4.9	52
Propylbenzene	1.1	2.2	5.5	11
4-Ethyltoluene	1.1	11	5.5	55
1,3,5-Trimethylbenzene	1.1	5.7	5.5	28
1,2,4-Trimethylbenzene	1.1	16	5.5	77

Client Sample ID: SV-1/SB-7 D9.5

Lab ID#: 1208707A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.3	4.2	4.3	13
Toluene	1.3	8.8	5.1	33
Ethyl Benzene	1.3	2.0	5.8	8.9
m,p-Xylene	1.3	6.3	5.8	27
o-Xylene	1.3	1.9	5.8	8.2
1,2,4-Trimethylbenzene	1.3	1.9	6.6	9.6

Client Sample ID: SV-2/SB-8 D4.75

Lab ID#: 1208707A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	12	45	29	110
2-Butanone (Methyl Ethyl Ketone)	4.9	5.0	14	14
m,p-Xylene	1.2	1.8	5.4	8.0

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SV-2/SB-8 D4.75

Lab ID#: 1208707A-03A

Client Sample ID: SV-2/SB-8 D4.75 R

Lab ID#: 1208707A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	13	28	31	66
m,p-Xylene	1.3	1.8	5.7	7.9
1,2,4-Trimethylbenzene	1.3	1.4	6.5	7.1

Client Sample ID: SV-2/SB-8 D9.25

Lab ID#: 1208707A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chlorobenzene	1.0	1.0	4.7	4.8

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Client Sample ID: SV-1/SB-7 D4.75

Lab ID#: 1208707A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j090613**	**Date of Collection:**	**8/30/12 1:46:00 PM**
Dil. Factor:	**2.24**	**Date of Analysis:**	**9/6/12 06:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 114	1.1	Not Detected	7.8	Not Detected
Chloromethane	11	Not Detected	23	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	11	Not Detected	43	Not Detected
Chloroethane	4.5	Not Detected	12	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	Not Detected	8.4	Not Detected
Freon 113	1.1	Not Detected	8.6	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	11	16	27	39
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	4.5	6.9	14	22
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	39	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.5	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	1.1	9.0	3.6	29
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Heptane	1.1	1.2	4.6	4.8
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	32	4.2	120
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	1.3	7.6	8.7
2-Hexanone	4.5	Not Detected	18	Not Detected

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Client Sample ID: SV-1/SB-7 D4.75

Lab ID#: 1208707A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j090613**	**Date of Collection:**	**8/30/12 1:46:00 PM**
Dil. Factor:	**2.24**	**Date of Analysis:**	**9/6/12 06:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	1.2	5.2	5.4
Ethyl Benzene	1.1	8.4	4.9	36
m,p-Xylene	1.1	37	4.9	160
o-Xylene	1.1	12	4.9	52
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
Propylbenzene	1.1	2.2	5.5	11
4-Ethyltoluene	1.1	11	5.5	55
1,3,5-Trimethylbenzene	1.1	5.7	5.5	28
1,2,4-Trimethylbenzene	1.1	16	5.5	77
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: SV-1/SB-7 D9.5

Lab ID#: 1208707A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j090617**	**Date of Collection:**	**8/30/12 2:54:00 PM**
Dil. Factor:	**2.69**	**Date of Analysis:**	**9/6/12 08:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.6	Not Detected
Freon 114	1.3	Not Detected	9.4	Not Detected
Chloromethane	13	Not Detected	28	Not Detected
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
1,3-Butadiene	1.3	Not Detected	3.0	Not Detected
Bromomethane	13	Not Detected	52	Not Detected
Chloroethane	5.4	Not Detected	14	Not Detected
Freon 11	1.3	Not Detected	7.6	Not Detected
Ethanol	5.4	Not Detected	10	Not Detected
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Acetone	13	Not Detected	32	Not Detected
2-Propanol	5.4	Not Detected	13	Not Detected
Carbon Disulfide	5.4	Not Detected	17	Not Detected
3-Chloropropene	5.4	Not Detected	17	Not Detected
Methylene Chloride	13	Not Detected	47	Not Detected
Methyl tert-butyl ether	1.3	Not Detected	4.8	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Hexane	1.3	Not Detected	4.7	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.4	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Tetrahydrofuran	1.3	Not Detected	4.0	Not Detected
Chloroform	1.3	Not Detected	6.6	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Cyclohexane	1.3	Not Detected	4.6	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.5	Not Detected
2,2,4-Trimethylpentane	1.3	Not Detected	6.3	Not Detected
Benzene	1.3	4.2	4.3	13
1,2-Dichloroethane	1.3	Not Detected	5.4	Not Detected
Heptane	1.3	Not Detected	5.5	Not Detected
Trichloroethene	1.3	Not Detected	7.2	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.2	Not Detected
1,4-Dioxane	5.4	Not Detected	19	Not Detected
Bromodichloromethane	1.3	Not Detected	9.0	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	6.1	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.5	Not Detected
Toluene	1.3	8.8	5.1	33
trans-1,3-Dichloropropene	1.3	Not Detected	6.1	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Tetrachloroethene	1.3	Not Detected	9.1	Not Detected
2-Hexanone	5.4	Not Detected	22	Not Detected

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Client Sample ID: SV-1/SB-7 D9.5

Lab ID#: 1208707A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j090617**	**Date of Collection:**	**8/30/12 2:54:00 PM**
Dil. Factor:	**2.69**	**Date of Analysis:**	**9/6/12 08:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	Not Detected	6.2	Not Detected
Ethyl Benzene	1.3	2.0	5.8	8.9
m,p-Xylene	1.3	6.3	5.8	27
o-Xylene	1.3	1.9	5.8	8.2
Styrene	1.3	Not Detected	5.7	Not Detected
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	Not Detected	6.6	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.2	Not Detected
Propylbenzene	1.3	Not Detected	6.6	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.6	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.6	Not Detected
1,2,4-Trimethylbenzene	1.3	1.9	6.6	9.6
1,3-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	7.0	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
1,2,4-Trichlorobenzene	5.4	Not Detected	40	Not Detected
Hexachlorobutadiene	5.4	Not Detected	57	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	90	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: SV-2/SB-8 D4.75

Lab ID#: 1208707A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j090615**	**Date of Collection:**	**8/30/12 3:59:00 PM**
Dil. Factor:	**2.47**	**Date of Analysis:**	**9/6/12 07:40 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.1	Not Detected
Freon 114	1.2	Not Detected	8.6	Not Detected
Chloromethane	12	Not Detected	26	Not Detected
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	12	Not Detected	48	Not Detected
Chloroethane	4.9	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.9	Not Detected
Ethanol	4.9	Not Detected	9.3	Not Detected
Freon 113	1.2	Not Detected	9.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Acetone	12	45	29	110
2-Propanol	4.9	Not Detected	12	Not Detected
Carbon Disulfide	4.9	Not Detected	15	Not Detected
3-Chloropropene	4.9	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	43	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Hexane	1.2	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.9	5.0	14	14
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Cyclohexane	1.2	Not Detected	4.2	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.8	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.8	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Heptane	1.2	Not Detected	5.1	Not Detected
Trichloroethene	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.7	Not Detected
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.3	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Tetrachloroethene	1.2	Not Detected	8.4	Not Detected
2-Hexanone	4.9	Not Detected	20	Not Detected

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Client Sample ID: SV-2/SB-8 D4.75

Lab ID#: 1208707A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j090615**	**Date of Collection:**	**8/30/12 3:59:00 PM**
Dil. Factor:	**2.47**	**Date of Analysis:**	**9/6/12 07:40 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.5	Not Detected
Chlorobenzene	1.2	Not Detected	5.7	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,p-Xylene	1.2	1.8	5.4	8.0
o-Xylene	1.2	Not Detected	5.4	Not Detected
Styrene	1.2	Not Detected	5.3	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
Cumene	1.2	Not Detected	6.1	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.5	Not Detected
Propylbenzene	1.2	Not Detected	6.1	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.1	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.4	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	4.9	Not Detected	37	Not Detected
Hexachlorobutadiene	4.9	Not Detected	53	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: SV-2/SB-8 D4.75 R

Lab ID#: 1208707A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j090614**	**Date of Collection:**	**8/30/12 4:08:00 PM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**9/6/12 06:53 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.5	Not Detected
Freon 114	1.3	Not Detected	9.2	Not Detected
Chloromethane	13	Not Detected	27	Not Detected
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
1,3-Butadiene	1.3	Not Detected	2.9	Not Detected
Bromomethane	13	Not Detected	51	Not Detected
Chloroethane	5.3	Not Detected	14	Not Detected
Freon 11	1.3	Not Detected	7.4	Not Detected
Ethanol	5.3	Not Detected	9.9	Not Detected
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Acetone	13	28	31	66
2-Propanol	5.3	Not Detected	13	Not Detected
Carbon Disulfide	5.3	Not Detected	16	Not Detected
3-Chloropropene	5.3	Not Detected	16	Not Detected
Methylene Chloride	13	Not Detected	46	Not Detected
Methyl tert-butyl ether	1.3	Not Detected	4.8	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Hexane	1.3	Not Detected	4.6	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.3	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.9	Not Detected
Chloroform	1.3	Not Detected	6.4	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Cyclohexane	1.3	Not Detected	4.5	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.3	Not Detected
2,2,4-Trimethylpentane	1.3	Not Detected	6.2	Not Detected
Benzene	1.3	Not Detected	4.2	Not Detected
1,2-Dichloroethane	1.3	Not Detected	5.3	Not Detected
Heptane	1.3	Not Detected	5.4	Not Detected
Trichloroethene	1.3	Not Detected	7.1	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.1	Not Detected
1,4-Dioxane	5.3	Not Detected	19	Not Detected
Bromodichloromethane	1.3	Not Detected	8.8	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.4	Not Detected
Toluene	1.3	Not Detected	5.0	Not Detected
trans-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Tetrachloroethene	1.3	Not Detected	9.0	Not Detected
2-Hexanone	5.3	Not Detected	22	Not Detected

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Client Sample ID: SV-2/SB-8 D4.75 R

Lab ID#: 1208707A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j090614**	**Date of Collection:**	**8/30/12 4:08:00 PM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**9/6/12 06:53 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	Not Detected	6.1	Not Detected
Ethyl Benzene	1.3	Not Detected	5.7	Not Detected
m,p-Xylene	1.3	1.8	5.7	7.9
o-Xylene	1.3	Not Detected	5.7	Not Detected
Styrene	1.3	Not Detected	5.6	Not Detected
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	Not Detected	6.5	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.1	Not Detected
Propylbenzene	1.3	Not Detected	6.5	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.5	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.5	Not Detected
1,2,4-Trimethylbenzene	1.3	1.4	6.5	7.1
1,3-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.8	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
1,2,4-Trichlorobenzene	5.3	Not Detected	39	Not Detected
Hexachlorobutadiene	5.3	Not Detected	56	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: SV-2/SB-8 D9.25

Lab ID#: 1208707A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j090616**	**Date of Collection:**	**8/30/12 4:48:00 PM**
Dil. Factor:	**2.05**	**Date of Analysis:**	**9/6/12 08:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.0	Not Detected	5.1	Not Detected
Freon 114	1.0	Not Detected	7.2	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
Bromomethane	10	Not Detected	40	Not Detected
Chloroethane	4.1	Not Detected	11	Not Detected
Freon 11	1.0	Not Detected	5.8	Not Detected
Ethanol	4.1	Not Detected	7.7	Not Detected
Freon 113	1.0	Not Detected	7.8	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.1	Not Detected
Acetone	10	Not Detected	24	Not Detected
2-Propanol	4.1	Not Detected	10	Not Detected
Carbon Disulfide	4.1	Not Detected	13	Not Detected
3-Chloropropene	4.1	Not Detected	13	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Methyl tert-butyl ether	1.0	Not Detected	3.7	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
Hexane	1.0	Not Detected	3.6	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.1	Not Detected	12	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Chloroform	1.0	Not Detected	5.0	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.6	Not Detected
Cyclohexane	1.0	Not Detected	3.5	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.4	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.8	Not Detected
Benzene	1.0	Not Detected	3.3	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.1	Not Detected
Heptane	1.0	Not Detected	4.2	Not Detected
Trichloroethene	1.0	Not Detected	5.5	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.7	Not Detected
1,4-Dioxane	4.1	Not Detected	15	Not Detected
Bromodichloromethane	1.0	Not Detected	6.9	Not Detected
cis-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.2	Not Detected
Toluene	1.0	Not Detected	3.9	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.6	Not Detected
Tetrachloroethene	1.0	Not Detected	7.0	Not Detected
2-Hexanone	4.1	Not Detected	17	Not Detected

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Client Sample ID: SV-2/SB-8 D9.25

Lab ID#: 1208707A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j090616**	**Date of Collection:**	**8/30/12 4:48:00 PM**
Dil. Factor:	**2.05**	**Date of Analysis:**	**9/6/12 08:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.0	Not Detected	8.7	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.9	Not Detected
Chlorobenzene	1.0	1.0	4.7	4.8
Ethyl Benzene	1.0	Not Detected	4.4	Not Detected
m,p-Xylene	1.0	Not Detected	4.4	Not Detected
o-Xylene	1.0	Not Detected	4.4	Not Detected
Styrene	1.0	Not Detected	4.4	Not Detected
Bromoform	1.0	Not Detected	10	Not Detected
Cumene	1.0	Not Detected	5.0	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.0	Not Detected
Propylbenzene	1.0	Not Detected	5.0	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.0	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.0	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.3	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected	30	Not Detected
Hexachlorobutadiene	4.1	Not Detected	44	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	89	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1208707A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j090606**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/12 12:43 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1208707A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j090606**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/12 12:43 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	90	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: CCV

Lab ID#: 1208707A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j090602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/12 09:40 AM**	

Compound	%Recovery
Freon 12	121
Freon 114	125
Chloromethane	85
Vinyl Chloride	90
1,3-Butadiene	73
Bromomethane	116
Chloroethane	96
Freon 11	121
Ethanol	78
Freon 113	127
1,1-Dichloroethene	129
Acetone	77
2-Propanol	83
Carbon Disulfide	103
3-Chloropropene	110
Methylene Chloride	76
Methyl tert-butyl ether	122
trans-1,2-Dichloroethene	109
Hexane	94
1,1-Dichloroethane	93
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	95
Tetrahydrofuran	78
Chloroform	108
1,1,1-Trichloroethane	119
Cyclohexane	105
Carbon Tetrachloride	117
2,2,4-Trimethylpentane	80
Benzene	104
1,2-Dichloroethane	109
Heptane	121
Trichloroethene	112
1,2-Dichloropropane	79
1,4-Dioxane	99
Bromodichloromethane	112
cis-1,3-Dichloropropene	102
4-Methyl-2-pentanone	87
Toluene	94
trans-1,3-Dichloropropene	114
1,1,2-Trichloroethane	103
Tetrachloroethene	106
2-Hexanone	91

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Client Sample ID: CCV

Lab ID#: 1208707A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j090602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/12 09:40 AM**	

Compound	**%Recovery**
Dibromochloromethane	115
1,2-Dibromoethane (EDB)	105
Chlorobenzene	91
Ethyl Benzene	108
m,p-Xylene	107
o-Xylene	106
Styrene	111
Bromoform	115
Cumene	112
1,1,2,2-Tetrachloroethane	94
Propylbenzene	112
4-Ethyltoluene	104
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	94
1,4-Dichlorobenzene	95
alpha-Chlorotoluene	110
1,2-Dichlorobenzene	96
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	116

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCS

Lab ID#: 1208707A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j090603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/12 10:21 AM**	

Compound	%Recovery
Freon 12	124
Freon 114	131 Q
Chloromethane	87
Vinyl Chloride	95
1,3-Butadiene	75
Bromomethane	114
Chloroethane	91
Freon 11	120
Ethanol	71
Freon 113	126
1,1-Dichloroethene	136 Q
Acetone	71
2-Propanol	82
Carbon Disulfide	124
3-Chloropropene	121
Methylene Chloride	72
Methyl tert-butyl ether	118
trans-1,2-Dichloroethene	120
Hexane	88
1,1-Dichloroethane	90
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	90
Tetrahydrofuran	69 Q
Chloroform	107
1,1,1-Trichloroethane	117
Cyclohexane	105
Carbon Tetrachloride	117
2,2,4-Trimethylpentane	77
Benzene	100
1,2-Dichloroethane	101
Heptane	108
Trichloroethene	106
1,2-Dichloropropane	79
1,4-Dioxane	91
Bromodichloromethane	107
cis-1,3-Dichloropropene	97
4-Methyl-2-pentanone	78
Toluene	91
trans-1,3-Dichloropropene	110
1,1,2-Trichloroethane	99
Tetrachloroethene	103
2-Hexanone	84

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Client Sample ID: LCS

Lab ID#: 1208707A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j090603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/12 10:21 AM**	

Compound	**%Recovery**
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	101
Chlorobenzene	87
Ethyl Benzene	103
m,p-Xylene	102
o-Xylene	101
Styrene	108
Bromoform	108
Cumene	108
1,1,2,2-Tetrachloroethane	90
Propylbenzene	108
4-Ethyltoluene	94
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	93
1,4-Dichlorobenzene	91
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	92
1,2,4-Trichlorobenzene	94
Hexachlorobutadiene	110

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCSD

Lab ID#: 1208707A-09AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j090604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/12 10:57 AM**	

Compound	%Recovery
Freon 12	119
Freon 114	125
Chloromethane	81
Vinyl Chloride	92
1,3-Butadiene	73
Bromomethane	110
Chloroethane	96
Freon 11	119
Ethanol	66 Q
Freon 113	125
1,1-Dichloroethene	140 Q
Acetone	71
2-Propanol	79
Carbon Disulfide	125
3-Chloropropene	124
Methylene Chloride	72
Methyl tert-butyl ether	119
trans-1,2-Dichloroethene	125
Hexane	84
1,1-Dichloroethane	88
2-Butanone (Methyl Ethyl Ketone)	96
cis-1,2-Dichloroethene	91
Tetrahydrofuran	69 Q
Chloroform	107
1,1,1-Trichloroethane	117
Cyclohexane	102
Carbon Tetrachloride	115
2,2,4-Trimethylpentane	77
Benzene	104
1,2-Dichloroethane	105
Heptane	115
Trichloroethene	110
1,2-Dichloropropane	79
1,4-Dioxane	94
Bromodichloromethane	111
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	80
Toluene	92
trans-1,3-Dichloropropene	113
1,1,2-Trichloroethane	100
Tetrachloroethene	107
2-Hexanone	85

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Client Sample ID: LCSD

Lab ID#: 1208707A-09AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j090604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/12 10:57 AM**	

Compound	**%Recovery**
Dibromochloromethane	113
1,2-Dibromoethane (EDB)	104
Chlorobenzene	89
Ethyl Benzene	104
m,p-Xylene	105
o-Xylene	105
Styrene	109
Bromoform	109
Cumene	111
1,1,2,2-Tetrachloroethane	92
Propylbenzene	109
4-Ethyltoluene	98
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	94
1,4-Dichlorobenzene	92
alpha-Chlorotoluene	103
1,2-Dichlorobenzene	95
1,2,4-Trichlorobenzene	96
Hexachlorobutadiene	114

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	106	70-130

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9/10/2012
Mr. Kurt Soenen
SVC Environmental, Inc.
1259 Oakmead Parkway

Sunnyvale CA 94085

Project Name: Tamien @ Lick
Project #:
Workorder #: 1208707B

Dear Mr. Kurt Soenen

The following report includes the data for the above referenced project for sample(s) received on 8/31/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1208707B

Work Order Summary

CLIENT:	Mr. Kurt Soenen Cornerstone Earth Group 1259 Oakmead Parkway Sunnyvale, CA 94085	**BILL TO:**	Mr. Kurt Soenen Cornerstone Earth Group 1259 Oakmead Parkway Sunnyvale, CA 94085
PHONE:	408-245-4600 x110	**P.O. #**	
FAX:	408-245-4620	**PROJECT #**	Tamien @ Lick
DATE RECEIVED:	08/31/2012	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	09/10/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SV-1/SB-7 D4.75	Modified TO-3	3.0 "Hg	15 psi
02A	SV-1/SB-7 D9.5	Modified TO-3	7.5 "Hg	15 psi
03A	SV-2/SB-8 D4.75	Modified TO-3	5.5 "Hg	15 psi
04A	SV-2/SB-8 D4.75 R	Modified TO-3	7.0 "Hg	15 psi
05A	SV-2/SB-8 D9.25	Modified TO-3	0.5 "Hg	15 psi
06A(on hold)	Trip Blank	Modified TO-3	28.0 "Hg	15 psi
07A	Lab Blank	Modified TO-3	NA	NA
08A	LCS	Modified TO-3	NA	NA

CERTIFIED BY: Heidi Mayo

Technical Director

DATE: 09/10/12

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
SVC Environmental, Inc.
Workorder# 1208707B

Six 1 Liter Summa Canister samples were received on August 31, 2012. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. The TPH (Gasoline Range) results are calculated using the response factor of Gasoline . A molecular weight of 100 is used to convert the TPH (Gasoline Range) ppmv result to ug/L.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-3***	***ATL Modifications***
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

Sample Trip Blank was placed on hold per the client's request.

Analytical Notes

The hydrocarbon profile present in all samples did not resemble that of commercial gasoline. Results were calculated using the response factor derived from the current gasoline linear calibration.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: SV-1/SB-7 D4.75

Lab ID#: 1208707B-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.056	0.23	0.77	3.1

Client Sample ID: SV-1/SB-7 D9.5

Lab ID#: 1208707B-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.067	0.28	0.34	1.4

Client Sample ID: SV-2/SB-8 D4.75

Lab ID#: 1208707B-03A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.062	0.25	0.29	1.2

Client Sample ID: SV-2/SB-8 D4.75 R

Lab ID#: 1208707B-04A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.066	0.27	0.18	0.73

Client Sample ID: SV-2/SB-8 D9.25

Lab ID#: 1208707B-05A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.051	0.21	0.13	0.52

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Client Sample ID: SV-1/SB-7 D4.75

Lab ID#: 1208707B-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d091006**	**Date of Collection:**	**8/30/12 1:46:00 PM**
Dil. Factor:	**2.24**	**Date of Analysis:**	**9/10/12 12:11 PM**

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.056	0.23	0.77	3.1

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	84	75-150

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Client Sample ID: SV-1/SB-7 D9.5

Lab ID#: 1208707B-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d091007**	**Date of Collection:**	**8/30/12 2:54:00 PM**
Dil. Factor:	**2.69**	**Date of Analysis:**	**9/10/12 12:49 PM**

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.067	0.28	0.34	1.4

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	84	75-150

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Client Sample ID: SV-2/SB-8 D4.75

Lab ID#: 1208707B-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d091008**	**Date of Collection:**	**8/30/12 3:59:00 PM**
Dil. Factor:	**2.47**	**Date of Analysis:**	**9/10/12 01:22 PM**

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.062	0.25	0.29	1.2

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	83	75-150

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Client Sample ID: SV-2/SB-8 D4.75 R

Lab ID#: 1208707B-04A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d091009**	**Date of Collection:**	**8/30/12 4:08:00 PM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**9/10/12 01:58 PM**

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.066	0.27	0.18	0.73

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	84	75-150

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Client Sample ID: SV-2/SB-8 D9.25

Lab ID#: 1208707B-05A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d091010**	**Date of Collection:**	**8/30/12 4:48:00 PM**
Dil. Factor:	**2.05**	**Date of Analysis:**	**9/10/12 02:32 PM**

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.051	0.21	0.13	0.52

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	87	75-150

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Client Sample ID: Lab Blank

Lab ID#: 1208707B-07A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d091005**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/10/12 11:27 AM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.025	0.10	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	84	75-150

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Client Sample ID: LCS

Lab ID#: 1208707B-08A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d091003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/10/12 10:01 AM**	

Compound	**%Recovery**
TPH (Gasoline Range)	112

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	82	75-150

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9/11/2012
Mr. Kurt Soenen
Cornerstone Earth Group
1259 Oakmead Parkway

Sunnyvale CA 94085

Project Name: Tamien @ Lick
Project #:
Workorder #: 1208707CR1

Dear Mr. Kurt Soenen

The following report includes the data for the above referenced project for sample(s) received on 8/31/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1208707CR1

Work Order Summary

CLIENT:	Mr. Kurt Soenen Cornerstone Earth Group 1259 Oakmead Parkway Sunnyvale, CA 94085	**BILL TO:**	Mr. Kurt Soenen Cornerstone Earth Group 1259 Oakmead Parkway Sunnyvale, CA 94085
PHONE:	408-245-4600 x110	**P.O. #**	
FAX:	408-245-4620	**PROJECT #**	Tamien @ Lick
DATE RECEIVED:	08/31/2012	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	09/10/2012		
DATE REISSUED:	09/11/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SV-1/SB-7 D4.75	Modified ASTM D-1946	3.0 "Hg	15 psi
02A	SV-1/SB-7 D9.5	Modified ASTM D-1946	7.5 "Hg	15 psi
03A	SV-2/SB-8 D4.75	Modified ASTM D-1946	5.5 "Hg	15 psi
04A	SV-2/SB-8 D4.75 R	Modified ASTM D-1946	7.0 "Hg	15 psi
05A	SV-2/SB-8 D9.25	Modified ASTM D-1946	0.5 "Hg	15 psi
06A(on hold)	Trip Blank	Modified ASTM D-1946	28.0 "Hg	15 psi
07A	Lab Blank	Modified ASTM D-1946	NA	NA
08A	LCS	Modified ASTM D-1946	NA	NA
08AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 09/11/12

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
Cornerstone Earth Group
Workorder# 1208707CR1

Six 1 Liter Summa Canister samples were received on August 31, 2012. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***ASTM D-1946***	***ATL Modifications***
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

Sample Trip Blank was placed on hold per the client's request.

THE WORK ORDER WAS REISSUED ON 9/11/12 TO CORRECT THE CLIENT COMPANY INFORMATION FIELDS IN THE FINAL REPORT.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

Client Sample ID: SV-1/SB-7 D4.75

Lab ID#: 1208707CR1-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	18
Carbon Dioxide	0.022	3.0

Client Sample ID: SV-1/SB-7 D9.5

Lab ID#: 1208707CR1-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	15
Carbon Dioxide	0.027	5.3

Client Sample ID: SV-2/SB-8 D4.75

Lab ID#: 1208707CR1-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	18
Carbon Dioxide	0.025	3.0

Client Sample ID: SV-2/SB-8 D4.75 R

Lab ID#: 1208707CR1-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	18
Carbon Dioxide	0.026	3.0

Client Sample ID: SV-2/SB-8 D9.25

Lab ID#: 1208707CR1-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	19
Carbon Dioxide	0.020	2.7

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Client Sample ID: SV-1/SB-7 D4.75

Lab ID#: 1208707CR1-01A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9090607**	**Date of Collection:**	**8/30/12 1:46:00 PM**
Dil. Factor:	**2.24**	**Date of Analysis:**	**9/6/12 11:26 AM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.22	18
Methane	0.00022	Not Detected
Carbon Dioxide	0.022	3.0

Container Type: 1 Liter Summa Canister

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Client Sample ID: SV-1/SB-7 D9.5

Lab ID#: 1208707CR1-02A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9090608**	**Date of Collection:**	**8/30/12 2:54:00 PM**
Dil. Factor:	**2.69**	**Date of Analysis:**	**9/6/12 11:58 AM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.27	15
Methane	0.00027	Not Detected
Carbon Dioxide	0.027	5.3

Container Type: 1 Liter Summa Canister

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Client Sample ID: SV-2/SB-8 D4.75

Lab ID#: 1208707CR1-03A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9090609**	**Date of Collection:**	**8/30/12 3:59:00 PM**
Dil. Factor:	**2.47**	**Date of Analysis:**	**9/6/12 12:24 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.25	18
Methane	0.00025	Not Detected
Carbon Dioxide	0.025	3.0

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SV-2/SB-8 D4.75 R

Lab ID#: 1208707CR1-04A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9090610**	**Date of Collection:**	**8/30/12 4:08:00 PM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**9/6/12 12:56 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.26	18
Methane	0.00026	Not Detected
Carbon Dioxide	0.026	3.0

Container Type: 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SV-2/SB-8 D9.25

Lab ID#: 1208707CR1-05A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9090611**	**Date of Collection:**	**8/30/12 4:48:00 PM**
Dil. Factor:	**2.05**	**Date of Analysis:**	**9/6/12 01:53 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.20	19
Methane	0.00020	Not Detected
Carbon Dioxide	0.020	2.7

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1208707CR1-07A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9090606**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/12 10:52 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.10	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1208707CR1-08A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9090602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/12 07:39 AM**	

Compound	**%Recovery**
Oxygen	100
Methane	99
Carbon Dioxide	100

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1208707CR1-08AA

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	**9090623**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/12 07:56 PM**	

Compound	**%Recovery**
Oxygen	99
Methane	99
Carbon Dioxide	100

Container Type: NA - Not Applicable

APPENDIX D. SCREENING LEVEL VICINITY RISK ASSESSMENT

HEALTH RISK ASSESSMENT FOR:

PROPOSED ROCKETSHIP CHARTER SCHOOL - TAMIEN

prepared for:

CORNERSTONE EARTH GROUP

Contact:
Mr. Kurt Soenen, P.E.
Principal Engineer

prepared by:

THE PLANNING CENTER | DC&E

Contact:
Cathleen Fitzgerald, P.E.
Senior Engineer

OCTOBER 2012

HEALTH RISK ASSESSMENT FOR:

PROPOSED ROCKETSHIP CHARTER SCHOOL - TAMIEN

prepared for:

CORNERSTONE EARTH GROUP

Contact:
Mr. Kurt Soenen, P.E.
Principal Engineer

1259 Oakmead Parkway
Sunnyvale, California 94085
408.245.4600 x110

prepared by:

THE PLANNING CENTER | DC&E

Contact:
Cathleen Fitzgerald, P.E.
Senior Engineer

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Los Angeles, CA 90045
Tel: 310.670.9221 • Fax: 310.670.9512
Website: www.planningcenter.com

REGISTERED PROFESSIONAL ENGINEER
CATHLEEN M. FITZGERALD
Exp. Date 12/31/13
No. C039541
CIVIL
STATE OF CALIFORNIA

Cathleen M. Fitzgerald, P.E.
Senior Engineer

OCTOBER 2012

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1. Introduction

Rocketship Education is proposing to construct a new charter school on a 0.56-acre vacant parcel at 1178 Lick Avenue near the Tamien commuter rail station in the City of San Jose, California.

Regulations pertaining to the siting of new schools or modernization of existing schools in California require compliance with the California Code of Regulations (CCR) Title 5 standards. For existing schools, the Title 5 studies are intended to show that the project will not create any new significant hazards for staff and students attending new schools or exacerbate existing safety hazards for those attending existing schoosl. This health risk assessment (HRA) involves conducting the following tasks:

- Facilities within a quarter-mile radius of the proposed site that might reasonably emit hazardous or acutely hazardous air emissions must be identified; and

- It must be determined that the health risks from those facilities do not and will not constitute an actual or potential endangerment of public health to persons who attend or are employed at the school; or

- If impacts are identified, mitigation of all chronic or accidental hazardous air emissions must be made prior to school occupancy and a determination of no actual or potential endangerment shall be certified by the governing board.

- If identified impacts cannot be mitigated, the governing board may adopt a statement of overriding considerations if it makes the finding that no suitable alternative sites exist because of a severe shortage of qualifying school site locations.

- For a school site within 500 feet of the edge of a freeway traffic lane or busy traffic corridor, the governing board shall additionally determine, through analysis pursuant to paragraph (2) of subdivision (b) of Section 44360 of the Health and Safety Code, based on appropriate air dispersion modeling, and after considering any potential mitigation measures, that the air quality at the proposed site is such that neither short-term nor long-term exposure poses significant health risks to pupils or employees.

The assessment and dispersion modeling methodologies used in the preparation of this report included all relevant and appropriate procedures developed by the US Environmental Protection Agency (USEPA) and California Environmental Protection Agency (Cal/EPA). These methodologies and assumptions were used to ensure that the assessment effectively quantified school-based impacts associated with emission sources.

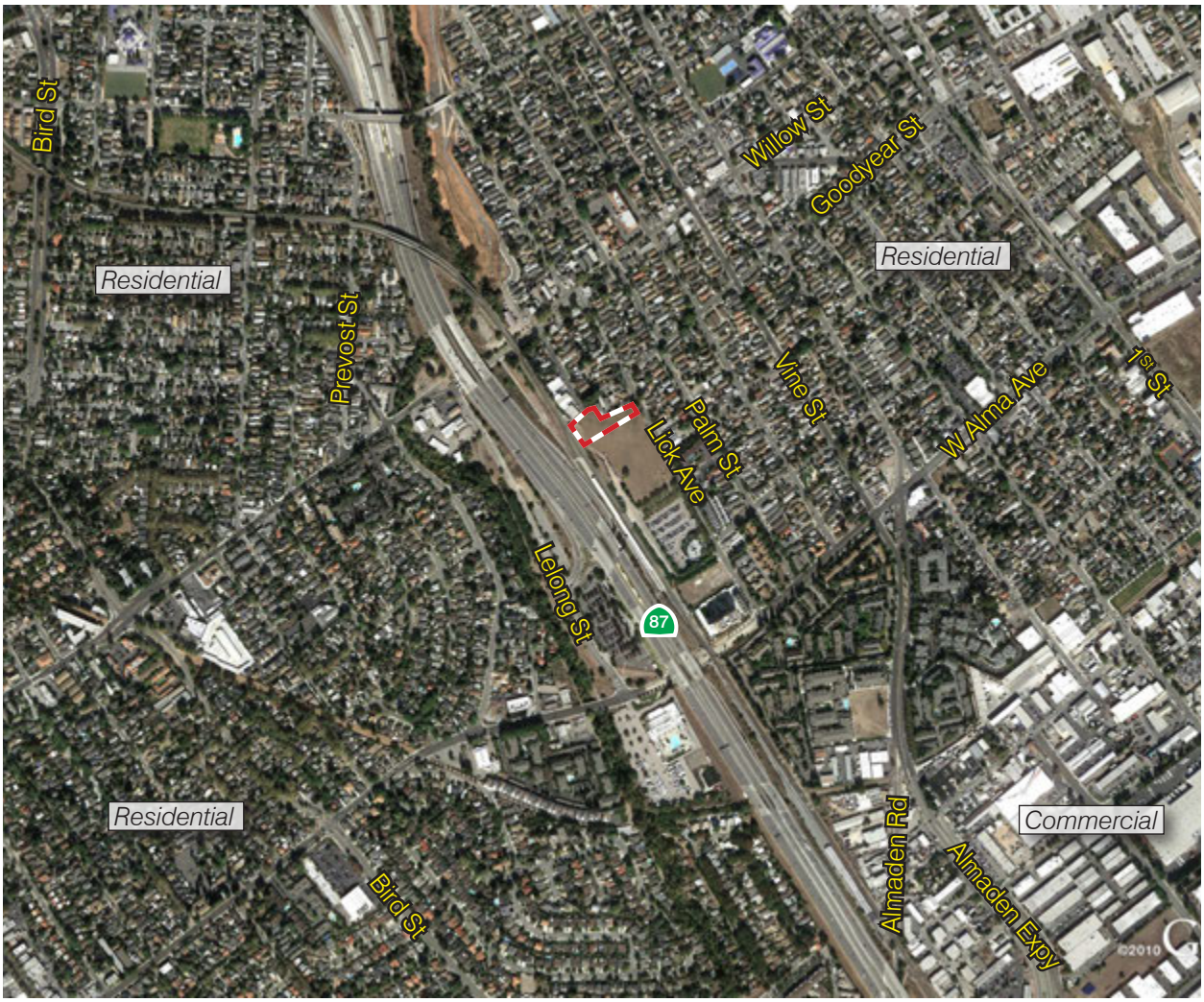
2. Project Description

The proposed project involves the construction of a new charter school at 1178 Lick Avenue in the City of San Jose, Santa Clara County, California. The proposed kindergarten through fifth grade charter school will likely be completed in 2014.

The project site is located at 1178 Lick Avenue in San Jose. The site is bounded by HGC Imports (liquor distributor), Goodyear Street, and single-family residences to the north, Lick Avenue to the east, a vacant parcel to the south, and a railroad right-of-way and Highway 87 to the west. The current plan is to develop the vacant parcel to the south with athletic fields for joint public/school use. Highway 87 is approximately 185 feet to the west.

The project site and vicinity are depicted in Figure 1.

Site Location/Vicinity Aerial Photograph



Site Boundary

0 1,200
Scale (Feet)

Source: Google Earth Pro 2011

3. Source Identification

Properties within a quarter-mile radius (1,320 feet) were surveyed to identify facilities that have the potential to generate hazardous and acutely hazardous air emissions. Although the Bay Area Air Quality Management District (BAAQMD requires evaluation of all potential emission sources within 1,000 feet when siting new receptors, the California Department of Education (CDE) requires evaluation of all potential sources within a ¼-mile radius for new school sites. Information obtained through BAAQMD was reviewed to assist in the identification of potential emitters. Only one BAAQMD permitted stationary source was identified; the letter from BAAQMD is provided in Appendix A.

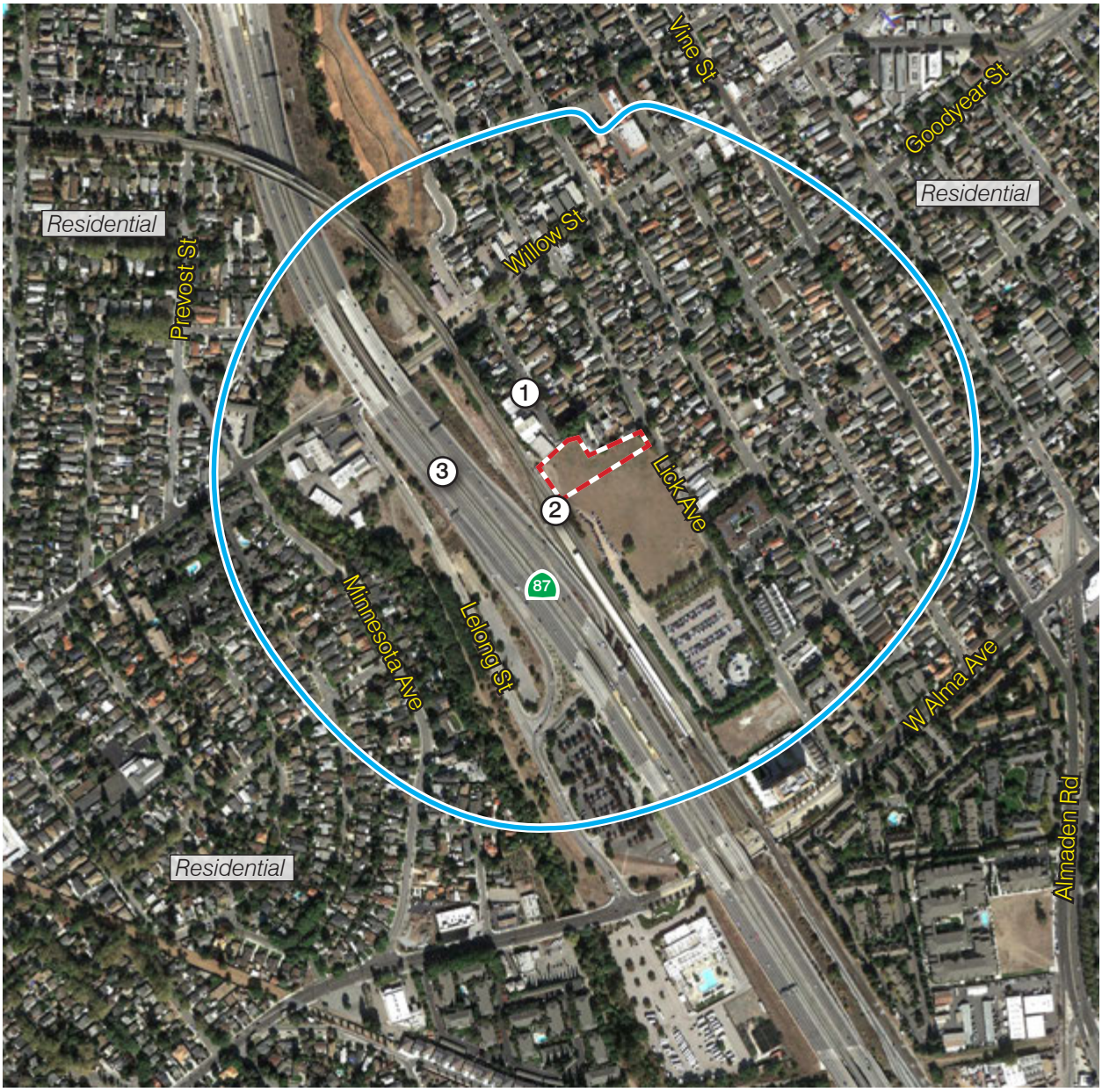
Additionally, the assessment considered the impact of potential long-term (chronic) exposures to hazardous emissions generated by vehicles traveling along State Route (SR) 87 (mile post 4.035 through 4.624), as well as vehicles traveling along the on- and off-ramps in the vicinity. Due to the site's proximity to SR-87 (within 500 feet of school site), the scope of the assessment was expanded to also include health impacts from particulate matter ($PM_{2.5}$). Emissions from locomotives traveling on the railroad right-of-way adjacent and west of the school site also were evaluated.

A summary of the emissions sources evaluated during this assessment is provided below in Table 1. The project site and emission sources are depicted in Figure 2.

Table 1
Emission Sources

Source	*Address*
B&M Auto Body	1035 Pepitone Avenue San Jose, California 95110
SR-87	Mileposts 4.035 through 4.624
Locomotives - Railroad	Mileposts 48.72 through 49.25

Emission Sources



Site Boundary

1/4-Mile Radius

1 B&M Auto Body

2 Railroad - Locomotives

3 State Route 87

0 700
Scale (Feet)

Source: Google Earth Pro 2011

4. Source Characterization

4.1 STATIONARY SOURCES

Contaminant release information and associated chemical species were identified through a review of available documentation for each source referenced in Section 3. To the degree practical, all contaminant emissions generated from each source location were considered in the analysis. The limiting factor for the inclusion of a compound was the availability of published exposure factors and other toxicity data enabling risks to be quantified and, where appropriate, target organs identified. The compounds emitted from each source are listed in Table 2.

Table 2
Chemical Compounds Emitted from Each Facility

Source	Contaminant
B&M Auto Body	Butyl acetate Toluene Butyl cellosolve Propylene glycol monomethyl ether (PGME)

4.2 ON-ROAD MOBILE SOURCES

In urban communities, vehicle emissions contribute significantly to localized concentrations of air contaminants. Typically, emissions generated from these sources depend on vehicle mix, the rate at which pollutants are generated during the course of travel, and the number of vehicles traveling along the roadway network.

To produce a representative vehicle fleet distribution, the assessment utilized the methodology recommended by the Institute of Transportation, University of California, Davis. This approach provides an estimate of vehicle mix based on annual truck traffic reports and a time-of-day adjustment factor appropriate for the project being evaluated. Table 3 lists the identified fleet mix considered in the assessment.

Table 3
Vehicle Fleet Mix Profile

Vehicle Class	%
Light Duty Auto (LDA)	77.75
Light Duty Truck (LDT)	13.61
Medium Duty Truck (MDT)	4.86
Heavy Duty Truck/Gas (HDTG)	0.96
Heavy Duty Truck/Diesel (HDTD)	1.86
Motorcycle (MCY)	0.97

To determine hourly traffic volumes, the assessment used data available through the California Department of Transportation, Traffic Data Branch. It was assumed that the on- and off-ramps had the same vehicle fleet mix as the freeway segment.

Currently, emission factors are generated by a series of computer programs to produce a composite emission rate for vehicles traveling within a defined geographical area or along a discrete roadway segment. To account for the emission standards imposed on the California fleet, the Air Resources Board has developed the EMFAC2011 emission factor model. EMFAC2011 was utilized to identify pollutant emission rates for total organic gases (TOG) and diesel exhaust particulate. To quantify the generation of hazardous emissions, the TOG emission rate was multiplied by available exhaust fractions for identified compounds promulgated by the USEPA (1993).

For particulate matter ($PM_{2.5}$), emissions were quantified as the re-entrainment of paved roadway dust. The predictive emission equation developed by the USEPA (AP-42, Section 13.2.1) was used to generate the particulate source strength. However, to account for the mass rate of emissions entrained from the roadway surface, the assumed contribution from exhaust and brake and tire wear was not subtracted from the emission estimate.

A list of emitted compounds for the mobile-source category is presented in Table 3. Appendix B contains a graphical representation of each emitting source. Appendix C presents the emission rate calculations for each source considered in the assessment.

Table 4
Compounds Emitted from Mobile-Source Activity

Source	*Contaminant*
SR-87	Benzene, Formaldehyde 1,3-Butadiene Acetaldehyde Diesel Particulate Particulate Matter ($PM_{2.5}$)

4.3 OFF-ROAD MOBILE SOURCES

Locomotive engines generate pollutants, which appreciably impact local air quality. Although locomotive engines produced today meet modest emission requirements, they continue to emit significant amounts of particulate matter (PM) and diesel exhaust, which contributes to serious public health impacts.

The Peninsula Corridor Joint Powers Board operates Caltrain commuter passenger trains along double tracks that parallel the proposed school site to the west. According to the latest Caltrain schedule, there are 10 trains/day that pass by during school hours (8 am to 4 pm). In addition, there is one Amtrak train (Coast Starlight) and approximately 4 Union Pacific freight trains that operate along these tracks during school hours (Caltrain, 2010). Diesel particulate matter (DPM) and $PM_{2.5}$ emission rates were calculated based on USEPA emission rates for locomotives (USEPA, 2009) with adjustments for low sulfur diesel fuel used in California (CARB, 2006). The trains were assumed to travel at a speed of approximately 20 mph in the area adjacent to the school site because of starts and stops associated with the nearby

Tamien station. At a speed of 20 mph, a throttle notch of 3 was assumed. Locomotive activity along the adjacent tracks is expected to emit the compounds listed in Table 5.

Table 5
Compounds Emitted from Off-Road Mobile Sources

Source	Contaminant
Locomotives – Caltrain, Amtrak, and UP freight trains	Diesel Particulate Particulate Matter ($PM_{2.5}$)

Appendix B contains a graphical representation of each emitting source considered in the assessment. Appendix C presents the emission rate calculations for each source.

5. *Exposure Quantification*

To assess the impact of emitted compounds on individuals who may work and/or attend classes at the proposed school facility, air quality modeling using the Industrial Source Complex-Short Term (ISCST3) model was performed. The model is a steady state Gaussian plume model and is used by Cal/EPA for estimating ground level impacts from point and fugitive sources in simple and complex terrain.

The model requires additional input parameters, including chemical emission data and local meteorology. Inputs for each emitting source were based on the characterizations referenced in Section 4. Meteorological data provided by BAAQMD for San Jose Airport (1997) was used to represent local weather conditions and prevailing winds. According to the wind rose for the San Jose Monitoring Station, presented in Appendix C, the prevailing wind direction in the area of the project site is to the south-southeast.

The modeling analysis also considered the spatial distribution of each emitting source (the freeways and transition ramps, trains traveling along the railroad right-of-way, and one stationary source – B&M Auto Body) in relation to the proposed school site. To accommodate the model's Cartesian grid format, direction-dependent calculations were obtained by identifying the Universal Transverse Mercator coordinates for each source. In addition, digital elevation model (DEM) data for the area were obtained and included in the model runs to account for complex terrain.

To determine contaminant impacts during school hours, the model's scalar option was invoked to predict ground-level concentrations for emissions generated between the hours of 8:00 am and 4:00 pm (i.e., ending hours 9 through 16).

The ISCST3 model output for the stationary-source and mobile-source activities are presented in Appendix D.

6. Risk Characterization

6.1 CARCINOGENIC CHEMICAL RISK

Carcinogenic compounds are not considered to have threshold levels (i.e., dose levels below which there are no risks). Any exposure, therefore, will have some associated risk. As a result, the Office of Environmental Health Hazard Assessment (OEHHA) and Bay Area Air Quality Management District (BAAQMD) has established a threshold of ten in a million (1.0E–05) as a level posing no significant risk for exposures to carcinogens.

Health risks associated with exposure to carcinogenic compounds at the proposed school facility can be defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. Under a deterministic approach (i.e., point estimate methodology), the cancer risk probability is determined by multiplying the chemical's annual concentration by its unit risk factor (URF), a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It is an upper-limit estimate of the probability of contracting cancer as a result of continuous exposure to an ambient concentration of one microgram per cubic meter ($\mu g/m^3$) over a lifetime of 70 years.

However, recent guidance from the Cal/EPA, Office of Environmental Health Hazard Assessment (OEHHA), recommends a refinement to the standard point estimate approach when alternate human body weights and breathing rates are utilized to assess risk for susceptible subpopulations such as children. For the inhalation pathway, the procedure requires the incorporation of several discrete variates to effectively quantify dose. Once determined, contaminant dose is multiplied by the cancer potency factor in units of inverse dose expressed in milligrams per kilogram per day $(mg/kg/day)^{-1}$ to derive the cancer risk estimate. Therefore, to accommodate the unique exposures associated with the proposed school population, the following dose algorithm was used.

$$CDI = (C_{air} \times EF \times ED \times IR) / (BW \times AT)$$

Where:

CDI	=	chronic daily intake (mg/kg/day)
C_{air}	=	concentration of contaminant in air ($\mu g/m^3$)
EF	=	exposure frequency (days/year)
ED	=	exposure duration (years)
IR	=	inhalation rate (m^3/day)
BW	=	body weight (kg)
AT	=	averaging time (days)

OEHHA and BAAQMD procedures require the incorporation of age sensitivity factors into the evaluation. For estimating cancer risk for school children for grades K-5, a cancer risk adjustment factor (CRAF) of 3 was applied.

The URFs used in the assessment and corresponding cancer potency factors were obtained principally from OEHHA guidance. For compounds not listed in the OEHHA database, toxicity values from the USEPA's Integrated Risk Information System (IRIS) or the American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs) were used.

To represent the unique characteristics of the school population, the assessment employed the USEPA's guidance to develop viable dose estimates based on reasonable maximum exposure, defined as the "highest exposure that is reasonably expected to occur" for a given receptor population. Lifetime risk values for the student population were adjusted to account for an exposure duration of 180 days per year for 9 years. OEHHA does not support the use of current cancer potency factor to evaluate cancer risk for exposures of less than 9 years. To assess staff-related risk, exposures were adjusted to account for an employment duration of 180 days per year for 25 years. This is considered appropriate for potential long-term exposures to both certificated and classified personnel, as per the latest OEHHA guidance (OEHHA, 2012).

Discrete variates for body weight and inhalation were obtained from relevant distribution profiles presented in the OEHHA guidance document, *Air Toxic Hot Spots Program Risk Assessment Guidelines, Part IV: Technical Support Document for Exposure Assessment and Stochastic Analysis*, and the USEPA's *Child-Specific Exposure Factors Handbook, Interim Report*.

Appendix E, Tables E1 and E2, columns f–g, present the URFs and corresponding cancer potency factors for carcinogens considered in the assessment. The cancer risk attributed to each chemical exposure and summation of those risks are presented in column h.

6.2 NONCARCINOGENIC HAZARDS

An evaluation of the potential noncancer effects of chronic chemical exposures was also conducted. Under the point estimate approach, adverse health effects are evaluated by comparing the annual ground level concentration of each chemical compound with the appropriate Reference Exposure Level (REL). Available RELs promulgated by OEHHA were considered in the assessment. For compounds not listed in the OEHHA database, RELs from the U. S. EPA Integrated Risk Information System were utilized.

When inhalation and/or oral toxicity values were not available from these sources, USEPA Region IX Preliminary Remediation Goal (PRG) values were used. And finally, if no information was available from any of the above sources, informal inhalation concentrations were developed by converting occupational exposure levels (i.e., Threshold Limit Values) derived by the American Conference of Governmental Industrial Hygienists to a lifetime exposure, as follows:

$$(\text{TLV in mg/m}^3) \times (10\ \text{m}^3/\text{day}) \times (5\ \text{days}/7\ \text{days}) \times (70\ \text{kg})^{-1} \times (\text{Uncertainty Factor of } 0.1) = \text{mg/kg/day}$$

The exposure level expressed in mg/kg/day may additionally be converted to μg/m3 by the following:

$$(\text{mg/kg/day}) \text{ X } (70\ \text{kg}) \text{ X } (1{,}000\ \mu\text{g/mg}) \ / \ (20\ \text{m}^3/\text{day}) = \mu\text{g/m}^3$$

To quantify noncarcinogenic impacts, the hazard index approach was used. The hazard index assumes that chronic subthreshold exposures adversely affect a specific organ or organ system (toxicological endpoint). For each discrete chemical exposure, target organs presented in regulatory guidance were used. To calculate the hazard index, each chemical concentration or dose is divided by the appropriate

toxicity value. For compounds affecting the same toxicological endpoint, this ratio is summed. Where the total equals or exceeds one, a health hazard is presumed to exist. In a manner consistent with the assessment of carcinogenic exposures, REL/RfC values were converted to units expressed in mg/kg/day to accommodate the above intake algorithm.

Appendix E, Tables E1 and E2, columns i–j, present the relevant exposure concentrations and corresponding reference dose values used in the evaluation of noncarcinogenic exposures. The noncancer hazard quotient for identified compounds generated from each source and a summation for each toxicological endpoint are presented in columns k–r.

6.3 $PM_{2.5}$ CONCENTRATIONS

Fine particulate matter, defined as particles having a diameter of 2.5 microns or less ($PM_{2.5}$), is one of the most harmful air pollutants in the San Francisco Bay Area Air Basin (SFBAAB) in terms of its impact on public health. Both long-term and short-term exposure to $PM_{2.5}$ can cause a wide range of health effects, as noted in Table 6.

Table 6
$PM_{2.5}$ AIR QUALITY STANDARD AND IMPACTS

Pollutant	California Standard	Health Effects
Particulates ($PM_{2.5}$)	>12 $\mu g/m^3$ (annual average)	1) Aggravates asthma and bronchitis 2) Causes hospital visits for respiratory and cardiovascular symptoms 3) Contributes to heart attacks and deaths 4) Causes changes in lung function and increased respiratory symptoms in children with absences from school.

Source: California Code of Regulations, Title 17, Section 70200.
ppm: parts per million
$\mu g/m^3$: micrograms per cubic meter

BAAQMD recommends characterizing potential health impacts from exposure to $PM_{2.5}$ by comparison with the applicable thresholds of significance, which are shown in Table 7.

Table 7
BAAQMD $PM_{2.5}$ Significance Thresholds

Pollutant	Significance Threshold Single Source	Significance Threshold Cumulative
Particulates ($PM_{2.5}$)	Incremental increase greater than 0.3 $\mu g/m^3$ – Annual average	Concentration greater than 0.8 $\mu g/m^3$ – Annual average from all sources

Sources: BAAQMD, 2011. *CEQA Air Quality Guidelines.*
$\mu g/m^3$: micrograms per cubic meter

It should be noted that BAAQMD has recently rescinded the significance thresholds as the result of a challenge from a recent lawsuit and requires lead agencies to set their own significance thresholds. For this assessment, it is assumed that the lead agency would adopt the BAAQMD significance thresholds.

6.4 ACCIDENTAL RELEASES

Under the auspices of the California Accidental Release Prevention (CalARP) Program, should a stationary source use more than a threshold quantity of a regulated substance, a risk assessment is required to be conducted pursuant to the provisions of the federal Accidental Release Prevention program (Title 40, Code of Federal Regulations, Part 68) Article 2, Chapter 6.95 of the Health and Safety Code.

A review of the available information collected during the source identification process (e.g., regulatory records review and on-site interviews with business owner/operators) did not reveal the presence of any CalARP program facilities within 0.25 mile of the proposed site.

7. Conclusions

The results from the ISCST3 model output and risk characterization are provided in Table 8 and compared to the BAAQMD significance thresholds.

Table 8
Health Risk Assessment Results

Source	Excess Cancer Risk - Staff	Excess Cancer Risk - Students	Chronic Hazard	$PM_{2.5}$ Concentration (ug/m^3)
B&M Auto Body	0.0	0.0	3.9E-05	NA
Locomotives	6.9E-07	1.2E-06	2.8E-03	0.014
SR-87	8.4E-07	1.5E-06	2.8E-03	0.042
BAAQMD Single Source Threshold	1.0E-05	1.0E-05	1.0	0.3
Exceeds Single Source Threshold	No	No	No	No
Cumulative Sources	1.5E-06	2.7E-06	0.006	0.056
BAAQMD Cumulative Source Threshold	100	100	10	0.8
Exceeds Cumulative Source Threshold	No	No	No	No

For carcinogenic exposures, the total risk was calculated to be 1.5E-06 (1.5 in a million) for adult school staff and 2.7E-06 (2.7 in a million) for students. In comparison to the threshold level referenced in Section 6.1 of ten in a million (1.0E-05), carcinogenic risks are well below the significance threshold for both school staff and students. For non-carcinogenic effects, the hazard index identified for each toxicological endpoint totaled less than one for both school staff and students. Therefore, chronic non-carcinogenic hazards are also well below the significance threshold.

For $PM_{2.5}$, the assessment determined that emissions generated by both the locomotives and the freeway were within acceptable limits and less than significance thresholds. Therefore, emissions of $PM_{2.5}$ from the adjacent freeway and trains would not pose a significant risk to staff and students at the school site.

It should be noted that these health impacts were based on conservative (i.e., health protective) assumptions. The USEPA (1989) and BAAQMD (2012) note that conservative assumptions used in a risk assessment are intended to ensure that the estimated risks do not underestimate the actual risks. Therefore, the estimated risks do not necessarily represent actual risks experienced by populations at or near a site. The use of conservative assumptions tends to produce upper-bound estimates of risk and tend to overestimate exposure and toxicity. For this school-based risk assessment, the following conservative assumptions were used:

- The exposure duration for children at the school was assumed to be 9 years, because OEHHA does not support the use of cancer potency factors for exposures of less than 9 years. However, the children will only be in attendance at the school for a period of 6 years (grades K-5). Therefore, the actual risk will be lower than the estimate.

- To determine the Maximum Exposed Individual (MEI), as reported in Table 8, it was assumed that children and staff at the school site stood outside at the property boundary nearest to the railroad right-of-way for 8 hours per day, 180 days/year for 9 years (children) or 25 years (staff). In reality, it is likely that students and staff will spend no more than 2 hours per day outdoors, which would result in a lower estimated risk value.

- The calculated risk for the school child is multiplied by a factor of 3 (age sensitivity factor) to account for early life exposure and uncertainty in child vs. adult exposure impacts. Thus, the estimated risks are likely to be overestimated.

- Exposure parameters such as breathing rates, body weight, and exposure time and frequency are high-end estimates, representing 80th and 90th percentile categories. The combination of several high-end estimates used as exposure parameters will result in an overestimate of chemical intake and risk.

- It also was assumed that the Caltrain electrification project would not occur during the 9-year or 25-year exposure periods for students and staff at the proposed school site. However, Caltrain is planning to convert the Caltrain mainline between San Francisco and Tamien from the current diesel electric power source to a fully electric rolling stock by 2019 (Caltrain, 2012). Electrification would improve service times and reduce emissions by over 90%, which would result in risk levels that are even lower than the calculated values.

Based on a comparison to the OEHHA and BAAQMD thresholds, hazardous air emissions generated from stationary sources within a ¼-mile radius, vehicles and trucks traveling along State Route 87, and locomotives traveling in the right-of-way next to the school site are not anticipated to pose an excess cancer risk or health hazard to occupants at the proposed charter elementary school.

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Appendix A.
Emission Sources

BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

SINCE 1955

ALAMEDA COUNTY
Tom Bates
(Chairperson)
Scott Haggerty
Jennifer Hosterman
Nate Miley

CONTRA COSTA COUNTY
John Gioia
(Vice-Chair)
David Hudson
Mark Ross
Gayle B. Uilkema

MARIN COUNTY
Harold C. Brown, Jr.

NAPA COUNTY
Brad Wagenknecht

SAN FRANCISCO COUNTY
John Avalos
Edwin M. Lee
Eric Mar

SAN MATEO COUNTY
Carole Groom
Carol Klatt

SANTA CLARA COUNTY
Susan Garner
Ash Kalra
(Secretary)
Liz Kniss
Ken Yeager

SOLANO COUNTY
James Spering

SONOMA COUNTY
Susan Gorin
Shirlee Zane

Jack P. Broadbent
EXECUTIVE OFFICER/APCO

July 19, 2012

Mr. Noah Hornsby
Staff Engineer
Cornerston Earth Group
1259 Oakmead Parkway
Sunnyvale, California 94085

Re: Proposed Site at the site located at 1193 Lick Avenue, San Jose.

Dear Mr. Hornsby:

I am writing in response to your records request dated July 12, 2012, in which you request that the District identify sources of hazardous air emissions located within one-quarter mile of the above site in San Jose.

The Bay Area Air Quality Management District staff has identified one facility within prescribed one-quarter mile of the site. The actual distance can vary slightly from the information provided and may perhaps merit additional measurement to be verify the actual distance. The search radius is usually increased to ½ mile to provide information on sources that are located near the edge of the search radius.

The results of the search are as follows:

Six facilities were found within the extended ½ mile radius. Three of the 6 facilities had hazardous air emissions. None of the emissions from any of the listed facilities were above toxic risk screen trigger levels. Only two facilities were within the ¼ mile radius. The 2011 emissions from all of the listed facilities with hazardous emissions are attached for your reference.

B & M Auto Body (11801)
1035 Pepitone Avenue
San Jose, CA 95110

Almaden Welding (16666)
231 W Alma Avenue
San Jose, CA 95110

Atlantic Richfield Company c/o Stantec (16690)
545 W Alma Avenue
San Jose, CA 95125

Cleaning & Alteration Shop (17317)
571 W Alma Street
San Jose, CA 95103

Sierra Environmental, Inc (20366)
150 Willow Street
San Jose, CA 95110

Tamien Place Investors, LLC (18009)
1275 Lick Avenue
San Jose, CA 95103

Spare the Air
The Air District is a Certified Green Business
Printed using soy-based inks on 100% post-consumer recycled content paper
San Francisco Green Business

Additionally, two Gas Dispensing facilities were identified. Neither facility was within ¼ mile radius:

T & T Auto Service and Gas Station (9561)
150 W Willow Street
San Jose, CA 95110

ARCO Facility #05384- Daven Loomba (10806)
545 W Alma Avenue
San Jose, CA 95125

The source of hazardous air emissions from these gasoline dispensing operations emit small quantities of benzene and several other hazardous air pollutants. Their emissions prioritization is attached for your reference.

Please be advised, however, that this statement applies only to the emission of hazardous air pollutants. A facility that does not emit, but does store, hazardous materials on site is not required to report the fact of such storage to this agency. We do not normally have any knowledge of the existence of such facilities. Accordingly, if you become aware of the existence of any facility within ¼ mile of the proposed site which stores, but does not emit, hazardous materials you should contact that facility directly.

Please feel free to call me at (415) 749-4677 for more information concerning the emissions from these facilities or our Section's Acting Manager, Joeseph Slamovich at (415) 749-4681, if you wish to discuss the District's Risk Policies further.

Sincerely,

Marc Nash
Toxics Evaluation Section

MAN:mn

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
DETAIL POLLUTANTS - ABATED
P/O APPROVED (2011)

Printed: JUL 18, 2012
PAGE No. 1

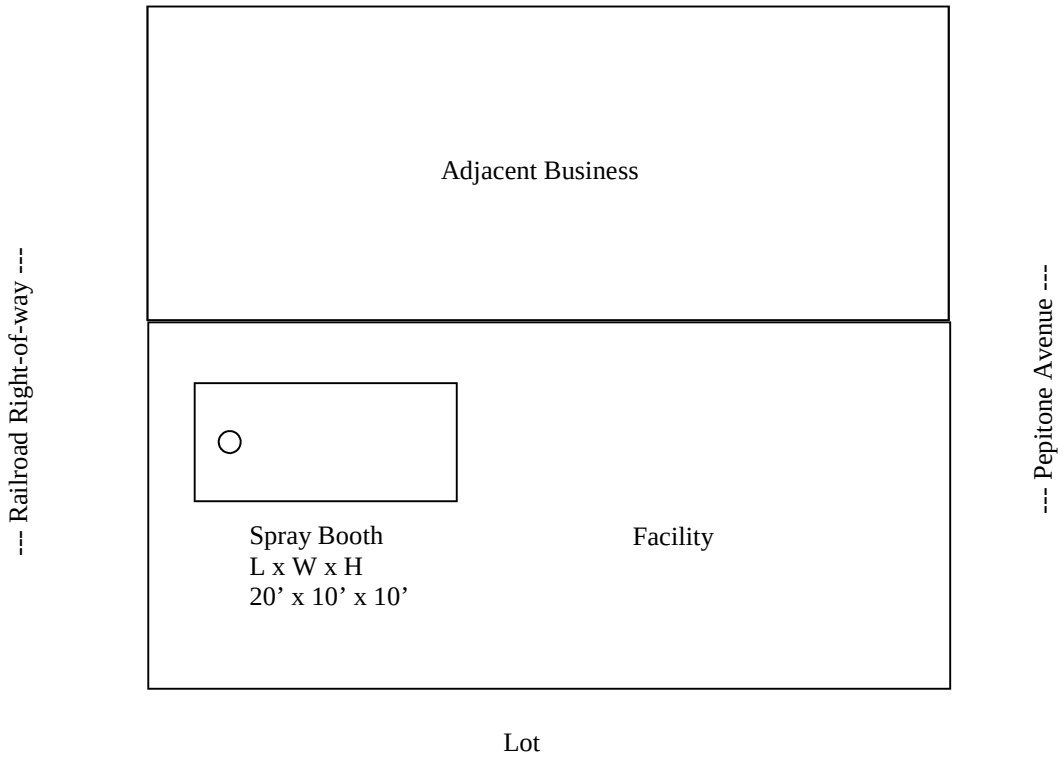
B & M Auto Body (P# 11801)

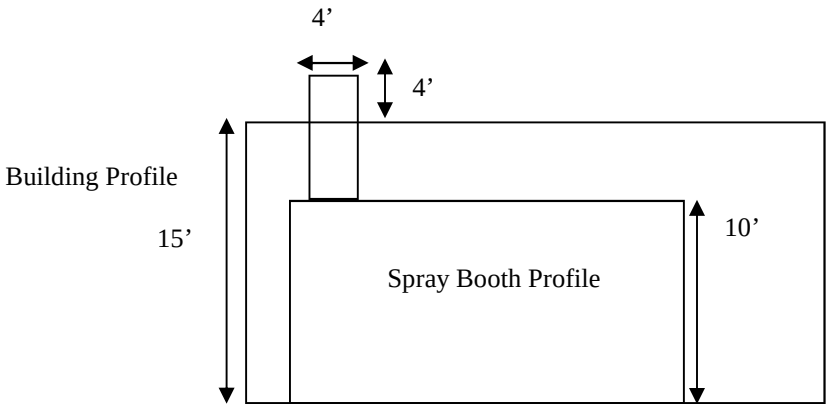
S#	Source Name/Material	Source Code	Throughput	Date	Pollutant	Code	lbs/day
1	Spray Booth						
		SG54A048			Butyl acetate	48	5.61E-02
					Organic liquid - other/not s	201	1.08E-01
					Toluene	293	2.90E-02
		SG64C522			Organic liquid - other/not s	201	2.41E-02
					Butyl cellosolve	522	1.30E-03
					Propylene glycol monomethyl	579	5.19E-04
		SG700318			Hydrocarbon - mixtures, othe	318	9.58E-02

Appendix B.
Graphical Representation of Emitting Sources

Source 1
B&M Auto Body Shop
1035 Pepitone Avenue
San Jose, CA 95110
Monday - Saturday: 9:00 AM - 6:00 PM

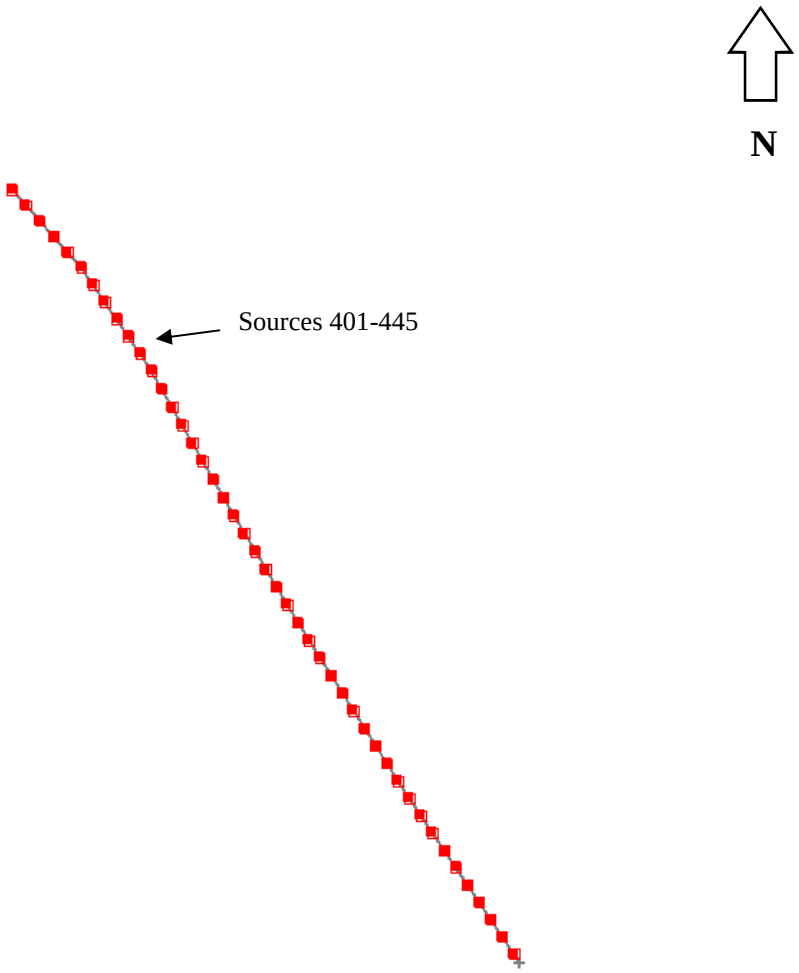
Chemical and Use Rate
Paint: 0.32 pounds per day (BAAQMD facility information)





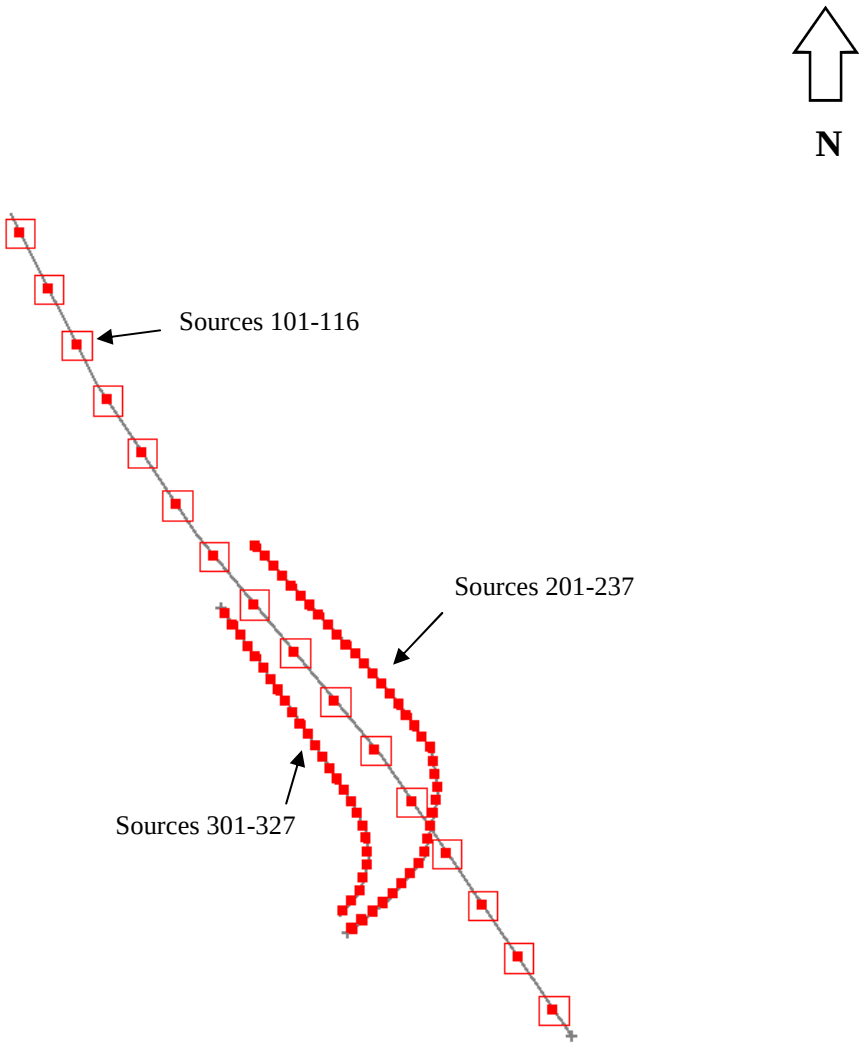
Source 2
Caltrain—Locomotives

Sources 401-445



Source 3
State Route 87

Sources 101-116, State Route 87 (Mile Posts 4.035 through 4.624)
Sources 201-237, Onramp from Lelong Street to NB Lanes (Mile Post 4.364)
Sources 301-327, Offramp to Lelong Street from SB Lanes (Mile Post 4.355)



Appendix C.
Emission Rate Calculations

Source 1
B&M Body Shop
1035 Pepitone Avenue
San Jose, CA 95110

Operation: Automotive Spraybooth

	hours	days	weeks
Temporal Profile:	9	5	52
	9	1	52

Materials:

Paint Water based PPG Paint - Envirobase/Aquabase Plus

Emissions: Average Monthly (from BAQMD printout)

Paint	0.32	lbs/day
	0.035	lbs/hr
	0.00441	gm/sec

Speciation: [1]

		Compound Wt Fraction	Compound Emissions	
Paint	Butyl acetate	0.180	7.94E-04	
	Toluene	0.090	3.97E-04	
	Butyl cellusolve	0.004	1.76E-05	
	Propylene glycol monomethyl ether	0.001	4.41E-06	
	Other - not specified	0.725	3.20E-03	
	Total	1.00	4.41E-03	gm/sec

(1) Speciation information from BAAQMD printout and PPG MSDS sheets

Source 2
Locomotives - Tracks Adjacent and West of School Site

Diesel Particulate Matter (DPM) Emissions
Caltrain, Amtrak, and UP trains

Number of Sources	45	
Link Length (feet)	2,600	
Link Length (meters)	792.48	
Trains passing by site during school hours[1]	15	
School hours (8 am to 4 pm)	8	
Trains per hour	1.875	
Engine - based on locomotive for Caltrain F40PH	EMD 16-645-E3	
Speed (mph) - based on stopping at adjacent Tamien station	20	
Throttle notch	3	
Emission rate per locomotive[2]	0.11	gm/bhp-hr
Bhp for EMD 16-645-E3 in throttle notch 3	721	
Emission rate	79.31	gm/hr
Adjustment for low sulfur fuel - Bay Area[2]	0.709	
Ajustment for DPM as percentage of PM	0.92	
Adjusted emission rate/locomotive	52	gm/hr
No. of trains/hour	1.875	
Total hourly emission rate	97	gm/hr
	0.027	gm/sec
Mass Emission Rate (grams/sec/source)	5.99E-04	gm/sec/source

(1) Based upon latest Caltrain and Amtrak schedule and freight traffic from *Caltrain Positive Train Control System* (2010) - 10 Caltrain trains, one Amtrak Coast Starlight, and 4 UP freight trains/day
(2) Emission rate from USEPA document *Emission Factors from Locomotives* (EPA-420-F-09-025), Table 1
Adjusted based on locomotive replacement for Caltrain, as shown below
Fuel adjustment of 0.709 from *Offroad Modeling Change Technical Memo* (Wong, 2006)
Adjustment for DPM as 92% of PM emissions (Caltrain Electrification EA/EIR, 2009)

	Emission factor (gm/bhp-hr)	2013	2015	2020		
Tier 0+	0.2	100%	50%	10%	Fleet	
Tier 4	0.015	0%	50%	90%	Distribution	
Emission factor (gm/bhp-hr)		0.2	0.108	0.03	0.11	weighted average

Release height for daytime conditions - 5.6 m - Health Risk Assessment for UP Oakland Railyard, 2008
σ_z = 2.6 m for daytime conditions - Health Risk Assessment for UP Oakland Railyard, 2008
σ_y = 8.5 m based on spacing of sources and assuming width of tracks of 60 feet near school site

Scalar applied for HROFDY in ISTST3 Model

Travel distance of train	2,600	ft
Speed of train	20	mph
Time for train to pass by school site	0.025	hours/train
No. of trains per hours	1.875	
Hourly scalar	0.047	

Mobile Sources

Vehicle Fleet Mix Composition

Route:	87
Post Mile:	4.035-4.624

AADT Total	Total Trucks	Truck %/100	2 axle vol	3 axle vol	4 axle vol	5 axle vol	2 axle %	3 axle %	4 axle %	5 axle %
157000	3752	0.024	2023	516	194	971	0.546	0.139	0.052	0.262

Fleet Mix Computation w/ Truck Volume Adjustment

Non-HDT	0.976
2-axle	0.013
3-axle	0.003
4-axle	0.001
5-axle	0.006
	1.000

Fleet Mix Computation w/ Time of Day Adjustment

Non-HDT	1.36	1.327	0.972
2-axle	1.74	0.023	0.017
3-axle	1.82	0.006	0.004
4-axle	1.55	0.002	0.001
5-axle	1.23	0.008	0.006
		1.366	1.000

Corrected Fleet Mix (EMFAC7F Vehicle Classes)

LDA	0.7775
LDT	0.1361
MDT	0.0486
HDGT	0.0096
HDDT	0.0186
MCY	0.0097
	1.000

Source: UCD, Institute of Transportation Studies, *Transporation Project-Level Carbon Monoxide Protocol*. UCD-ITS-RR-96-1

EMFAC Worksheet

Model Version	:	Emfac 2007 V2.3
Run Date		9/10/2012
Scen Year	:	2013 (Model Years 1971-2013)
Location	:	Los Angeles County
Season	:	Annual
Temperature	:	All
Relative Humidity	:	All

Table A: Estimated Travel Fractions

	LDA NCAT	LDA CAT	LDA DSL	LDA ALL	LDT1 NCAT	LDT1 CAT	LDT1 DSL	LDT1 ALL	LDT2 NCAT	LDT2 CAT	LDT2 DSL	LDT2 ALL
%VEH	0.002	0.549	0.001	0.553	0.001	0.113	0.003	0.117	0.001	0.205	0	0.206
	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL
%VEH	0	0.062	0	0.062	0	0.005	0.002	0.007	0	0.003	0.002	0.006
	MHD NCAT	MHD CAT	MHD DSL	MHD ALL	HHD NCAT	HHD CAT	HHD DSL	HHD ALL	OBUS NCAT	OBUS CAT	OBUS DSL	OBUS ALL
%VEH	0	0.002	0.006	0.008	0	0	0.003	0.003	0	0	0	0.001
	UBUS NCAT	UBUS CAT	UBUS DSL	UBUS ALL	MCY NCAT	MCY CAT	MCY DSL	MCY ALL	SBUS NCAT	SBUS CAT	SBUS DSL	SBUS ALL
%VEH	0	0	0	0	0.016	0.013	0	0.029	0	0	0.001	0.001
	MH NCAT	MH CAT	MH DSL	MH ALL	ALL NCAT	ALL CAT	ALL DSL	ALL ALL				
%VEH	0	0.006	0.001	0.007	0.021	0.959	0.02	1				

Table B: Travel Fractions (Emfac2007 Format/Vehicle Classifications)

Class	NCAT	CAT	DSL
LDA	0.002	0.549	0.001
LDT	0.002	0.318	0.003
MDT	0.000	0.070	0.004
HDTG	0.000	0.008	0.000
HDTD	0.000	0.000	0.011
MCY	0.016	0.013	0.000

Table C: Travel Fractions (Emfac2007 Format/Vehicle Classifications)

Class	NCAT	CAT	DSL
LDA	0.36	99.46	0.18
LDT	0.62	98.45	0.93
MDT	0.00	94.59	5.41
HDTG	0.00	100.00	0.00
HDTD	0.00	0.00	100.00
MCY	55.17	44.83	0.00

EMFAC Worksheet

Table D: Vehicle Fleet Mix

Class	Fraction
LDA	0.7775
LDT	0.1361
MDT	0.0486
HDTG	0.0096
HDTD	0.0186
MCY	0.0097

Table E: Population Profile (Emfac2007 Format/Vehicle Classifications)

AADT 157,000

Class	All	Fraction	Gas	Fraction	Diesel	Fraction
LDA	122067	1.000	121846	0.998	221	0.002
LDT1	7738	0.362	7539	0.974	198	0.026
LDT2	13624	0.638	13624	1.000	0	0.000
MDV	6392	0.838	6392	1.000	0	0.000
LHD1	722	0.095	515	0.714	206	0.286
LHD2	515	0.068	309	0.600	206	0.400
MHD	1859	0.421	465	0.250	1394	0.750
HHD	697	0.158	0	0.000	697	1.000
SB	232	0.053	0	0.000	232	1.000
MH	1627	0.368	1394	0.857	232	0.143
MCY	1526	1.000	1526	1.000	0	0.000
LH	0	0.000	0	0.000	0	0.000
URB	0	0.000	0	0.000	0	0.000
Total	157000		**153612**		**3388**	

Traffic and Vehicle Data Systems Unit

2011 All Traffic Volumes on CSHS

Home View

Dist	Rte	CO	Post Mile	Description	Back Peak Hour	Back Peak Month	Back AADT	Ahead Peak Hour	Ahead Peak Month	Ahead AADT
4	87	SCL	0	SAN JOSE, JCT. RTE 85				6300	85000	84000
4	87	SCL	1.34	SAN JOSE, TERESA BLVD	8300	114000	111000	9100	124000	121000
4	87	SCL	2.826	CURTNER AVE	9100	124000	121000	8700	119000	116000
4	87	SCL	3.563	ALMADEN EXPRESSWAY	8700	119000	116000	10400	142000	138000
4	87	SCL	4.35	SAN JOSE, LELONG ST	10400	142000	138000	11600	163000	157000
4	87	SCL	5.156	SAN JOSE, JCT. RTE. 280	11600	163000	157000	7000	98000	94000
4	87	SCL	6.1	SAN JOSE, JULIAN ST	7000	98000	94000	7700	108000	104000
4	87	SCL	6.69	W. TAYLOR	7700	108000	104000	5600	79000	76000
4	87	SCL	8.755	AIRPORT PARKWAY	5600	79000	76000	5000	71000	68000
4	87	SCL	9.22	JCT. RTE. 101	5000	71000	68000			
10	88	SJ	0	JCT. RTE. 99; STOCKTON WEST				2800	26500	24100
10	88	SJ	0.4	WILCOX RD	1400	19300	17000	1400	19300	17000
10	88	SJ	1.77	WHITE LANE	1500	14800	13800	1350	13000	12300
10	88	SJ	2.22	FAIRCHILD LANE	1350	12800	12200	1100	11700	10800
10	88	SJ	4.94	WATERLOO, FERGUSON/COMSTOCK	870	8600	7500	700	7200	6500
10	88	SJ	6.518	EIGHT MILE RD	780	7500	6700	950	9600	9000
10	88	SJ	9.61	HARNEY LANE	820	9200	8100	970	11100	9800
10	88	SJ	12.24	LOCKEFORD, JCT. RTE. 12 W	980	11800	10700	1500	18200	17700
10	88	SJ	13.6	JACKTONE RD	1500	18000	15400	1850	20400	16400
10	88	SJ	14.08	ELLIOTT/TULLY RD	1850	20100	16400	1700	17400	14200

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RTE	DIST	CNTY	POST MILE	LEG	DESCRIPTION	VEHICLE AADT TOTAL	TRUCK AADT TOTAL	TRUCK % TOT VEH	TRUCK AADT TOTAL ---- By Axle ---- 2	3	4	5+	% TRUCK AADT ---- By Axle ---- 2	3	4	5+	EAL 2-WAY (1000)	YEAR VER/ EST
087	04	SCL	0	A	SAN JOSE, JCT. RTE 85	83,000	266	0.32	246	6	12	2	92.65	2.21	4.41	0.74	12	01V
087	04	SCL	2.826	B	CURTNER AVENUE	120,000	2,040	1.70	1,410	349	63	218	69.10	17.10	3.10	10.70	166	95V
087	04	SCL	3.563	A	ALMADEN EXPRESSWAY	136,000	3,482	2.56	1,685	371	191	1,236	48.38	10.65	5.48	35.49	548	01V
087	04	SCL	5.156	B	SAN JOSE, JCT. RTE. 280	155,000	3,705	2.39	2,023	516	194	971	54.60	13.94	5.24	26.22	482	01V
087	04	SCL	5.156	A	SAN JOSE, JCT. RTE. 280	93,000	3,441	3.70	2,471	447	117	406	71.80	13.00	3.40	11.80	285	95V
087	04	SCL	9.22	B	JCT. RTE. 101	67,000	2,010	3.00	1,166	287	141	416	58.00	14.30	7.00	20.70	231	95V

04-SCL-087

P P POST MILE	P S DESCRIPTION	2002 ADT	2003 ADT	2004 ADT	2005 ADT	2006 ADT	2007 ADT	2008 ADT	2009 ADT	2010 ADT	2011 ADT
000.079	INT W/ NB RTE 85 RAMPS						12800				
000.423	LT END SANTA TERESA									14300	
000.453	NOSE RT END SANTA TERESA									13200	
001.216	SB ON FR CAPITOL EXPWY.			11100			12500			13700	
001.325	NB OFF TO CAP.EXP\NAVARE			9900						11300	
001.526	NB ON FR CAP.EXP\NAVAREZ			16500						17700	
001.536	SB OFF TO CAPITOL EXPWY.			17700			18700			19500	
002.662	SB ON FR EB CURTNER AVE.			5500			6500			6200	
002.712	NB OFF TO CURTNER AVE.			9900			11000			11500	
002.873	SB ON FR WB CURTNER AVE.			5700			5700			6400	
003.033	SB OFF TO CURTNER AVE.			6600			7700			9100	
003.066	NB ON FR CURTNER AVE.			8700			9500			11400	
003.478	SB OFF TO ALMADEN EXPWY			11000			11900			13100	
003.543	NB ON FR ALMADEN EXPWY			8300			8600			8800	
004.355	SB OFF TO LELONG ST.			8600			4550			9300	
004.364	NB ON FR LELONG ST.			10000			11200			10200	
004.881	NB OFF TO RTE 280			38500						43000	
004.904	SB ON FR RTE 280									43500	
004.993	NB OFF SEG TO SB 280			20500						21800	
004.994	NB OFF TO SEG NB 280			19500						21500	
005.034	NB OFF TO TECH CNTR PWY						3750			3800	
005.258	SB ON FR AUZERAIS\DELMS			5400			5200			5600	

Title : Highway 87 Health Risk Assessment
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 2012/09/10 19:27:33
Scen Year: 2013 -- All model years in the range 1969 to 2013 selected
Season : Annual
Area : Santa Clara
****
Year: 2013 -- Model Years 1969 to 2013 Inclusive -- Annual
Emfac2007 Emission Factors: V2.3 Nov 1 2006

County Average Santa Clara County Average

Table 7: Estimated Travel Fractions

Pollutant Name: Temperature: ALL Relative Humidity: ALL

	LDA NCAT	LDA CAT	LDA DSL	LDA ALL	LDT1 NCAT	LDT1 CAT	LDT1 DSL	LDT1 ALL	LDT2 NCAT	LDT2 CAT	LDT2 DSL	LDT2 ALL
%VEH	0.002	0.549	0.001	0.553	0.001	0.113	0.003	0.117	0.001	0.205	0	0.206
	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL
%VEH	0	0.062	0	0.062	0	0.005	0.002	0.007	0	0.003	0.002	0.006
	MHD NCAT	MHD CAT	MHD DSL	MHD ALL	HHD NCAT	HHD CAT	HHD DSL	HHD ALL	OBUS NCAT	OBUS CAT	OBUS DSL	OBUS ALL
%VEH	0	0.002	0.006	0.008	0	0	0.003	0.003	0	0	0	0.001
	UBUS NCAT	UBUS CAT	UBUS DSL	UBUS ALL	MCY NCAT	MCY CAT	MCY DSL	MCY ALL	SBUS NCAT	SBUS CAT	SBUS DSL	SBUS ALL
%VEH	0	0	0	0	0.016	0.013	0	0.029	0	0	0.001	0.001
	MH NCAT	MH CAT	MH DSL	MH ALL	ALL NCAT	ALL CAT	ALL DSL	ALL ALL				
%VEH	0	0.006	0.001	0.007	0.021	0.959	0.02	1				

Emission Factor Rate Adjustment Worksheet

TOG Emissions

Acceleration / On-Ramp (15 - 45 mph)

Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)

emfac at link speed	0.0797
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50
Emfac (gr/mi)	**0.190**

Deceleration / Off-Ramp (5 mph)

*Emfac (gr/mi) = (emfac at idle speed * 1.5)*

emfac at idle speed (gr/mi)	0.649
Emfac (gr/mi)	**0.973**

Diesel Particulate Emissions

Acceleration / On-Ramp (15 - 45 mph)

Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)

emfac at link speed	0.2015
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50
Emfac (gr/mi)	**0.479**

Deceleration / Off-Ramp (5 mph)

*Emfac (gr/mi) = (emfac at idle speed * 1.5)*

emfac at idle speed (gr/mi)	0.4456
Emfac (gr/mi)	**0.668**

CO Emissions

Acceleration / On-Ramp (15 - 45 mph)

Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)

emfac at link speed	1.927
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50
Emfac (gr/mi)	**4.583**

Deceleration / Off-Ramp (5 mph)

*Emfac (gr/mi) = (emfac at idle speed * 1.5)*

emfac at idle speed (gr/mi)	6.509
Emfac (gr/mi)	**9.763**

Emission Factor Rate Adjustment Worksheet

NOx Emissions

Acceleration / On-Ramp (15 - 45 mph)

Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)

emfac at link speed	0.5416
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50
Emfac (gr/mi)	**1.288**

Deceleration / Off-Ramp (5 mph)

*Emfac (gr/mi) = (emfac at idle speed * 1.5)*

emfac at idle speed (gr/mi)	2.924
Emfac (gr/mi)	**4.386**

Emission Factor Profile Worksheet

FLEET MIX COMPUTATION / GASOLINE (TOG)

U.S. EPA Mobile Fleet Mix Categories		California Mobile Fleet Mix Categories
LDGV	Light Duty Auto/Gas	LDA/LDT (Gas)
LDDV	Light Duty Auto/Diesel	LDA/LDT (Diesel)
LDGT1	Light Duty Truck/Gas (<6500 lbs)	(average NCAT/CAT percentages into LDA/LDT categories)
LDGT2	Light Duty Truck/Gas (>6500 lbs)	MDT
LDDT	Light Duty Truck/Diesel (<8500 lbs)	(use LDT Diesel percentage as surrogate for category)
HDGV	Heavy Duty Truck/Gas (>8500 lbs)	HDG
HDDV	Heavy Duty Truck/Diesel (>8500 lbs)	HDD
MC	Motorcycle	MCY

Project Fleet Mix (Emfac7F format)		Travel Fractions/%Vehicle NCAT	CAT
LDA	55.3	0.36	99.64
LDT	32.4	0.63	99.38
MDT	7.5	0.00	100.00
HDTG	2.00	0.00	100.00
MCY	2.80	55.17	44.83
Total	100.0		

Adjusted Fleet Mix	Percent/100
LDA/LDT - CAT	0.873
LDA/LDT - NCAT	0.004
MDT - CAT	0.075
MDT - NCAT	0.000
HDG - CAT	0.020
HDG - NCAT	0.000
MCY - CAT	0.013
MCY - NCAT	0.015

TOXIC EMISSIONS

Compound: Benzene

Vehicle Fleet	TOG/Toxic Emission Fractions Exhaust	Composite Emission Fractions Exhaust
LDA/LDT - CAT	0.04220	0.03684
LDA/LDT - NCAT	0.02740	0.00011
MDT - CAT	0.04220	0.00317
MDT - NCAT	0.02740	0.00000
HDG -CAT	0.04220	0.00084
HDG - NCAT	0.02740	0.00000
MCY - CAT	0.04220	0.00053
MCY - NCAT	0.02740	0.00042
	Total	0.04191

Compound: Formaldehyde

Vehicle Fleet	TOG/Toxic Emission Fractions Exhaust	Composite Emission Fractions Exhaust
LDA/LDT - CAT	0.01300	0.01135
LDA/LDT - NCAT	0.03740	0.00015
MDT - CAT	0.01300	0.00098
MDT - NCAT	0.03740	0.00000
HDG -CAT	0.01500	0.00030
HDG - NCAT	0.04310	0.00000
MCY - CAT	0.01300	0.00016
MCY - NCAT	0.03740	0.00058
	Total	0.01352

Emission Factor Profile Worksheet

Compound: 1,3-Butadiene

Vehicle Fleet	TOG/Toxic Emission Fractions Exhaust	Composite Emission Fractions Exhaust
LDA/LDT - CAT	0.00560	0.00489
LDA/LDT - NCAT	0.01150	0.00005
MDT - CAT	0.00560	0.00042
MDT - NCAT	0.01150	0.00000
HDG -CAT	0.00560	0.00011
HDG - NCAT	0.01150	0.00000
MCY - CAT	0.00560	0.00007
MCY - NCAT	0.01150	0.00018
	Total	0.00571

Compound: Acetaldehyde

Vehicle Fleet	TOG/Toxic Emission Fractions Exhaust	Composite Emission Fractions Exhaust
LDA/LDT - CAT	0.00500	0.00436
LDA/LDT - NCAT	0.00820	0.00003
MDT - CAT	0.00500	0.00038
MDT - NCAT	0.00820	0.00000
HDG -CAT	0.00500	0.00010
HDG - NCAT	0.00830	0.00000
MCY - CAT	0.00500	0.00006
MCY - NCAT	0.00820	0.00013
	Total	0.00506

TOG Emisson Rate - Exhaust 0.0839 grams/mile Total-gr/mi
(Average Route Speed 55 MPH)

Benzene	0.003516
Formaldehyde	0.001134
1,3-Butadiene	0.000479
Acetaldehyde	0.000425

TOXIC EMISSIONS - Mass Emission Rate Total

Exhaust / Average Route Speed 55 MPH (grams/mile) **0.005555**

Normalized Weight Fraction / Speciation

Benzene	0.633
Formaldehyde	0.204
1,3-Butadiene	0.086
Acetaldehyde	0.076

Note: Fleet mix normalized for the NCAT and CAT travel fractions.

TOG Emisson Rate - Exhaust 0.190 grams/mile Total-gr/mi
(Average Route Speed 45 MPH) - Onramps

Benzene	0.007945
Formaldehyde	0.002562
1,3-Butadiene	0.001083
Acetaldehyde	0.000960

TOXIC EMISSIONS - Mass Emission Rate Total

Exhaust / Average Route Speed 45 MPH (grams/mile) **0.012551**

Normalized Weight Fraction / Speciation

Benzene	0.633
Formaldehyde	0.204
1,3-Butadiene	0.086
Acetaldehyde	0.076

Note: Fleet mix normalized for the NCAT and CAT travel fractions.

Emission Factor Profile Worksheet

TOG Emisson Rate - Exhaust (Average Route Speed 5 MPH) - Offramps	0.973 grams/mile	Total-gr/mi
Benzene		0.040782
Formaldehyde		0.013151
1,3-Butadiene		0.005561
Acetaldehyde		0.004926
TOXIC EMISSIONS - Mass Emission Rate		Total
Exhaust / Average Route Speed 5 MPH (grams/mile)		**0.064419**

Normalized Weight Fraction / Speciation

Benzene	0.633
Formaldehyde	0.204
1,3-Butadiene	0.086
Acetaldehyde	0.076

Note: Fleet mix normalized for the NCAT and CAT travel fractions.

Emission Factor Profile Worksheet

FLEET MIX COMPUTATION / DIESEL
U.S. Route 101

U.S. EPA Mobile Fleet Mix Categories		California Mobile Fleet Mix Categories
LDGV	Light Duty Auto/Gas	LDA/LDT (Gas)
LDDV	Light Duty Auto/Diesel	LDA/LDT (Diesel)
LDGT1	Light Duty Truck/Gas (<6500 lbs)	(average NCAT/CAT percentages into LDA/LDT categories)
LDGT2	Light Duty Truck/Gas (>6500 lbs)	MDT
LDDT	Light Duty Truck/Diesel (<8500 lbs)	(use LDT Diesel percentage as surrogate for category)
HDGV	Heavy Duty Truck/Gas (>8500 lbs)	HDG
HDDV	Heavy Duty Truck/Diesel (>8500 lbs)	HDD
MC	Motorcycle	MCY

Project Fleet Mix (Emfac7F format)		Travel Fractions/%Vehicle DSL
LDA	5.30	100.00
LDT	15.40	100.00
MDT	21.4	100.00
HDTD	57.9	100.00
Total	100.0	

Adjusted Fleet Mix	Percent/100
LDA/LDT (Diesel)	0.207
MDT (Diesel)	0.214
HDD	0.579

PARTICULATE EMISSIONS - PM10

Vehicle Fleet	PM10 Emission Fractions Exhaust	Composite Emission Fractions Exhaust
LDA/LDT (Diesel)	1.00000	0.20700
MDT (Diesel)	1.00000	0.21400
HDD	1.00000	0.57900
		Total 1.00000

Particulate Mass Emission Rate - Exhaust 0.229 grams/mile
(Average Route Speed 55 MPH)

Total-gr/mi

0.229

Note: Fleet mix normalized for the DSL travel fractions.

Emission Factor Profile Worksheet

PARTICULATE EMISSIONS - PM10

Vehicle Fleet	PM10 Emission Fractions Exhaust	Composite Emission Fractions Exhaust
LDA/LDT (Diesel)	1.00000	0.20700
MDT (Diesel)	1.00000	0.21400
HDD	1.00000	0.57900
		Total 1.00000

Particulate Mass Emission Rate - Exhaust (Average Route Speed 45 MPH) - Onramps	0.479	grams/mile	Total-gr/mi **0.479**

Note: Fleet mix normalized for the DSL travel fractions.

PARTICULATE EMISSIONS - PM10

Vehicle Fleet	PM10 Emission Fractions Exhaust	Composite Emission Fractions Exhaust
LDA/LDT (Diesel)	1.00000	0.20700
MDT (Diesel)	1.00000	0.21400
HDD	1.00000	0.57900
		Total 1.00000

Particulate Mass Emission Rate - Exhaust (Average Route Speed 5 MPH) - Offramps	0.668	grams/mile	Total-gr/mi **0.668**

Note: Fleet mix normalized for the DSL travel fractions.

Title : EMFAC 2013 TOG
Version : Emfac2007 V2.3 Nov 1 2006 ** WIS Enabled **
Run Date : 2012/09/11 17:36:51
Scen Year: 2013 -- All model years in the range 1969 to 2013 selected
Season : Annual
Area : Santa Clara
****

Table 7: Estimated Travel Fractions

Pollutant Name: Temperature: ALL Relative Humidity: ALL

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VEH	0.553	0.324	0.075	0.020	0.000	0.029	1.000

Title : Diesel Run
Version : Emfac2007 V2.3 Nov 1 2006 ** WIS Enabled **
Run Date : 2012/09/11 18:34:40
Scen Year: 2013 -- All model years in the range 1969 to 2013 selected
Season : Annual
Area : Santa Clara
****

Title : Diesel Run
Version : Emfac2007 V2.3 Nov 1 2006 ** WIS Enabled **
Run Date : 2012/09/11 18:34:40
Scen Year: 2013 -- All model years in the range 1969 to 2013 selected
Season : Annual
Area : Santa Clara
****

Table 7: Estimated Travel Fractions

Pollutant Name: Temperature: ALL Relative Humidity: ALL

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VEH	0.053	0.154	0.214	0.564	0.015	0.000	1.000

EMFAC 2011 Output Calculations
2013 Estimated Annual Emission Rates
EMFAC 2007 Vehicle Categories
Santa Clara COUNTY
San Francisco Bay Area AIR BASIN
Bay Area AQMD

TOTAL EMISSION RATES (g/mi)

55 mph - Freeway Running Emission Rates

	TOG	PM10	CO	NOx
Gas	**0.0839**			
DSL		**0.2290**		
Total			**1.8807**	**0.8158**

		55 MPH								
		VMT (Mi/day)	TOG (g/mi)	TOG Weighted	PM10 (g/mi)	PM10 Weighted	CO (g/mi)	CO Weighted	NOx (g/mi)	NOx Weighted
LDA	GAS	1984079	0.051282	101747	0.001711	3394	1.33608	2650889	0.142922	283569
LDA	DSL	6487.326	0.050439	327	0.032698	212	0.232413	1508	0.730746	4741
LDT1	GAS	210174.5	0.131616	27662	0.003993	839	3.368935	708064	0.38543	81008
LDT1	DSL	288.2634	0.086817	25	0.064191	19	0.347287	100	0.905727	261
LDT2	GAS	668795.4	0.059214	39602	0.001656	1108	1.711662	1144751	0.252128	168622
LDT2	DSL	293.0722	0.067358	20	0.048224	14	0.283908	83	0.879495	258
LHD1	GAS	33562.39	0.075775	2543	0.001063	36	1.668291	55992	0.728303	24444
LHD1	DSL	29592.91	0.145042	4292	0.029837	883	0.601471	17799	5.096426	150818
LHD2	GAS	2961.868	0.080979	240	0.001191	4	2.019433	5981	0.76034	2252
LHD2	DSL	9755.28	0.134055	1308	0.028421	277	0.565933	5521	4.749808	46336
MCY	GAS	21202.41	3.179785	67419	0.001025	22	33.37721	707677	1.351517	28655
MDV	GAS	455714.7	0.0868	39556	0.001843	840	2.372102	1081002	0.395759	180353
MDV	DSL	561.1835	0.041477	23	0.029766	17	0.189109	106	0.526392	295
MH	GAS	8171.596	0.186663	1525	0.001915	16	7.504261	61322	1.410049	11522
MH	DSL	1489.616	0.13083	195	0.19155	285	0.490891	731	7.281975	10847
OBUS	GAS	4052.387	0.107943	437	0.000434	2	2.539166	10290	1.448416	5870
OBUS	DSL	7289.393	0.258635	1885	0.264845	1931	1.189646	8672	8.811614	64231
SBUS	GAS	312.1963	0.670404	209	0.003566	1	18.79806	5869	3.478941	1086
SBUS	DSL	735.0062	0.206309	152	0.165238	121	0.624991	459	9.335695	6862
T6	GAS	8782.346	0.2414	2120	0.001314	12	6.16411	54135	2.327722	20443
T6	DSL	65123.64	0.196949	12826	0.192434	12532	0.772778	50326	5.503851	358431
T7	GAS	2542.342	0.79096	2011	0.000867	2	29.17843	74182	6.734331	17121
T7	DSL	160395.1	0.335543	53819	0.300876	48259	1.715941	275229	9.301884	1491976
UBUS	GAS	191.8055	1.877704	360	0.003272	1	26.25704	5036	6.675145	1280
UBUS	DSL	1743.689	0.504115	879	0.23961	418	1.906952	3325	25.44442	44367
	Gas Total	3400543		285433		6275		6565190		826225
	DSL Total	283754		75752		64968		363860		2179424

Note:
Total Emission Rate (g/mi)=Sum of Weighted Emission Rates(g/day)/Sum of VMTs(mi/day)

45 mph - On-ramp Running Emission Rates

	TOG	PM10	CO	NOx
Gas	**0.0797**			
DSL		**0.2015**		
Total			**1.9268**	**0.5416**

45 MPH								
VMT (Mi/day)	TOG (g/mi)	TOG Weighted	PM10 (g/mi)	PM10 Weighted	CO (g/mi)	CO Weighted	NOx (g/mi)	NOx Weighted
2975547	0.051119	152106	0.001737	5167	1.411558	4200156	0.140466	417963
9729.117	0.056415	549	0.036678	357	0.23847	2320	0.612234	5956
315201.1	0.132705	41829	0.004113	1296	3.466783	1092734	0.368054	116011
432.312	0.098095	42	0.072793	31	0.354757	153	0.754878	326
1003000	0.05977	59950	0.001688	1693	1.855209	1860775	0.248035	248779
439.5238	0.075802	33	0.054531	24	0.290572	128	0.734112	323
14850.55	0.091144	1354	0.001275	19	1.566821	23268	0.67296	9994
11694.73	0.165509	1936	0.034048	398	0.610867	7144	4.189168	48991
1310.555	0.097124	127	0.001427	2	1.888137	2475	0.702578	921
3855.159	0.152971	590	0.032432	125	0.574774	2216	3.904255	15052
31797.49	2.488241	79120	0.000797	25	22.92626	728998	1.262906	40157
683440.5	0.088393	60411	0.001887	1289	2.566715	1754197	0.387112	264568
841.6133	0.0457	38	0.033069	28	0.19554	165	0.448221	377
7455.443	0.222419	1658	0.002296	17	6.985974	52084	1.286483	9591
907.3133	0.135785	123	0.159396	145	0.53294	484	7.280186	6605
3697.239	0.129926	480	0.000521	2	2.389921	8836	1.324122	4896
5447.977	0.286993	1564	0.222484	1212	1.258222	6855	9.112208	49643
418.8002	0.799984	335	0.004276	2	17.37709	7278	3.179695	1332
985.9847	0.210702	208	0.152728	151	0.731375	721	9.268525	9139
8012.666	0.289225	2317	0.001575	13	5.747613	46054	2.127373	17046
39666.29	0.205829	8164	0.157697	6255	0.815784	32359	5.566874	220817
1959.167	0.948538	1858	0.00104	2	27.41366	53708	6.319355	12381
136412.9	0.36688	50047	0.245575	33500	1.755479	239470	9.47353	1292312
304.4975	2.251394	686	0.003923	1	24.60461	7492	6.21837	1893
2768.163	0.547195	1515	0.260086	720	1.843205	5102	19.54064	54092

5046995	402231	9529	9838053	1145532
213181	64809	42945	297116	1703633

5 mph - Off-ramp Running Emission Rates

	TOG	PM10	CO	NOx
Gas	**0.6487**			
DSL		**0.4456**		
Total			**6.5089**	**2.9241**

5 MPH								
VMT (Mi/day)	TOG (g/mi)	TOG Weighted	PM10 (g/mi)	PM10 Weighted	CO (g/mi)	CO Weighted	NOx (g/mi)	NOx Weighted
33150.71	0.358589	11887	0.013995	464	3.345058	110891	0.244977	8121
108.3926	0.200751	22	0.130697	14	1.197373	130	1.017078	110
3511.67	0.847583	2976	0.029789	105	8.974487	31515	0.692381	2431
4.816408	0.350749	2	0.260723	1	1.833453	9	1.264106	6
11174.47	0.437789	4892	0.013738	154	4.221077	47168	0.477495	5336
4.896755	0.270524	1	0.195051	1	1.483258	7	1.226528	6
30657.85	0.808819	24797	0.011043	339	8.875176	272094	0.462586	14182
7108.792	0.594532	4226	0.122304	869	3.274568	23278	7.087887	50386
2705.543	0.843867	2283	0.012366	33	10.36185	28034	0.483022	1307
2343.409	0.549495	1288	0.1165	273	3.081091	7220	6.605826	15480
354.2574	5.394352	1911	0.001625	1	29.72223	10529	1.15944	411
7614.244	0.67863	5167	0.015217	116	5.85631	44591	0.763252	5812
9.376454	0.161447	2	0.117295	1	0.932208	9	0.726314	7
565.3881	1.927374	1090	0.019888	11	38.85761	21970	0.932602	527
80.38747	2.0033	161	0.667143	54	2.610367	210	20.01962	1609
280.3824	1.125536	316	0.004512	1	13.28767	3726	0.959836	269
257.2351	4.571458	1176	0.821558	211	6.154404	1583	28.09736	7228
69.91595	6.921264	484	0.037043	3	96.26118	6730	2.291823	160
164.6037	3.484444	574	0.911764	150	3.801337	626	29.17878	4803
607.6455	2.50586	1523	0.013645	8	31.96678	19424	1.542112	937
3514.412	3.810527	13392	0.741436	2606	4.824454	16955	18.62542	65457
60.97658	8.215433	501	0.009008	1	152.6282	9307	4.59709	280
3426.978	6.425007	22018	0.878445	3010	10.10616	34634	32.0898	109971
55.36827	19.50386	1080	0.033988	2	136.8053	7575	4.505464	249
503.3486	2.589394	1303	1.23076	620	13.75643	6924	43.10963	21699

90808	58907	1236	613555	40023
17527	44164	7811	91585	276763

Highway Parameters

Link Measurements								Link Volumes					
Link/Segment	Link length (m)	Width of roadway (m)	Source Sep (m)	No. of Sources	Source Designation	Freeway Configuration	Mile Post	AADT 2011	Baseline	Volume TOG	Volume Baseline TOG	Volume Diesel	Volume Baseline Diesel
State Route 87	795	53	53	16	101-116	At Grade	4.035-4.624	157,000	6,542	153,612	6,400	3,388	141
Onramp NB from Lelong Street	406	11.28	11	37	201-237	At to Above Grade	4.364	10,200	425	9,980	416	220	9
Offramp SB to Lelong Street	293	11.28	11	27	301-327	At to Above Grade	4.355	9,300	388	9,099	379	201	8

On-Road Mobile Sources
Emission Rate Computation

TOG Emissions

SR-87 (Sources 101-116)
Mile Post 4.035-4.624

Number of Sources	16
Link Length (meters)	795
Volume/Baseline (VPH)	6,400
Toxic Mass Emission Rate (gr/mi)	0.00555

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Toxic Emission Rate (gr/sec)	0.00488
Toxic Emission Rate (gr/sec/source)	**3.05E-04**

Onramp NB from Lelong Street (Sources 201-237)
Mile Post 4.364

Number of Sources	37
Link Length (meters)	406.08
Volume/Baseline (VPH)	416
Toxic Mass Emission Rate (gr/mi)	0.0644

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Toxic Emission Rate (gr/sec)	0.00188
Toxic Emission Rate (gr/sec/source)	**5.07E-05**

Offramp SB toLelong Street (Sources 301-327)
Mile Post 4.355

Number of Sources	27
Link Length (meters)	293
Volume/Baseline (VPH)	379
Toxic Mass Emission Rate (gr/mi)	0.0126

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Toxic Emission Rate (gr/sec)	0.00024
Toxic Emission Rate (gr/sec/source)	**8.92E-06**

On-Road Mobile Sources
Emission Rate Computation

DPM Emissions

SR-87 (Sources 101-116)
Mile Post 4.035-4.624

Number of Sources	16
Link Length (meters)	795
Volume/Baseline (VPH)	141
Toxic Mass Emission Rate (gr/mi)	0.229

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Toxic Emission Rate (gr/sec)	0.0044
Toxic Emission Rate (gr/sec/source)	**2.77E-04**

Onramp NB from Lelong Street (Sources 201-237)
Mile Post 4.364

Number of Sources	37
Link Length (meters)	406.08
Volume/Baseline (VPH)	9
Toxic Mass Emission Rate (gr/mi)	0.668

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Toxic Emission Rate (gr/sec)	0.00043
Toxic Emission Rate (gr/sec/source)	**1.16E-05**

Offramp SB toLelong Street (Sources 301-327)
Mile Post 4.355

Number of Sources	27
Link Length (meters)	293
Volume/Baseline (VPH)	8
Toxic Mass Emission Rate (gr/mi)	0.479

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Toxic Emission Rate (gr/sec)	0.00020
Toxic Emission Rate (gr/sec/source)	**7.51E-06**

On-Road Mobile Souces
Emission Rate Computation

Particulate (PM2.5)

SR-87 (Sources 101-116)
Mile Post 4.035-4.624

Number of Sources	16
Link Length (meters)	795
Volume/Baseline (VPH)	6,542
Particulate PM2.5 Base Emission Factor (g/mi)	0.25
Road Surface Silt Loading (g/m2)	0.02
Gross Vehicle Weight (tons)	2.4
PM2.5 Reentrainment Mass Emission Rate (gr/mi)	0.017

For PM2.5 Reentrainment: Mass Emission Rate (gr/mile) = (Particulate PM2.5 Base Emission Factor) x (Road Surface Silt Loading)$^{0.91}$ x (Gross Vehicle Weight)$^{1.02}$
Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Reentrainment Emission Rate (gr/sec)	0.015589
Pollutant Reentrainment Emission Rate (gr/sec/source)	**9.74E-04**

Onramp NB from Lelong Street (Sources 201-237)
Mile Post 4.364

Number of Sources	37
Link Length (meters)	406
Volume/Baseline (VPH)	425
Particulate PM2.5 Base Emission Factor (g/mi)	0.25
Road Surface Silt Loading (g/m2)	0.02
Gross Vehicle Weight (tons)	2.4
PM2.5 Reentrainment Mass Emission Rate (gr/mi)	0.017

For PM2.5 Reentrainment: Mass Emission Rate (gr/mile) = (Particulate PM2.5 Base Emission Factor) x (Road Surface Silt Loading)$^{0.91}$ x (Gross Vehicle Weight)$^{1.02}$
Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Reentrainment Emission Rate (gr/sec)	0.000517
Pollutant Reentrainment Emission Rate (gr/sec/source)	**1.40E-05**

On-Road Mobile Souces
Emission Rate Computation

Offramp SB toLelong Street (Sources 301-327)
Mile Post 4.355

Number of Sources	27
Link Length (meters)	293
Volume/Baseline (VPH)	388
Particulate PM2.5 Base Emission Factor (g/mi)	0.25
Road Surface Silt Loading (g/m2)	0.02
Gross Vehicle Weight (tons)	2.4
PM2.5 Reentrainment Mass Emission Rate (gr/mi)	0.017

For PM2.5 Reentrainment: Mass Emission Rate (gr/mile) = (Particulate PM2.5 Base Emission Factor) x (Road Surface Silt Loading)$^{0.91}$ x (Gross Vehicle Weight)$^{1.02}$

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Reentrainment Emission Rate (gr/sec)	0.000341
Pollutant Reentrainment Emission Rate (gr/sec/source)	**1.26E-05**

Initial Sigma Computation

SR-87 (Sources 101-116)
Mile Post 4.035-4.624

Width of Traveled Way (m)	53
Average Wind Speed (m/s)	2.78
Source Separation Distance (m)	53

Initial Vertical Dispersion Parameter (Sigma Z)

SZ = (1.8 + 0.11(TR)) x (60/30)0.2
TR = W2/U

Where:

W2 = traveled way half width (m)
U = average wind speed (m/s)

SZ = **3.27**

Initial Horizontal Dispersion Parameter (Sigma Y)

SY = (source separation distance)/2.15

SY = **24.65**

Onramp NB from Lelong Street (Sources 201-237)
Mile Post 4.364

Width of Traveled Way (m)	11
Average Wind Speed (m/s)	2.78
Source Separation Distance (m)	11

Initial Vertical Dispersion Parameter (Sigma Z)

SZ = (1.8 + 0.11(TR)) x (60/30)0.2
TR = W2/U

Where:

W2 = traveled way half width (m)
U = average wind speed (m/s)

SZ = **2.32**

Initial Horizontal Dispersion Parameter (Sigma Y)

SY = (source separation distance)/2.15

SY = **5.25**

Initial Sigma Computation

Offramp SB toLelong Street (Sources 301-327)
Mile Post 4.355

Width of Traveled Way (m)	11
Average Wind Speed (m/s)	2.78
Source Separation Distance (m)	11

Initial Vertical Dispersion Parameter (Sigma Z)

SZ = (1.8 + 0.11(TR)) x (60/30)0.2
TR = W2/U

Where:

W2 = traveled way half width (m)
U = average wind speed (m/s)

SZ = **2.32**

Initial Horizontal Dispersion Parameter (Sigma Y)

SY = (source separation distance)/2.15

SY = **5.25**

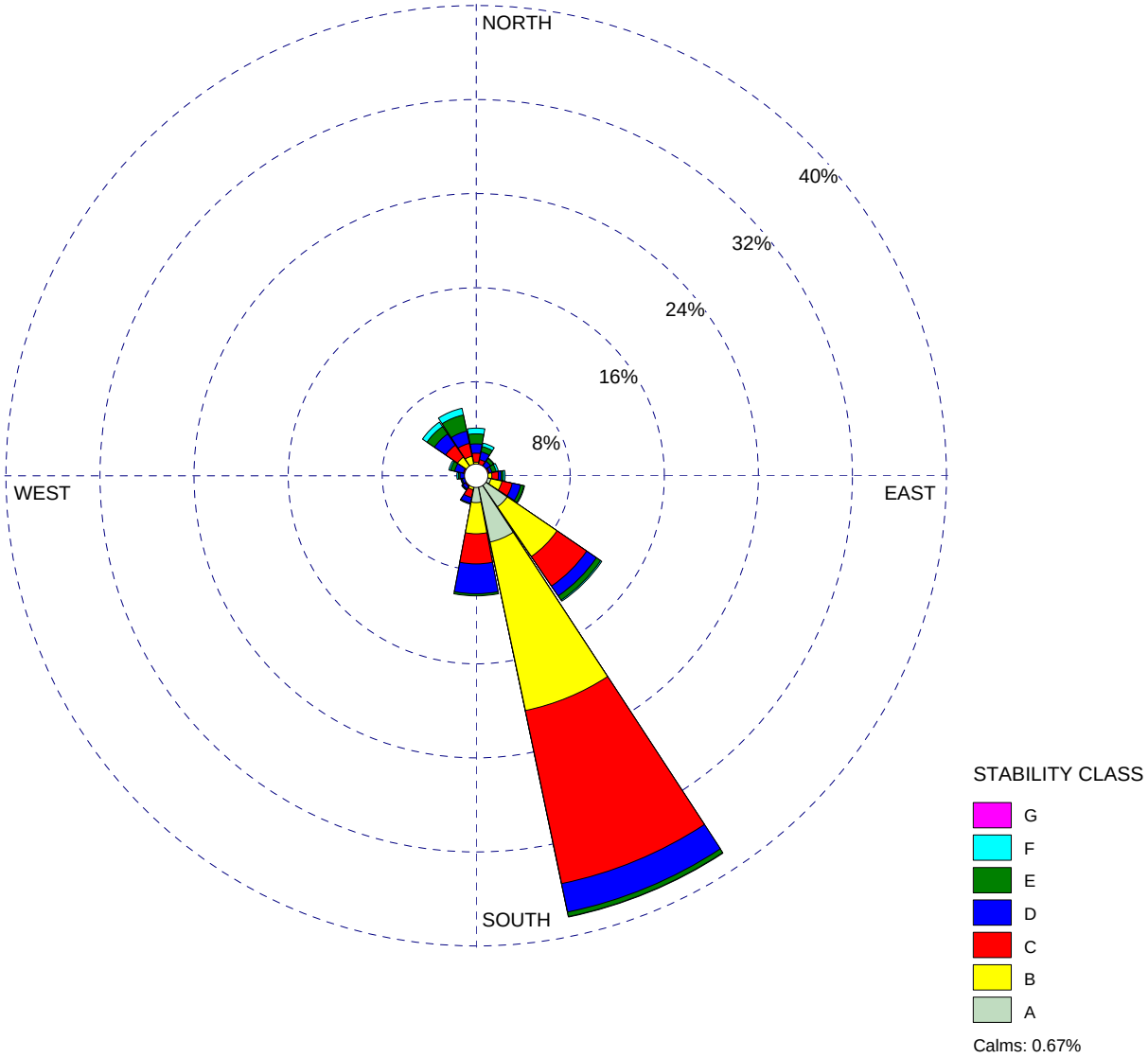
WIND ROSE PLOT:

San Jose Airport Wind Rose

Wind Vectors Blowing To

DISPLAY:

Stability Class



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	Start Date: 1/1/1997 - 08:00 **End Date: 12/31/1997 - 16:00**	MODELER:	
	CALM WINDS: **0.67%**	TOTAL COUNT: **3285 hrs.**	
	AVG. WIND SPEED: **2.78 m/s**	DATE: **9/12/2012**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

Appendix D.
ISCST3 Model Output Files

```
 *** ISCST3 - VERSION 02035 ***    ***  Rocketship Charter School - Tamien - Toxics                        ***        10/20/12
                                   ***                                                                       ***        14:38:18
**MODELOPTs:                                                                                                            PAGE   1
CONC                    URBAN ELEV                                                                                       HE>ZI

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

**Intermediate Terrain Processing is Selected

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

  --  SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION.  DDPLETE =  F
**Model Uses NO WET DEPLETION.  WDPLETE =  F
**NO WET SCAVENGING Data Provided.
**NO GAS DRY DEPOSITION Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses URBAN Dispersion.

**Model Uses User-Specified Options:
           1. Final Plume Rise.
           2. Stack-tip Downwash.
           3. Buoyancy-induced Dispersion.
           4. Calms Processing Routine.
           5. Not Use Missing Data Processing Routine.
           6. Default Wind Profile Exponents.
           7. Default Vertical Potential Temperature Gradients.
           HE>ZI  - Adjusts Vertical Term for cases when HE > ZI,
                    which may occur for receptors below source base elevation.

**Model Accepts Receptors on ELEV Terrain.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates ANNUAL Averages Only

**This Run Includes:    81 Source(s);      2 Source Group(s); and     533 Receptor(s)

**The Model Assumes A Pollutant Type of:  OTHER

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

**Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

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

**Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =    0.000     ;    Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                  ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     1.3 MB of RAM.

**Input Runstream File:          ISCST3.INP
**Output Print File:             ISCST3.OUT
```

```
 *** ISCST3 - VERSION 02035 ***    ***  Rocketship Charter School - Tamien - Toxics                        ***        10/20/12
                                   ***                                                                       ***        14:38:18
**MODELOPTs:                                                                                                            PAGE   2
CONC                    URBAN ELEV                                                                                       HE>ZI
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
1	0	0.44099E-02	598687.4	4130403.8	34.0	4.72	298.00	5.10	1.22	NO	HROFDY

*** ISCST3 - VERSION 02035 *** *** Rocketship Charter School - Tamien - Toxics *** 10/20/12
*** *** 14:38:18
**MODELOPTs: PAGE 3
CONC URBAN ELEV HE>ZI

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
101	0	0.30500E-03	598893.3	4129944.0	32.7	0.60	24.65	3.27	HROFDY
102	0	0.30500E-03	598863.2	4129988.0	32.6	0.60	24.65	3.27	HROFDY
103	0	0.30500E-03	598833.1	4130032.0	34.2	0.60	24.65	3.27	HROFDY
104	0	0.30500E-03	598803.1	4130076.0	35.1	0.60	24.65	3.27	HROFDY
105	0	0.30500E-03	598773.0	4130120.2	33.4	0.60	24.65	3.27	HROFDY
106	0	0.30500E-03	598742.5	4130164.0	33.0	0.60	24.65	3.27	HROFDY
107	0	0.30500E-03	598708.4	4130205.0	33.0	0.60	24.65	3.27	HROFDY
108	0	0.30500E-03	598674.3	4130246.0	31.4	0.60	24.65	3.27	HROFDY
109	0	0.30500E-03	598640.2	4130287.0	31.8	0.60	24.65	3.27	HROFDY
110	0	0.30500E-03	598606.1	4130328.0	31.4	0.60	24.65	3.27	HROFDY
111	0	0.30500E-03	598574.6	4130371.0	30.4	0.60	24.65	3.27	HROFDY
112	0	0.30500E-03	598545.0	4130415.2	30.2	0.60	24.65	3.27	HROFDY
113	0	0.30500E-03	598515.4	4130459.5	30.8	0.60	24.65	3.27	HROFDY
114	0	0.30500E-03	598489.7	4130506.2	32.0	0.60	24.65	3.27	HROFDY
115	0	0.30500E-03	598465.6	4130554.0	32.8	0.60	24.65	3.27	HROFDY
116	0	0.30500E-03	598441.5	4130601.5	32.7	0.60	24.65	3.27	HROFDY
201	0	0.50700E-04	598723.0	4130012.2	31.5	0.60	5.25	2.32	HROFDY
202	0	0.50700E-04	598731.6	4130019.5	32.8	0.60	5.25	2.32	HROFDY
203	0	0.50700E-04	598740.3	4130027.0	33.9	0.60	5.25	2.32	HROFDY
204	0	0.50700E-04	598748.9	4130034.2	34.7	0.60	5.25	2.32	HROFDY
205	0	0.50700E-04	598757.2	4130041.8	35.2	0.60	5.25	2.32	HROFDY
206	0	0.50700E-04	598764.5	4130050.2	35.6	0.60	5.25	2.32	HROFDY
207	0	0.50700E-04	598771.8	4130059.0	35.8	0.60	5.25	2.32	HROFDY
208	0	0.50700E-04	598779.1	4130067.5	35.8	0.60	5.25	2.32	HROFDY
209	0	0.50700E-04	598784.5	4130077.0	35.3	0.60	5.25	2.32	HROFDY
210	0	0.50700E-04	598787.0	4130088.0	34.8	0.60	5.25	2.32	HROFDY
211	0	0.50700E-04	598789.5	4130099.0	34.3	0.60	5.25	2.32	HROFDY
212	0	0.50700E-04	598791.9	4130110.0	33.6	0.60	5.25	2.32	HROFDY
213	0	0.50700E-04	598794.4	4130121.0	32.8	0.60	5.25	2.32	HROFDY
214	0	0.50700E-04	598795.2	4130132.0	32.1	0.60	5.25	2.32	HROFDY
215	0	0.50700E-04	598793.2	4130143.2	31.5	0.60	5.25	2.32	HROFDY
216	0	0.50700E-04	598791.3	4130154.2	30.9	0.60	5.25	2.32	HROFDY
217	0	0.50700E-04	598789.1	4130165.5	30.5	0.60	5.25	2.32	HROFDY
218	0	0.50700E-04	598782.4	4130174.5	30.6	0.60	5.25	2.32	HROFDY
219	0	0.50700E-04	598775.8	4130183.5	30.7	0.60	5.25	2.32	HROFDY
220	0	0.50700E-04	598769.2	4130192.8	30.7	0.60	5.25	2.32	HROFDY
221	0	0.50700E-04	598762.6	4130202.0	30.9	0.60	5.25	2.32	HROFDY
222	0	0.50700E-04	598755.6	4130210.8	31.0	0.60	5.25	2.32	HROFDY
223	0	0.50700E-04	598748.1	4130219.2	31.0	0.60	5.25	2.32	HROFDY
224	0	0.50700E-04	598740.7	4130227.5	30.8	0.60	5.25	2.32	HROFDY

*** ISCST3 - VERSION 02035 *** *** Rocketship Charter School - Tamien - Toxics *** 10/20/12
*** *** 14:38:18
**MODELOPTs: PAGE 4
CONC URBAN ELEV HE>ZI

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
225	0	0.50700E-04	598733.2	4130236.0	30.6	0.60	5.25	2.32	HROFDY
226	0	0.50700E-04	598725.7	4130244.5	30.3	0.60	5.25	2.32	HROFDY
227	0	0.50700E-04	598718.1	4130253.0	29.8	0.60	5.25	2.32	HROFDY
228	0	0.50700E-04	598710.4	4130261.0	29.5	0.60	5.25	2.32	HROFDY
229	0	0.50700E-04	598702.7	4130269.2	29.4	0.60	5.25	2.32	HROFDY
230	0	0.50700E-04	598695.0	4130277.5	29.2	0.60	5.25	2.32	HROFDY
231	0	0.50700E-04	598687.2	4130285.8	29.0	0.60	5.25	2.32	HROFDY
232	0	0.50700E-04	598679.6	4130294.0	28.8	0.60	5.25	2.32	HROFDY
233	0	0.50700E-04	598672.0	4130302.5	28.8	0.60	5.25	2.32	HROFDY
234	0	0.50700E-04	598664.4	4130310.8	29.0	0.60	5.25	2.32	HROFDY
235	0	0.50700E-04	598656.8	4130319.0	29.2	0.60	5.25	2.32	HROFDY
236	0	0.50700E-04	598649.1	4130327.2	29.3	0.60	5.25	2.32	HROFDY
237	0	0.50700E-04	598641.5	4130335.8	29.4	0.60	5.25	2.32	HROFDY
301	0	0.89200E-05	598615.5	4130279.0	34.0	0.60	5.25	2.32	HROFDY
302	0	0.89200E-05	598622.0	4130269.8	33.9	0.60	5.25	2.32	HROFDY
303	0	0.89200E-05	598628.5	4130260.5	33.9	0.60	5.25	2.32	HROFDY
304	0	0.89200E-05	598635.1	4130251.5	33.8	0.60	5.25	2.32	HROFDY
305	0	0.89200E-05	598641.6	4130242.2	33.8	0.60	5.25	2.32	HROFDY
306	0	0.89200E-05	598648.0	4130233.0	33.9	0.60	5.25	2.32	HROFDY
307	0	0.89200E-05	598654.3	4130223.5	34.1	0.60	5.25	2.32	HROFDY
308	0	0.89200E-05	598660.5	4130214.0	34.4	0.60	5.25	2.32	HROFDY
309	0	0.89200E-05	598666.7	4130204.8	34.8	0.60	5.25	2.32	HROFDY
310	0	0.89200E-05	598673.0	4130195.2	35.2	0.60	5.25	2.32	HROFDY
311	0	0.89200E-05	598679.2	4130186.0	35.6	0.60	5.25	2.32	HROFDY
312	0	0.89200E-05	598685.4	4130176.5	35.8	0.60	5.25	2.32	HROFDY
313	0	0.89200E-05	598691.6	4130167.0	36.0	0.60	5.25	2.32	HROFDY
314	0	0.89200E-05	598697.8	4130157.8	36.1	0.60	5.25	2.32	HROFDY
315	0	0.89200E-05	598704.0	4130148.2	35.8	0.60	5.25	2.32	HROFDY
316	0	0.89200E-05	598710.1	4130138.8	35.6	0.60	5.25	2.32	HROFDY
317	0	0.89200E-05	598716.3	4130129.5	35.4	0.60	5.25	2.32	HROFDY
318	0	0.89200E-05	598722.5	4130120.0	35.3	0.60	5.25	2.32	HROFDY
319	0	0.89200E-05	598727.6	4130110.0	35.3	0.60	5.25	2.32	HROFDY
320	0	0.89200E-05	598732.5	4130099.8	35.4	0.60	5.25	2.32	HROFDY
321	0	0.89200E-05	598734.7	4130088.8	35.4	0.60	5.25	2.32	HROFDY
322	0	0.89200E-05	598736.0	4130077.5	35.5	0.60	5.25	2.32	HROFDY
323	0	0.89200E-05	598735.4	4130066.5	35.5	0.60	5.25	2.32	HROFDY
324	0	0.89200E-05	598732.3	4130055.5	34.9	0.60	5.25	2.32	HROFDY
325	0	0.89200E-05	598729.3	4130044.8	34.2	0.60	5.25	2.32	HROFDY
326	0	0.89200E-05	598722.5	4130036.0	33.2	0.60	5.25	2.32	HROFDY
327	0	0.89200E-05	598714.9	4130027.5	32.0	0.60	5.25	2.32	HROFDY

```
 *** ISCST3 - VERSION 02035 ***    ***  Rocketship Charter School - Tamien - Toxics                        ***        10/20/12
                                   ***                                                                       ***        14:38:18
**MODELOPTs:                                                                                                            PAGE  41
CONC                    URBAN ELEV                                                                                       HE>ZI

                                          *** THE SUMMARY OF MAXIMUM ANNUAL (   1 YRS) RESULTS ***


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

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

FREEWAY  1ST HIGHEST VALUE IS       0.02511 AT (  598750.62,  4130295.00,     30.22,      0.00)  DC      NA
         2ND HIGHEST VALUE IS       0.02464 AT (  598747.50,  4130300.00,     30.15,      0.00)  DC      NA
         3RD HIGHEST VALUE IS       0.02415 AT (  598744.19,  4130305.25,     30.06,      0.00)  DC      NA
         4TH HIGHEST VALUE IS       0.02385 AT (  598742.12,  4130308.50,     30.00,      0.00)  DC      NA
         5TH HIGHEST VALUE IS       0.02339 AT (  598754.19,  4130297.00,     30.37,      0.00)  DC      NA
         6TH HIGHEST VALUE IS       0.02305 AT (  598736.81,  4130316.75,     29.77,      0.00)  DC      NA
         7TH HIGHEST VALUE IS       0.02227 AT (  598731.38,  4130325.25,     29.46,      0.00)  DC      NA
         8TH HIGHEST VALUE IS       0.02156 AT (  598734.19,  4130325.25,     29.63,      0.00)  DC      NA
         9TH HIGHEST VALUE IS       0.02148 AT (  598744.19,  4130315.25,     30.13,      0.00)  DC      NA
        10TH HIGHEST VALUE IS       0.02144 AT (  598726.12,  4130333.75,     29.10,      0.00)  DC      NA

1        1ST HIGHEST VALUE IS       0.13430 AT (  598722.19,  4130340.00,     28.79,      0.00)  DC      NA
         2ND HIGHEST VALUE IS       0.12247 AT (  598726.12,  4130333.75,     29.10,      0.00)  DC      NA
         3RD HIGHEST VALUE IS       0.11742 AT (  598730.31,  4130345.75,     29.36,      0.00)  DC      NA
         4TH HIGHEST VALUE IS       0.10789 AT (  598734.19,  4130335.25,     29.64,      0.00)  DC      NA
         5TH HIGHEST VALUE IS       0.10676 AT (  598734.19,  4130345.25,     29.65,      0.00)  DC      NA
         6TH HIGHEST VALUE IS       0.10662 AT (  598731.38,  4130325.25,     29.46,      0.00)  DC      NA
         7TH HIGHEST VALUE IS       0.10245 AT (  598734.19,  4130325.25,     29.63,      0.00)  DC      NA
         8TH HIGHEST VALUE IS       0.09208 AT (  598736.81,  4130316.75,     29.77,      0.00)  DC      NA
         9TH HIGHEST VALUE IS       0.08824 AT (  598738.31,  4130351.75,     29.86,      0.00)  DC      NA
        10TH HIGHEST VALUE IS       0.08525 AT (  598744.19,  4130335.25,     30.26,      0.00)  DC      NA


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

```
 *** ISCST3 - VERSION 02035 ***    ***  Rocketship Charter School - Tamien - Toxics                        ***        10/20/12
                                   ***                                                                       ***        14:38:18
**MODELOPTs:                                                                                                            PAGE  42
CONC                    URBAN ELEV                                                                                       HE>ZI


*** Message Summary : ISCST3 Model Execution ***

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

A Total of            0 Fatal Error Message(s)
A Total of            2 Warning Message(s)
A Total of           65 Informational Message(s)

A Total of           65 Calm Hours Identified


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


   ********   WARNING MESSAGES   ********
OU W565   653 PERPLT:Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565   654 PERPLT:Possible Conflict With Dynamically Allocated FUNIT PLOTFILE

   ************************************
   *** ISCST3 Finishes Successfully ***
   ************************************
```

```
 *** ISCST3 - VERSION 02035 ***    ***  Rocketship Charter School - Tamien - DPM                          ***        10/19/12
                                   ***                                                                      ***        18:01:20
**MODELOPTs:                                                                                                           PAGE   1
CONC                    URBAN ELEV                                                                                      HE>ZI

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

**Intermediate Terrain Processing is Selected

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

  --  SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION.  DDPLETE =  F
**Model Uses NO WET DEPLETION.  WDPLETE =  F
**NO WET SCAVENGING Data Provided.
**NO GAS DRY DEPOSITION Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses URBAN Dispersion.

**Model Uses User-Specified Options:
           1. Final Plume Rise.
           2. Stack-tip Downwash.
           3. Buoyancy-induced Dispersion.
           4. Calms Processing Routine.
           5. Not Use Missing Data Processing Routine.
           6. Default Wind Profile Exponents.
           7. Default Vertical Potential Temperature Gradients.
           HE>ZI  - Adjusts Vertical Term for cases when HE > ZI,
                    which may occur for receptors below source base elevation.

**Model Accepts Receptors on ELEV Terrain.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates ANNUAL Averages Only

**This Run Includes:   125 Source(s);      2 Source Group(s); and     533 Receptor(s)

**The Model Assumes A Pollutant Type of:  OTHER

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

**Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of Concurrent Values for Postprocessing (POSTFILE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

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

**Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =    0.000     ;    Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                 ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     1.3 MB of RAM.

**Input Runstream File:          ISCST3.INP
**Output Print File:             ISCST3.OUT
```

*** ISCST3 - VERSION 02035 *** *** Rocketship Charter School - Tamien - DPM *** 10/19/12
*** *** 18:01:20
**MODELOPTs: PAGE 2
CONC URBAN ELEV HE>ZI

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
101	0	0.27700E-03	598893.3	4129944.0	32.7	4.15	24.65	3.27	HROFDY
102	0	0.27700E-03	598863.2	4129988.0	32.6	4.15	24.65	3.27	HROFDY
103	0	0.27700E-03	598833.1	4130032.0	34.2	4.15	24.65	3.27	HROFDY
104	0	0.27700E-03	598803.1	4130076.0	35.1	4.15	24.65	3.27	HROFDY
105	0	0.27700E-03	598773.0	4130120.2	33.4	4.15	24.65	3.27	HROFDY
106	0	0.27700E-03	598742.5	4130164.0	33.0	4.15	24.65	3.27	HROFDY
107	0	0.27700E-03	598708.4	4130205.0	33.0	4.15	24.65	3.27	HROFDY
108	0	0.27700E-03	598674.3	4130246.0	31.4	4.15	24.65	3.27	HROFDY
109	0	0.27700E-03	598640.2	4130287.0	31.8	4.15	24.65	3.27	HROFDY
110	0	0.27700E-03	598606.1	4130328.0	31.4	4.15	24.65	3.27	HROFDY
111	0	0.27700E-03	598574.6	4130371.0	30.4	4.15	24.65	3.27	HROFDY
112	0	0.27700E-03	598545.0	4130415.2	30.2	4.15	24.65	3.27	HROFDY
113	0	0.27700E-03	598515.4	4130459.5	30.8	4.15	24.65	3.27	HROFDY
114	0	0.27700E-03	598489.7	4130506.2	32.0	4.15	24.65	3.27	HROFDY
115	0	0.27700E-03	598465.6	4130554.0	32.8	4.15	24.65	3.27	HROFDY
116	0	0.27700E-03	598441.5	4130601.5	32.7	4.15	24.65	3.27	HROFDY
201	0	0.11600E-04	598723.0	4130012.2	31.5	4.15	5.25	2.32	HROFDY
202	0	0.11600E-04	598731.6	4130019.5	32.8	4.15	5.25	2.32	HROFDY
203	0	0.11600E-04	598740.3	4130027.0	33.9	4.15	5.25	2.32	HROFDY
204	0	0.11600E-04	598748.9	4130034.2	34.7	4.15	5.25	2.32	HROFDY
205	0	0.11600E-04	598757.2	4130041.8	35.2	4.15	5.25	2.32	HROFDY
206	0	0.11600E-04	598764.5	4130050.2	35.6	4.15	5.25	2.32	HROFDY
207	0	0.11600E-04	598771.8	4130059.0	35.8	4.15	5.25	2.32	HROFDY
208	0	0.11600E-04	598779.1	4130067.5	35.8	4.15	5.25	2.32	HROFDY
209	0	0.11600E-04	598784.5	4130077.0	35.3	4.15	5.25	2.32	HROFDY
210	0	0.11600E-04	598787.0	4130088.0	34.8	4.15	5.25	2.32	HROFDY
211	0	0.11600E-04	598789.5	4130099.0	34.3	4.15	5.25	2.32	HROFDY
212	0	0.11600E-04	598791.9	4130110.0	33.6	4.15	5.25	2.32	HROFDY
213	0	0.11600E-04	598794.4	4130121.0	32.8	4.15	5.25	2.32	HROFDY
214	0	0.11600E-04	598795.2	4130132.0	32.1	4.15	5.25	2.32	HROFDY
215	0	0.11600E-04	598793.2	4130143.2	31.5	4.15	5.25	2.32	HROFDY
216	0	0.11600E-04	598791.3	4130154.2	30.9	4.15	5.25	2.32	HROFDY
217	0	0.11600E-04	598789.1	4130165.5	30.5	4.15	5.25	2.32	HROFDY
218	0	0.11600E-04	598782.4	4130174.5	30.6	4.15	5.25	2.32	HROFDY
219	0	0.11600E-04	598775.8	4130183.5	30.7	4.15	5.25	2.32	HROFDY
220	0	0.11600E-04	598769.2	4130192.8	30.7	4.15	5.25	2.32	HROFDY
221	0	0.11600E-04	598762.6	4130202.0	30.9	4.15	5.25	2.32	HROFDY
222	0	0.11600E-04	598755.6	4130210.8	31.0	4.15	5.25	2.32	HROFDY
223	0	0.11600E-04	598748.1	4130219.2	31.0	4.15	5.25	2.32	HROFDY
224	0	0.11600E-04	598740.7	4130227.5	30.8	4.15	5.25	2.32	HROFDY

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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
225	0	0.11600E-04	598733.2	4130236.0	30.6	4.15	5.25	2.32	HROFDY
226	0	0.11600E-04	598725.7	4130244.5	30.3	4.15	5.25	2.32	HROFDY
227	0	0.11600E-04	598718.1	4130253.0	29.8	4.15	5.25	2.32	HROFDY
228	0	0.11600E-04	598710.4	4130261.0	29.5	4.15	5.25	2.32	HROFDY
229	0	0.11600E-04	598702.7	4130269.2	29.4	4.15	5.25	2.32	HROFDY
230	0	0.11600E-04	598695.0	4130277.5	29.2	4.15	5.25	2.32	HROFDY
231	0	0.11600E-04	598687.2	4130285.8	29.0	4.15	5.25	2.32	HROFDY
232	0	0.11600E-04	598679.6	4130294.0	28.8	4.15	5.25	2.32	HROFDY
233	0	0.11600E-04	598672.0	4130302.5	28.8	4.15	5.25	2.32	HROFDY
234	0	0.11600E-04	598664.4	4130310.8	29.0	4.15	5.25	2.32	HROFDY
235	0	0.11600E-04	598656.8	4130319.0	29.2	4.15	5.25	2.32	HROFDY
236	0	0.11600E-04	598649.1	4130327.2	29.3	4.15	5.25	2.32	HROFDY
237	0	0.11600E-04	598641.5	4130335.8	29.4	4.15	5.25	2.32	HROFDY
301	0	0.75100E-05	598615.5	4130279.0	34.0	4.15	5.25	2.32	HROFDY
302	0	0.75100E-05	598622.0	4130269.8	33.9	4.15	5.25	2.32	HROFDY
303	0	0.75100E-05	598628.5	4130260.5	33.9	4.15	5.25	2.32	HROFDY
304	0	0.75100E-05	598635.1	4130251.5	33.8	4.15	5.25	2.32	HROFDY
305	0	0.75100E-05	598641.6	4130242.2	33.8	4.15	5.25	2.32	HROFDY
306	0	0.75100E-05	598648.0	4130233.0	33.9	4.15	5.25	2.32	HROFDY
307	0	0.75100E-05	598654.3	4130223.5	34.1	4.15	5.25	2.32	HROFDY
308	0	0.75100E-05	598660.5	4130214.0	34.4	4.15	5.25	2.32	HROFDY
309	0	0.75100E-05	598666.7	4130204.8	34.8	4.15	5.25	2.32	HROFDY
310	0	0.75100E-05	598673.0	4130195.2	35.2	4.15	5.25	2.32	HROFDY
311	0	0.75100E-05	598679.2	4130186.0	35.6	4.15	5.25	2.32	HROFDY
312	0	0.75100E-05	598685.4	4130176.5	35.8	4.15	5.25	2.32	HROFDY
313	0	0.75100E-05	598691.6	4130167.0	36.0	4.15	5.25	2.32	HROFDY
314	0	0.75100E-05	598697.8	4130157.8	36.1	4.15	5.25	2.32	HROFDY
315	0	0.75100E-05	598704.0	4130148.2	35.8	4.15	5.25	2.32	HROFDY
316	0	0.75100E-05	598710.1	4130138.8	35.6	4.15	5.25	2.32	HROFDY
317	0	0.75100E-05	598716.3	4130129.5	35.4	4.15	5.25	2.32	HROFDY
318	0	0.75100E-05	598722.5	4130120.0	35.3	4.15	5.25	2.32	HROFDY
319	0	0.75100E-05	598727.6	4130110.0	35.3	4.15	5.25	2.32	HROFDY
320	0	0.75100E-05	598732.5	4130099.8	35.4	4.15	5.25	2.32	HROFDY
321	0	0.75100E-05	598734.7	4130088.8	35.4	4.15	5.25	2.32	HROFDY
322	0	0.75100E-05	598736.0	4130077.5	35.5	4.15	5.25	2.32	HROFDY
323	0	0.75100E-05	598735.4	4130066.5	35.5	4.15	5.25	2.32	HROFDY
324	0	0.75100E-05	598732.3	4130055.5	34.9	4.15	5.25	2.32	HROFDY
325	0	0.75100E-05	598729.3	4130044.8	34.2	4.15	5.25	2.32	HROFDY
326	0	0.75100E-05	598722.5	4130036.0	33.2	4.15	5.25	2.32	HROFDY
327	0	0.75100E-05	598714.9	4130027.5	32.0	4.15	5.25	2.32	HROFDY

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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
401	0	0.59900E-03	598945.0	4129957.0	31.9	5.60	8.51	2.60	HROFDY
402	0	0.59900E-03	598934.7	4129972.2	31.7	5.60	8.51	2.60	HROFDY
403	0	0.59900E-03	598924.5	4129987.5	31.4	5.60	8.51	2.60	HROFDY
404	0	0.59900E-03	598914.3	4130002.5	31.0	5.60	8.51	2.60	HROFDY
405	0	0.59900E-03	598904.0	4130017.8	30.6	5.60	8.51	2.60	HROFDY
406	0	0.59900E-03	598893.8	4130033.0	30.3	5.60	8.51	2.60	HROFDY
407	0	0.59900E-03	598883.6	4130048.0	30.6	5.60	8.51	2.60	HROFDY
408	0	0.59900E-03	598873.3	4130063.2	31.2	5.60	8.51	2.60	HROFDY
409	0	0.59900E-03	598863.1	4130078.2	31.9	5.60	8.51	2.60	HROFDY
410	0	0.59900E-03	598852.8	4130093.5	32.3	5.60	8.51	2.60	HROFDY
411	0	0.59900E-03	598842.8	4130108.8	32.2	5.60	8.51	2.60	HROFDY
412	0	0.59900E-03	598833.1	4130124.2	31.6	5.60	8.51	2.60	HROFDY
413	0	0.59900E-03	598823.3	4130139.8	30.8	5.60	8.51	2.60	HROFDY
414	0	0.59900E-03	598813.6	4130155.2	30.0	5.60	8.51	2.60	HROFDY
415	0	0.59900E-03	598803.8	4130170.8	30.0	5.60	8.51	2.60	HROFDY
416	0	0.59900E-03	598794.1	4130186.0	30.2	5.60	8.51	2.60	HROFDY
417	0	0.59900E-03	598784.3	4130201.5	30.4	5.60	8.51	2.60	HROFDY
418	0	0.59900E-03	598774.5	4130217.0	30.5	5.60	8.51	2.60	HROFDY
419	0	0.59900E-03	598764.8	4130232.5	30.5	5.60	8.51	2.60	HROFDY
420	0	0.59900E-03	598755.1	4130248.0	30.2	5.60	8.51	2.60	HROFDY
421	0	0.59900E-03	598745.7	4130263.8	30.0	5.60	8.51	2.60	HROFDY
422	0	0.59900E-03	598736.3	4130279.5	29.7	5.60	8.51	2.60	HROFDY
423	0	0.59900E-03	598726.9	4130295.0	29.3	5.60	8.51	2.60	HROFDY
424	0	0.59900E-03	598717.5	4130310.8	28.8	5.60	8.51	2.60	HROFDY
425	0	0.59900E-03	598708.1	4130326.5	28.0	5.60	8.51	2.60	HROFDY
426	0	0.59900E-03	598698.7	4130342.2	27.5	5.60	8.51	2.60	HROFDY
427	0	0.59900E-03	598689.5	4130358.0	27.2	5.60	8.51	2.60	HROFDY
428	0	0.59900E-03	598680.5	4130374.0	26.9	5.60	8.51	2.60	HROFDY
429	0	0.59900E-03	598671.6	4130390.0	27.1	5.60	8.51	2.60	HROFDY
430	0	0.59900E-03	598662.6	4130405.8	27.5	5.60	8.51	2.60	HROFDY
431	0	0.59900E-03	598653.6	4130421.8	27.9	5.60	8.51	2.60	HROFDY
432	0	0.59900E-03	598644.7	4130437.8	28.2	5.60	8.51	2.60	HROFDY
433	0	0.59900E-03	598635.7	4130453.8	28.5	5.60	8.51	2.60	HROFDY
434	0	0.59900E-03	598626.7	4130469.5	28.7	5.60	8.51	2.60	HROFDY
435	0	0.59900E-03	598616.7	4130485.0	28.9	5.60	8.51	2.60	HROFDY
436	0	0.59900E-03	598606.3	4130500.0	29.2	5.60	8.51	2.60	HROFDY
437	0	0.59900E-03	598596.0	4130515.0	29.6	5.60	8.51	2.60	HROFDY
438	0	0.59900E-03	598585.6	4130530.0	30.1	5.60	8.51	2.60	HROFDY
439	0	0.59900E-03	598575.3	4130545.2	30.5	5.60	8.51	2.60	HROFDY
440	0	0.59900E-03	598564.9	4130560.2	31.0	5.60	8.51	2.60	HROFDY

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 *** ISCST3 - VERSION 02035 ***    ***  Rocketship Charter School - Tamien - DPM                          ***        10/19/12
                                   ***                                                                      ***        18:01:20
**MODELOPTs:                                                                                                           PAGE   5
CONC                    URBAN ELEV                                                                                      HE>ZI
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
441	0	0.59900E-03	598552.7	4130574.0	31.4	5.60	8.51	2.60	HROFDY
442	0	0.59900E-03	598540.6	4130587.5	31.8	5.60	8.51	2.60	HROFDY
443	0	0.59900E-03	598528.4	4130601.2	32.2	5.60	8.51	2.60	HROFDY
444	0	0.59900E-03	598516.3	4130615.0	32.5	5.60	8.51	2.60	HROFDY
445	0	0.59900E-03	598504.1	4130628.5	32.4	5.60	8.51	2.60	HROFDY

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 *** ISCST3 - VERSION 02035 ***    ***  Rocketship Charter School - Tamien - DPM                          ***        10/19/12
                                   ***                                                                      ***        18:01:20
**MODELOPTs:                                                                                                           PAGE  50
CONC                    URBAN ELEV                                                                                      HE>ZI

                                          *** THE SUMMARY OF MAXIMUM ANNUAL (   1 YRS) RESULTS ***


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

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

FREEWAY  1ST HIGHEST VALUE IS       0.01379 AT (  598750.62,  4130295.00,     30.22,      0.00)  DC      NA
         2ND HIGHEST VALUE IS       0.01364 AT (  598747.50,  4130300.00,     30.15,      0.00)  DC      NA
         3RD HIGHEST VALUE IS       0.01348 AT (  598744.19,  4130305.25,     30.06,      0.00)  DC      NA
         4TH HIGHEST VALUE IS       0.01337 AT (  598742.12,  4130308.50,     30.00,      0.00)  DC      NA
         5TH HIGHEST VALUE IS       0.01306 AT (  598736.81,  4130316.75,     29.77,      0.00)  DC      NA
         6TH HIGHEST VALUE IS       0.01305 AT (  598754.19,  4130297.00,     30.37,      0.00)  DC      NA
         7TH HIGHEST VALUE IS       0.01274 AT (  598731.38,  4130325.25,     29.46,      0.00)  DC      NA
         8TH HIGHEST VALUE IS       0.01241 AT (  598734.19,  4130325.25,     29.63,      0.00)  DC      NA
         9TH HIGHEST VALUE IS       0.01240 AT (  598726.12,  4130333.75,     29.10,      0.00)  DC      NA
        10TH HIGHEST VALUE IS       0.01231 AT (  598744.19,  4130315.25,     30.13,      0.00)  DC      NA

TRAINS   1ST HIGHEST VALUE IS       0.01377 AT (  598726.12,  4130333.75,     29.10,      0.00)  DC      NA
         2ND HIGHEST VALUE IS       0.01373 AT (  598736.81,  4130316.75,     29.77,      0.00)  DC      NA
         3RD HIGHEST VALUE IS       0.01350 AT (  598731.38,  4130325.25,     29.46,      0.00)  DC      NA
         4TH HIGHEST VALUE IS       0.01348 AT (  598747.50,  4130300.00,     30.15,      0.00)  DC      NA
         5TH HIGHEST VALUE IS       0.01345 AT (  598744.19,  4130305.25,     30.06,      0.00)  DC      NA
         6TH HIGHEST VALUE IS       0.01338 AT (  598742.12,  4130308.50,     30.00,      0.00)  DC      NA
         7TH HIGHEST VALUE IS       0.01337 AT (  598722.19,  4130340.00,     28.79,      0.00)  DC      NA
         8TH HIGHEST VALUE IS       0.01326 AT (  598750.62,  4130295.00,     30.22,      0.00)  DC      NA
         9TH HIGHEST VALUE IS       0.01300 AT (  598734.19,  4130325.25,     29.63,      0.00)  DC      NA
        10TH HIGHEST VALUE IS       0.01221 AT (  598754.19,  4130297.00,     30.37,      0.00)  DC      NA


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
                      BD = BOUNDARY
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 *** ISCST3 - VERSION 02035 ***    ***  Rocketship Charter School - Tamien - DPM                          ***        10/19/12
                                   ***                                                                      ***        18:01:20
**MODELOPTs:                                                                                                           PAGE  51
CONC                    URBAN ELEV                                                                                      HE>ZI


*** Message Summary : ISCST3 Model Execution ***

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

A Total of            0 Fatal Error Message(s)
A Total of            2 Warning Message(s)
A Total of           65 Informational Message(s)

A Total of           65 Calm Hours Identified


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


   ********   WARNING MESSAGES   ********
OU W565   921 PERPLT:Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565   922 PERPST:Possible Conflict With Dynamically Allocated FUNIT POSTFILE

   ************************************
   *** ISCST3 Finishes Successfully ***
   ************************************
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 *** ISCST3 - VERSION 02035 ***    ***  Rocketship Charter School - Tamien - DPM                          ***        10/19/12
                                   ***                                                                      ***        19:33:50
**MODELOPTs:                                                                                                           PAGE   1
CONC                    URBAN ELEV                                                                                      HE>ZI

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

**Intermediate Terrain Processing is Selected

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

  --  SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION.  DDPLETE =  F
**Model Uses NO WET DEPLETION.  WDPLETE =  F
**NO WET SCAVENGING Data Provided.
**NO GAS DRY DEPOSITION Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses URBAN Dispersion.

**Model Uses User-Specified Options:
           1. Final Plume Rise.
           2. Stack-tip Downwash.
           3. Buoyancy-induced Dispersion.
           4. Calms Processing Routine.
           5. Not Use Missing Data Processing Routine.
           6. Default Wind Profile Exponents.
           7. Default Vertical Potential Temperature Gradients.
           HE>ZI  - Adjusts Vertical Term for cases when HE > ZI,
                    which may occur for receptors below source base elevation.

**Model Accepts Receptors on ELEV Terrain.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates ANNUAL Averages Only

**This Run Includes:   125 Source(s);      2 Source Group(s); and     533 Receptor(s)

**The Model Assumes A Pollutant Type of:  OTHER

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

**Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

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

**Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =    0.000     ;    Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                  ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     1.3 MB of RAM.

**Input Runstream File:          ISCST3.INP
**Output Print File:             ISCST3.OUT
```

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 *** ISCST3 - VERSION 02035 ***    ***  Rocketship Charter School - Tamien - DPM                          ***        10/19/12
                                   ***                                                                      ***        19:33:50
**MODELOPTs:                                                                                                            PAGE   2
CONC                    URBAN ELEV                                                                                       HE>ZI
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
101	0	0.97400E-03	598893.3	4129944.0	32.7	4.15	24.65	3.27	HROFDY
102	0	0.97400E-03	598863.2	4129988.0	32.6	4.15	24.65	3.27	HROFDY
103	0	0.97400E-03	598833.1	4130032.0	34.2	4.15	24.65	3.27	HROFDY
104	0	0.97400E-03	598803.1	4130076.0	35.1	4.15	24.65	3.27	HROFDY
105	0	0.97400E-03	598773.0	4130120.2	33.4	4.15	24.65	3.27	HROFDY
106	0	0.97400E-03	598742.5	4130164.0	33.0	4.15	24.65	3.27	HROFDY
107	0	0.97400E-03	598708.4	4130205.0	33.0	4.15	24.65	3.27	HROFDY
108	0	0.97400E-03	598674.3	4130246.0	31.4	4.15	24.65	3.27	HROFDY
109	0	0.97400E-03	598640.2	4130287.0	31.8	4.15	24.65	3.27	HROFDY
110	0	0.97400E-03	598606.1	4130328.0	31.4	4.15	24.65	3.27	HROFDY
111	0	0.97400E-03	598574.6	4130371.0	30.4	4.15	24.65	3.27	HROFDY
112	0	0.97400E-03	598545.0	4130415.2	30.2	4.15	24.65	3.27	HROFDY
113	0	0.97400E-03	598515.4	4130459.5	30.8	4.15	24.65	3.27	HROFDY
114	0	0.97400E-03	598489.7	4130506.2	32.0	4.15	24.65	3.27	HROFDY
115	0	0.97400E-03	598465.6	4130554.0	32.8	4.15	24.65	3.27	HROFDY
116	0	0.97400E-03	598441.5	4130601.5	32.7	4.15	24.65	3.27	HROFDY
201	0	0.14000E-04	598723.0	4130012.2	31.5	4.15	5.25	2.32	HROFDY
202	0	0.14000E-04	598731.6	4130019.5	32.8	4.15	5.25	2.32	HROFDY
203	0	0.14000E-04	598740.3	4130027.0	33.9	4.15	5.25	2.32	HROFDY
204	0	0.14000E-04	598748.9	4130034.2	34.7	4.15	5.25	2.32	HROFDY
205	0	0.14000E-04	598757.2	4130041.8	35.2	4.15	5.25	2.32	HROFDY
206	0	0.14000E-04	598764.5	4130050.2	35.6	4.15	5.25	2.32	HROFDY
207	0	0.14000E-04	598771.8	4130059.0	35.8	4.15	5.25	2.32	HROFDY
208	0	0.14000E-04	598779.1	4130067.5	35.8	4.15	5.25	2.32	HROFDY
209	0	0.14000E-04	598784.5	4130077.0	35.3	4.15	5.25	2.32	HROFDY
210	0	0.14000E-04	598787.0	4130088.0	34.8	4.15	5.25	2.32	HROFDY
211	0	0.14000E-04	598789.5	4130099.0	34.3	4.15	5.25	2.32	HROFDY
212	0	0.14000E-04	598791.9	4130110.0	33.6	4.15	5.25	2.32	HROFDY
213	0	0.14000E-04	598794.4	4130121.0	32.8	4.15	5.25	2.32	HROFDY
214	0	0.14000E-04	598795.2	4130132.0	32.1	4.15	5.25	2.32	HROFDY
215	0	0.14000E-04	598793.2	4130143.2	31.5	4.15	5.25	2.32	HROFDY
216	0	0.14000E-04	598791.3	4130154.2	30.9	4.15	5.25	2.32	HROFDY
217	0	0.14000E-04	598789.1	4130165.5	30.5	4.15	5.25	2.32	HROFDY
218	0	0.14000E-04	598782.4	4130174.5	30.6	4.15	5.25	2.32	HROFDY
219	0	0.14000E-04	598775.8	4130183.5	30.7	4.15	5.25	2.32	HROFDY
220	0	0.14000E-04	598769.2	4130192.8	30.7	4.15	5.25	2.32	HROFDY
221	0	0.14000E-04	598762.6	4130202.0	30.9	4.15	5.25	2.32	HROFDY
222	0	0.14000E-04	598755.6	4130210.8	31.0	4.15	5.25	2.32	HROFDY
223	0	0.14000E-04	598748.1	4130219.2	31.0	4.15	5.25	2.32	HROFDY
224	0	0.14000E-04	598740.7	4130227.5	30.8	4.15	5.25	2.32	HROFDY

*** ISCST3 - VERSION 02035 *** *** Rocketship Charter School - Tamien - DPM *** 10/19/12
*** *** 19:33:50
**MODELOPTs: PAGE 3
CONC URBAN ELEV HE>ZI

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
225	0	0.14000E-04	598733.2	4130236.0	30.6	4.15	5.25	2.32	HROFDY
226	0	0.14000E-04	598725.7	4130244.5	30.3	4.15	5.25	2.32	HROFDY
227	0	0.14000E-04	598718.1	4130253.0	29.8	4.15	5.25	2.32	HROFDY
228	0	0.14000E-04	598710.4	4130261.0	29.5	4.15	5.25	2.32	HROFDY
229	0	0.14000E-04	598702.7	4130269.2	29.4	4.15	5.25	2.32	HROFDY
230	0	0.14000E-04	598695.0	4130277.5	29.2	4.15	5.25	2.32	HROFDY
231	0	0.14000E-04	598687.2	4130285.8	29.0	4.15	5.25	2.32	HROFDY
232	0	0.14000E-04	598679.6	4130294.0	28.8	4.15	5.25	2.32	HROFDY
233	0	0.14000E-04	598672.0	4130302.5	28.8	4.15	5.25	2.32	HROFDY
234	0	0.14000E-04	598664.4	4130310.8	29.0	4.15	5.25	2.32	HROFDY
235	0	0.14000E-04	598656.8	4130319.0	29.2	4.15	5.25	2.32	HROFDY
236	0	0.14000E-04	598649.1	4130327.2	29.3	4.15	5.25	2.32	HROFDY
237	0	0.14000E-04	598641.5	4130335.8	29.4	4.15	5.25	2.32	HROFDY
301	0	0.12600E-04	598615.5	4130279.0	34.0	4.15	5.25	2.32	HROFDY
302	0	0.12600E-04	598622.0	4130269.8	33.9	4.15	5.25	2.32	HROFDY
303	0	0.12600E-04	598628.5	4130260.5	33.9	4.15	5.25	2.32	HROFDY
304	0	0.12600E-04	598635.1	4130251.5	33.8	4.15	5.25	2.32	HROFDY
305	0	0.12600E-04	598641.6	4130242.2	33.8	4.15	5.25	2.32	HROFDY
306	0	0.12600E-04	598648.0	4130233.0	33.9	4.15	5.25	2.32	HROFDY
307	0	0.12600E-04	598654.3	4130223.5	34.1	4.15	5.25	2.32	HROFDY
308	0	0.12600E-04	598660.5	4130214.0	34.4	4.15	5.25	2.32	HROFDY
309	0	0.12600E-04	598666.7	4130204.8	34.8	4.15	5.25	2.32	HROFDY
310	0	0.12600E-04	598673.0	4130195.2	35.2	4.15	5.25	2.32	HROFDY
311	0	0.12600E-04	598679.2	4130186.0	35.6	4.15	5.25	2.32	HROFDY
312	0	0.12600E-04	598685.4	4130176.5	35.8	4.15	5.25	2.32	HROFDY
313	0	0.12600E-04	598691.6	4130167.0	36.0	4.15	5.25	2.32	HROFDY
314	0	0.12600E-04	598697.8	4130157.8	36.1	4.15	5.25	2.32	HROFDY
315	0	0.12600E-04	598704.0	4130148.2	35.8	4.15	5.25	2.32	HROFDY
316	0	0.12600E-04	598710.1	4130138.8	35.6	4.15	5.25	2.32	HROFDY
317	0	0.12600E-04	598716.3	4130129.5	35.4	4.15	5.25	2.32	HROFDY
318	0	0.12600E-04	598722.5	4130120.0	35.3	4.15	5.25	2.32	HROFDY
319	0	0.12600E-04	598727.6	4130110.0	35.3	4.15	5.25	2.32	HROFDY
320	0	0.12600E-04	598732.5	4130099.8	35.4	4.15	5.25	2.32	HROFDY
321	0	0.12600E-04	598734.7	4130088.8	35.4	4.15	5.25	2.32	HROFDY
322	0	0.12600E-04	598736.0	4130077.5	35.5	4.15	5.25	2.32	HROFDY
323	0	0.12600E-04	598735.4	4130066.5	35.5	4.15	5.25	2.32	HROFDY
324	0	0.12600E-04	598732.3	4130055.5	34.9	4.15	5.25	2.32	HROFDY
325	0	0.12600E-04	598729.3	4130044.8	34.2	4.15	5.25	2.32	HROFDY
326	0	0.12600E-04	598722.5	4130036.0	33.2	4.15	5.25	2.32	HROFDY
327	0	0.12600E-04	598714.9	4130027.5	32.0	4.15	5.25	2.32	HROFDY

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 *** ISCST3 - VERSION 02035 ***    ***  Rocketship Charter School - Tamien - DPM                          ***        10/19/12
                                   ***                                                                      ***        19:33:50
**MODELOPTs:                                                                                                            PAGE   4
CONC                    URBAN ELEV                                                                                       HE>ZI
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
401	0	0.59900E-03	598945.0	4129957.0	31.9	5.60	8.51	2.60	HROFDY
402	0	0.59900E-03	598934.7	4129972.2	31.7	5.60	8.51	2.60	HROFDY
403	0	0.59900E-03	598924.5	4129987.5	31.4	5.60	8.51	2.60	HROFDY
404	0	0.59900E-03	598914.3	4130002.5	31.0	5.60	8.51	2.60	HROFDY
405	0	0.59900E-03	598904.0	4130017.8	30.6	5.60	8.51	2.60	HROFDY
406	0	0.59900E-03	598893.8	4130033.0	30.3	5.60	8.51	2.60	HROFDY
407	0	0.59900E-03	598883.6	4130048.0	30.6	5.60	8.51	2.60	HROFDY
408	0	0.59900E-03	598873.3	4130063.2	31.2	5.60	8.51	2.60	HROFDY
409	0	0.59900E-03	598863.1	4130078.2	31.9	5.60	8.51	2.60	HROFDY
410	0	0.59900E-03	598852.8	4130093.5	32.3	5.60	8.51	2.60	HROFDY
411	0	0.59900E-03	598842.8	4130108.8	32.2	5.60	8.51	2.60	HROFDY
412	0	0.59900E-03	598833.1	4130124.2	31.6	5.60	8.51	2.60	HROFDY
413	0	0.59900E-03	598823.3	4130139.8	30.8	5.60	8.51	2.60	HROFDY
414	0	0.59900E-03	598813.6	4130155.2	30.0	5.60	8.51	2.60	HROFDY
415	0	0.59900E-03	598803.8	4130170.8	30.0	5.60	8.51	2.60	HROFDY
416	0	0.59900E-03	598794.1	4130186.0	30.2	5.60	8.51	2.60	HROFDY
417	0	0.59900E-03	598784.3	4130201.5	30.4	5.60	8.51	2.60	HROFDY
418	0	0.59900E-03	598774.5	4130217.0	30.5	5.60	8.51	2.60	HROFDY
419	0	0.59900E-03	598764.8	4130232.5	30.5	5.60	8.51	2.60	HROFDY
420	0	0.59900E-03	598755.1	4130248.0	30.2	5.60	8.51	2.60	HROFDY
421	0	0.59900E-03	598745.7	4130263.8	30.0	5.60	8.51	2.60	HROFDY
422	0	0.59900E-03	598736.3	4130279.5	29.7	5.60	8.51	2.60	HROFDY
423	0	0.59900E-03	598726.9	4130295.0	29.3	5.60	8.51	2.60	HROFDY
424	0	0.59900E-03	598717.5	4130310.8	28.8	5.60	8.51	2.60	HROFDY
425	0	0.59900E-03	598708.1	4130326.5	28.0	5.60	8.51	2.60	HROFDY
426	0	0.59900E-03	598698.7	4130342.2	27.5	5.60	8.51	2.60	HROFDY
427	0	0.59900E-03	598689.5	4130358.0	27.2	5.60	8.51	2.60	HROFDY
428	0	0.59900E-03	598680.5	4130374.0	26.9	5.60	8.51	2.60	HROFDY
429	0	0.59900E-03	598671.6	4130390.0	27.1	5.60	8.51	2.60	HROFDY
430	0	0.59900E-03	598662.6	4130405.8	27.5	5.60	8.51	2.60	HROFDY
431	0	0.59900E-03	598653.6	4130421.8	27.9	5.60	8.51	2.60	HROFDY
432	0	0.59900E-03	598644.7	4130437.8	28.2	5.60	8.51	2.60	HROFDY
433	0	0.59900E-03	598635.7	4130453.8	28.5	5.60	8.51	2.60	HROFDY
434	0	0.59900E-03	598626.7	4130469.5	28.7	5.60	8.51	2.60	HROFDY
435	0	0.59900E-03	598616.7	4130485.0	28.9	5.60	8.51	2.60	HROFDY
436	0	0.59900E-03	598606.3	4130500.0	29.2	5.60	8.51	2.60	HROFDY
437	0	0.59900E-03	598596.0	4130515.0	29.6	5.60	8.51	2.60	HROFDY
438	0	0.59900E-03	598585.6	4130530.0	30.1	5.60	8.51	2.60	HROFDY
439	0	0.59900E-03	598575.3	4130545.2	30.5	5.60	8.51	2.60	HROFDY
440	0	0.59900E-03	598564.9	4130560.2	31.0	5.60	8.51	2.60	HROFDY

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 *** ISCST3 - VERSION 02035 ***    ***  Rocketship Charter School - Tamien - DPM                          ***        10/19/12
                                   ***                                                                      ***        19:33:50
**MODELOPTs:                                                                                                            PAGE   5
CONC                    URBAN ELEV                                                                                       HE>ZI
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
441	0	0.59900E-03	598552.7	4130574.0	31.4	5.60	8.51	2.60	HROFDY
442	0	0.59900E-03	598540.6	4130587.5	31.8	5.60	8.51	2.60	HROFDY
443	0	0.59900E-03	598528.4	4130601.2	32.2	5.60	8.51	2.60	HROFDY
444	0	0.59900E-03	598516.3	4130615.0	32.5	5.60	8.51	2.60	HROFDY
445	0	0.14000E-04	598504.1	4130628.5	32.4	5.60	8.51	2.60	HROFDY

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 *** ISCST3 - VERSION 02035 ***    ***  Rocketship Charter School - Tamien - DPM                          ***        10/19/12
                                   ***                                                                      ***        19:33:50
**MODELOPTs:                                                                                                           PAGE  50
CONC                    URBAN ELEV                                                                                      HE>ZI

                                          *** THE SUMMARY OF MAXIMUM ANNUAL (   1 YRS) RESULTS ***


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

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

FREEWAY  1ST HIGHEST VALUE IS       0.04156 AT (  598750.62,  4130295.00,     30.22,      0.00)  DC      NA
         2ND HIGHEST VALUE IS       0.04123 AT (  598747.50,  4130300.00,     30.15,      0.00)  DC      NA
         3RD HIGHEST VALUE IS       0.04086 AT (  598744.19,  4130305.25,     30.06,      0.00)  DC      NA
         4TH HIGHEST VALUE IS       0.04061 AT (  598742.12,  4130308.50,     30.00,      0.00)  DC      NA
         5TH HIGHEST VALUE IS       0.03983 AT (  598736.81,  4130316.75,     29.77,      0.00)  DC      NA
         6TH HIGHEST VALUE IS       0.03949 AT (  598754.19,  4130297.00,     30.37,      0.00)  DC      NA
         7TH HIGHEST VALUE IS       0.03907 AT (  598731.38,  4130325.25,     29.46,      0.00)  DC      NA
         8TH HIGHEST VALUE IS       0.03824 AT (  598726.12,  4130333.75,     29.10,      0.00)  DC      NA
         9TH HIGHEST VALUE IS       0.03809 AT (  598734.19,  4130325.25,     29.63,      0.00)  DC      NA
        10TH HIGHEST VALUE IS       0.03767 AT (  598722.19,  4130340.00,     28.79,      0.00)  DC      NA

TRAINS   1ST HIGHEST VALUE IS       0.01373 AT (  598726.12,  4130333.75,     29.10,      0.00)  DC      NA
         2ND HIGHEST VALUE IS       0.01369 AT (  598736.81,  4130316.75,     29.77,      0.00)  DC      NA
         3RD HIGHEST VALUE IS       0.01346 AT (  598731.38,  4130325.25,     29.46,      0.00)  DC      NA
         4TH HIGHEST VALUE IS       0.01344 AT (  598747.50,  4130300.00,     30.15,      0.00)  DC      NA
         5TH HIGHEST VALUE IS       0.01340 AT (  598744.19,  4130305.25,     30.06,      0.00)  DC      NA
         6TH HIGHEST VALUE IS       0.01334 AT (  598742.12,  4130308.50,     30.00,      0.00)  DC      NA
         7TH HIGHEST VALUE IS       0.01332 AT (  598722.19,  4130340.00,     28.79,      0.00)  DC      NA
         8TH HIGHEST VALUE IS       0.01322 AT (  598750.62,  4130295.00,     30.22,      0.00)  DC      NA
         9TH HIGHEST VALUE IS       0.01296 AT (  598734.19,  4130325.25,     29.63,      0.00)  DC      NA
        10TH HIGHEST VALUE IS       0.01217 AT (  598754.19,  4130297.00,     30.37,      0.00)  DC      NA


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

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 *** ISCST3 - VERSION 02035 ***    ***  Rocketship Charter School - Tamien - DPM                          ***        10/19/12
                                   ***                                                                      ***        19:33:50
**MODELOPTs:                                                                                                           PAGE  51
CONC                    URBAN ELEV                                                                                      HE>ZI


*** Message Summary : ISCST3 Model Execution ***

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

A Total of            0 Fatal Error Message(s)
A Total of            2 Warning Message(s)
A Total of           65 Informational Message(s)

A Total of           65 Calm Hours Identified


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


   ********   WARNING MESSAGES   ********
OU W565   921 PERPLT:Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565   922 PERPLT:Possible Conflict With Dynamically Allocated FUNIT PLOTFILE

   ************************************
   *** ISCST3 Finishes Successfully ***
   ************************************
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Appendix E.
Risk Calculation Worksheets

Table E1
Quantification of Carcinogenic Risks and Noncarcinogenic Risks
Staff Exposure Scenario

Source Number*	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			Noncarcinogenic Hazards/ Toxicological Endpoints**									
						URF	CPF	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
		(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$		(ug/m^3)	(mg/kg/day)								
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
1	B&M Auto Body	1.34E-01	1.34E-04	0.18	Butyl acetate				1.7E+03	4.9E-01					1.4E-05	1.4E-05		
				0.09	Toluene				3.0E+02	8.6E-02	4.0E-05	4.0E-05					4.0E-05	
				0.004	Butyl cellosolve				1.4E+04	4.0E+00	3.8E-08							3.8E-08
				0.001	PGME				7.0E+03	2.0E+00						1.9E-08		
2	Caltrain - Locomotives	1.38E-02	1.38E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	6.9E-07	5.0E+00	1.4E-03	2.8E-03							
5	SR-87	2.51E-02	2.51E-05	6.33E-01	Benzene	2.9E-05	1.0E-01	7.7E-08	6.0E+01	1.7E-02		2.6E-04	2.6E-04				2.6E-04	
				2.04E-01	Formaldehyde	6.0E-06	2.1E-02	5.1E-09	9.0E+00	2.6E-03	5.7E-04							5.7E-04
				8.63E-02	1,3-Butadiene	1.7E-04	6.0E-01	6.2E-08	2.0E+01	5.7E-03							1.1E-04	
				7.65E-02	Acetaldehyde	2.7E-06	9.5E-03	8.7E-10	9.0E+00	2.6E-03	2.1E-04							
		1.38E-02	1.38E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	6.9E-07	5.0E+00	1.4E-03	2.8E-03							
	TOTAL							1.5E-06			6.3E-03	3.1E-04	2.6E-04	0.0E+00	1.4E-05	1.4E-05	4.1E-04	5.7E-04

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	180
exposure duration (years)	25
inhalation rate (m^3/day)	19.0
average body weight (kg)	70.0
averaging time$_{(cancer)}$ (days)	25,550
averaging time$_{(noncancer)}$ (days)	9,125

Table E2
Quantification of Carcinogenic Risks and Noncarcinogenic Risks
Student Exposure Scenario

Source Number*	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk			Noncarcinogenic Hazards/ Toxicological Endpoints**									
						URF	CPF	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
		(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$		(ug/m^3)	(mg/kg/day)								
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
1	B&M Auto Body	1.34E-01	1.34E-04	0.18	Butyl acetate				1.7E+03	4.9E-01					1.4E-05	1.4E-05		
				0.09	Toluene				3.0E+02	8.6E-02	4.0E-05	4.0E-05					4.0E-05	
				0.004	Butyl cellosolve				1.4E+04	4.0E+00	3.8E-08							3.8E-08
				0.001	PGME				7.0E+03	2.0E+00						1.9E-08		
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5	SR-87	2.51E-02	2.51E-05	6.34E-01	Benzene	2.9E-05	1.0E-01	1.4E-07	6.0E+01	1.7E-02		2.7E-04	2.7E-04				2.7E-04	
				2.04E-01	Formaldehyde	6.0E-06	2.1E-02	9.2E-09	9.0E+00	2.6E-03	5.7E-04							5.7E-04
				8.60E-02	1,3-Butadiene	1.7E-04	6.0E-01	1.1E-07	2.0E+01	5.7E-03							1.1E-04	
				7.60E-02	Acetaldehyde	2.7E-06	9.5E-03	1.5E-09	9.0E+00	2.6E-03	2.1E-04							
		1.38E-02	1.38E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.2E-06	5.0E+00	1.4E-03	2.8E-03							
	TOTAL							2.7E-06			6.3E-03	3.1E-04	2.7E-04	0.0E+00	1.4E-05	1.4E-05	4.1E-04	5.7E-04

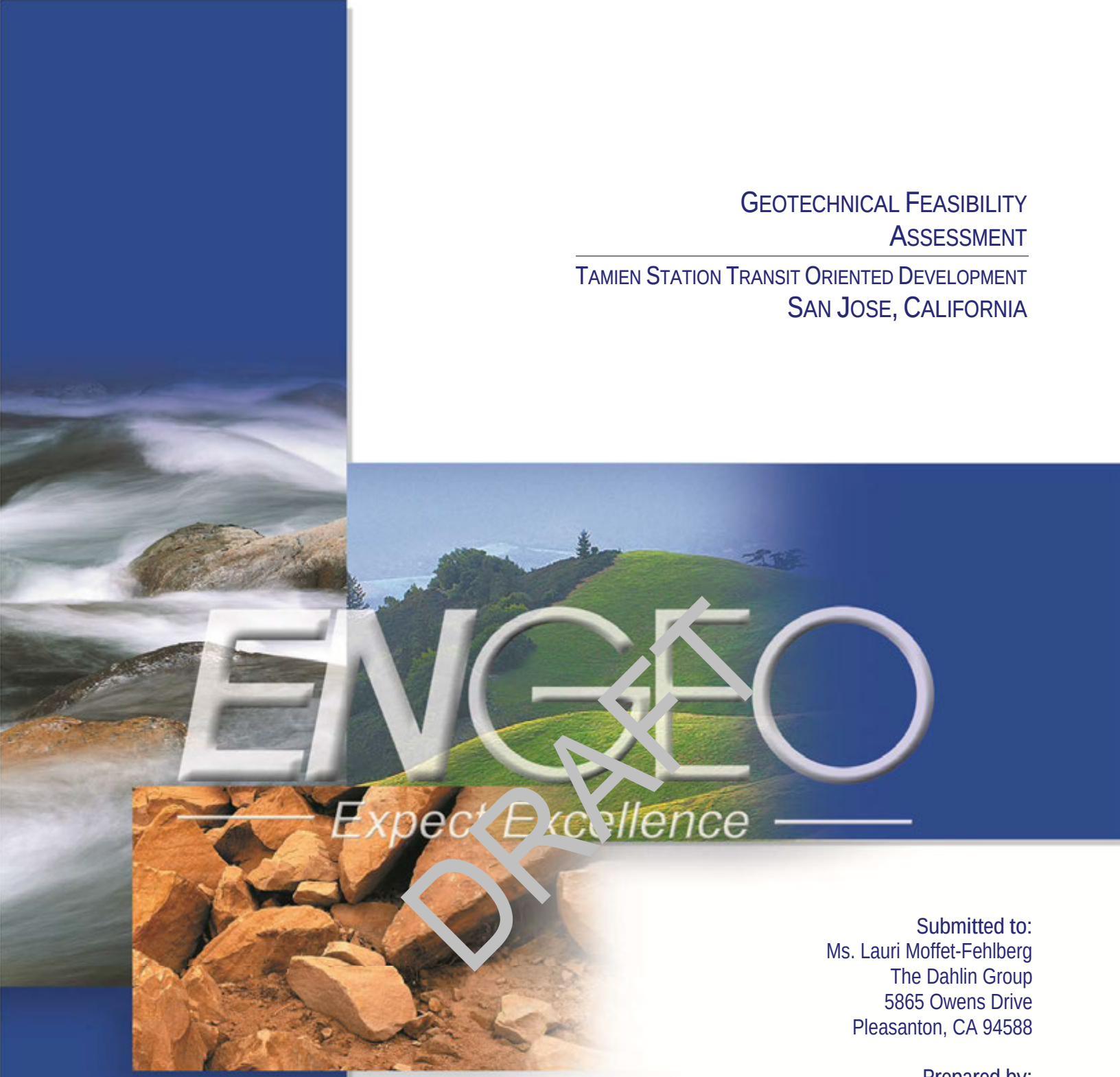
** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

	OEHHA cancer risk weighting factor - school childr	3
Note:	Exposure factors used to calculate contaminant intake	
	exposure frequency (days/year)	180
	exposure duration (years)	9
	inhalation rate (m^3/day)	13.1
	average body weight (kg)	29.0
	averaging time $_{(cancer)}$ (days)	25,550
	averaging time$_{(noncancer)}$ (days)	3,285

GEOTECHNICAL FEASIBILITY ASSESSMENT

TAMIEN STATION TRANSIT ORIENTED DEVELOPMENT
SAN JOSE, CALIFORNIA



DRAFT

Submitted to:
Ms. Lauri Moffet-Fehlberg
The Dahlin Group
5865 Owens Drive
Pleasanton, CA 94588

Prepared by:
ENGEO Incorporated

February 24, 2014

Project No:
10851.000.000

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Project No.
10851.000.000

February 24, 2014

Ms. Lauri Moffet-Fehlberg
The Dahlin Group
5865 Owens Drive
Pleasanton, CA 94588

Subject: Tamien Station Transit Oriented Development
San Jose, California

GEOTECHNICAL FEASIBILITY ASSESSMENT

DRAFT

Dear Ms. Moffet-Fehlberg:

With your authorization, we completed this geotechnical feasibility assessment for the Tamien Station Transit Oriented Development Project in San Jose, California. The accompanying geotechnical feasibility assessment presents our field exploration with our conclusions and preliminary recommendations regarding the proposed transit-oriented development (TOD).

Our findings indicate that the study area is suitable for the proposed TOD provided the preliminary recommendations and guidelines provided in this report are implemented during project planning. Additional design-level geotechnical exploration services will be required for grading plan preparation, construction and foundation design. We are pleased to have been of service to you on this project and are prepared to consult further with you and your design team as the project progresses.

Sincerely,

ENGEO Incorporated

Cierra Atkinson, EIT

Paul C. Guerin, GE

Yan Lap Janet Kan, CEG, GE
cja/jk/pcg/jf

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1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

The purpose of this preliminary geotechnical assessment is to provide preliminary conclusions and recommendations for the proposed transit-oriented development (TOD) next to the Tamien Caltrain Station in San Jose, California. The information presented in this report may be used for general land planning purposes.

The scope of our services included:

- Reviewing available literature and geologic maps for the immediate area.
- Performing limited subsurface exploration consisting of five cone penetration test (CPT) probes.
- Performing CARB 435 testing for naturally occurring asbestos on three representative near-surface samples.
- Preparing a report summarizing our initial recommendations for proposed site development and recommendations for additional studies.

We prepared this report exclusively for the site owner, The Dahlin Group, and their design team consultants. ENGEO should review any changes made in the character, design or layout of the development to modify the conclusions and recommendations contained in this report, as necessary. This document may not be reproduced in whole or in part by any means whatsoever, nor may it be quoted or excerpted without the express written consent of ENGEO.

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1.2 SITE LOCATION AND DESCRIPTION

The project site is located east of the Tamien Caltrain Station and is bounded by Lick Avenue to the east and vacant properties to the north and south as shown on Figures 1 and 2. Highway 87 is located directly west of the Tamien Caltrain Station. The site is approximately 6 acres in size. The northern portion of the site is currently used for temporary staging of construction equipment and the southern portion is currently used for Caltrain parking and a daycare center.

1.3 PROPOSED DEVELOPMENT

According to the development plan prepared by Dahlin Group dated April 5, 2013, the project site will be divided into two parcels (Figure 2). The northern parcel will be developed with six townhome buildings up to 3 stories high. The southern parcel will be developed into a wrap style multi-family complex which includes a 5-story central parking structure surrounded with wood-frame residential units. We understand that all planned structures will be at grade and no

subterranean levels are planned. Interior streets, utilities and landscaped areas are also planned within the project site.

1.4 HISTORY OF SITE

We reviewed individual aerial photographs of the site dated 1948, 1956, 1968, 1980, 1987, 1993, 1998, 2002, 2004, and publically available photographs at http://www.historicaerials.com and Google Earth.

Review of the photographs indicates that in 1948 and 1958 the southern edge of the site was an orchard and the remainder of the site was covered with sheds and warehouse type structures. In addition, the railroad is visible along the west boundary of the site. By 1968, the southern edge of the site is covered with structures. Structures on site were demolished and construction of Highway 87 began between 1987 and 1993. The daycare center was constructed between 1998 and 2000. By 2000, the parking lots, roads, and buildings onsite resembled the current configuration.

In addition, according to records published by the State Water Resources Control Board (www.geotracker.waterboards.ca.gov), two former underground storage tanks were located in close vicinity to northeast corner of the project site. The tanks and associated impacted soils were removed in 1989.

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2.0 GEOLOGY AND SEISMICITY

2.1 REGIONAL GEOLOGY AND SITE SOILS

Regional geologic maps locate the site in the broad, north-south trending, alluvial Santa Clara Valley. Geologic mapping by Wentworth (1999) indicates the site is underlain by Holocene-age levee deposits (Qhl) associated with the Guadalupe River as shown on Figure 3. Wentworth (1999) describes the Holocene levee deposits as typically loose sandy and clayey silt ranging to sandy and silty clay.

2.2 SITE SEISMICITY

The site is not located within a State of California Earthquake Fault Hazard Zone (1982) and no known faults cross the site. The nearest known faults are the San Jose fault mapped approximately 1.6 miles southeast of the site and the Silver Creek fault mapped approximately 1.9 miles northeast of the site. Neither of these faults is considered active[1]. The site is within a State of California Seismic Hazard Zones Map (2002) for liquefaction susceptibility, as presented on Figure 4.

[1] An active fault is defined by the State Mining and Geology Board as one that has had surface displacement within Holocene time (about the last 11,000 years) (Hart, 1997).

The most common nearby active faults within 20 miles of the site are provided in the following table based on United States Geologic Survey (USGS) 2008 National Seismic Hazard Maps and the USGS 2010 Google Earth quaternary fault database. Figure 5 shows the approximate locations of these faults and significant historic earthquakes recorded within the Greater Bay Area Region.

TABLE 2.2-1
Regional Faults and Seismicity

Fault Name	Approximate Distance (miles)	Approximate Direction from Site
Monte Vista-Shannon	6.3	West
Calaveras	8.5	East
Hayward	9.9	Northeast
San Andreas	11.2	Southwest
Zayante Vergeles	16.3	Southwest

Because of the presence of nearby active faults, the Bay Area Region is considered seismically active. Numerous small earthquakes occur every year in the region, and large (>M7) earthquakes have been recorded and can be expected to occur in the future. Ground motions are typically expressed as a fraction of the acceleration due to gravity (g). As described in the 2013 California Building Code (CBC) Section 1803.5.12, the mapped MCE geometric mean peak ground acceleration (PGA) is 0.50g.

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3.0 FIELD EXPLORATION

The field exploration for this study was conducted on February 6 and 13, 2014, and consisted of advancing five cone penetration test (CPT) probes. The CPTs were advanced from 45 to 65 feet below ground surface (bgs) and their locations are shown on Figure 2. The CPT locations were established by taping and visual sighting from existing features and should be considered accurately located only to the degree implied by the method used.

The CPT equipment used was equipped with a 20-ton compression-type cone with a 15-square-centimeter (cm^2) base area, an apex angle of 60 degrees, and a friction sleeve with a surface area of 225 cm^2. The cone, connected with a series of rods, is pushed into the ground at a constant rate. Cone readings are taken at approximately 5-cm intervals with a penetration rate of 2 cm per second in accordance with revised (2002) ASTM standards (D-5778-95). Measurements include the tip resistance to penetration of the cone (Qc), the resistance of the surface sleeve (Fs), and dynamic pore pressure (U). The CPT logs and supporting empirical data are located in Appendix A. The CPT holes were backfilled with cement-bentonite grout.

3.1 LABORATORY TESTING

We submitted three grab samples collected from near-surface soils for outside laboratory testing to measure the content of Naturally Occurring Asbestos (NOA) in accordance with CARB 435 testing procedures. Figure 2 presents the approximate locations of the NOA soil samples. The results of the CARB 435 testing for NOA are presented in Appendix B.

3.2 SUBSURFACE CONDITIONS

The northern area is covered with seasonal grasses (1-CPT4 and 1-CPT5) and the southern area (1-CPT1, 1-CPT2 and 1-CPT3) is currently paved. Rig refusal was encountered at 65 feet and 45 feet at the location of 1-CPT1 and 1-CPT4, respectively.

Based on empirical correlations of 1-CPT4 and 1-CPT5, the northern area (proposed townhome parcel) is underlain by approximately 8 to 9 feet of stiff to very stiff clayey, silty and sandy deposits. Based on the site topography, soils encountered within the upper 8 to 9 feet may be manmade fill. Beneath the fill materials, medium stiff to stiff clayey deposits were encountered and extend to approximately 38 to 42 feet bgs. Very dense sandy deposits are then encountered and extend to the termination depths of 1-CPT4 and 1-CPT5.

For the southern parcel, subsurface conditions encountered at 1-CPT1, 1-CPT-2 and 1-CPT3 consist of very dense or very stiff clayey and gravelly soil within the upper 5 to 6 feet, which may represent fill. At 1-CPT2, a layer of dense sand is encountered between 6 and 10 feet bgs. Below the fill at 1-CPT1 and 1-CPT3 and the sandy layer at 1-CPT-2, stiff clay and silty clay deposits were encountered and extend to approximately 38 to 45 feet bgs. Very dense sandy deposits and very stiff clayey deposits are then encountered and extend to the termination depths of 1-CPT1, 1-CPT2 and 1-CPT3.

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3.3 GROUNDWATER

A water level indicator instrument was used upon removal of the CPT probes to record groundwater levels at the time of drilling. Groundwater was recorded between 18 and 20 feet bgs in three of the CPT probes during our exploration activities. Plate 1.2 of the Seismic Hazard Zone Report for the San Jose West Quadrangle (2002) maps the highest historical groundwater in the site vicinity at 15 feet to 20 feet bgs.

Fluctuations in groundwater levels should be expected during seasonal changes or over a period of years because of precipitation changes, perched zones, changes in drainage patterns, or irrigation. For preliminary design and budgeting purposes, a groundwater level at 15 feet bgs, may be considered.

4.0 DISCUSSION AND CONCLUSIONS

From a geologic and geotechnical standpoint, the study area appears to be suitable for the proposed transit-oriented development. The preliminary recommendations in this report should be considered in the initial planning for the study area. Design-level explorations will be required to create a final land plan and to develop recommendations for site grading and foundations. Potential geologic and geotechnical hazards relevant to the proposed development are discussed below.

4.1 SEISMIC HAZARDS

Potential seismic hazards resulting from a nearby moderate to major earthquake can generally be classified as primary and secondary. The primary effect is ground rupture, also called surface faulting. The common secondary seismic hazards include ground shaking, liquefaction, densification and lateral spreading. The following sections present a discussion of these hazards as they apply to the site.

Based on topographic and lithologic data, the risk of regional subsidence/uplift, landslides, tsunamis, or seiches is considered low to negligible at the site.

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4.1.1 Ground Rupture

As described above, the site is not located within a State of California Earthquake Fault Hazard Zone (1982) and no known active faults cross the site. Therefore, it is our opinion that ground rupture is unlikely at the subject property.

4.1.2 Ground Shaking

An earthquake of moderate to high magnitude generated within the San Francisco Bay Region could cause considerable ground shaking at the site, similar to that which has occurred in the past. To mitigate the shaking effects, all structures should be designed using sound engineering judgment and the California Building Code (CBC) requirements, as a minimum.

Seismic design provisions of current building codes generally prescribe minimum lateral forces, applied statically to the structure, combined with the gravity forces of dead-and-live loads. The code-prescribed lateral forces are generally considered to be substantially smaller than the comparable forces that would be associated with a major earthquake. Therefore, structures should be able to: (1) resist minor earthquakes without damage, (2) resist moderate earthquakes without structural damage but with some nonstructural damage, and (3) resist major earthquakes without collapse but with some structural as well as nonstructural damage. Conformance to the current building code recommendations does not constitute any kind of guarantee that significant structural damage would not occur in the event of a maximum magnitude earthquake; however, it is reasonable to expect that a well-designed and well-constructed structure will not collapse or cause loss of life in a major earthquake (SEAOC, 1996).

4.1.3 Liquefaction

Liquefaction is a phenomenon in which saturated, loose or medium dense, cohesionless soils are subject to a temporary, but essentially total, loss of shear strength because of pore pressure build-up under the reversing cyclic shear stresses associated with earthquakes. The site is mapped within a potentially liquefiable zone as identified by the State of California Seismic Hazard Zone Map (Figure 4).

We performed preliminary liquefaction analyses on the CPT probes using the computer program CLiq. We considered a groundwater level of 15 feet bgs for the site in our preliminary liquefaction analysis. In addition, we considered a PGA of 0.5g and a Mw of 6.7. Our analyses were based on guidelines provided in DMG Special Publication 117A (2008) and methods developed Robertson and Wride (1997), Robertson and Campanella (1988) and Finn (1996).

The analyses indicated that layers of silty and sandy materials encountered below 40 feet bgs within the northern parcel (proposed townhome development area) may be potentially liquefiable. These silty and sandy layers, generally ranging from ½ to 2 feet thick, do not appear to be continuous. For the southern parcel, a ½-foot-thick silty soil layer at 27 feet bgs, ½-foot-thick sandy layers between 38 and 42 feet bgs and 2-foot-thick sandy and gravelly layer below 47 feet bgs are considered potentially liquefiable.

We evaluated potential post-liquefaction ground settlement at the site using the computer program CLiq. Based on our liquefaction analyses and for preliminary purposes, we recommend theoretical total liquefaction-induced volumetric strain settlements up to approximately ¼ inch at the northern parcel and up to approximately ½ inch at the southern parcel may occur at the site as a result of a strong seismic event. Results of our liquefaction analysis are included in Appendix C.

It is important to update the liquefaction analysis during a design-level study. Soil samples of the of fine-grained soils should be tested during a design-level study for moisture content, plasticity index, and gradation to correlate with liquefaction hazard criterion published by Bray and Sancio (2006), Idriss and Boulanger (2004), and Seed (2003).

4.1.4 Lateral Spreading

Lateral spreading is a failure within a nearly horizontal soil zone (possibly due to liquefaction) that causes the overlying soil mass to move toward a free face or down a gentle slope. Generally, the effects of lateral spreading are most significant at the free face or the crest of a slope and diminishes with distance from the slope.

As discussed in the above sections, the upper 27 feet of site soils are generally non-liquefiable. The potentially liquefiable deposits identified above do not appear to intersect with the free face created by existing slopes within the project site. Thus, it is our opinion that the potential for lateral spreading is low.

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4.2 COMPRESSIBLE SOIL

Clayey soils encountered within the project site are generally stiff to very stiff and do not exhibit compressive behavior under low to moderate loading conditions such as from the proposed 3-story townhome buildings. However, based on our experience with wrap-style developments, structural loading of the central garage will be high. Stiff to very stiff clays may potentially compress under high structural loads imposed by the central garage.

For preliminary project planning purposes, based on an assumed uniform central garage structural load of 1,500 psf, we estimate total load-induced settlement of 2 to 3 inches assuming the garage is supported on a convention mat foundation. Residential units within the wrap-style complex imposing up to 1,000 psf on the foundation soils may result in approximately ½ to 1 inch of settlement. Differential settlement between the central garage and surrounding residential should be considered. The actual amount of total and differential settlement is highly dependent on the actual structural loading and the type of foundation support of the proposed structures.

Load-induced settlement should be reevaluated during future design-level study when building and grading concepts are defined.

4.3 NATURALLY OCCURING ASBESTOS

The alluvial deposits along the Guadalupe River in San Jose were commonly derived from the Franciscan Assemblage bedrock. Therefore, we collected surficial soil samples within the project site for Naturally Occurring Asbestos (NOA) testing to determine if NOA is present within the surficial soil. The laboratory test results indicate that none of the samples contained asbestos greater than the 0.25% sensitivity limit of the test method.

4.4 EXPANSIVE SOIL

Sampling and testing of site soils were not performed as part of this study; however, based upon visual observation and our experience on nearby projects, the surficial soils at the site are expected to be moderately expansive. Expansive soils shrink and swell as a result of moisture changes. This can cause heaving and cracking of slabs-on-grade, pavements, and structures founded on shallow foundations.

Successful construction on expansive soils requires special attention during grading. It is imperative to keep exposed soils moist by occasional sprinkling. If the soils dry, it is extremely difficult to remoisturize the soils (because of their clayey nature) without excavation, moisture conditioning, and recompaction.

Conventional grading operations, incorporating fill placement specifications tailored to the expansive characteristics of the soil, and use of a mat foundation (either post-tensioned or conventionally reinforced) are common, generally cost-effective measures to address the

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expansive potential of the foundation soils. Based upon our initial findings, the effects of expansive soils are expected to pose a low impact when mitigated.

4.5 EXISTING FILLS

Existing fills may be present within the project site. In addition, based on historic use of the site, foundations and pipes associated with former site structures may be present beneath the paved surface or surficial fill. Existing fills could undergo vertical movement that is not easily characterized and could ultimately be inadequate to effectively support the proposed building loads. For preliminary design and estimate purposes, up to 9 feet of existing fill may exist within the northern parcel and up to 6 feet of existing fill may exist within the southern parcel. In general, undocumented fills should be excavated and replaced as engineered soil fill.

The extent and quality of existing fills should be evaluated at the time of design-level study and mitigated during grading activities.

4.6 SOIL CORROSIVITY CONSIDERATIONS

We did not collect soil samples for soil corrosivity testing. For preliminary design and planning purposes, we recommend Type II cement and a concrete mix design that incorporates a maximum water-cement ratio of 0.5 and a minimum compressive strength of 3,000 psi be considered for structures at the project site.

Representative samples of the near-finished grade soils should be obtained during design-level studies or during grading to determine the potential for sulfate attack on foundation concrete and provide recommended concrete design parameters in accordance with the guidelines presented in ACI and CBC.

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4.7 CONCLUSIONS

Based upon this preliminary study, it is our opinion that the project site is suitable for the proposed development. In our opinion, the significant potential geotechnical issues for the site are:

- Potential minor liquefaction-induced settlement
- Potential load-induced settlement of the wrap-style complex
- Presence of expansive soils
- Presence of existing fills

A design-level geotechnical exploration should be performed as part of the design process, which would include borings, test pits, and laboratory soil testing as needed to provide data for preparation of specific recommendations regarding site grading, remedial grading measures, foundations, and drainage for the proposed transit-oriented, master-planned community. The exploration will also allow for more detailed evaluations of the above-described geotechnical

issues and afford the opportunity to provide techniques and procedures to be implemented during construction to mitigate potential geotechnical/geological hazards.

5.0 PRELIMINARY RECOMMENDATIONS

The following preliminary recommendations are for initial land planning and estimating purposes. Final design-level recommendations regarding site grading and foundation construction will be provided after additional site-specific exploration has been undertaken.

5.1 DEMOLITION AND STRIPPING

Site development should commence with the removal of the existing buildings and utilities, vegetation, and surface and subsurface improvements. All debris or soft compressible soils should be removed from any location to be graded, from areas to receive fill or structures, or those areas to serve as borrow. The depth of removal of such materials should be determined by the Geotechnical Engineer in the field at the time of grading.

For existing landscape areas, the existing vegetation should be removed from areas to receive fill or structures, or those areas to serve for borrow. Tree roots should be removed down to a depth of at least 3 feet below finished grade. The actual depths of tree root removal should be determined by the Geotechnical Engineer's representative in the field. Subject to approval by the Landscape Architect, strippings and organically contaminated soils can be used in landscape areas. Otherwise, such soils should be removed from the project site. Any topsoil that will be retained for future use in landscape areas should be stockpiled in areas where it will not interfere with grading operations.

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5.2 EXISTING FILL

Where applicable, existing fill, utility trench backfill, and existing foundation backfill are considered undocumented and should be subexcavated to expose underlying competent native soils that are approved by the Geotechnical Engineer. If in a fill area, the base of the excavations should be processed, moisture conditioned, as needed, and compacted in accordance with the recommendations for engineered fill.

5.3 SELECTION OF MATERIALS

With the exception of construction debris (wood, brick, asphalt, concrete, metal, etc.), trees, organically contaminated materials (soil which contains more than 3 percent organic content by weight), and environmentally impacted soils (if any), we anticipate the site soils are suitable for use as engineered fill provided they are broken down to 3 inches or less in size. Other materials and debris, including trees with their root balls, should be removed from the project site.

5.4 GRADED SLOPES

In general and for preliminary purposes, graded slopes should be no steeper than 2:1 (horizontal:vertical). Depending on the findings of future explorations, other slope configurations may be feasible.

5.5 DIFFERENTIAL FILL THICKNESS

For subexcavation activities that create a differential fill thickness across a building footprint, mitigation to achieve a similar fill thickness across the pad is beneficial for the performance of a shallow foundation system. We recommend that a differential fill thickness of up to 5 feet is acceptable across a building footprint. For a differential fill thickness exceeding 5 feet across a footprint, we recommend performing subexcavation activities to bring this vertical distance to within the 5-foot tolerance and that the material be replaced as engineered fill. As a minimum, the subexcavation area should include the entire structure footprint plus 5 feet beyond the edges of the building footprint.

5.6 FILL PLACEMENT

For land planning and cost estimating purposes, the following compaction control requirements should be anticipated for general fill areas:

Test Procedures:	ASTM D-1557.
Required Moisture Content:	Not less than 3 percentage points above optimum moisture content.
Minimum Relative Compaction:	Not less than 90 percent.

Relative compaction refers to the in-place dry density of soil expressed as a percentage of the maximum dry density of the same material. Additional compaction requirements may be required that will be developed during our detailed exploration.

5.7 2013 CALIFORNIA BUILDING CODE SEISMIC DESIGN PARAMETERS

Based on the CPT empirical correlations and local seismic sources, the following preliminary 2013 California Building Code (CBC) seismic design parameters may be considered for land planning purposes. These parameters should be reevaluated during design-level explorations.

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TABLE 5.7-1
2013 CBC Seismic Information

Parameter	Design Value
Site Class	D
Mapped MCE_R Spectral Response Acceleration at Short Periods, S_S (g)	1.5
Mapped MCE_R Spectral Response Acceleration at 1-second Period, S_1 (g)	0.6
Site Coefficient, F_A	1.0
Site Coefficient, F_V	1.5
MCE_R Spectral Response Acceleration at Short Periods, S_{MS} (g)	1.5
MCE_R Spectral Response Acceleration at 1-second Period, S_{M1} (g)	0.9
Design spectral response acceleration at short periods, S_{DS} (g)	1.0
Design spectral response acceleration at 1-second periods, S_{D1} (g)	0.6
Mapped MCE Geometric Mean Peak Ground Acceleration (g)	0.5
Site Coefficient, F_{PGA}	1.0
MCE Geometric Mean Peak Ground Acceleration, PGA_M (g)	0.5

Latitude = 37.313328; Longitude = -121.884018

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5.8 FOUNDATION DESIGN

The following sections present preliminary foundation recommendations for the planned wrap apartment complex on the south end of the site and the planned townhome buildings on the north end of the site.

5.8.1 Central Garage and Wrap Residential Buildings

A wrap-style apartment complex consisting of a central garage with surrounding residential buildings is planned within the southern parcel. Based on our experience, foundation design for a wrap-style apartment complex is dependent on the tolerable total and differential settlement under the proposed structures as well as the tolerable differential settlement between the central garage and the residential buildings.

Provided the liquefaction-induced settlement plus the load-induced settlement is within tolerable amounts for the central garage and the surrounding residential buildings, the central garage may be supported on a conventionally reinforced structural mat foundation or shallow footings. We anticipate a post-tensioned structural mat foundation may be appropriate for the wood-frame residential buildings.

For the parking structure, a minimum mat thickness of 16 inches should be anticipated. For the wood-frame residential buildings, a minimum mat thickness of 12 inches should be anticipated.

An average allowable bearing pressure of 1,500 psf and 1,000 psf can be considered for dead-plus-live loads for the garage mat and the surrounding residential mat, respectively. Alternatively, the garage can be supported on shallow footings embedded at least 24 inches. Shallow footings for the garage may impose a maximum allowable bearing pressure of 2,500 psf. The preliminary allowable bearing values may be increased by one-third when considering total loads including wind or seismic.

If the estimated total and differential settlement (load-induced plus liquefaction-induced) exceeds a tolerable amount, we anticipate a drilled pier foundation or an intermediate foundation system such as Rammed Aggregate Piers (RAP) will be required. Based on our experience, a RAP foundation system may provide an increased bearing capacity ranging from 3,500 to 4,000 psf with a reduced potential for differential settlement.

Further discussion about proposed building loads and layouts, additional exploration, laboratory testing, and detailed assessment of estimated liquefaction- and load-induced settlements should occur prior to preparation of site-specific foundation designs for the development. The amount of estimated settlement will impact the selection of foundation type for the structures.

5.8.2 Townhome Buildings

Based on subsurface conditions encountered within the northern portion of the project site, the townhome buildings may be supported on post-tensioned structural mats. A minimum mat thickness of 12 inches should be anticipated for preliminary purposes. A maximum allowable bearing pressure of 1,000 psf can be considered. The allowable bearing pressure may be increased by one-third when considering total loads including wind or seismic.

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5.9 RETAINING WALLS

For preliminary purposes, unrestrained drained retaining walls constructed on level ground with level backfill may be designed using an active equivalent fluid weight of 50 pounds per cubic foot (pcf). Restrained walls should be designed as drained retaining walls using an at-rest fluid pressure of 80 pcf for level backfill conditions.

Drainage facilities should be installed behind retaining walls to prevent the build-up of hydrostatic pressures on the walls. Wall drainage may be provided using 4-inch-diameter perforated (SDR 35 or approved equivalent) pipe encapsulated in either Class 2 permeable material, or free-draining gravel surrounded by synthetic filter fabric. The width of the gravel-type drain blanket should be at least 12 inches. The drain blanket should extend from base of the wall to about one foot below the finished grade. The upper one foot of wall backfill should consist of onsite clayey soil. If preapproved by the Geotechnical Engineer, prefabricated wall drain panels could be considered in lieu of the granular drain blanket above the pipe system. Collected water should flow to an outlet approved by the Civil Engineer via solid pipe.

5.10 PRELIMINARY PAVEMENT DESIGN

The following preliminary pavement sections have been determined for Traffic Indices of 5 to 7, an assumed R-value of 5, and in accordance with the design methods contained in Topic 610 of Caltrans Highway Design Manual (2012). The section below considers private and public streets with Hot Mix Asphalt (HMA) section thickness required by the City of San Jose.

TABLE 5.10-1
Preliminary Pavement Sections

Traffic Index	HMA (inches)	AB (inches)
5.0	4.2*	7.0
6.0	4.2*	11.0
7.0	4.2*	15.0

Notes: HMA – Hot Mix Asphalt (* indicates city minimum thickness of 0.35 feet)
AB – Caltrans Class 2 aggregate base (R-value of 78 or greater)

The above preliminary pavement sections are provided for estimating only. We recommend the actual subgrade material be tested for R-value once established and the Traffic Index and minimum pavement section(s) should be confirmed by the Civil Engineer and the City of San Jose.

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5.11 SURFACE DRAINAGE

The building pads must be positively graded at all times to provide for rapid removal of surface water runoff from the foundation systems and to prevent ponding of water under floors or seepage toward the foundation systems at any time during or after construction. Ponding of stormwater must not be permitted on the building pads during prolonged periods of inclement weather. As a minimum requirement, finished grades should have slopes of at least 5 percent within 10 feet from the exterior walls at right angles to them to allow surface water to drain positively away from the structures. For paved areas, the slope gradient can be reduced to 2 percent. All surface water should be collected and discharged into the storm drain system. Landscape mounds must not interfere with this requirement.

All roof stormwater should be collected and directed to downspouts. Stormwater from roof downspouts should not be allowed to discharge onto splashblocks or into landscape areas within 5 feet from the foundation; rather they should discharge through the curb and into the street or onto an impermeable material that drains into the street. ENGEO should be consulted to develop alternate recommendations if these criteria are not feasible.

5.12 STORMWATER TREATMENT AND FACILITIES

Due to the relatively high clay content and density of the underlying soils, the near-surface site soils are not expected to have adequate permeability values to handle stormwater infiltration in

grassy swales or permeable pavers, unless subdrains are installed. Therefore, best management practices should assume that little stormwater infiltration will occur at the site.

5.13 REQUIREMENTS FOR LANDSCAPING IRRIGATION

If planting adjacent to the buildings is desired, we recommend using plants that require very little moisture with drip irrigation systems. Similarly, sprinkler systems should not be installed where they may cause ponding or saturation of foundation soils within 5 feet of the walls or under the structures as ponding or saturation of foundation soils may cause loss of soil strength, and movements of the foundation and slabs.

Irrigation of landscaped areas should be strictly limited to that necessary to sustain vegetation. Excessive irrigation could result in saturating and weakening of foundation soils.

6.0 LIMITATIONS AND UNIFORMITY OF CONDITIONS

This report is issued with the understanding that it is the responsibility of the owner to transmit the information and recommendations of this report to developers, owners, buyers, architects, engineers, and designers for the project so that the necessary steps can be taken by the contractors and subcontractors to carry out such recommendations in the field. The conclusions and recommendations contained in this report are solely professional opinions.

The professional staff of ENGEO strives to perform its services in a proper and professional manner with reasonable care and competence but is not infallible. There are risks of earth movement and property damages inherent in land development. We are unable to eliminate all risks or provide insurance; therefore, we are unable to guarantee or warrant the results of our services.

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FIGURES

Figure 1 - Vicinity Map
Figure 2 - Site Plan
Figure 3 - Regional Geologic Map
Figure 4 - Seismic Hazard Zones Map
Figure 5 – Regional Faulting and Seismicity

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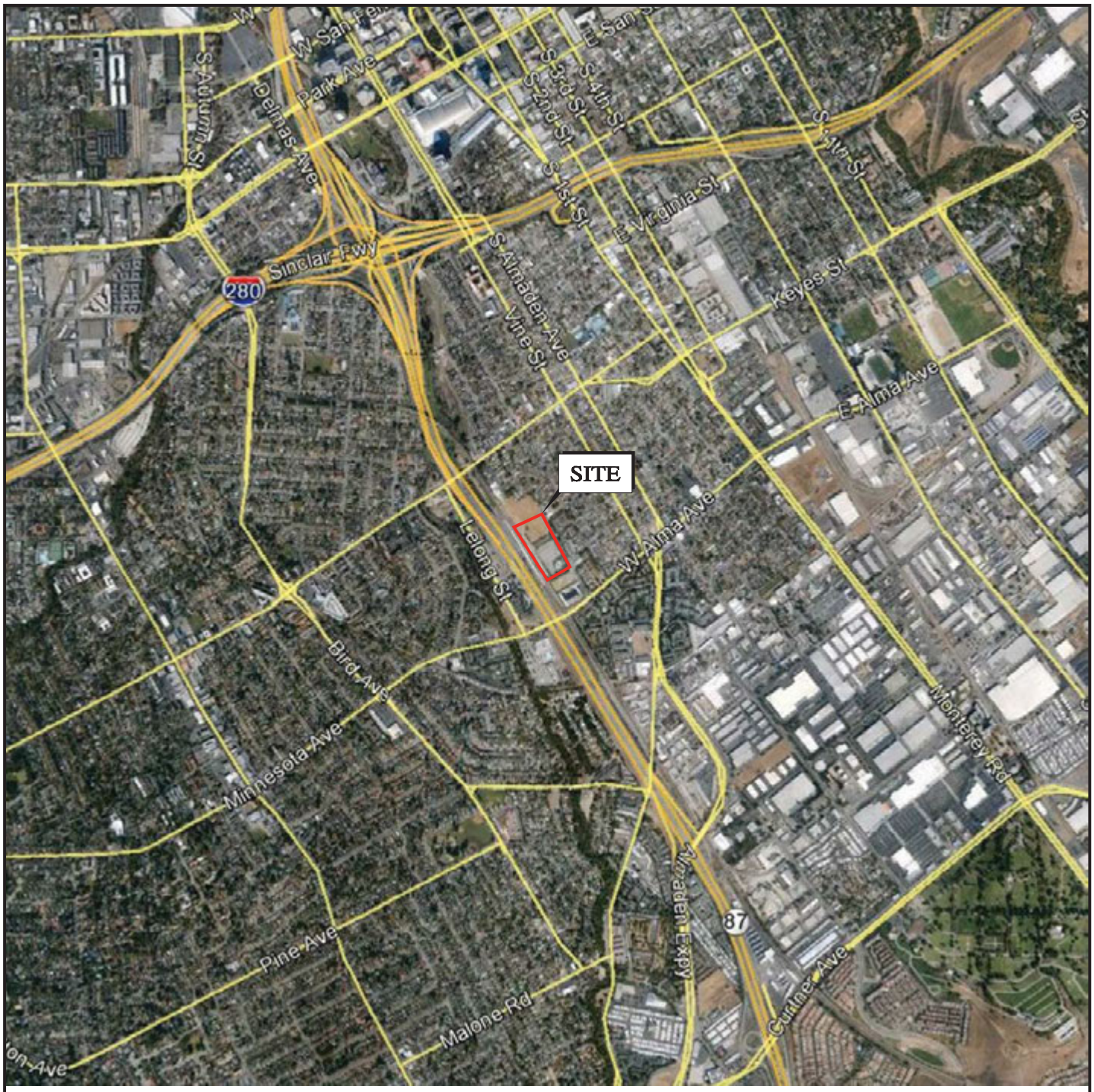

N

0 FEET 2000

0 METERS 1000

BASE MAP SOURCE: GOOGLE EARTH PRO

ENGEO
Expect Excellence

VICINITY MAP

TAMIEN STATION TRANSIT ORIENTED DEVELOPMENT

SAN JOSE, CALIFORNIA

PROJECT NO.: 10851.000.000		FIGURE NO.
SCALE: AS SHOWN		1
DRAWN BY: SRP	CHECKED BY: JK	

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ORIGINAL FIGURE PRINTED IN COLOR

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0 FEET 200

0 METERS 100

EXPLANATION

1-CPT4 APPROXIMATE LOCATION OF CONE PENETRATION TEST

S-3 APPROXIMATE LOCATION OF NEAR SURFACE NOA SAMPLE

BASE MAP SOURCE: GOOGLE EARTH PRO

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SITE PLAN

TAMIEN STATION TRANSIT ORIENTED DEVELOPMENT

SAN JOSE, CALIFORNIA

PROJECT NO.: 10851.000.000		FIGURE NO.
SCALE: AS SHOWN		2
DRAWN BY: SRP	CHECKED BY: JK	

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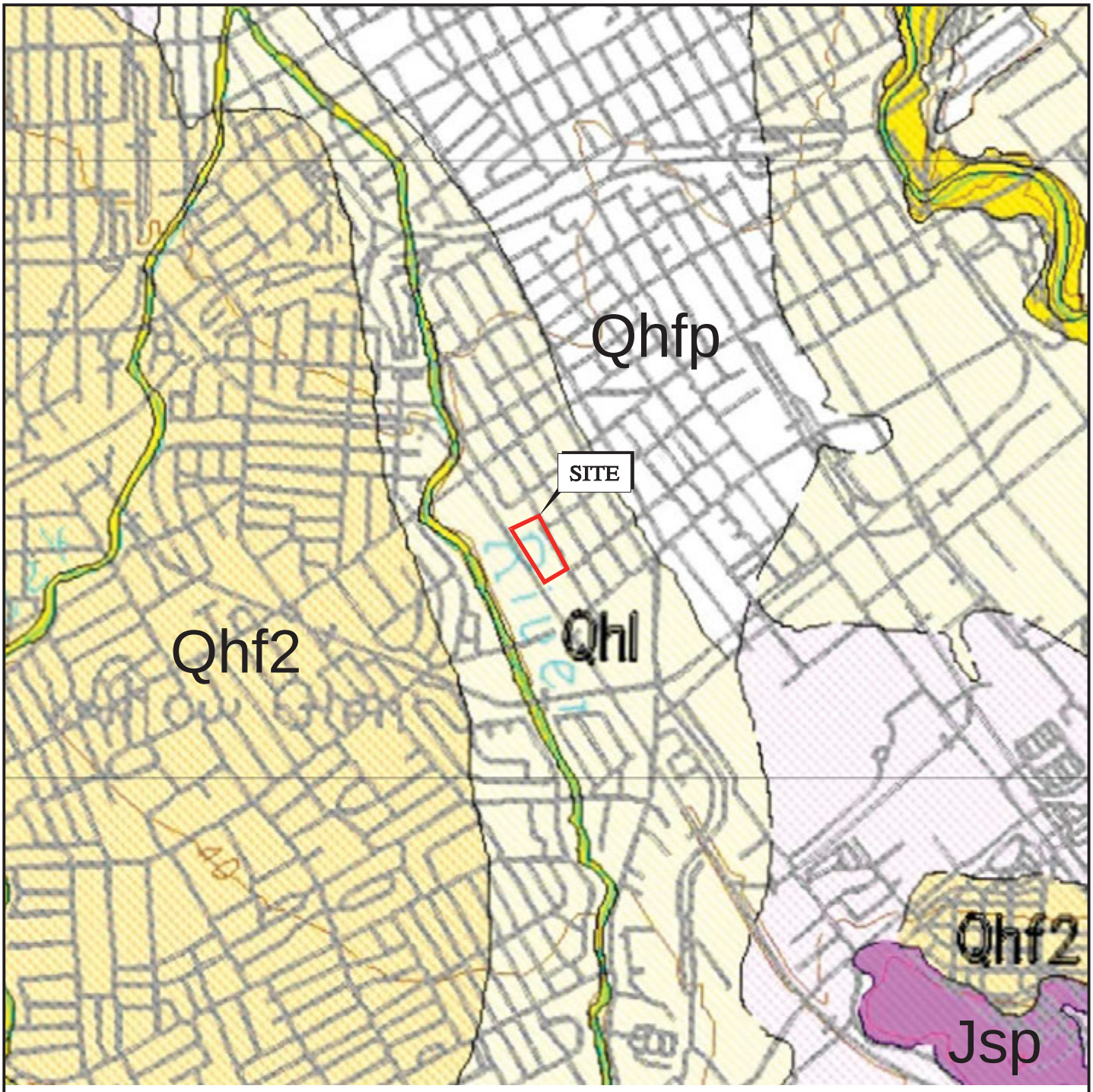

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0 METERS 1000

EXPLANATION

Qhfp	FLOOD PLAIN DEPOSITS
Qhl	LEVEE DEPOSITS
Qhf2	ALLUVIAL FAN DEPOSITS (OLDER)
Jsp	SERPENTINIZED HARBURGITE AND DUNITE

BASE MAP SOURCE: WENTWORTH, 1999

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REGIONAL GEOLOGIC MAP

TAMIEN STATION TRANSIT ORIENTED DEVELOPMENT

SAN JOSE, CALIFORNIA

PROJECT NO.: 10851.000.000

SCALE: AS SHOWN

DRAWN BY: SRP CHECKED BY: JK

FIGURE NO. 3

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ORIGINAL FIGURE PRINTED IN COLOR

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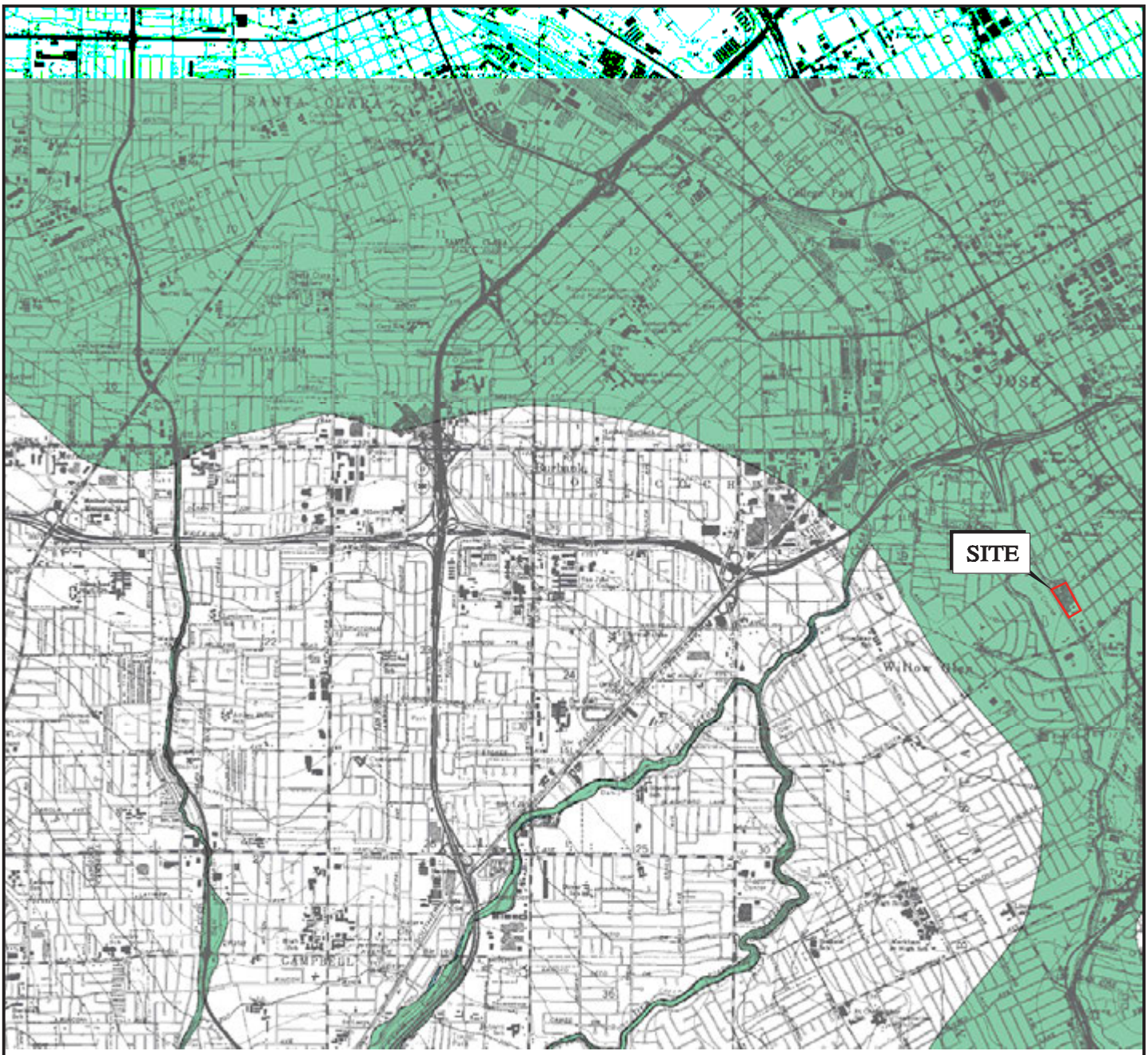

N

0 FEET 4000

0 METERS 2000

EXPLANATION

LIQUEFACTION

AREAS WHERE HISTORIC OCCURRENCE OF LIQUEFACTION, OR LOCAL GEOLOGICAL, GEOTECHNICAL AND GROUNDWATER CONDITIONS INDICATE A POTENTIAL FOR PERMANENT GROUND DISPLACEMENTS SUCH THAT MITIGATION AS DEFINED IN PUBLIC RESOURCES CODE SECTION 2693(c) WOULD BE REQUIRED

BASE MAP SOURCE: CALIFORNIA DEPARTMENT OF CONSERVATION, CALIFORNIA GEOLOGICAL SURVEY, 2006

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SEISMIC HAZARD ZONES MAP

TAMIEN STATION TRANSIT ORIENTED DEVELOPMENT

SAN JOSE, CALIFORNIA

PROJECT NO.: 10851.000.000		FIGURE NO.
SCALE: AS SHOWN		4
DRAWN BY: SRP	CHECKED BY: JK	

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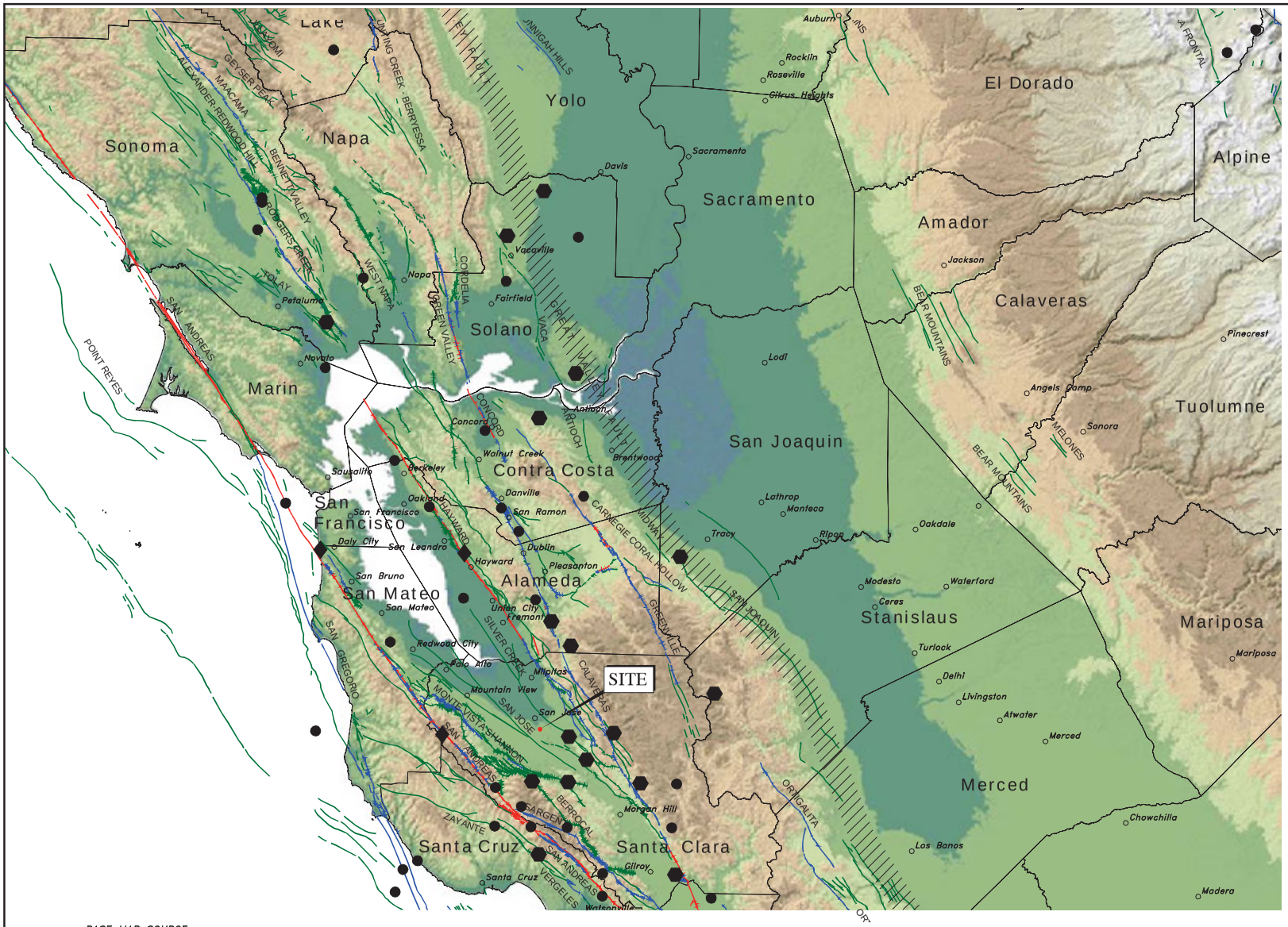
ORIGINAL FIGURE PRINTED IN COLOR



BASE MAP SOURCE:
COLOR HILLSHADE IMAGE BASED ON THE NATIONAL ELEVATION DATASET (NED) AT 30 METER RESOLUTION
U.S.G.S. QUATERNARY FAULT DATABASE, NOVEMBER, 2010
U.S.G.S. HISTORIC EARTHQUAKE DATABASE (1800–2000)

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REGIONAL FAULTING AND SEISMICITY
TAMIEN STATION TRANSIT ORIENTED DEVELOPMENT
SAN JOSE, CALIFORNIA

PROJECT NO.:	10851.000.000
SCALE:	AS SHOWN
DRAWN BY:	SRP
CHECKED BY:	JK
FIGURE NO	5

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APPENDIX A

JOHN SARMIENTO & ASSOCIATES
Cone Penetration Test (CPT) Logs

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PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)
Terminated at 65.3 feet

CPT NO.: 1-CPT1
DATE: 02-06-2014
TIME: 14:56:00
Groundwater measured at 18.0 feet

ENGEO, INC.

cpts by John Sarmiento & Associates

DEPTH (feet)	Qt (tsf)	Qt' (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT' (N')	EffVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
0.52	0.5	0.77	0.00	0.5	0	1	0.06	----	0.09	Organic Material	<80
1.01	0.4	0.61	0.61	20.0	0	1	0.11	----	0.06	"	100-110
1.57	27.9	44.66	0.82	2.9	14	22	0.19	----	3.71	Clayey SILT to Silty CLAY	130-140
2.07	14.1	22.48	0.80	5.7	14	22	0.25	----	1.86	CLAY	120-130
2.50	14.7	23.55	0.57	3.9	10	16	0.30	----	1.94	Silty CLAY to CLAY	"
3.03	13.1	21.01	0.36	2.7	7	10	0.36	----	1.73	Clayey SILT to Silty CLAY	110-120
3.55	15.6	24.88	0.40	2.6	8	12	0.43	----	2.04	"	120-130
4.06	24.3	38.85	0.61	2.5	12	19	0.49	----	3.20	"	"
4.50	24.2	38.70	0.83	3.4	12	19	0.55	----	3.19	"	130-140
5.04	24.7	39.47	0.71	2.9	12	20	0.62	----	3.25	"	120-130
5.57	16.1	25.71	0.87	5.4	16	26	0.69	----	2.10	CLAY	"
6.03	17.8	28.46	0.90	5.1	18	28	0.74	----	2.32	"	"
6.55	20.6	32.69	0.91	4.4	21	33	0.81	----	2.69	"	130-140
7.00	27.5	42.02	0.92	3.3	14	21	0.87	----	3.61	Clayey SILT to Silty CLAY	"
7.54	18.3	26.64	0.79	4.3	18	27	0.94	----	2.37	CLAY	120-130
8.06	28.6	39.94	0.49	1.7	11	16	1.01	----	3.75	Sandy SILT to Clayey SILT	"
8.56	15.4	21.02	0.47	3.0	8	10	1.07	----	1.98	Clayey SILT to Silty CLAY	"
9.04	6.9	9.23	0.32	4.6	7	9	1.12	----	1.27	CLAY	100-110
9.52	11.1	14.56	0.46	4.1	11	15	1.18	----	1.76	"	120-130
10.07	14.3	18.18	0.44	3.1	10	12	1.25	----	1.82	Silty CLAY to CLAY	"
10.54	5.7	7.11	0.31	5.4	6	7	1.30	----	1.01	CLAY	100-110
11.03	4.5	5.53	0.23	5.2	4	5	1.35	----	0.77	"	"
11.54	5.6	6.67	0.25	4.5	6	7	1.40	----	0.97	"	"
12.01	5.4	6.32	0.22	4.1	5	6	1.45	----	0.93	"	"
12.51	6.3	7.18	0.28	4.4	6	7	1.50	----	1.10	"	"
13.02	7.9	8.95	0.42	5.3	8	9	1.56	----	1.43	"	110-120
13.51	10.2	11.27	0.52	5.1	10	11	1.62	----	1.56	"	120-130
14.01	11.9	12.84	0.64	5.4	12	13	1.69	----	1.84	"	"
14.52	13.2	13.98	0.84	6.3	13	14	1.75	----	1.64	"	"
15.01	13.1	13.69	0.90	6.9	13	14	1.81	----	1.63	"	"
15.53	16.7	17.15	0.94	5.6	17	17	1.88	----	2.10	"	"
16.03	15.5	15.74	0.91	5.9	15	16	1.94	----	1.94	"	"
16.52	14.8	14.81	0.87	5.9	15	15	2.00	----	1.84	"	"
17.02	16.1	16.07	0.99	6.2	16	16	2.06	----	2.01	"	"
17.51	15.9	15.89	1.11	7.0	16	16	2.13	----	1.98	"	130-140
18.01	14.1	14.07	0.93	6.6	14	14	2.16	----	1.74	"	120-130
18.58	13.7	13.60	0.88	6.4	14	14	2.20	----	1.67	"	"
19.07	12.5	12.44	0.83	6.6	12	12	2.23	----	1.51	"	"
19.57	11.4	11.33	0.73	6.5	11	11	2.26	----	1.70	"	"
20.06	10.3	10.24	0.76	7.4	10	10	2.29	----	1.51	"	"
20.56	10.1	10.08	0.64	6.3	10	10	2.32	----	1.48	"	"
21.06	10.5	10.45	0.61	5.8	10	10	2.35	----	1.54	"	"
21.54	10.0	9.87	0.55	5.5	10	10	2.38	----	1.44	"	"
22.01	11.4	11.30	0.58	5.1	11	11	2.41	----	1.67	"	"
22.50	11.6	11.48	0.61	5.3	12	11	2.44	----	1.70	"	"
23.00	19.3	19.14	0.80	4.2	13	13	2.47	----	2.39	Silty CLAY to CLAY	"
23.50	11.1	10.97	0.51	4.6	11	11	2.50	----	1.61	CLAY	"
24.07	11.3	11.04	0.52	4.6	11	11	2.54	----	1.64	"	"
24.57	11.0	10.67	0.40	3.6	11	11	2.57	----	1.59	"	110-120
25.01	13.7	13.18	0.46	3.4	9	9	2.59	----	1.63	Silty CLAY to CLAY	120-130
25.50	11.7	11.10	0.48	4.1	12	11	2.62	----	1.69	CLAY	"
26.00	12.4	11.61	0.43	3.5	8	8	2.66	----	1.44	Silty CLAY to CLAY	"
26.50	9.9	9.21	0.36	3.6	10	9	2.68	----	1.38	CLAY	110-120
27.08	10.1	9.31	0.47	4.6	10	9	2.71	----	1.41	"	"

PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)
Terminated at 65.3 feet

CPT NO.: 1-CPT1
DATE: 02-06-2014
TIME: 14:56:00
Groundwater measured at 18.0 feet

ENGEO, INC.

cpts by John Sarmiento & Associates

DEPTH (feet)	Qt (tsf)	Qt' (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT' (N')	EffVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
27.58	9.0	8.23	0.49	5.4	9	8	2.74	----	1.22	CLAY	110-120
28.08	11.1	10.03	0.60	5.4	11	10	2.77	----	1.57	"	120-130
28.51	10.2	9.10	0.57	5.6	10	9	2.80	----	1.41	"	"
29.00	8.1	7.13	0.41	5.0	8	7	2.82	----	1.26	"	110-120
29.51	8.6	7.56	0.36	4.2	9	7	2.85	----	1.37	"	"
30.08	10.0	8.64	0.48	4.8	10	9	2.88	----	1.36	"	"
30.58	9.6	8.23	0.47	4.9	10	8	2.91	----	1.29	"	"
31.00	9.7	8.23	0.48	4.9	10	8	2.93	----	1.30	"	"
31.57	10.5	8.82	0.48	4.6	10	9	2.96	----	1.43	"	"
32.06	10.7	8.87	0.52	4.8	11	9	2.99	----	1.46	"	120-130
32.55	10.5	8.65	0.49	4.7	10	9	3.02	----	1.42	"	"
33.05	9.9	8.15	0.42	4.2	10	8	3.05	----	1.32	"	110-120
33.55	11.2	9.13	0.51	4.6	11	9	3.08	----	1.53	"	120-130
34.04	11.8	9.61	0.53	4.5	12	10	3.11	----	1.63	"	"
34.54	12.0	9.68	0.41	3.5	8	6	3.13	----	1.64	Silty CLAY to CLAY	110-120
35.03	11.1	8.94	0.45	4.1	11	9	3.16	----	1.49	CLAY	"
35.53	13.4	10.74	0.66	4.9	13	11	3.19	----	1.50	"	120-130
36.03	12.7	10.15	0.58	4.6	13	10	3.22	----	1.40	"	"
36.52	12.9	10.27	0.57	4.5	13	10	3.25	----	1.42	"	"
37.01	13.2	10.48	0.56	4.3	13	10	3.28	----	1.46	"	"
37.51	14.3	11.26	0.57	4.0	14	11	3.31	----	1.60	"	"
38.04	15.0	11.74	0.49	3.3	10	8	3.35	----	1.68	Silty CLAY to CLAY	"
38.53	15.2	11.89	0.50	3.3	10	8	3.38	----	1.72	"	"
39.02	13.6	10.57	0.49	3.6	9	7	3.41	----	1.50	"	"
39.51	14.5	11.20	0.42	2.9	7	6	3.44	----	1.61	Clayey SILT to Silty CLAY	"
40.07	21.0	16.20	1.05	5.0	21	16	3.48	----	2.48	CLAY	130-140
40.55	77.4	59.27	2.25	2.9	31	24	3.52	----	9.99	Sandy SILT to Clayey SILT	"
41.01	196.4	149.74	1.73	0.9	39	30	3.54	40	----	SAND	120-130
41.55	91.9	69.61	2.62	2.9	37	28	3.58	----	11.91	Sandy SILT to Clayey SILT	130-140
42.02	18.3	13.76	0.99	5.4	18	14	3.62	----	2.09	CLAY	"
42.57	17.3	12.98	1.06	6.1	17	13	3.66	----	1.96	"	"
43.02	194.8	145.25	3.37	1.7	49	36	3.69	40	----	SAND to Silty SAND	"
43.50	418.4	310.27	5.33	1.3	84	62	3.73	45	----	SAND	"
44.06	334.9	246.78	4.68	1.4	67	49	3.77	43	----	"	"
44.52	374.8	274.75	5.36	1.4	75	55	3.80	44	----	"	"
45.02	388.5	283.59	2.14	0.6	65	47	3.83	44	----	Gravelly SAND to SAND	110-120
45.55	346.4	251.35	7.08	2.0	69	50	3.86	43	----	SAND	130-140
46.03	258.9	186.83	4.32	1.7	52	37	3.90	42	----	"	"
46.50	296.2	212.57	3.48	1.2	59	42	3.93	42	----	"	"
47.03	287.3	204.90	3.81	1.3	57	41	3.97	42	----	"	"
47.51	221.1	156.86	4.96	2.2	74	52	4.01	41	----	Silty SAND to Sandy SILT	"
48.06	115.4	81.50	3.11	2.7	38	27	4.05	37	----	"	"
48.50	49.2	34.57	2.39	4.9	33	23	4.08	----	6.15	Silty CLAY to CLAY	"
49.02	15.0	10.48	1.10	7.4	15	10	4.12	----	1.59	CLAY	"
49.56	20.6	14.38	1.08	5.2	21	14	4.16	----	2.34	"	"
50.03	30.9	21.41	1.68	5.4	31	21	4.19	----	3.70	"	"
50.53	40.2	27.74	1.86	4.6	27	18	4.23	----	4.93	Silty CLAY to CLAY	"
51.00	101.4	69.78	3.29	3.3	41	28	4.26	----	13.10	Sandy SILT to Clayey SILT	"
51.55	42.1	28.79	2.08	4.9	28	19	4.30	----	5.18	Silty CLAY to CLAY	"
52.03	18.6	12.65	0.77	4.2	12	8	4.33	----	2.04	"	120-130
52.54	17.3	11.76	0.57	3.3	9	6	4.36	----	1.87	Clayey SILT to Silty CLAY	"
53.02	16.2	10.98	0.51	3.1	8	5	4.39	----	1.72	"	"
53.51	14.3	9.65	0.50	3.5	9	6	4.42	----	1.46	Silty CLAY to CLAY	"
54.00	14.9	10.00	0.48	3.2	10	7	4.45	----	1.54	"	"

PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)
Terminated at 65.3 feet

CPT NO.: 1-CPT1
DATE: 02-06-2014
TIME: 14:56:00
Groundwater measured at 18.0 feet

ENGEO, INC.
cpts by John Sarmiento & Associates

DEPTH (feet)	Qt (tsf)	Qt' (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT' (N')	EffVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
54.52	20.1	13.40	0.94	4.7	20	13	4.49	----	2.22	CLAY	130-140
55.01	22.6	15.06	1.13	5.0	23	15	4.53	----	2.56	"	"
55.51	25.4	16.79	1.35	5.3	25	17	4.56	----	2.92	"	"
56.07	34.1	22.44	1.80	5.3	34	22	4.60	----	4.07	"	"
56.52	214.7	140.82	4.16	1.9	54	35	4.64	40	----	SAND to Silty SAND	"
57.04	252.4	164.71	5.21	2.1	63	41	4.67	41	----	"	"
57.56	299.5	194.69	3.36	1.1	60	39	4.71	42	----	SAND	120-130
58.02	409.6	265.06	6.29	1.5	82	53	4.74	44	----	"	130-140
58.52	356.7	229.74	4.82	1.4	71	46	4.78	43	----	"	"
59.04	322.2	206.64	2.58	0.8	64	41	4.81	42	----	"	120-130
59.51	269.4	172.22	1.90	0.7	54	34	4.83	41	----	"	110-120
60.05	327.2	208.35	2.20	0.7	55	35	4.86	42	----	Gravelly SAND to SAND	"
60.55	290.4	184.04	4.70	1.6	58	37	4.90	42	----	SAND	130-140
61.04	330.0	208.26	3.16	1.0	66	42	4.93	42	----	"	120-130
61.54	315.9	198.49	2.83	0.9	63	40	4.96	42	----	"	"
62.04	427.4	267.29	4.90	1.2	85	53	5.00	44	----	"	130-140
62.50	333.3	207.65	5.96	1.8	67	42	5.03	42	----	"	"
63.05	337.4	209.44	3.42	1.0	67	42	5.06	42	----	"	120-130
63.56	254.3	157.42	1.75	0.7	51	31	5.09	41	----	"	110-120
64.06	84.7	52.26	1.93	2.3	28	17	5.13	34	----	Silty SAND to Sandy SILT	130-140
64.56	296.6	182.41	2.04	0.7	59	36	5.15	41	----	SAND	110-120
65.01	458.3	281.00	4.69	1.0	92	56	5.18	44	----	"	120-130
65.35	598.2	281.00	5.49	1.0	92	56	5.18	44	----	"	"

DEPTH = Sampling interval (~0.1 feet)
Qc = Tip bearing uncorrected Qt = Tip bearing corrected Fs = Sleeve friction resistance Rf = Qt / Fs
SPT = Equivalent Standard Penetration Test Qt' and SPT' = Qt and SPT corrected for overburden
EffVtStr = Effective Vertical Stress using est. density** Phi = Soil friction angle*
Su = Undrained Soil Strength* (see classification chart)
References: * Robertson and Campanella, 1988 **Olsen, 1989 *** Durgunoglu & Mitchell, 1975

PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)
Terminated at 60.0 feet

CPT NO.: 1-CPT2
DATE: 02-06-2014
TIME: 11:10:00
Groundwater estimated at 18.0 feet

ENGEO, INC.

cpts by John Sarmiento & Associates

DEPTH (feet)	Qt (tsf)	Qt' (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT' (N')	EffVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
0.50	0.9	1.38	0.01	0.6	1	1	0.06	----	0.17	Organic Material	<80
1.02	91.5	146.34	8.81	9.6	91	146	0.13	----	12.19	Very Stiff Fine Grained *	>140
1.52	84.6	135.36	5.71	6.7	85	135	0.20	----	11.27	"	"
2.02	44.3	70.90	2.16	4.9	30	47	0.27	----	5.89	Silty CLAY to CLAY	130-140
2.54	41.2	65.95	2.34	5.7	41	66	0.34	----	5.47	CLAY	"
3.01	39.4	63.10	2.49	6.3	39	63	0.40	----	5.23	"	"
3.57	49.4	79.09	2.70	5.5	49	79	0.48	----	6.56	"	"
4.06	76.3	122.13	3.53	4.6	76	122	0.54	----	10.14	Very Stiff Fine Grained *	"
4.55	96.4	154.30	5.44	5.6	96	154	0.61	----	12.82	"	>140
5.03	84.6	135.34	4.33	5.1	85	135	0.68	----	11.23	"	130-140
5.56	81.9	131.01	4.10	5.0	82	131	0.75	----	10.87	"	"
6.02	80.8	128.45	2.45	3.0	32	51	0.81	----	10.72	Sandy SILT to Clayey SILT	"
6.58	84.5	128.45	0.99	1.2	21	32	0.88	39	----	SAND to Silty SAND	120-130
7.05	90.9	132.77	0.96	1.1	23	33	0.94	40	----	"	"
7.54	135.8	189.72	2.28	1.7	34	47	1.00	42	----	"	130-140
8.01	262.2	358.32	2.16	0.8	52	72	1.06	45	----	SAND	120-130
8.58	236.3	314.84	1.36	0.6	47	63	1.13	45	----	"	110-120
9.06	168.7	219.09	3.39	2.0	56	73	1.19	43	----	Silty SAND to Sandy SILT	130-140
9.57	72.1	91.19	3.80	5.3	72	91	1.26	----	9.53	Very Stiff Fine Grained *	"
10.06	43.5	53.64	2.98	6.8	43	54	1.33	----	5.72	CLAY	"
10.56	38.8	46.49	2.30	5.9	39	46	1.40	----	5.07	"	"
11.06	31.1	36.30	2.25	7.2	31	36	1.46	----	4.05	"	"
11.56	32.0	36.39	2.02	6.3	32	36	1.53	----	4.16	"	"
12.00	31.8	35.47	1.98	6.2	32	35	1.59	----	4.13	"	"
12.50	28.6	31.25	1.73	6.1	29	31	1.66	----	3.70	"	"
13.01	24.7	26.34	1.69	6.8	25	26	1.73	----	3.17	"	"
13.52	23.3	24.40	1.66	7.1	23	24	1.80	----	2.98	"	"
14.02	21.2	21.91	1.63	7.7	21	22	1.86	----	2.71	"	"
14.54	20.1	20.42	1.61	8.0	20	20	1.93	----	2.55	"	"
15.07	19.3	19.30	1.55	8.0	19	19	2.01	----	2.44	"	"
15.58	24.0	23.94	1.67	7.0	24	24	2.07	----	3.06	"	"
16.01	24.9	24.87	1.73	7.0	25	25	2.13	----	3.18	"	"
16.52	20.5	20.40	1.43	7.0	20	20	2.20	----	2.58	"	"
17.04	17.5	17.42	1.19	6.8	18	17	2.27	----	2.18	"	"
17.54	16.7	16.54	1.09	6.5	17	17	2.34	----	2.06	"	"
18.06	16.0	15.83	1.18	7.4	16	16	2.38	----	1.97	"	"
18.55	13.3	13.16	0.97	7.3	13	13	2.41	----	1.60	"	120-130
19.06	13.4	13.25	0.93	6.9	13	13	2.44	----	1.61	"	"
19.58	11.2	11.06	0.80	7.2	11	11	2.47	----	1.65	"	"
20.01	10.4	10.30	0.77	7.4	10	10	2.50	----	1.51	"	"
20.53	9.4	9.25	0.71	7.5	9	9	2.53	----	1.35	"	"
21.06	7.7	7.49	0.55	7.2	8	7	2.56	----	1.27	"	110-120
21.53	8.4	8.07	0.53	6.3	8	8	2.58	----	1.39	"	"
22.05	8.4	8.00	0.54	6.4	8	8	2.61	----	1.39	"	"
22.56	10.8	10.16	0.64	5.9	11	10	2.64	----	1.55	"	120-130
23.08	9.4	8.80	0.57	6.0	9	9	2.68	----	1.32	"	"
23.51	10.7	9.87	0.60	5.6	11	10	2.70	----	1.53	"	"
24.03	33.1	30.11	1.65	5.0	33	30	2.74	----	4.20	"	130-140
24.55	11.8	10.66	0.93	7.9	12	11	2.77	----	1.71	"	120-130
25.05	12.5	11.15	0.67	5.4	12	11	2.80	----	1.45	"	"
25.56	12.4	10.85	0.56	4.5	12	11	2.84	----	1.42	"	"
26.01	11.6	10.08	0.45	3.9	12	10	2.86	----	1.65	"	"
26.52	10.5	9.00	0.42	4.0	10	9	2.89	----	1.45	"	110-120
27.04	10.5	8.91	0.45	4.3	10	9	2.92	----	1.45	"	"

PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)
Terminated at 60.0 feet

CPT NO.: 1-CPT2
DATE: 02-06-2014
TIME: 11:10:00
Groundwater estimated at 18.0 feet

ENGEO, INC.

cpts by John Sarmiento & Associates

DEPTH (feet)	Qt (tsf)	Qt' (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT' (N')	EffVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
27.57	9.4	7.93	0.46	4.9	9	8	2.95	----	1.27	CLAY	110-120
28.05	10.7	8.88	0.55	5.1	11	9	2.98	----	1.47	"	120-130
28.57	10.2	8.40	0.49	4.8	10	8	3.00	----	1.39	"	110-120
29.01	20.4	16.79	0.70	3.4	10	8	3.03	----	2.48	Clayey SILT to Silty CLAY	120-130
29.53	9.6	7.87	0.40	4.2	10	8	3.06	----	1.29	CLAY	110-120
30.05	9.4	7.69	0.47	5.0	9	8	3.09	----	1.25	"	"
30.57	10.2	8.28	0.50	4.9	10	8	3.12	----	1.37	"	120-130
31.01	10.4	8.41	0.50	4.8	10	8	3.15	----	1.40	"	"
31.52	9.9	7.94	0.46	4.7	10	8	3.17	----	1.31	"	110-120
32.03	8.9	7.12	0.41	4.6	9	7	3.20	----	1.37	"	"
32.55	9.4	7.50	0.46	4.9	9	7	3.23	----	1.22	"	"
33.07	9.0	7.18	0.43	4.8	9	7	3.25	----	1.15	"	"
33.50	9.8	7.77	0.50	5.1	10	8	3.28	----	1.28	"	"
34.02	11.5	9.09	0.60	5.2	11	9	3.31	----	1.56	"	120-130
34.52	12.3	9.67	0.56	4.6	12	10	3.34	----	1.35	"	"
35.02	11.7	9.12	0.55	4.7	11	9	3.37	----	1.57	"	"
35.54	12.9	10.05	0.66	5.1	13	10	3.40	----	1.42	"	"
36.04	13.3	10.30	0.67	5.0	13	10	3.44	----	1.47	"	"
36.56	13.3	10.26	0.64	4.8	13	10	3.47	----	1.46	"	"
37.08	13.7	10.51	0.60	4.4	13	10	3.50	----	1.51	"	"
37.59	16.1	12.30	0.60	3.7	11	8	3.53	----	1.83	Silty CLAY to CLAY	"
38.08	15.0	11.39	0.50	3.3	10	7	3.56	----	1.67	"	"
38.51	13.3	10.05	0.41	3.1	9	7	3.59	----	1.44	"	"
39.03	14.6	10.96	0.39	2.7	7	5	3.62	----	1.61	Clayey SILT to Silty CLAY	"
39.55	12.9	9.71	0.34	2.6	6	5	3.65	----	1.39	"	110-120
40.06	13.2	9.83	0.35	2.7	6	5	3.68	----	1.42	"	"
40.58	14.9	11.08	0.48	3.2	10	7	3.71	----	1.64	Silty CLAY to CLAY	120-130
41.00	14.4	10.66	0.52	3.6	9	7	3.74	----	1.57	"	"
41.52	13.3	9.81	0.39	3.0	9	6	3.76	----	1.42	"	110-120
42.08	13.5	9.86	0.42	3.1	9	6	3.80	----	1.44	"	120-130
42.51	13.7	10.01	0.46	3.3	9	6	3.83	----	1.47	"	"
43.02	13.3	9.64	0.46	3.4	9	6	3.86	----	1.41	"	"
43.53	11.9	8.61	0.49	4.1	11	8	3.89	----	1.53	CLAY	"
44.07	12.6	9.06	0.42	3.3	8	6	3.92	----	1.31	Silty CLAY to CLAY	110-120
44.57	14.4	10.34	0.50	3.4	9	7	3.95	----	1.55	"	120-130
45.07	13.6	9.69	0.45	3.3	9	6	3.98	----	1.43	"	"
45.58	16.2	11.46	0.54	3.4	10	7	4.01	----	1.77	"	"
46.06	17.3	12.19	0.68	4.0	11	8	4.04	----	1.91	"	"
46.53	21.7	15.24	0.84	3.9	14	10	4.07	----	2.49	"	"
47.01	25.4	17.78	0.88	3.5	12	9	4.11	----	2.98	Clayey SILT to Silty CLAY	130-140
47.53	62.6	43.71	2.96	4.7	41	29	4.14	----	7.95	Silty CLAY to CLAY	"
48.06	129.8	90.15	3.15	2.4	43	30	4.18	37	----	Silty SAND to Sandy SILT	"
48.53	70.5	48.76	3.40	4.8	70	49	4.22	----	8.99	Very Stiff Fine Grained *	"
49.05	53.7	36.99	1.86	3.5	27	18	4.25	----	6.75	Clayey SILT to Silty CLAY	"
49.55	20.0	13.73	0.79	3.9	13	9	4.29	----	2.25	Silty CLAY to CLAY	120-130
50.01	21.5	14.66	0.60	2.8	11	7	4.31	----	2.44	Clayey SILT to Silty CLAY	"
50.54	17.6	11.94	0.66	3.8	11	8	4.35	----	1.91	Silty CLAY to CLAY	"
51.05	14.0	9.46	0.45	3.3	9	6	4.38	----	1.43	"	"
51.57	13.4	9.06	0.38	2.8	6	4	4.41	----	1.35	Clayey SILT to Silty CLAY	110-120
52.01	15.8	10.65	0.46	2.9	8	5	4.43	----	1.67	"	120-130
52.54	19.1	12.77	0.69	3.6	12	8	4.47	----	2.10	Silty CLAY to CLAY	"
53.05	20.7	13.81	0.85	4.1	13	9	4.50	----	2.31	"	"
53.57	27.7	18.39	1.80	6.5	27	18	4.54	----	3.24	CLAY	130-140
54.02	153.8	101.72	5.59	3.6	77	51	4.57	38	----	SAND to Clayey SAND *	>140

PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)
Terminated at 60.0 feet

CPT NO.: 1-CPT2
DATE: 02-06-2014
TIME: 11:10:00
Groundwater estimated at 18.0 feet

ENGEO, INC.
cpts by John Sarmiento & Associates

DEPTH (feet)	Qt (tsf)	Qt' (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT' (N')	EffVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
54.55	330.3	217.36	5.34	1.6	66	43	4.61	42	----	SAND	130-140
55.07	297.6	194.85	3.71	1.3	59	39	4.65	42	----	"	"
55.56	374.5	244.27	2.95	0.8	62	41	4.68	43	----	Gravelly SAND to SAND	120-130
56.04	412.5	267.96	3.96	1.0	82	54	4.71	44	----	SAND	"
56.54	341.2	220.63	3.91	1.2	68	44	4.75	43	----	"	130-140
57.01	487.5	313.99	5.26	1.1	97	63	4.78	45	----	"	120-130
57.54	327.0	209.55	4.45	1.4	65	42	4.81	42	----	"	130-140
58.01	472.9	301.83	4.57	1.0	95	60	4.84	44	----	"	120-130
58.51	387.2	245.93	5.47	1.4	77	49	4.88	43	----	"	130-140
59.06	380.1	240.34	2.95	0.8	63	40	4.91	43	----	Gravelly SAND to SAND	120-130
59.52	379.0	238.71	3.67	1.0	76	48	4.94	43	----	SAND	"
60.04	383.9	240.76	4.26	1.1	77	48	4.98	43	----	"	"

DEPTH = Sampling interval (~0.1 feet)
Qc = Tip bearing uncorrected Qt = Tip bearing corrected Fs = Sleeve friction resistance Rf = Qt / Fs
SPT = Equivalent Standard Penetration Test Qt' and SPT' = Qt and SPT corrected for overburden
EffVtStr = Effective Vertical Stress using est. density** Phi = Soil friction angle*
Su = Undrained Soil Strength* (see classification chart)
References: * Robertson and Campanella, 1988 **Olsen, 1989 *** Durgunoglu & Mitchell, 1975

PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)
Terminated at 50.0 feet

CPT NO.: 1-CPT3
DATE: 02-13-2014
TIME: 12:25:00
Groundwater measured at 19.5 feet

ENGEO, INC.

cpts by John Sarmiento & Associates

DEPTH (feet)	Qt (tsf)	Qt' (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT' (N')	EffVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
0.54	0.6	1.01	0.12	18.4	1	1	0.06	----	0.12	Organic Material	85-90
1.03	6.7	10.67	0.78	11.6	7	11	0.12	----	1.32	"	120-130
1.52	149.6	239.39	6.87	4.6	150	239	0.19	----	19.94	Very Stiff Fine Grained *	>140
2.01	117.4	187.82	6.11	5.2	117	188	0.26	----	15.63	"	"
2.53	75.8	121.23	5.03	6.6	76	121	0.33	----	10.08	"	"
3.03	60.7	97.07	3.87	6.4	61	97	0.40	----	8.06	"	130-140
3.53	52.4	83.76	3.17	6.1	52	84	0.47	----	6.95	CLAY	"
4.02	50.2	80.34	2.61	5.2	50	80	0.53	----	6.66	"	"
4.54	73.9	118.22	1.48	2.0	25	39	0.60	39	----	Silty SAND to Sandy SILT	"
5.02	62.4	99.82	2.13	3.4	25	40	0.67	----	8.27	Sandy SILT to Clayey SILT	"
5.55	53.6	85.81	2.76	5.2	54	86	0.74	----	7.10	CLAY	"
6.04	59.6	94.96	2.81	4.7	40	63	0.81	----	7.89	Silty CLAY to CLAY	"
6.53	39.4	60.13	2.55	6.5	39	60	0.87	----	5.19	CLAY	"
7.04	25.1	36.60	1.78	7.1	25	37	0.94	----	3.28	"	"
7.56	22.6	31.52	1.74	7.7	23	32	1.01	----	2.95	"	"
8.02	19.6	26.62	1.41	7.2	20	27	1.07	----	2.54	"	"
8.56	19.3	25.56	1.20	6.2	19	26	1.15	----	2.50	"	"
9.08	22.7	29.28	1.72	7.6	23	29	1.22	----	2.95	"	"
9.53	22.6	28.45	1.98	8.8	23	28	1.28	----	2.93	"	"
10.06	20.3	24.78	1.90	9.4	20	25	1.35	----	2.61	"	"
10.53	17.3	20.66	1.49	8.6	17	21	1.41	----	2.22	"	"
11.06	15.8	18.25	1.51	9.6	16	18	1.48	----	2.00	"	"
11.52	12.6	14.30	1.12	8.9	13	14	1.54	----	1.58	"	120-130
12.02	12.5	13.95	1.07	8.6	13	14	1.60	----	1.57	"	"
12.58	11.9	12.91	1.02	8.6	12	13	1.67	----	1.84	"	"
13.06	12.3	13.06	1.00	8.1	12	13	1.73	----	1.52	"	"
13.54	14.0	14.74	0.94	6.7	14	15	1.79	----	1.75	"	"
14.02	14.9	15.42	1.14	7.7	15	15	1.86	----	1.87	"	130-140
14.51	15.8	16.03	1.23	7.8	16	16	1.93	----	1.97	"	"
15.05	15.2	15.16	1.23	8.1	15	15	2.00	----	1.89	"	"
15.54	13.1	13.03	0.99	7.6	13	13	2.06	----	1.60	"	120-130
16.04	12.1	12.06	0.99	8.2	12	12	2.12	----	1.47	"	"
16.52	10.6	10.51	0.88	8.3	11	11	2.18	----	1.58	"	"
17.01	10.0	9.93	0.79	7.9	10	10	2.24	----	1.48	"	"
17.58	8.1	8.02	0.73	9.0	8	8	2.31	----	1.38	"	"
18.06	7.1	7.06	0.61	8.6	7	7	2.37	----	1.19	"	110-120
18.52	8.9	8.86	0.61	6.8	9	9	2.43	----	1.55	"	120-130
19.01	10.8	10.65	0.68	6.3	11	11	2.49	----	1.59	"	"
19.58	9.1	8.98	0.56	6.2	9	9	2.52	----	1.31	"	"
20.07	9.5	9.26	0.57	6.0	10	9	2.55	----	1.37	"	"
20.55	7.8	7.54	0.37	4.7	8	7	2.58	----	1.30	"	110-120
21.04	8.8	8.40	0.43	4.9	9	8	2.61	----	1.48	"	"
21.52	9.3	8.79	0.51	5.5	9	9	2.63	----	1.31	"	"
22.03	11.2	10.44	0.50	4.5	11	10	2.66	----	1.62	"	120-130
22.53	9.6	8.94	0.46	4.8	10	9	2.69	----	1.36	"	110-120
23.01	8.8	8.09	0.44	5.0	9	8	2.71	----	1.46	"	"
23.50	8.1	7.41	0.45	5.5	8	7	2.74	----	1.33	"	"
24.08	7.7	6.92	0.42	5.5	7	7	2.77	----	1.23	"	"
24.57	12.3	10.97	0.68	5.5	12	11	2.80	----	1.43	"	120-130
25.07	11.0	9.64	0.51	4.7	11	9	2.83	----	1.56	"	"
25.56	9.9	8.59	0.45	4.6	10	8	2.86	----	1.37	"	110-120
26.06	9.1	7.81	0.39	4.3	9	8	2.88	----	1.23	"	"
26.54	10.4	8.85	0.59	5.7	10	9	2.92	----	1.45	"	120-130
27.03	11.1	9.34	0.58	5.3	11	9	2.95	----	1.56	"	"

PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)
Terminated at 50.0 feet

CPT NO.: 1-CPT3
DATE: 02-13-2014
TIME: 12:25:00
Groundwater measured at 19.5 feet

ENGEO, INC.

cpts by John Sarmiento & Associates

DEPTH (feet)	Qt (tsf)	Qt' (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT' (N')	EffVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
27.52	10.3	8.61	0.57	5.5	10	8	2.98	----	1.43	CLAY	120-130
28.00	8.9	7.36	0.49	5.5	9	7	3.00	----	1.43	"	110-120
28.52	9.4	7.68	0.50	5.4	9	7	3.03	----	1.26	"	"
29.08	9.1	7.46	0.53	5.8	9	7	3.06	----	1.21	"	"
29.57	8.8	7.21	0.48	5.5	9	7	3.08	----	1.39	"	"
30.06	9.3	7.51	0.49	5.3	9	7	3.11	----	1.23	"	"
30.54	9.6	7.74	0.51	5.3	9	7	3.13	----	1.27	"	"
31.03	10.0	8.03	0.53	5.3	10	8	3.16	----	1.33	"	"
31.56	10.9	8.74	0.52	4.8	10	8	3.19	----	1.48	"	120-130
32.05	12.1	9.69	0.65	5.3	12	9	3.22	----	1.35	"	"
32.53	12.6	10.03	0.68	5.4	12	10	3.25	----	1.41	"	"
33.02	12.3	9.78	0.65	5.3	12	9	3.29	----	1.37	"	"
33.58	12.0	9.45	0.66	5.5	12	9	3.32	----	1.65	"	"
34.07	10.6	8.32	0.51	4.8	10	8	3.35	----	1.41	"	110-120
34.59	11.6	9.10	0.55	4.7	11	9	3.38	----	1.58	"	120-130
35.07	13.2	10.30	0.55	4.1	13	10	3.41	----	1.47	"	"
35.55	13.7	10.60	0.53	3.9	13	10	3.44	----	1.53	"	"
36.03	13.7	10.56	0.58	4.2	13	10	3.47	----	1.52	"	"
36.51	11.6	8.88	0.45	3.9	11	8	3.49	----	1.54	"	110-120
37.02	11.8	9.02	0.45	3.8	11	9	3.52	----	1.58	"	"
37.52	11.6	8.81	0.44	3.8	11	8	3.55	----	1.53	"	"
38.00	12.1	9.21	0.48	3.9	11	9	3.58	----	1.30	"	120-130
38.56	13.9	10.50	0.49	3.5	9	7	3.61	----	1.53	Silty CLAY to CLAY	"
39.04	15.0	11.25	0.45	3.0	7	5	3.64	----	1.67	Clayey SILT to Silty CLAY	"
39.51	14.0	10.43	0.50	3.6	9	7	3.67	----	1.53	Silty CLAY to CLAY	"
40.07	15.0	11.17	0.60	4.0	14	10	3.71	----	1.67	CLAY	"
40.54	23.1	17.07	0.80	3.5	11	8	3.74	----	2.74	Clayey SILT to Silty CLAY	130-140
41.06	80.5	59.20	2.16	2.7	32	24	3.78	----	10.39	Sandy SILT to Clayey SILT	"
41.52	119.4	87.36	3.93	3.3	48	35	3.81	----	15.57	"	"
42.06	42.2	30.71	3.00	7.1	42	31	3.85	----	5.28	CLAY	"
42.50	17.4	12.60	1.28	7.3	17	13	3.88	----	1.97	"	"
43.02	21.9	15.78	1.43	6.5	22	16	3.92	----	2.56	"	"
43.52	28.2	20.19	0.86	3.1	14	10	3.96	----	3.40	Clayey SILT to Silty CLAY	"
44.02	37.6	26.72	1.47	3.9	19	13	3.99	----	4.64	"	"
44.54	78.6	55.57	4.11	5.2	78	55	4.03	----	10.10	Very Stiff Fine Grained *	"
45.04	157.5	110.91	4.21	2.7	52	37	4.07	39	----	Silty SAND to Sandy SILT	"
45.57	21.6	15.17	1.61	7.5	22	15	4.11	----	2.50	CLAY	"
46.00	40.7	28.40	1.91	4.7	27	19	4.14	----	5.03	Silty CLAY to CLAY	"
46.52	16.3	11.34	1.06	6.5	16	11	4.18	----	1.78	CLAY	"
47.05	88.7	61.35	3.76	4.2	44	31	4.21	----	11.43	Clayey SILT to Silty CLAY	"
47.57	298.4	205.64	3.20	1.1	60	41	4.25	42	----	SAND	120-130
48.07	314.2	215.66	3.35	1.1	63	43	4.28	42	----	"	"
48.53	321.4	219.73	4.47	1.4	64	44	4.31	43	----	"	130-140
49.01	321.1	218.70	3.27	1.0	64	44	4.34	43	----	"	120-130
49.52	334.4	226.82	2.76	0.8	67	45	4.37	43	----	"	"
50.07	335.6	227.25	0.24	0.1	56	38	4.39	43	----	Gravelly SAND to SAND	80-85

DEPTH = Sampling interval (~0.1 feet)
Qc = Tip bearing uncorrected Qt = Tip bearing corrected Fs = Sleeve friction resistance Rf = Qt / Fs
SPT = Equivalent Standard Penetration Test Qt' and SPT' = Qt and SPT corrected for overburden
EffVtStr = Effective Vertical Stress using est. density** Phi = Soil friction angle*
Su = Undrained Soil Strength* (see classification chart)
References: * Robertson and Campanella, 1988 **Olsen, 1989 *** Durgunoglu & Mitchell, 1975

PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)
Terminated at 45.0 feet

CPT NO.: 1-CPT4
DATE: 02-06-2014
TIME: 09:11:00
Groundwater measured at 19.9 feet

ENGEO, INC.

cpts by John Sarmiento & Associates

DEPTH (feet)	Qt (tsf)	Qt' (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT' (N')	EffVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
0.57	65.8	105.28	2.12	3.2	26	42	0.07	----	8.77	Sandy SILT to Clayey SILT	130-140
1.03	85.5	136.80	3.64	4.3	43	68	0.13	----	11.39	Clayey SILT to Silty CLAY	"
1.51	56.4	90.21	2.94	5.2	56	90	0.19	----	7.50	CLAY	"
2.03	42.6	68.08	2.78	6.5	43	68	0.26	----	5.66	"	"
2.52	60.8	97.26	2.77	4.6	40	65	0.33	----	8.08	Silty CLAY to CLAY	"
3.08	115.1	184.11	5.30	4.6	115	184	0.41	----	15.32	Very Stiff Fine Grained *	>140
3.57	84.8	135.73	3.87	4.6	85	136	0.47	----	11.28	"	130-140
4.04	87.7	140.30	2.39	2.7	35	56	0.54	----	11.66	Sandy SILT to Clayey SILT	"
4.54	187.4	299.87	5.48	2.9	62	100	0.61	44	----	Silty SAND to Sandy SILT	"
5.06	150.0	239.97	4.35	2.9	50	80	0.68	43	----	"	"
5.57	269.2	430.75	2.40	0.9	54	86	0.74	46	----	SAND	120-130
6.07	259.0	412.59	5.43	2.1	52	82	0.81	46	----	"	130-140
6.58	123.7	188.47	1.90	1.5	31	47	0.88	42	----	SAND to Silty SAND	"
7.01	69.8	102.27	2.26	3.2	28	41	0.93	----	9.24	Sandy SILT to Clayey SILT	"
7.54	40.1	56.07	2.21	5.5	40	56	1.01	----	5.28	CLAY	"
8.09	42.9	58.26	1.94	4.5	29	39	1.08	----	5.65	Silty CLAY to CLAY	"
8.53	42.0	55.72	1.99	4.8	28	37	1.14	----	5.52	"	"
9.03	43.0	55.60	2.07	4.8	29	37	1.21	----	5.66	"	"
9.54	22.1	27.84	1.31	5.9	22	28	1.28	----	2.87	CLAY	"
10.05	17.5	21.46	0.97	5.5	17	21	1.35	----	2.25	"	"
10.56	13.2	15.75	0.88	6.7	13	16	1.41	----	1.66	"	120-130
11.08	13.9	16.15	0.93	6.7	14	16	1.47	----	1.75	"	"
11.52	22.9	26.03	1.48	6.5	23	26	1.53	----	2.95	"	130-140
12.03	23.9	26.56	1.61	6.8	24	27	1.60	----	3.07	"	"
12.54	26.9	29.28	1.87	7.0	27	29	1.67	----	3.48	"	"
13.07	23.3	24.76	1.74	7.5	23	25	1.74	----	2.99	"	"
13.51	26.9	28.21	1.86	6.9	27	28	1.80	----	3.47	"	"
14.03	29.5	30.41	2.00	6.8	29	30	1.87	----	3.81	"	"
14.54	30.6	31.00	2.24	7.3	31	31	1.94	----	3.95	"	"
15.04	31.7	31.70	2.49	7.9	32	32	2.01	----	4.09	"	"
15.55	29.7	29.65	2.37	8.0	30	30	2.08	----	3.82	"	"
16.04	30.3	30.22	2.34	7.7	30	30	2.14	----	3.90	"	"
16.56	25.5	25.35	1.92	7.6	25	25	2.21	----	3.25	"	"
17.07	20.1	19.95	1.65	8.2	20	20	2.28	----	2.52	"	"
17.58	15.5	15.42	1.27	8.2	15	15	2.35	----	1.91	"	"
18.00	17.5	17.32	1.24	7.1	17	17	2.41	----	2.17	"	"
18.53	16.3	16.16	1.27	7.8	16	16	2.48	----	2.01	"	"
19.05	13.1	12.78	1.07	8.2	13	13	2.54	----	1.58	"	120-130
19.57	10.9	10.38	0.92	8.5	11	10	2.61	----	1.60	"	"
20.09	9.4	8.82	0.88	9.4	9	9	2.64	----	1.34	"	"
20.51	8.3	7.76	0.74	8.9	8	8	2.67	----	1.39	"	"
21.04	6.1	5.65	0.45	7.3	6	6	2.70	----	0.94	"	110-120
21.55	8.4	7.70	0.55	6.6	8	8	2.72	----	1.40	"	"
22.00	10.5	9.54	0.70	6.6	10	10	2.75	----	1.51	"	120-130
22.50	7.4	6.69	0.55	7.4	7	7	2.78	----	1.19	"	110-120
23.02	7.9	7.05	0.51	6.4	8	7	2.80	----	1.28	"	"
23.53	7.5	6.58	0.40	5.4	7	7	2.83	----	1.19	"	"
24.04	7.6	6.60	0.42	5.5	8	7	2.86	----	1.20	"	"
24.56	5.7	4.89	0.37	6.6	6	5	2.88	----	0.81	"	100-110
25.04	5.8	4.95	0.38	6.6	6	5	2.90	----	0.83	"	"
25.55	6.0	5.07	0.41	6.8	6	5	2.93	----	0.86	"	110-120
26.05	5.8	4.85	0.41	7.1	6	5	2.95	----	0.82	"	"
26.54	6.4	5.30	0.38	6.0	6	5	2.98	----	0.93	"	"
27.04	8.5	6.98	0.69	8.1	8	7	3.01	----	1.35	"	120-130

PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)
Terminated at 45.0 feet

CPT NO.: 1-CPT4
DATE: 02-06-2014
TIME: 09:11:00
Groundwater measured at 19.9 feet

ENGEO, INC.

cpts by John Sarmiento & Associates

DEPTH (feet)	Qt (tsf)	Qt' (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT' (N')	EffVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
27.53	56.5	46.33	1.11	2.0	19	15	3.05	34	----	Silty SAND to Sandy SILT	130-140
28.01	24.7	20.15	1.24	5.0	25	20	3.08	----	3.05	CLAY	"
28.50	8.0	6.53	0.52	6.4	8	6	3.11	----	1.24	"	110-120
29.07	7.0	5.69	0.45	6.4	7	6	3.14	----	1.03	"	"
29.56	8.2	6.57	0.53	6.5	8	6	3.16	----	1.25	"	"
30.07	8.0	6.39	0.51	6.4	8	6	3.19	----	1.21	"	"
30.57	8.5	6.79	0.52	6.1	8	7	3.22	----	1.31	"	"
31.07	9.0	7.18	0.57	6.4	9	7	3.25	----	1.17	"	120-130
31.51	9.9	7.85	0.60	6.0	10	8	3.27	----	1.32	"	"
32.01	9.4	7.45	0.57	6.1	9	7	3.31	----	1.23	"	"
32.50	10.0	7.87	0.61	6.1	10	8	3.34	----	1.32	"	"
33.01	10.9	8.50	0.69	6.3	11	8	3.37	----	1.46	"	"
33.52	10.7	8.31	0.66	6.2	11	8	3.40	----	1.42	"	"
34.03	10.6	8.20	0.66	6.3	10	8	3.43	----	1.40	"	"
34.52	10.2	7.89	0.63	6.1	10	8	3.46	----	1.34	"	"
35.07	10.2	7.79	0.59	5.8	10	8	3.50	----	1.32	"	"
35.56	10.1	7.70	0.59	5.8	10	8	3.53	----	1.30	"	"
36.00	11.0	8.40	0.55	5.0	11	8	3.56	----	1.46	"	"
36.51	17.5	13.26	0.66	3.8	11	9	3.59	----	2.02	Silty CLAY to CLAY	"
37.02	20.5	15.46	0.80	3.9	13	10	3.62	----	2.42	"	"
37.53	21.7	16.29	1.03	4.8	21	16	3.66	----	2.58	CLAY	130-140
38.03	35.7	26.58	1.24	3.5	18	13	3.69	----	4.43	Clayey SILT to Silty CLAY	"
38.53	12.1	8.99	0.57	4.7	12	9	3.72	----	1.29	CLAY	120-130
39.04	9.9	7.33	0.46	4.7	10	7	3.75	----	1.24	"	110-120
39.56	9.1	6.70	0.45	5.0	9	7	3.78	----	1.10	"	"
40.06	9.2	6.77	0.40	4.4	9	7	3.81	----	1.12	"	"
40.58	11.5	8.40	0.46	4.0	11	8	3.84	----	1.49	"	120-130
41.08	14.5	10.54	0.56	3.8	10	7	3.87	----	1.59	Silty CLAY to CLAY	"
41.57	15.2	10.98	0.60	3.9	10	7	3.90	----	1.68	"	"
42.08	19.8	14.23	0.91	4.6	20	14	3.94	----	2.29	CLAY	130-140
42.50	31.0	22.09	2.14	6.9	31	22	3.97	----	3.77	"	"
43.05	149.6	106.13	4.55	3.0	50	35	4.01	38	----	Silty SAND to Sandy SILT	"
43.51	146.7	103.65	5.99	4.1	147	104	4.04	----	19.19	Very Stiff Fine Grained *	>140
44.04	164.6	115.73	4.03	2.5	55	39	4.08	39	----	Silty SAND to Sandy SILT	130-140
44.55	287.2	201.17	2.33	0.8	57	40	4.11	42	----	SAND	120-130
45.03	562.0	392.19	4.38	0.8	94	65	4.14	46	----	Gravelly SAND to SAND	"

DEPTH = Sampling interval (~0.1 feet)
Qc = Tip bearing uncorrected Qt = Tip bearing corrected Fs = Sleeve friction resistance Rf = Qt / Fs
SPT = Equivalent Standard Penetration Test Qt' and SPT' = Qt and SPT corrected for overburden
EffVtStr = Effective Vertical Stress using est. density** Phi = Soil friction angle*
Su = Undrained Soil Strength* (see classification chart)
References: * Robertson and Campanella, 1988 **Olsen, 1989 *** Durgunoglu & Mitchell, 1975

PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)
Terminated at 50.0 feet

CPT NO.: 1-CPT5
DATE: 02-06-2014
TIME: 09:58:00
Groundwater estimated at 18.0 feet

ENGEO, INC.

cpts by John Sarmiento & Associates

DEPTH (feet)	Qt (tsf)	Qt' (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT' (N')	EffVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
0.55	195.8	313.30	4.50	2.3	65	104	0.06	45	----	Silty SAND to Sandy SILT	130-140
1.06	211.6	338.61	7.67	3.6	106	169	0.14	45	----	SAND to Clayey SAND *	>140
1.50	145.9	233.46	2.41	1.7	36	58	0.20	43	----	SAND to Silty SAND	130-140
2.03	86.9	139.10	1.14	1.3	22	35	0.26	40	----	"	120-130
2.53	45.9	73.38	1.17	2.5	18	29	0.33	----	6.09	Sandy SILT to Clayey SILT	130-140
3.04	31.6	50.58	1.15	3.7	16	25	0.40	----	4.19	Clayey SILT to Silty CLAY	"
3.55	58.3	93.26	0.58	1.0	19	31	0.46	38	----	Silty SAND to Sandy SILT	120-130
4.08	49.1	78.58	0.50	1.0	16	26	0.53	37	----	"	"
4.54	35.6	56.93	0.84	2.4	14	23	0.59	----	4.70	Sandy SILT to Clayey SILT	130-140
5.07	39.8	63.73	0.72	1.8	16	25	0.66	----	5.27	"	120-130
5.55	23.9	38.16	0.82	3.4	12	19	0.72	----	3.13	Clayey SILT to Silty CLAY	130-140
6.07	25.0	39.98	0.75	3.0	12	20	0.79	----	3.28	"	"
6.51	16.8	26.05	0.83	5.0	17	26	0.85	----	2.18	CLAY	120-130
7.04	19.7	29.35	0.57	2.9	10	15	0.91	----	2.57	Clayey SILT to Silty CLAY	"
7.54	24.5	34.94	0.65	2.7	12	17	0.97	----	3.20	"	"
8.05	23.7	32.77	0.53	2.2	9	13	1.04	----	3.10	Sandy SILT to Clayey SILT	"
8.56	17.2	23.22	0.46	2.7	9	12	1.10	----	2.23	Clayey SILT to Silty CLAY	"
9.00	10.3	13.52	0.53	5.2	10	13	1.16	----	1.61	CLAY	"
9.53	6.0	7.68	0.33	5.6	6	8	1.21	----	1.07	"	100-110
10.07	5.3	6.67	0.32	6.0	5	7	1.27	----	0.93	"	"
10.51	4.9	6.08	0.26	5.2	5	6	1.32	----	0.85	"	"
11.02	9.4	11.40	0.42	4.5	9	11	1.37	----	1.46	"	110-120
11.52	49.7	58.50	0.86	1.7	17	19	1.44	35	----	Silty SAND to Sandy SILT	130-140
12.07	7.3	8.37	0.42	5.7	7	8	1.50	----	1.31	CLAY	110-120
12.58	4.2	4.69	0.23	5.6	4	5	1.55	----	0.67	"	90-100
13.02	3.5	3.89	0.18	5.2	3	4	1.60	----	0.54	"	"
13.53	3.8	4.15	0.20	5.3	4	4	1.64	----	0.59	"	"
14.05	6.6	7.15	0.40	6.0	7	7	1.70	----	1.16	"	110-120
14.57	4.8	5.10	0.31	6.4	5	5	1.76	----	0.79	"	100-110
15.07	8.7	9.04	0.47	5.5	9	9	1.82	----	1.55	"	110-120
15.59	11.8	12.16	0.65	5.5	12	12	1.88	----	1.81	"	120-130
16.01	14.4	14.63	0.90	6.2	14	15	1.93	----	1.79	"	"
16.53	14.2	14.21	1.00	7.1	14	14	2.00	----	1.76	"	"
17.03	14.3	14.28	1.07	7.5	14	14	2.06	----	1.77	"	"
17.53	13.3	13.31	0.91	6.8	13	13	2.12	----	1.64	"	"
18.04	13.2	13.11	0.90	6.8	13	13	2.16	----	1.61	"	"
18.55	14.6	14.54	0.87	6.0	15	14	2.19	----	1.80	"	"
19.06	13.9	13.86	0.82	5.9	14	14	2.22	----	1.70	"	"
19.57	12.1	12.04	0.70	5.8	12	12	2.25	----	1.45	"	"
20.08	12.9	12.81	0.77	6.0	13	13	2.28	----	1.55	"	"
20.51	11.9	11.83	0.85	7.1	12	12	2.31	----	1.78	"	"
21.03	8.9	8.79	0.41	4.6	9	9	2.34	----	1.51	"	110-120
21.55	11.8	11.74	0.50	4.2	12	12	2.37	----	1.75	"	120-130
22.06	12.8	12.69	0.59	4.6	13	13	2.40	----	1.53	"	"
22.57	11.3	11.16	0.55	4.9	11	11	2.43	----	1.65	"	"
23.09	9.5	9.45	0.45	4.7	9	9	2.46	----	1.36	"	110-120
23.50	11.2	11.06	0.50	4.5	11	11	2.49	----	1.62	"	120-130
24.02	11.5	11.27	0.51	4.4	11	11	2.52	----	1.67	"	"
24.53	8.7	8.47	0.35	4.0	9	8	2.55	----	1.44	"	110-120
25.01	9.8	9.51	0.46	4.7	10	9	2.57	----	1.39	"	"
25.52	9.8	9.42	0.50	5.1	10	9	2.60	----	1.38	"	"
26.04	9.7	9.15	0.46	4.8	10	9	2.63	----	1.35	"	"
26.56	9.5	8.89	0.49	5.2	9	9	2.65	----	1.31	"	"
27.06	11.9	11.01	0.76	6.4	12	11	2.68	----	1.70	"	120-130

PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)
Terminated at 50.0 feet

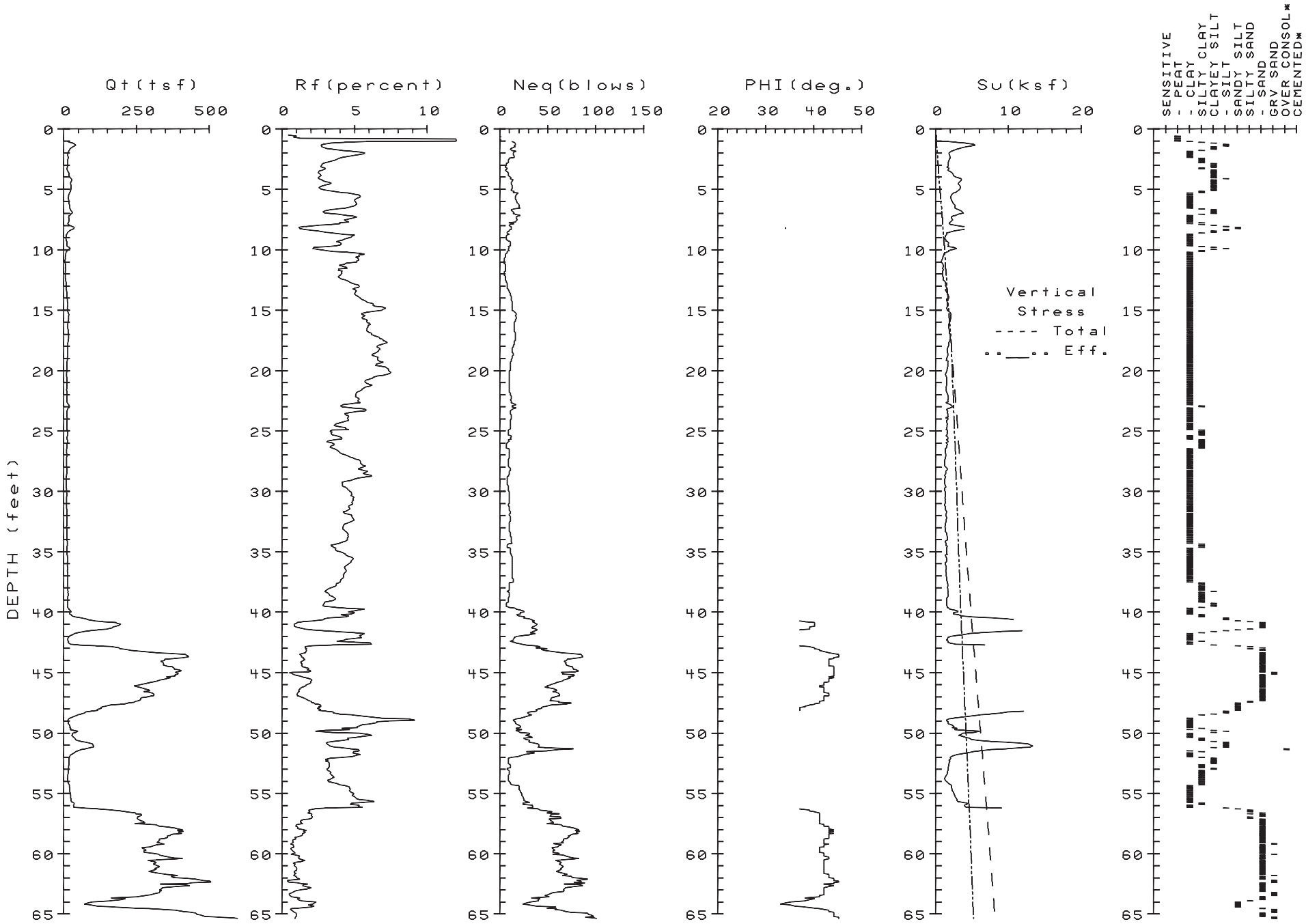
CPT NO.: 1-CPT5
DATE: 02-06-2014
TIME: 09:58:00
Groundwater estimated at 18.0 feet

ENGEO, INC.

cpts by John Sarmiento & Associates

DEPTH (feet)	Qt (tsf)	Qt' (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT' (N')	EffVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
27.56	24.3	22.28	0.95	3.9	16	15	2.72	----	3.02	Silty CLAY to CLAY	130-140
28.04	17.0	15.43	0.71	4.2	17	15	2.75	----	2.04	CLAY	120-130
28.55	8.9	7.99	0.42	4.7	9	8	2.78	----	1.43	"	110-120
29.06	9.0	7.99	0.46	5.1	9	8	2.80	----	1.44	"	"
29.56	9.7	8.49	0.57	5.9	10	8	2.84	----	1.31	"	120-130
30.06	10.0	8.72	0.57	5.7	10	9	2.87	----	1.37	"	"
30.58	9.1	7.81	0.49	5.4	9	8	2.89	----	1.20	"	110-120
31.00	8.4	7.17	0.45	5.3	8	7	2.92	----	1.31	"	"
31.55	8.2	6.94	0.41	5.0	8	7	2.95	----	1.26	"	"
32.06	9.6	7.98	0.50	5.2	9	8	2.97	----	1.27	"	"
32.58	9.9	8.13	0.50	5.0	10	8	3.00	----	1.31	"	"
33.01	10.3	8.49	0.53	5.1	10	8	3.03	----	1.39	"	120-130
33.51	12.5	10.25	0.67	5.3	12	10	3.06	----	1.40	"	"
34.02	13.2	10.76	0.76	5.7	13	11	3.09	----	1.49	"	"
34.57	13.4	10.87	0.81	6.0	13	11	3.12	----	1.51	"	"
35.08	13.1	10.56	0.64	4.9	13	10	3.16	----	1.46	"	"
35.59	13.5	10.85	0.66	4.9	13	11	3.19	----	1.51	"	"
36.05	14.9	11.88	0.69	4.7	15	12	3.22	----	1.69	"	"
36.56	14.8	11.76	0.70	4.7	15	12	3.25	----	1.67	"	"
37.04	17.8	14.14	0.85	4.7	18	14	3.28	----	2.08	"	"
37.50	41.7	32.88	3.00	7.2	42	33	3.31	----	5.25	"	130-140
38.05	310.7	243.73	4.01	1.3	62	49	3.35	43	----	SAND	"
38.57	230.0	179.47	2.79	1.2	46	36	3.39	41	----	"	"
39.04	88.8	68.90	4.09	4.6	89	69	3.42	----	11.52	Very Stiff Fine Grained *	"
39.56	138.0	106.48	4.62	3.4	55	43	3.46	----	18.07	Sandy SILT to Clayey SILT	"
40.03	273.2	209.77	3.39	1.2	55	42	3.50	42	----	SAND	"
40.55	129.3	98.75	4.18	3.2	52	39	3.53	----	16.91	Sandy SILT to Clayey SILT	"
41.06	122.8	93.28	3.61	2.9	49	37	3.57	----	16.04	"	"
41.57	255.3	192.79	4.68	1.8	51	39	3.61	42	----	SAND	"
42.05	340.2	255.56	4.72	1.4	68	51	3.64	43	----	"	"
42.53	346.3	258.89	2.93	0.9	69	52	3.67	43	----	"	120-130
43.03	378.6	281.90	2.65	0.7	63	47	3.70	44	----	Gravelly SAND to SAND	110-120
43.57	353.1	261.54	3.02	0.9	71	52	3.73	44	----	SAND	120-130
44.07	374.3	275.70	4.74	1.3	75	55	3.77	44	----	"	130-140
44.54	439.2	322.89	0.82	0.2	73	54	3.78	45	----	Gravelly SAND to SAND	85-90
45.04	534.5	391.38	3.70	0.7	89	65	3.81	46	----	"	110-120
45.55	536.4	390.82	5.13	1.0	89	65	3.84	46	----	"	120-130
46.03	440.2	318.90	8.25	1.9	88	64	3.87	45	----	SAND	130-140
46.56	423.7	305.08	9.82	2.3	212	152	3.91	44	----	SAND to Clayey SAND *	"
47.03	173.5	124.22	6.77	3.9	87	62	3.95	39	----	"	>140
47.51	174.4	124.14	4.04	2.3	58	41	3.98	39	----	Silty SAND to Sandy SILT	130-140
48.07	151.3	107.10	2.90	1.9	50	36	4.02	38	----	"	"
48.58	46.6	32.82	1.00	2.1	19	13	4.06	----	5.81	Sandy SILT to Clayey SILT	"
49.01	189.5	133.03	2.97	1.6	38	27	4.09	40	----	SAND	"
49.51	205.8	143.88	2.83	1.4	41	29	4.13	40	----	"	"
50.05	130.7	90.96	1.48	1.1	33	23	4.16	37	----	SAND to Silty SAND	120-130

DEPTH = Sampling interval (~0.1 feet)
Qc = Tip bearing uncorrected Qt = Tip bearing corrected Fs = Sleeve friction resistance Rf = Qt / Fs
SPT = Equivalent Standard Penetration Test Qt' and SPT' = Qt and SPT corrected for overburden
EffVtStr = Effective Vertical Stress using est. density** Phi = Soil friction angle*
Su = Undrained Soil Strength* (see classification chart)
References: * Robertson and Campanella, 1988 **Olsen, 1989 *** Durgunoglu & Mitchell, 1975



Terminated at 65.3 feet

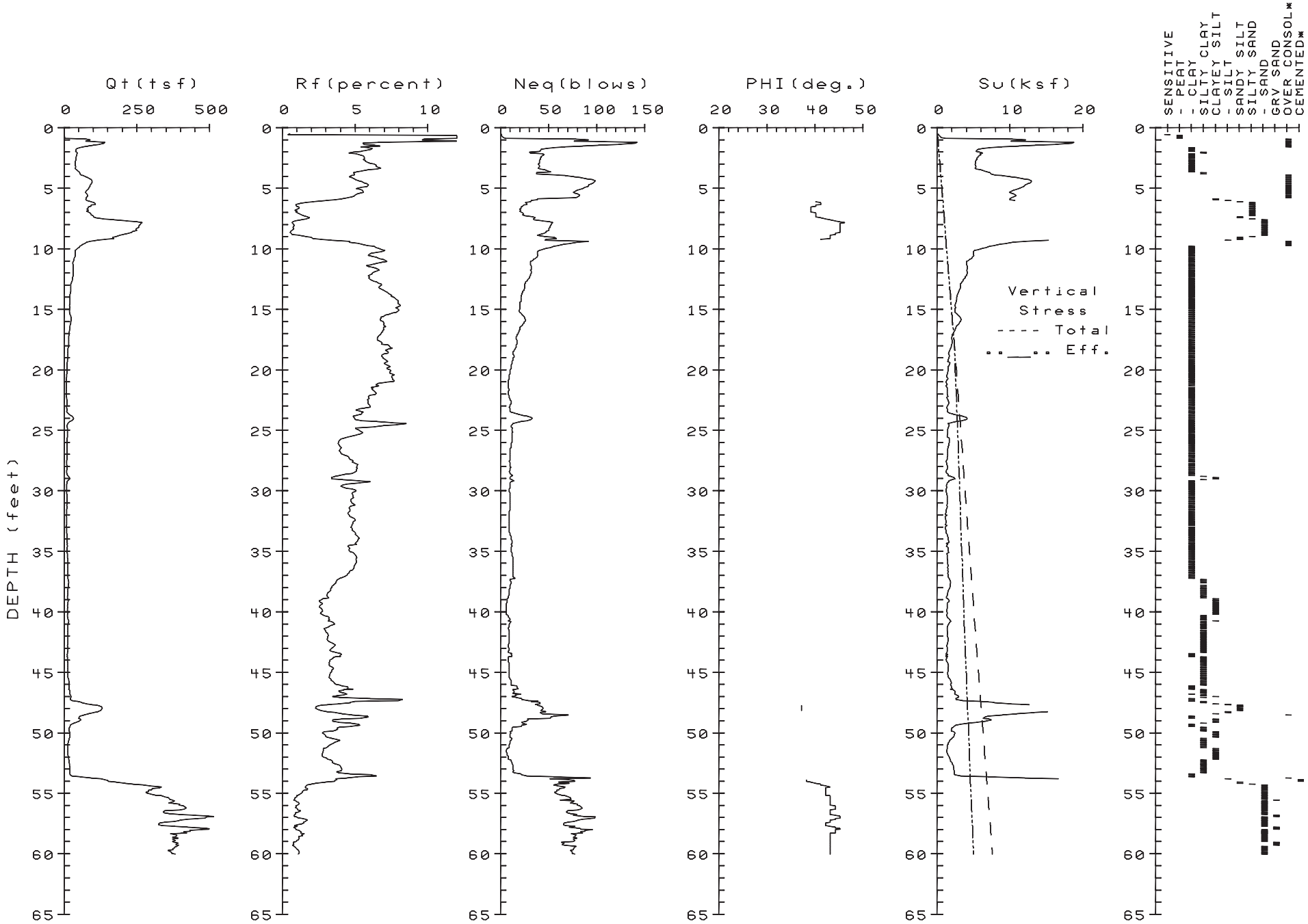
Groundwater measured at 18.0 feet

PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)

CPT NO.: 1-CPT1
DATE : 02-06-2014

ENGEO, INC.

cpts by John Sarmiento & Associates



Terminated at 60.0 feet

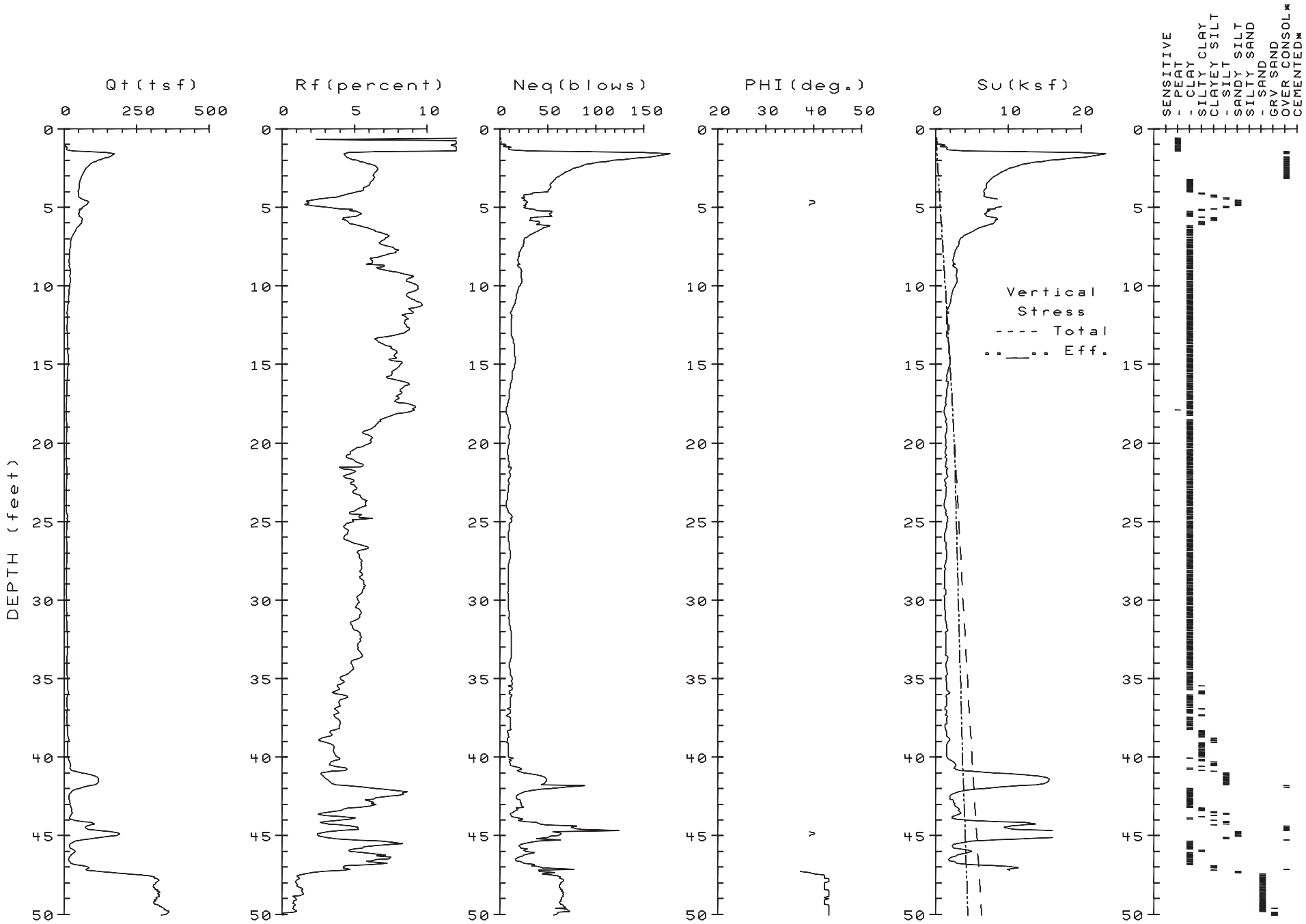
Groundwater estimated at 18.0 feet

PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)

CPT NO.: 1-CPT2
DATE : 02-06-2014

ENGEO, INC.

cpts by John Sarmiento & Associates



Terminated at 50.0 feet

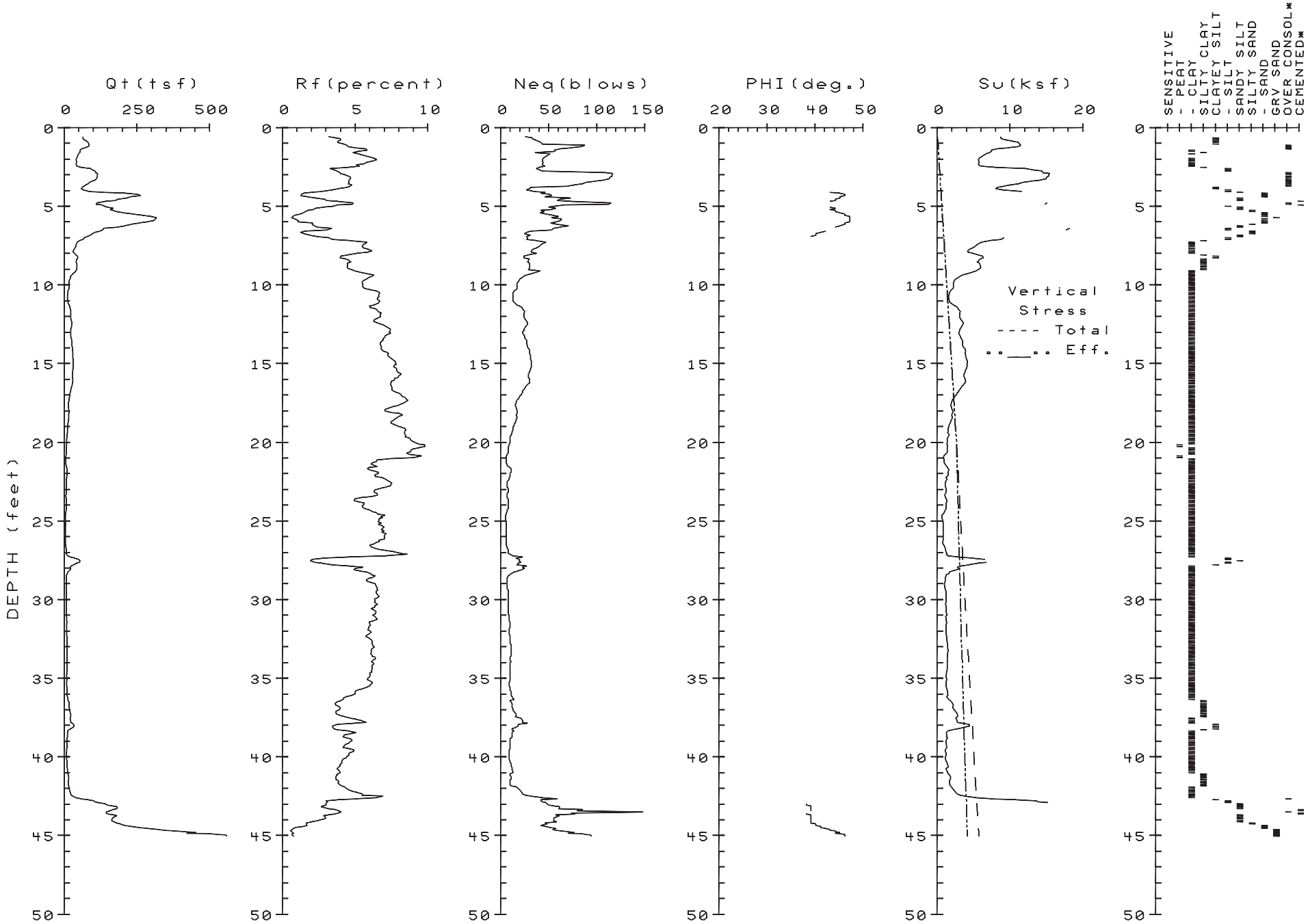
Groundwater measured at 19.5 feet

PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)

CPT NO.: 1-CPT3
DATE : 02-13-2014

ENGEO, INC.

cpts by John Sarmiento & Associates



Terminated at 45.0 feet

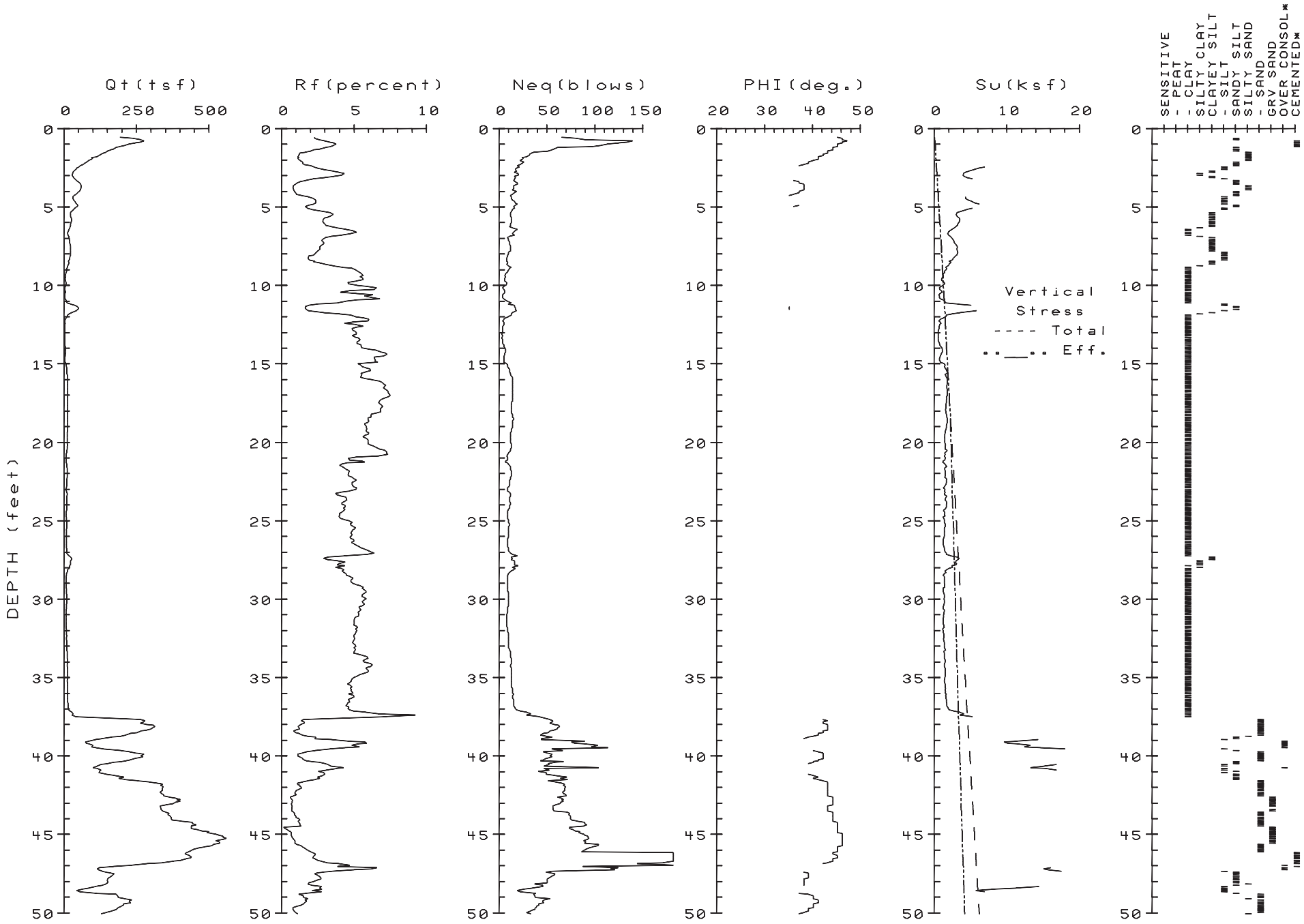
Groundwater measured at 19.9 feet

PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)

CPT NO.: 1-CPT4
DATE : 02-06-2014

ENGEO, INC.

cpts by John Sarmiento & Associates



Terminated at 50.0 feet

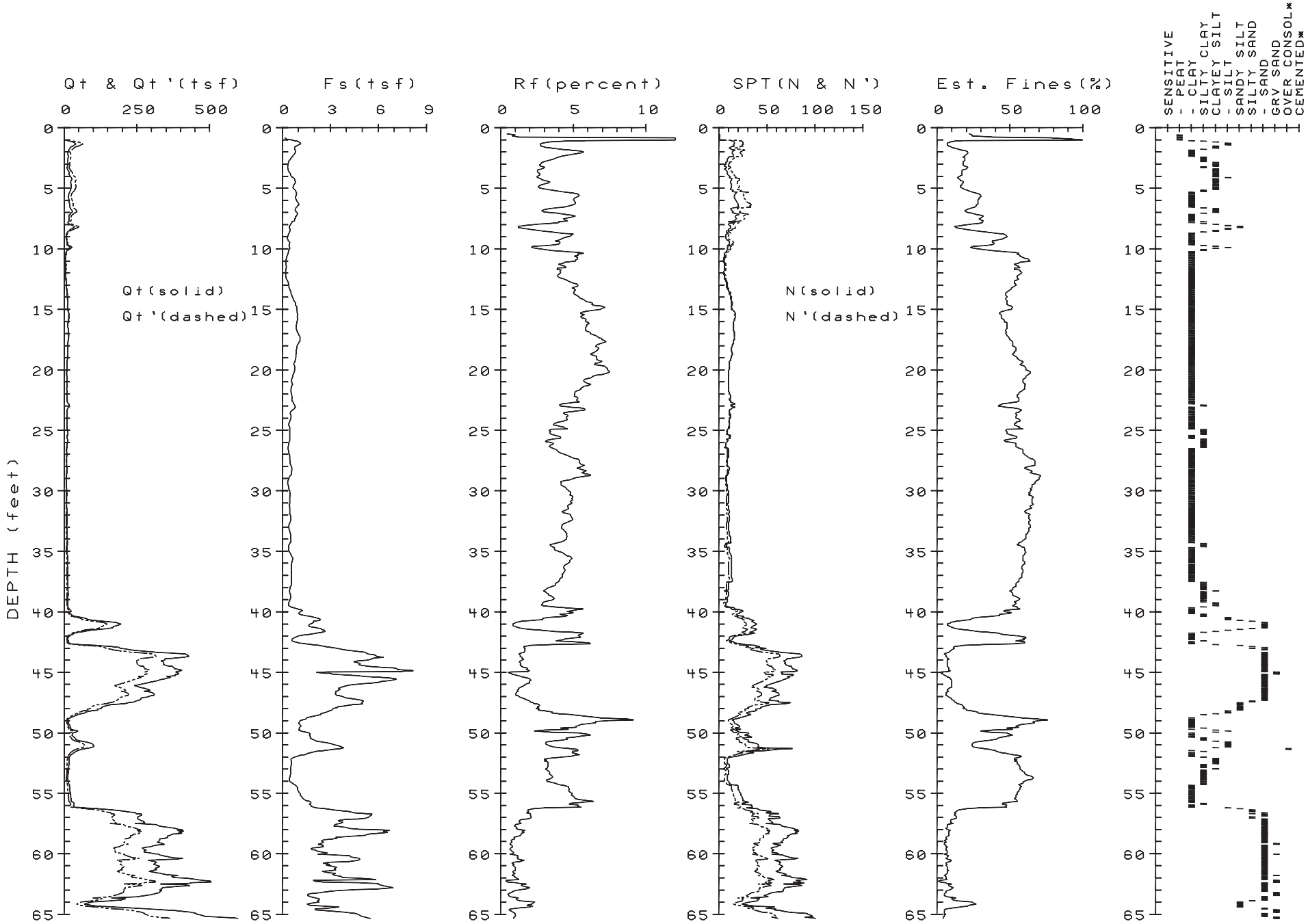
Groundwater estimated at 18.0 feet

PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)

CPT NO.: 1-CPT5
DATE : 02-06-2014

ENGEO, INC.

cpts by John Sarmiento & Associates



Terminated at 65.3 feet

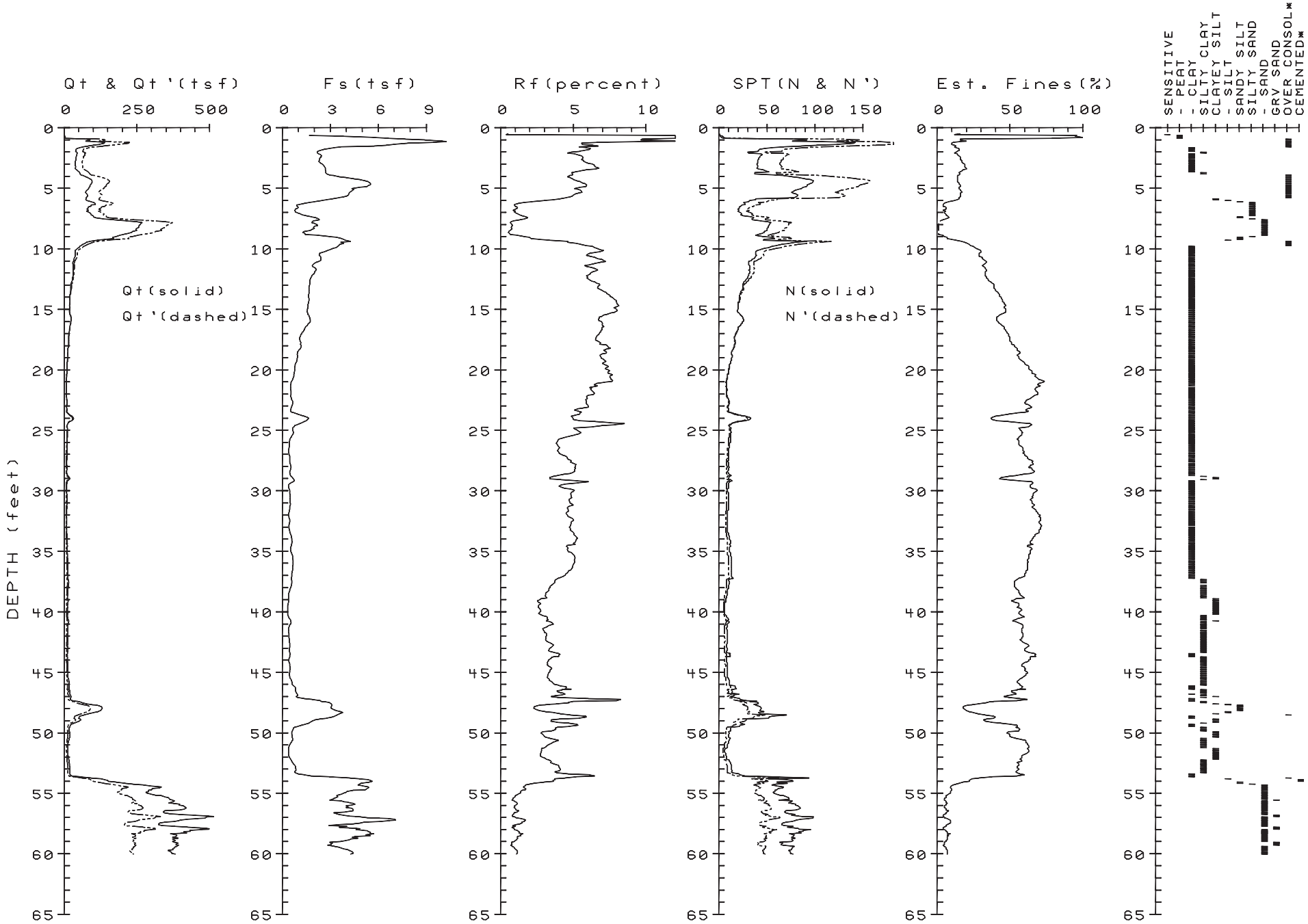
Groundwater measured at 18.0 feet

PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)

CPT NO.: 1-CPT1
DATE : 02-06-2014

ENGEO, INC.

cpts by John Sarmiento & Associates



Terminated at 60.0 feet

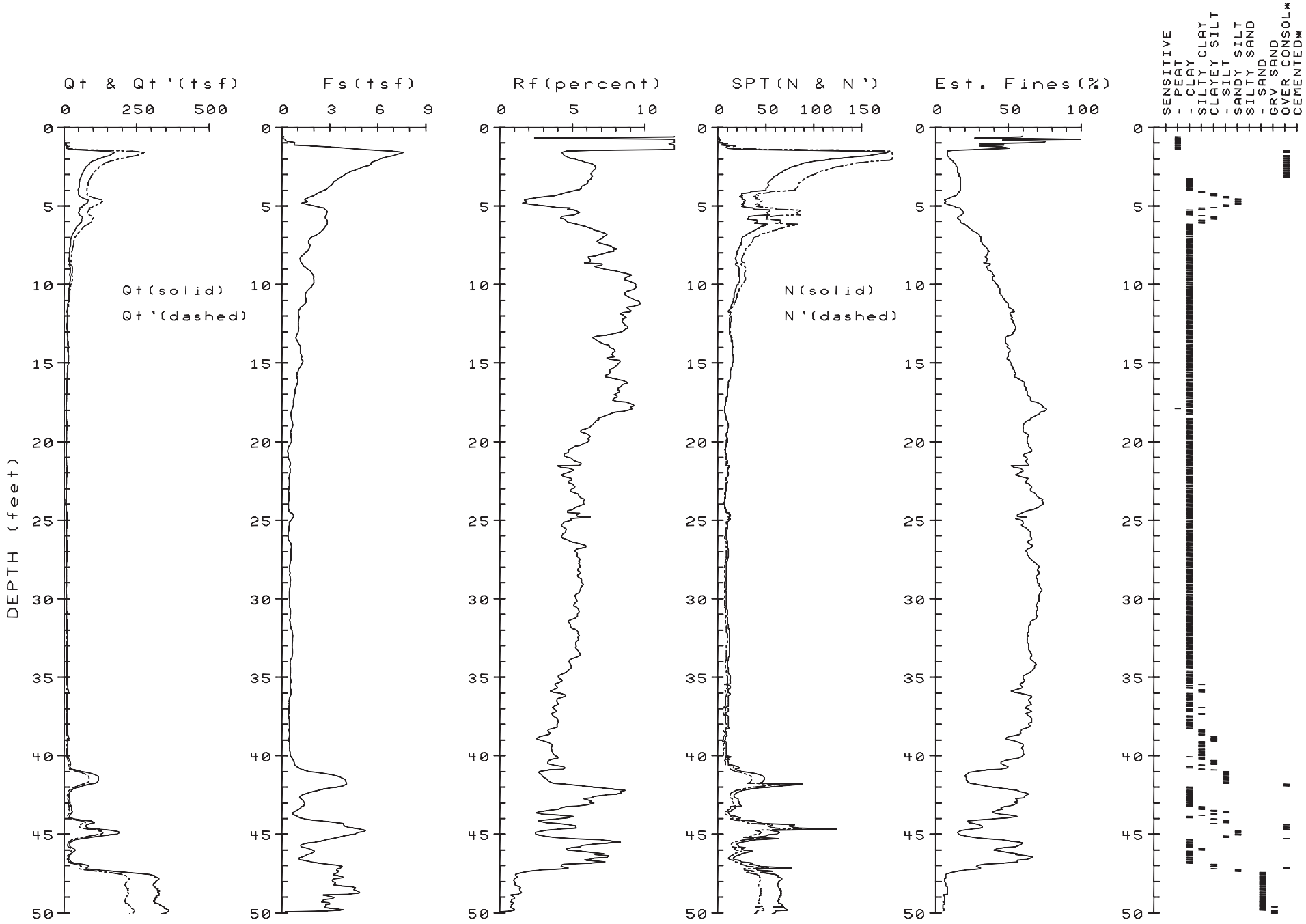
Groundwater estimated at 18.0 feet

PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)

CPT NO.: 1-CPT2
DATE : 02-06-2014

ENGEO, INC.

cpts by John Sarmiento & Associates



Terminated at 50.0 feet

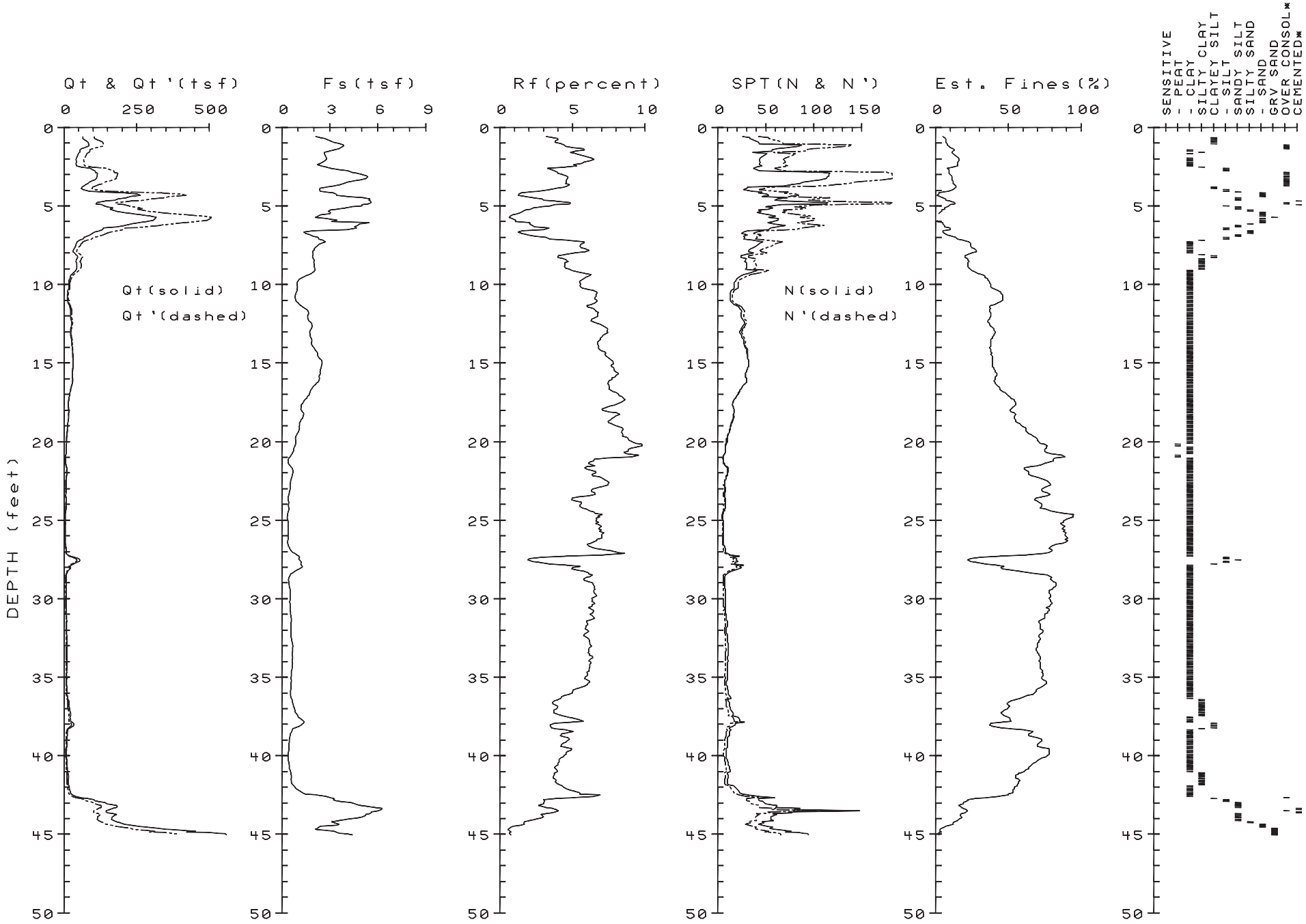
Groundwater measured at 19.5 feet

PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)

CPT NO.: 1-CPT3
DATE : 02-13-2014

ENGEO, INC.

cpts by John Sarmiento & Associates



Terminated at 45.0 feet

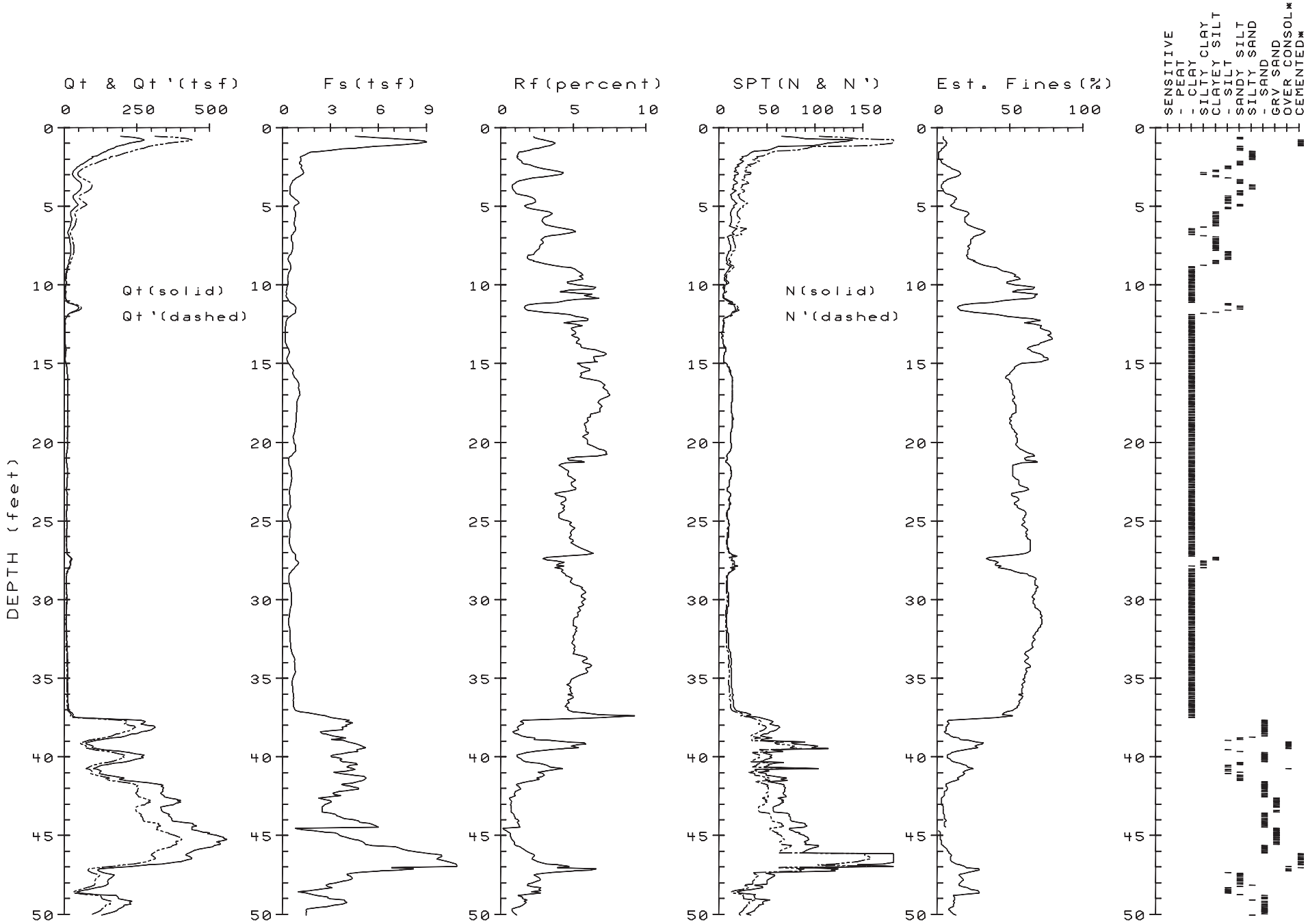
Groundwater measured at 19.9 feet

PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)

CPT NO.: 1-CPT4
DATE : 02-06-2014

ENGEO, INC.

cpts by John Sarmiento & Associates



Terminated at 50.0 feet

Groundwater estimated at 18.0 feet

PROJECT: TAMIEN STATION SITE
LOCATION: San Jose CA
PROJ. NO.: 10851.000.000(EGO-235)

CPT NO.: 1-CPT5
DATE : 02-06-2014

ENGEO, INC.

cpts by John Sarmiento & Associates

APPENDIX B

EMSL ANALYTICAL, INC.
NOA Test Results

DRAFT

APPENDIX B

EMSL Analytical, Inc
2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577
Phone/Fax: (510) 895-3675 / (510) 895-3680
http://www.EMSL.com sanleandrolab@emsl.com

EMSL Order:	091402007
CustomerID:	ENGE26
CustomerPO:	
ProjectID:	

Attn: **Cierra Atkinson**
Engeo, Inc.
6399 San Ignacio Ave
Suite 150
San Jose, CA 95119

Phone:	(408) 574-4900
Fax:	(925) 279-2698
Received:	02/12/14 3:00 PM
Analysis Date:	2/16/2014
Collected:	2/12/2014

Project: **10851.000.000 TAMIEN STATION**

Test Report: PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
S1 *091402007-0001*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
S2 *091402007-0002*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
S3 *091402007-0003*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**

Analyst(s)
Matthew Batongbacal (3)

Baojia Ke, Laboratory Manager
or other approved signatory

This report relates only to the samples listed above and may not be reproduced except in full, without EMSL's written approval. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for sample collection activities or method limitations. Some samples may contain asbestos fibers below the resolution limit of PLM. EMSL recommends that samples reported as none detected or less than the limit of detection undergo additional analysis via TEM.Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc San Leandro, CA

Initial report from 02/16/2014 04:57:38

THIS IS THE LAST PAGE OF THE REPORT.

№091402007

CHAIN OF CUSTODY RECORD

PROJECT NUMBER: 10851.000.000
PROJECT NAME: Tamien Station
SAMPLED BY: (SIGNATURE/PRINT) Cierra Atkinson
PROJECT MANAGER: Cierra Atkinson
ROUTING: E-MAIL catkinson@engeo.com Hard Copy

SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	Carb 435 Level A	REMARKS REQUIRED DETECTION LIMITS
S1	12-Feb-14	1:48	soil	1	bag	ice	x	
S2	12-Feb-14	1:56	soil	1	bag	ice	x	
S3	12-Feb-14	2:05	soil	1	bag	ice	x	

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
Cierra Atkinson	2/12/14 3:00	R. Butler 2-12-14 3pm MI.			
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	3 Day Turnaround Time	

ENGEO INCORPORATED
6399 SAN IGNACIO AVENUE, SUITE 150
SAN JOSE, CALIFORNIA 95119
(408) 574-4900 FAX (888) 279-2698
WWW.ENGEO.COM

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES

APPENDIX C

CLIQ Liquefaction Analysis

DRAFT

APPENDIX C

GeoLogismiki
Geotechnical Engineers
Merarhias 56
http://www.geologismiki.gr

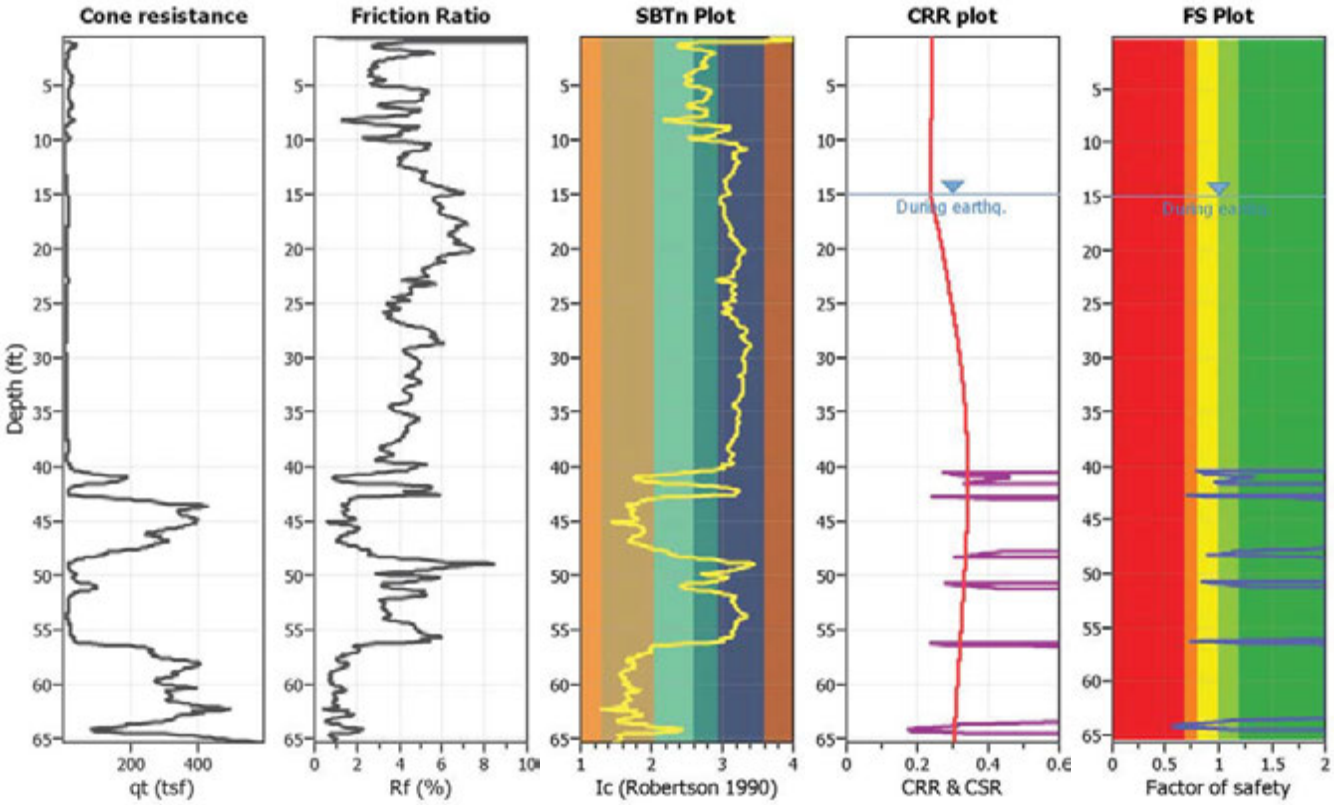
LIQUEFACTION ANALYSIS REPORT

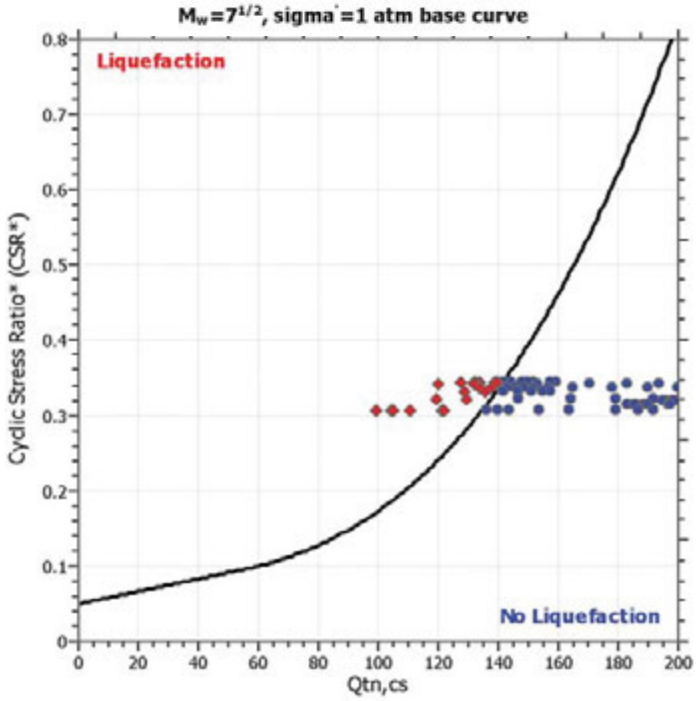
Project title : Tamien Station - 10851.000.000 **Location : Lick Avenue, San Jose**

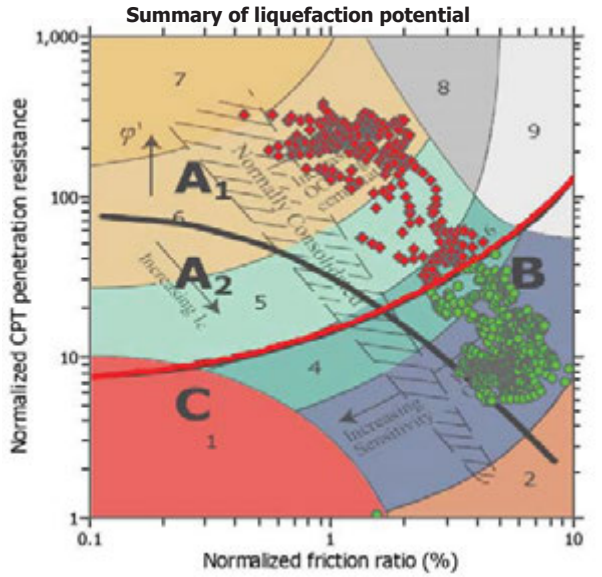
CPT file : 1-CPT1

Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	15.00 ft	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	15.00 ft	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.70	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.50	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

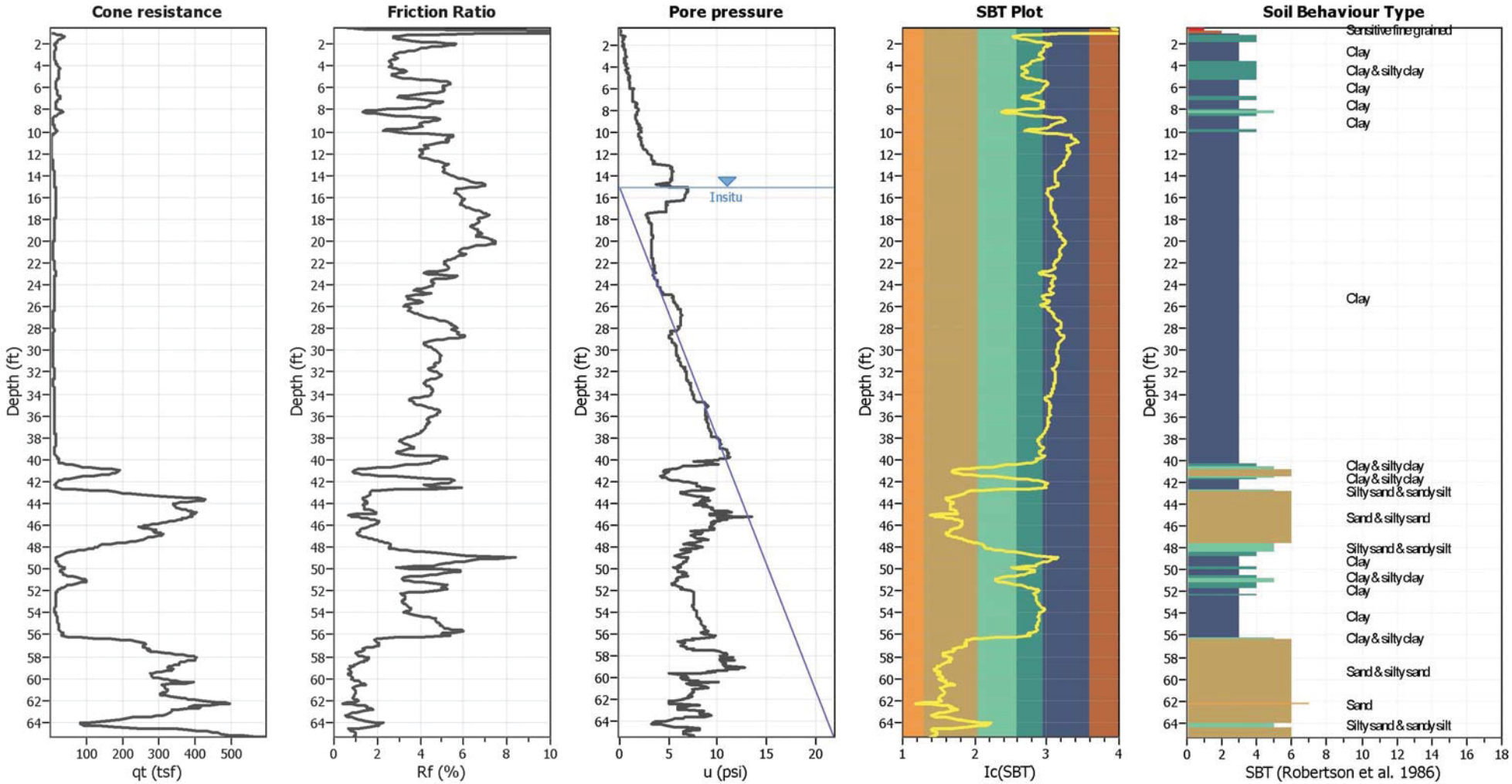






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and groundl geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



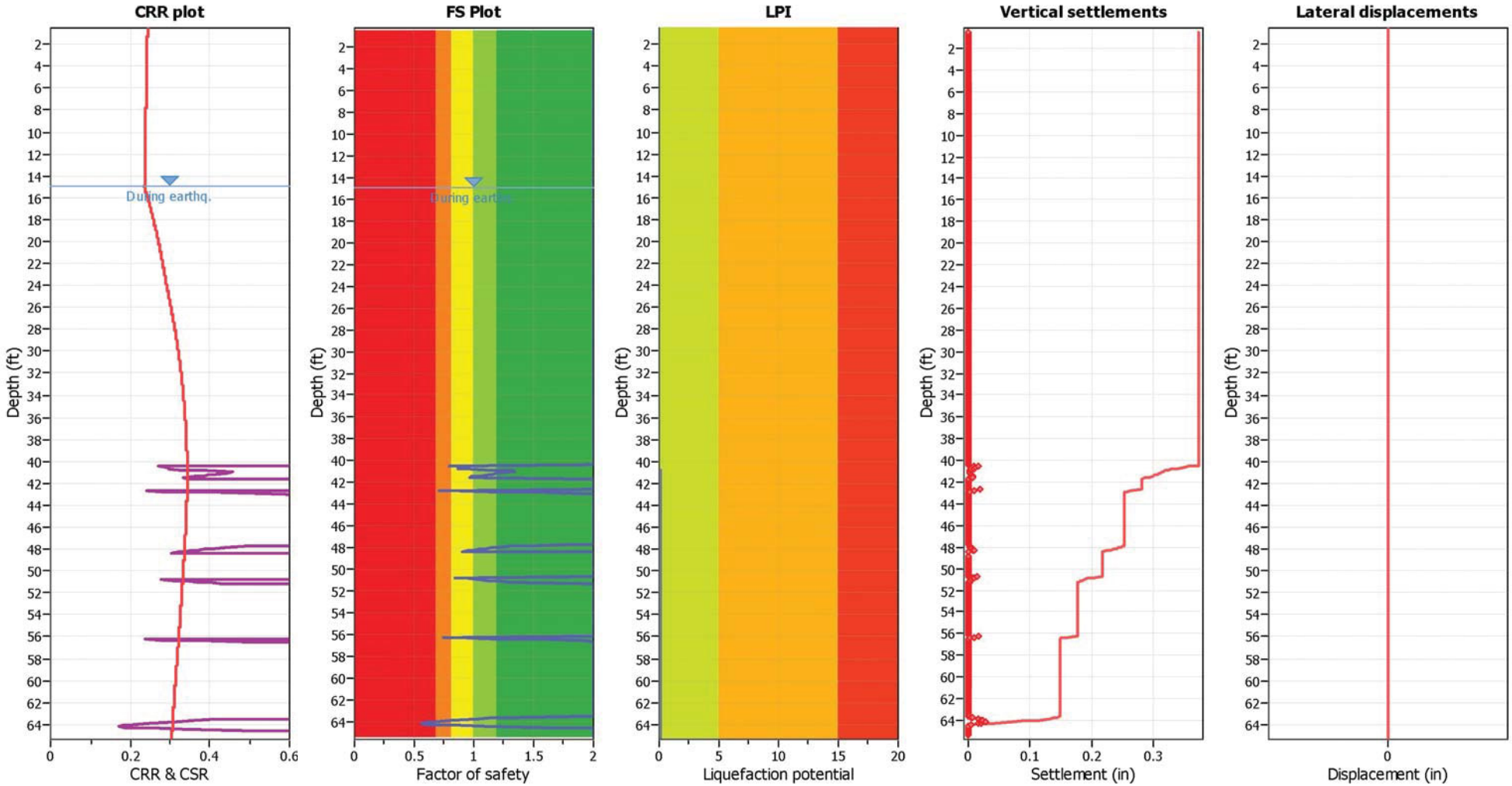
Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	15.00 ft	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.70	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.50	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	15.00 ft	Fill height:	N/A	Limit depth:	N/A

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	15.00 ft	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.70	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.50	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	15.00 ft	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

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http://www.geologismiki.gr

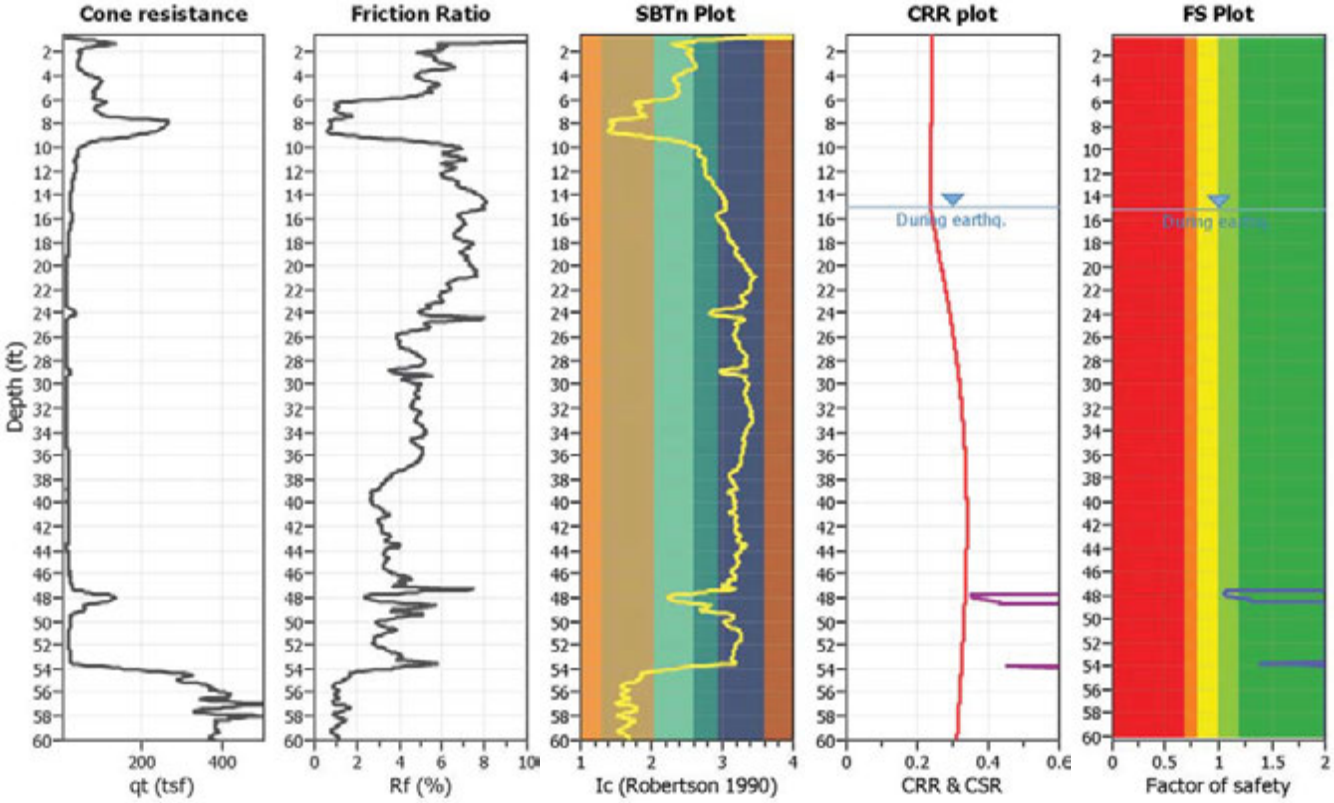
LIQUEFACTION ANALYSIS REPORT

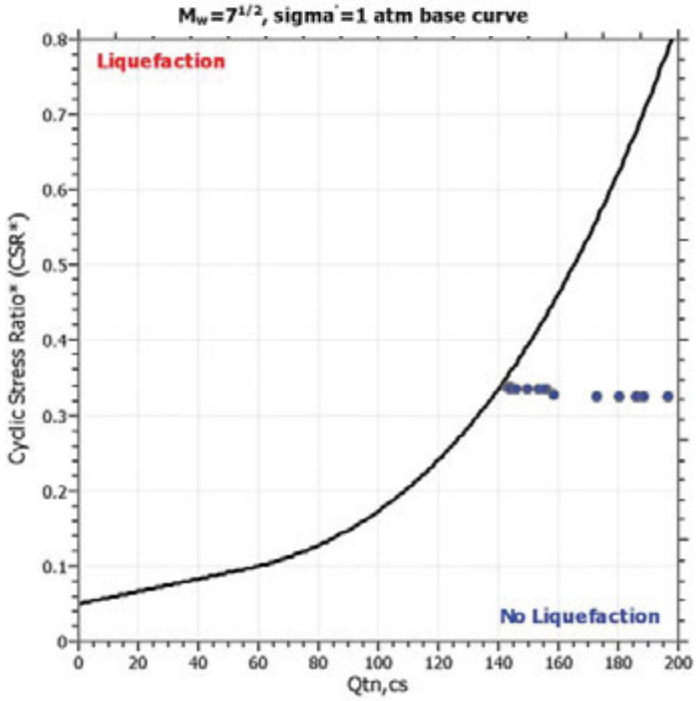
Project title : Tamien Station - 10851.000.000 **Location : Lick Avenue, San Jose**

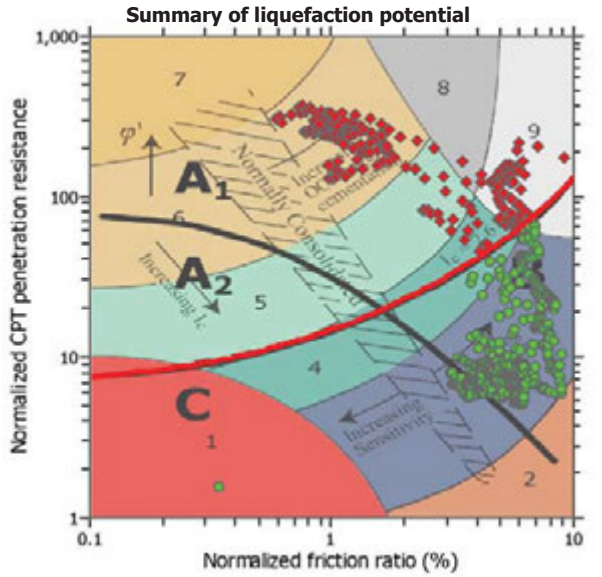
CPT file : 1-CPT2

Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	15.00 ft	Use fill:	No	Clay like behavior	
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	15.00 ft	Fill height:	N/A	applied:	Sands only
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth applied:	No
Earthquake magnitude M_w:	6.70	Ic cut-off value:	2.60	Trans. detect. applied:	No	Limit depth:	N/A
Peak ground acceleration:	0.50	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

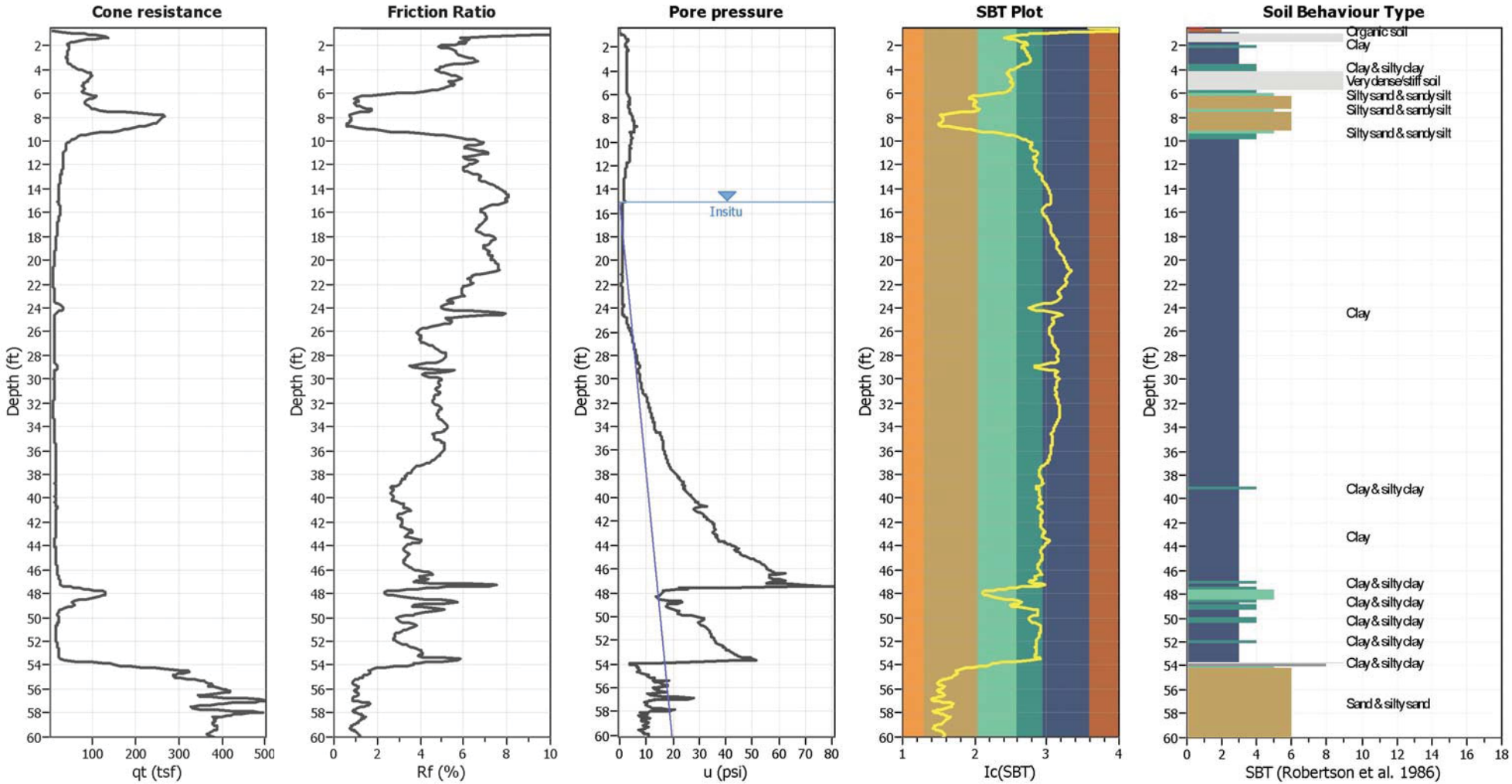






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and groundl geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



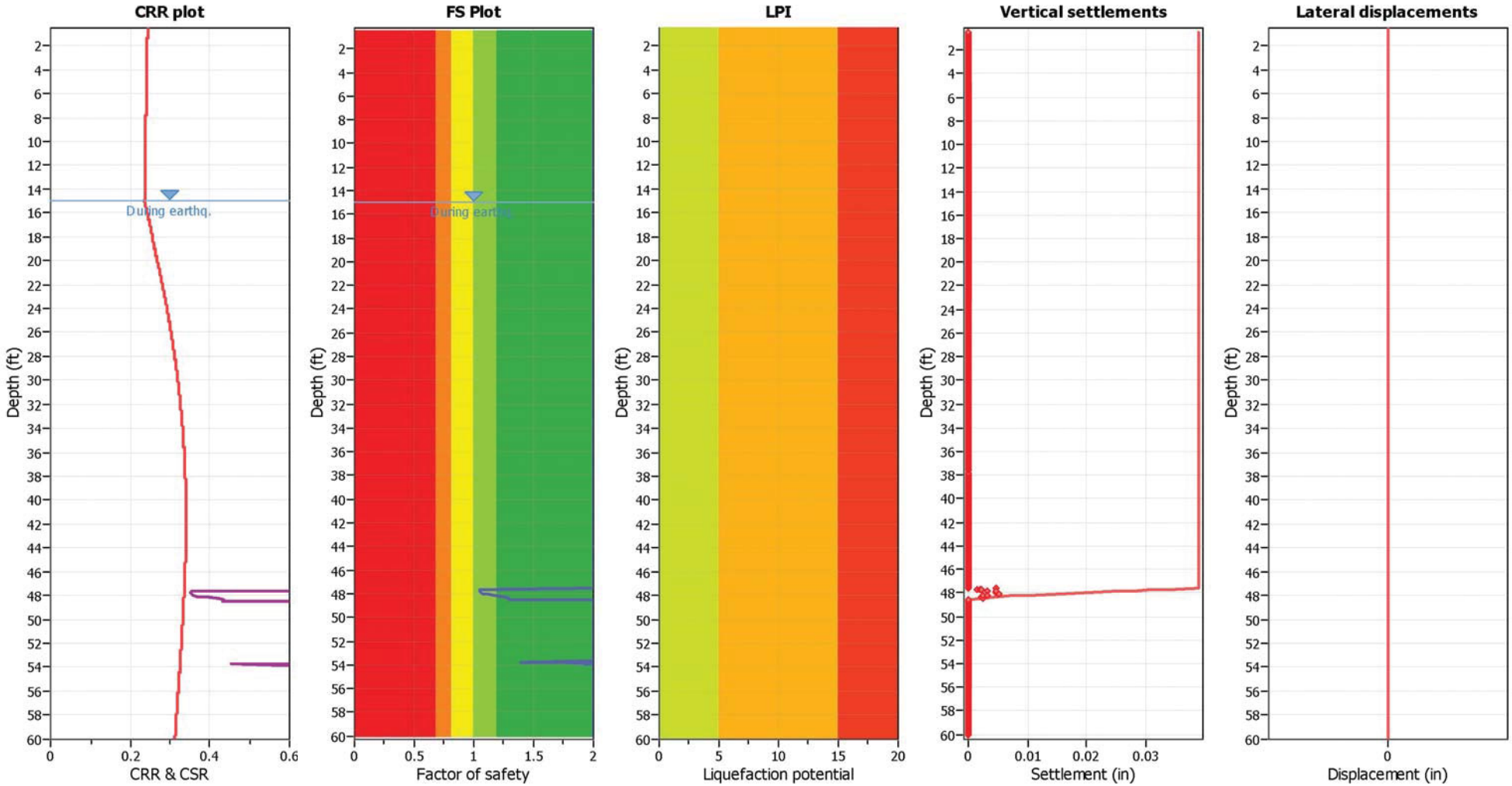
Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	15.00 ft	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.70	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.50	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	15.00 ft	Fill height:	N/A	Limit depth:	N/A

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	15.00 ft	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.70	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.50	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	15.00 ft	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

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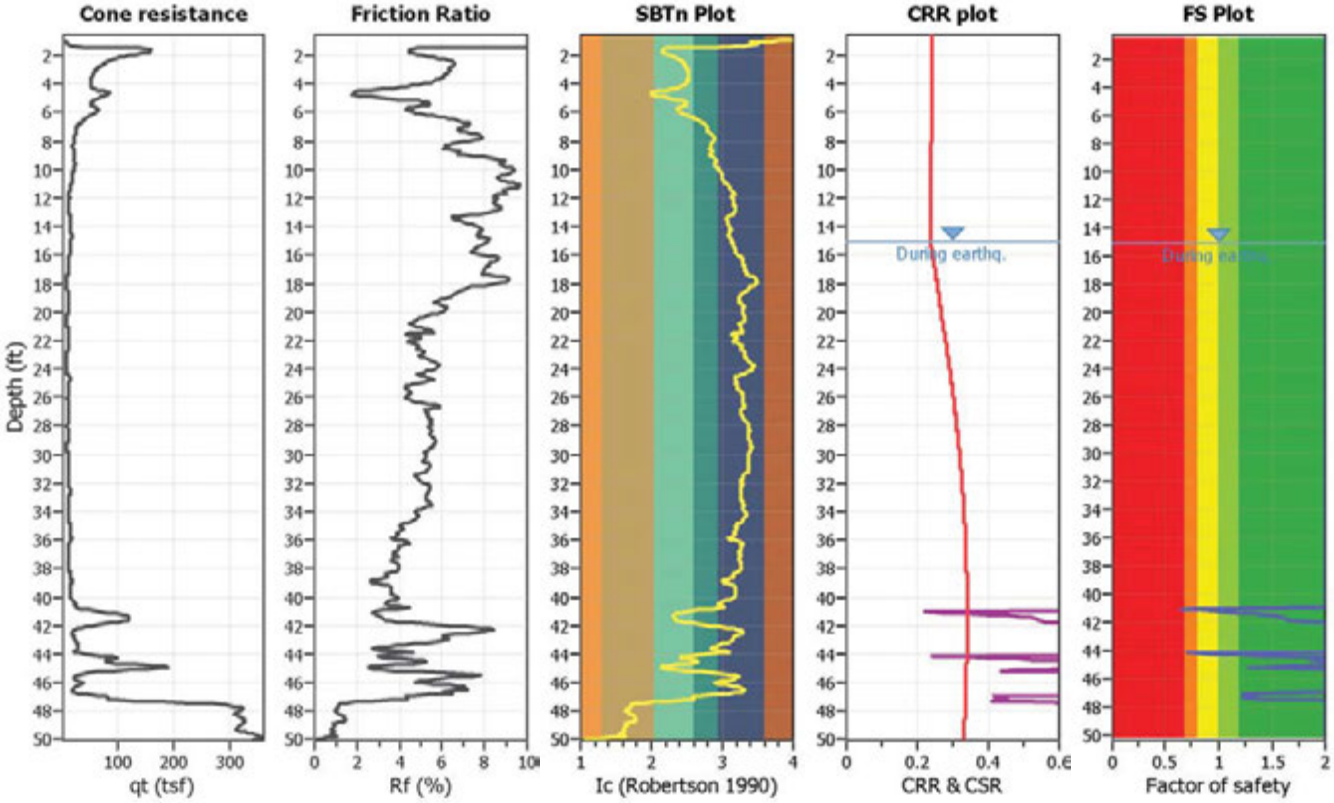
LIQUEFACTION ANALYSIS REPORT

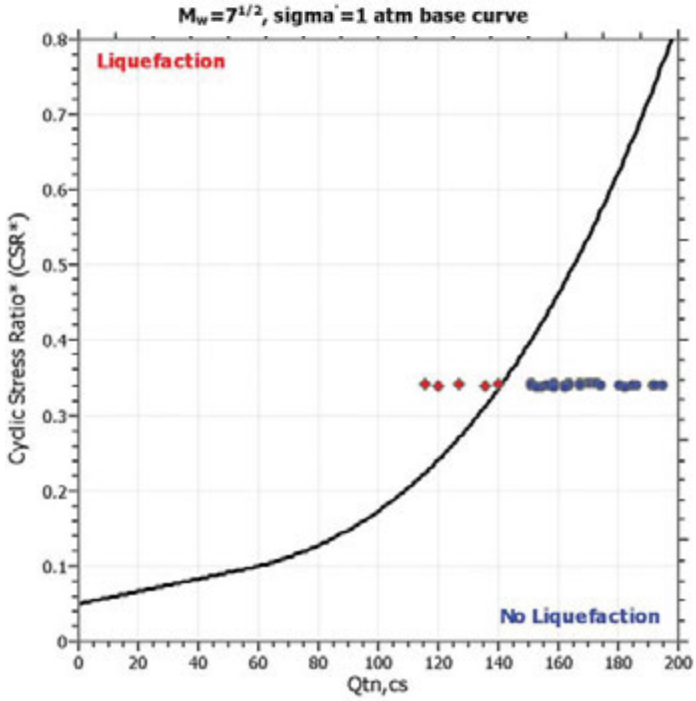
Project title : Tamien Station - 10851.000.000 **Location : Lick Avenue, San Jose**

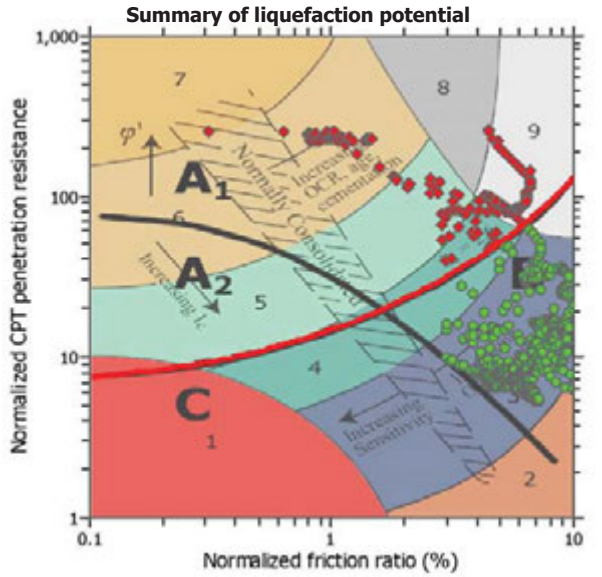
CPT file : 1-CPT03

Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	15.00 ft	Use fill:	No	Clay like behavior	
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	15.00 ft	Fill height:	N/A	applied:	Sands only
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth applied:	No
Earthquake magnitude M_w:	6.70	Ic cut-off value:	2.60	Trans. detect. applied:	No	Limit depth:	N/A
Peak ground acceleration:	0.50	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

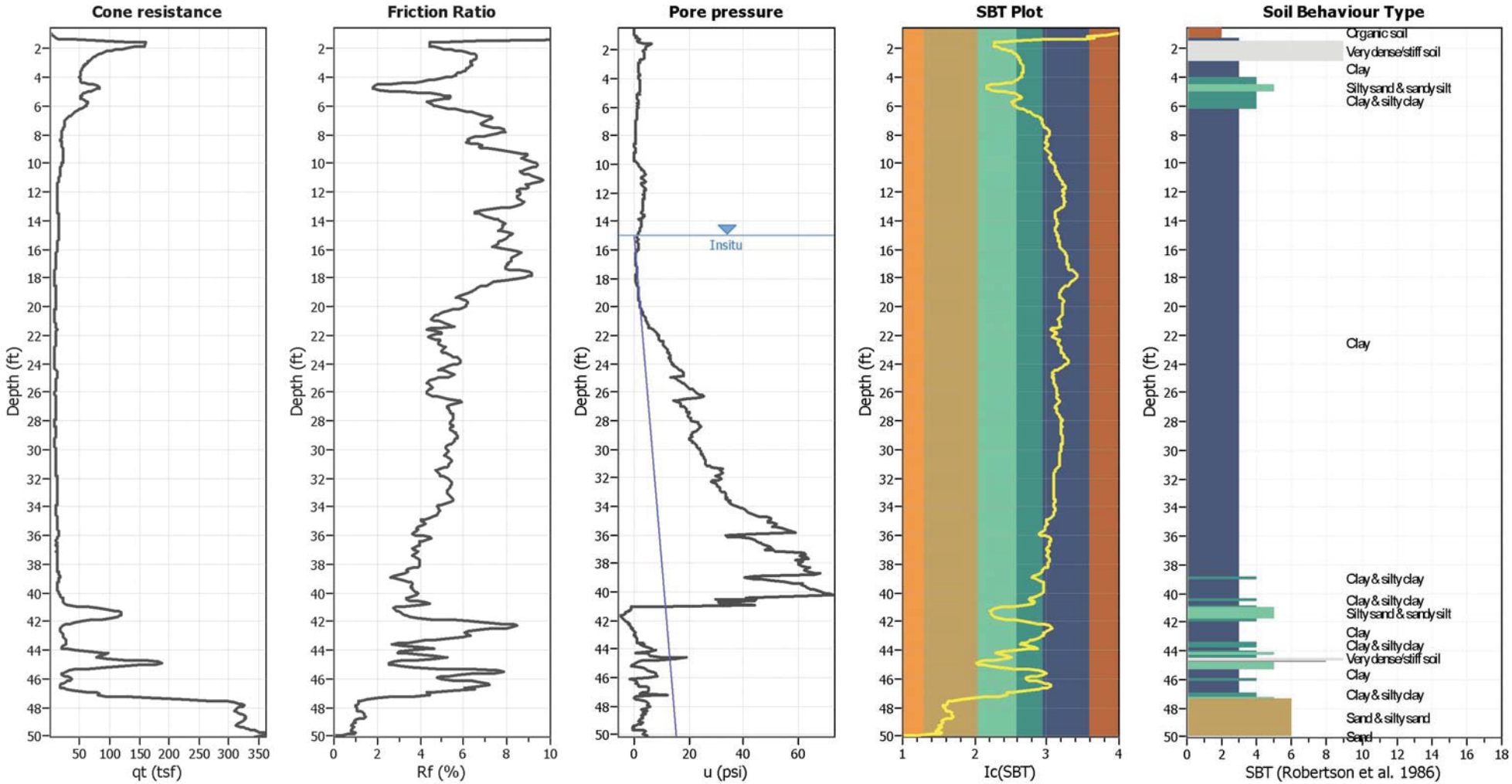






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and groundl geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



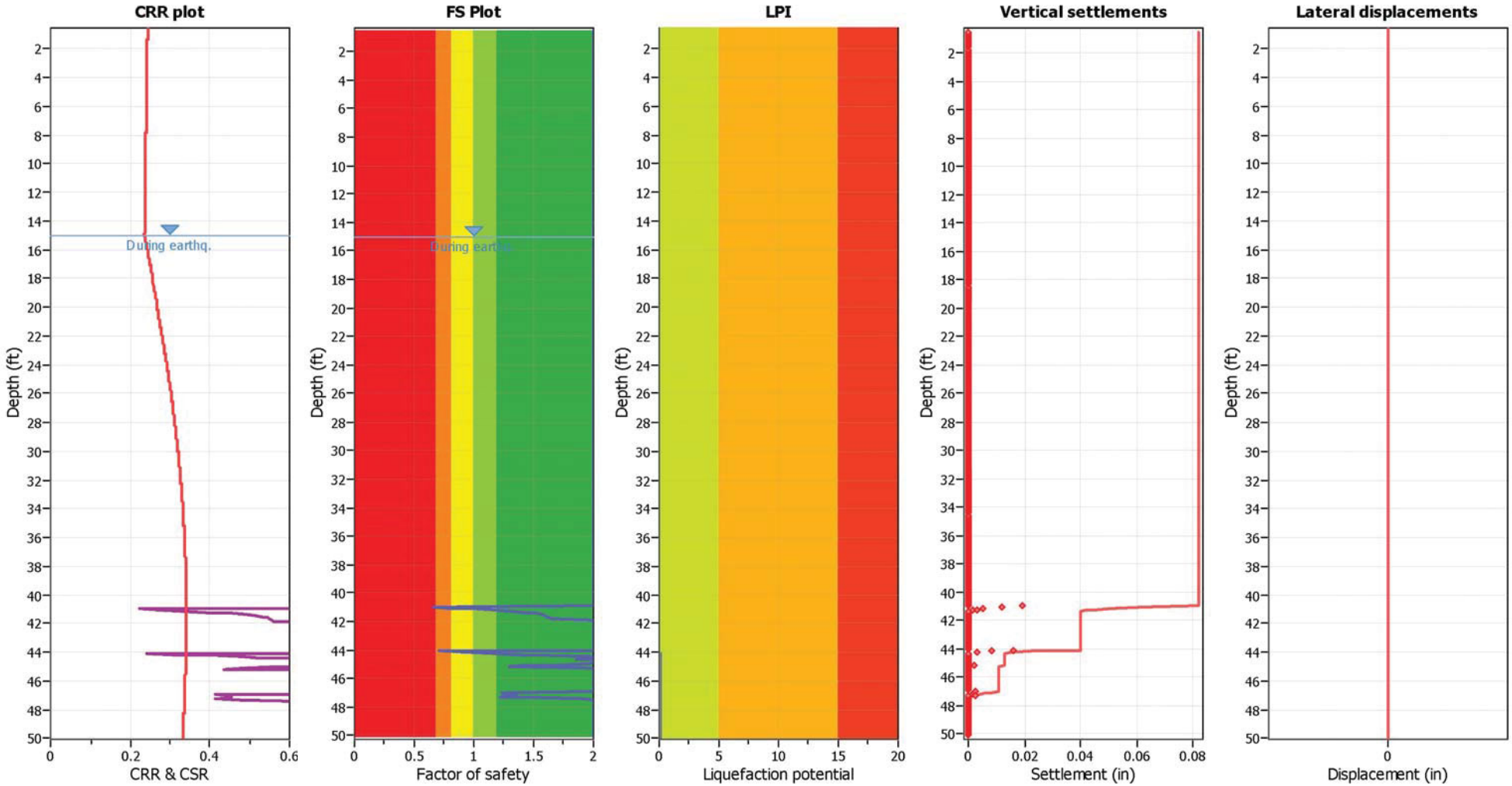
Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	15.00 ft	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.70	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.50	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	15.00 ft	Fill height:	N/A	Limit depth:	N/A

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	15.00 ft	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.70	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.50	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	15.00 ft	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

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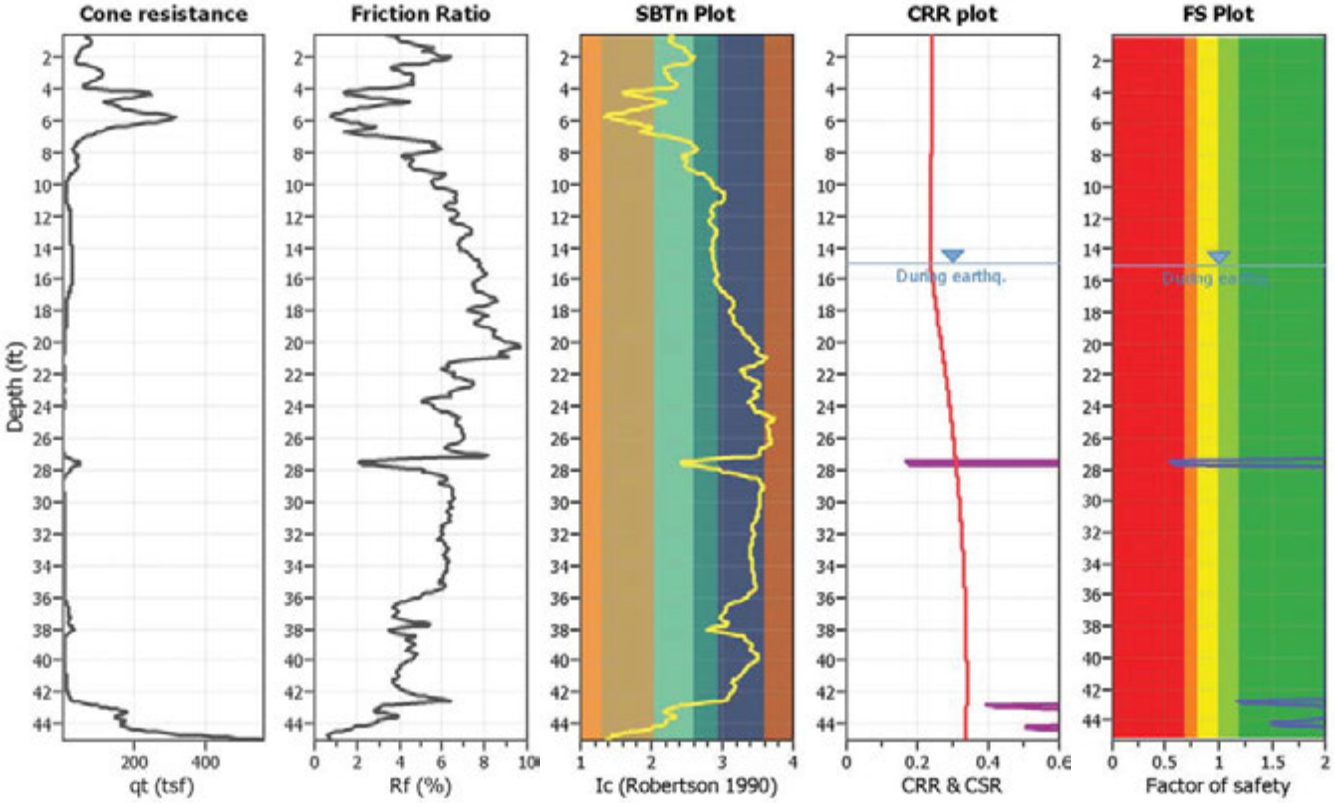
LIQUEFACTION ANALYSIS REPORT

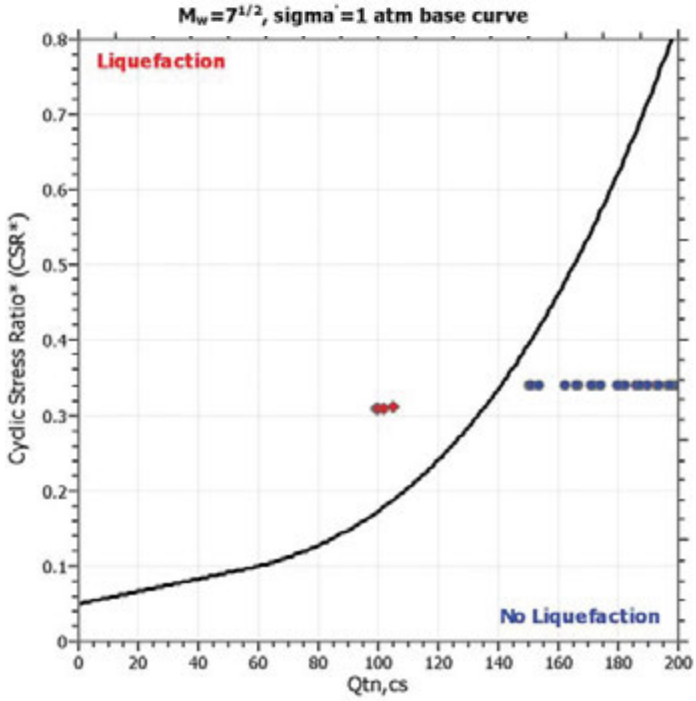
Project title : Tamien Station - 10851.000.000 **Location : Lick Avenue, San Jose**

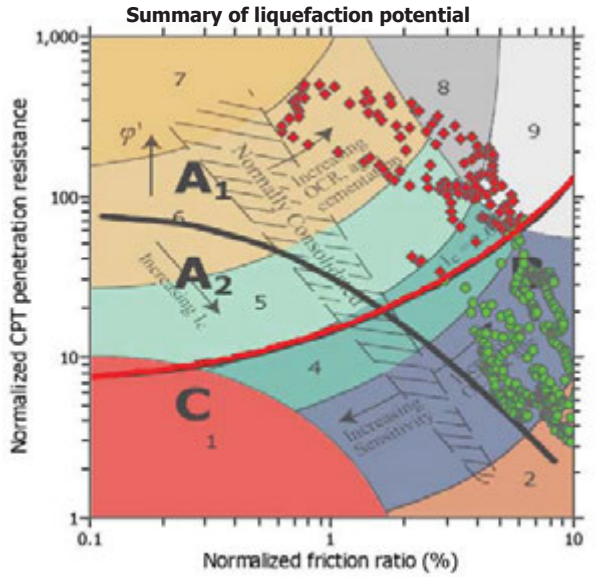
CPT file : 1-CPT4

Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	15.00 ft	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	15.00 ft	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.70	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.50	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

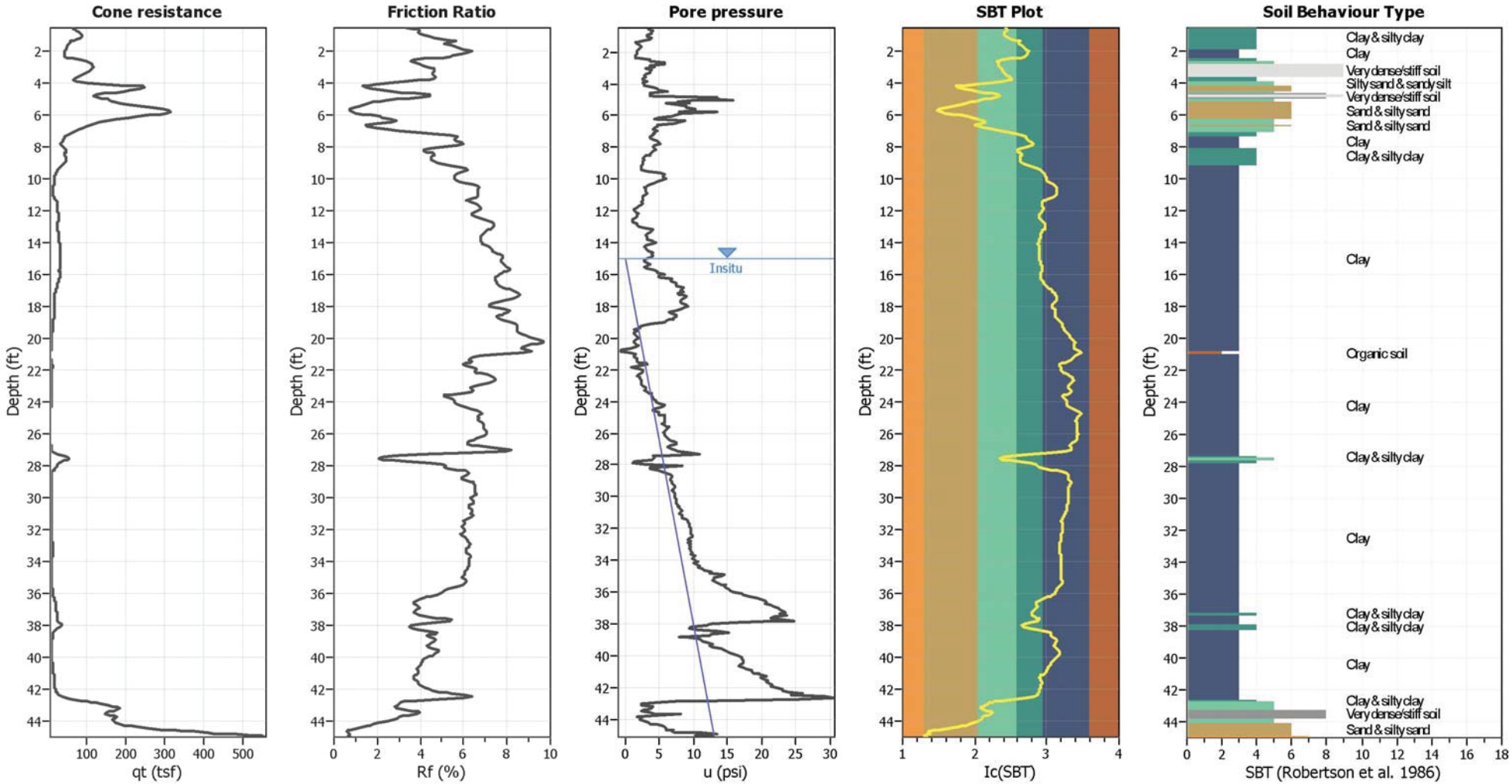






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and groundl geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



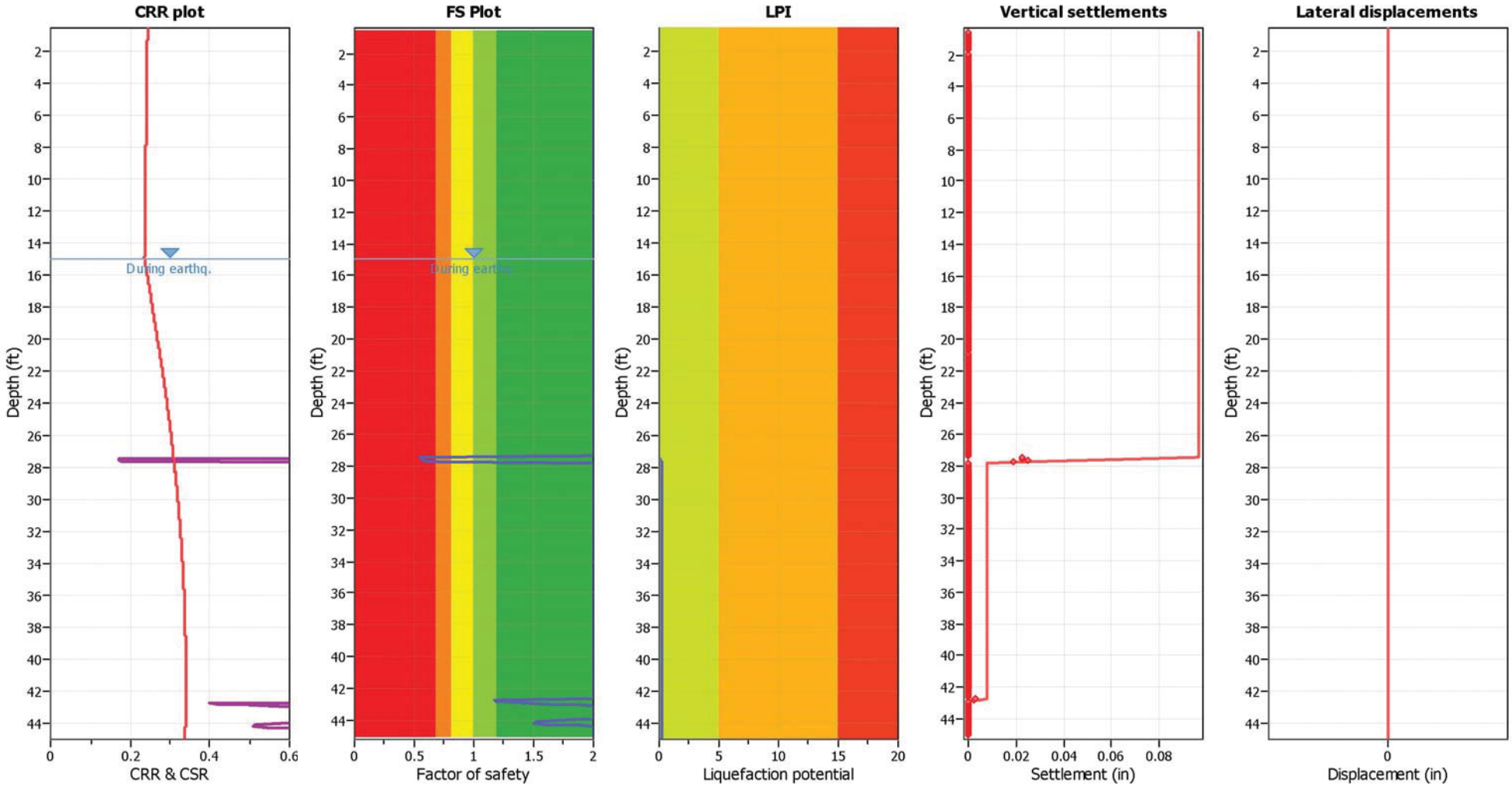
Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	15.00 ft	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.70	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.50	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	15.00 ft	Fill height:	N/A	Limit depth:	N/A

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	15.00 ft	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.70	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.50	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	15.00 ft	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

GeoLogismiki
Geotechnical Engineers
Merarhias 56
http://www.geologismiki.gr

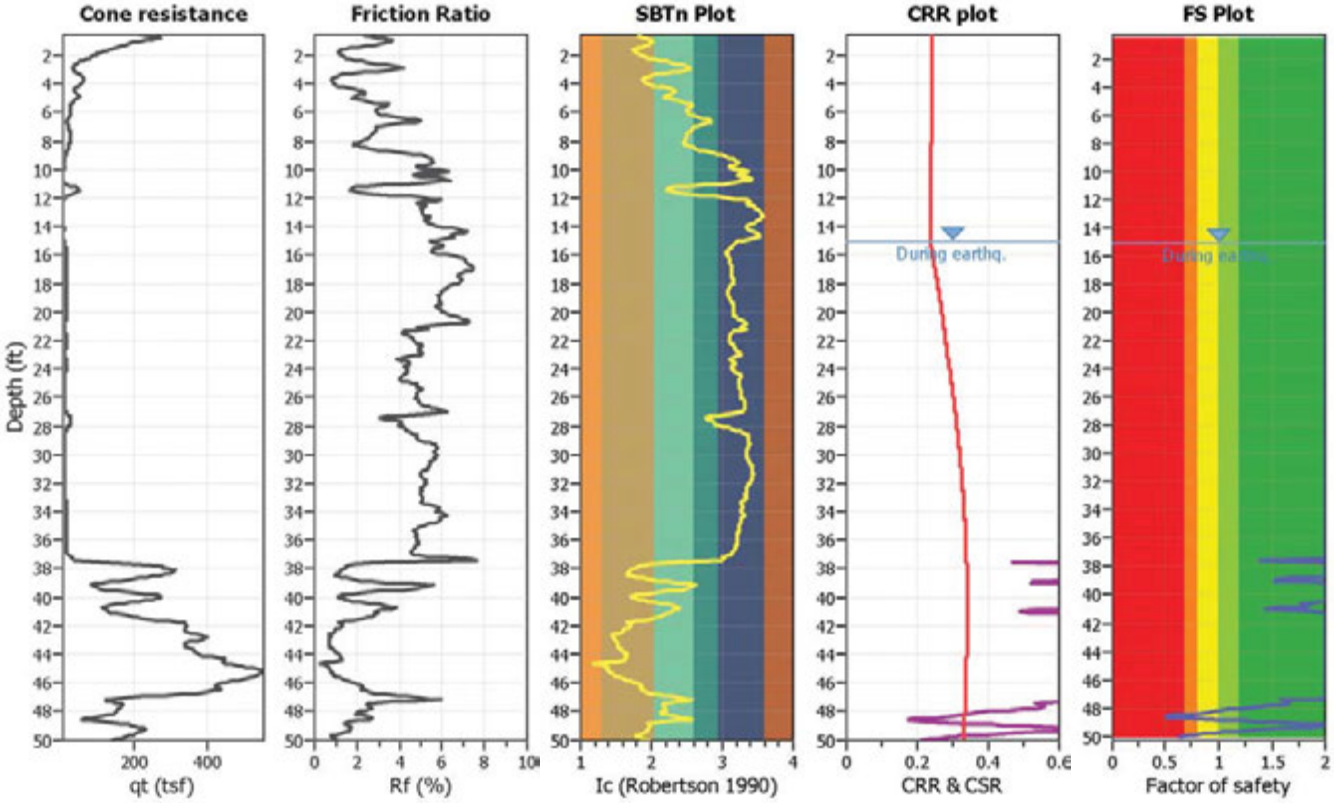
LIQUEFACTION ANALYSIS REPORT

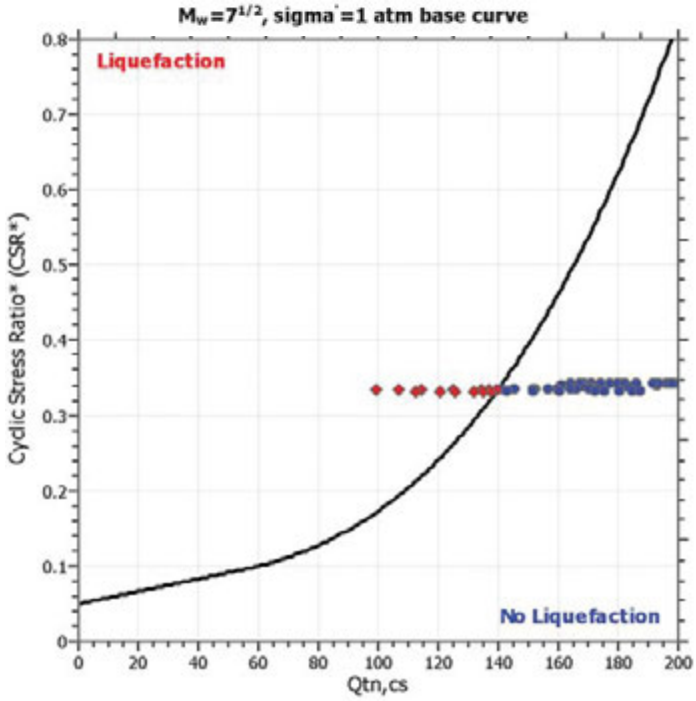
Project title : Tamien Station - 10851.000.000 **Location : Lick Avenue, San Jose**

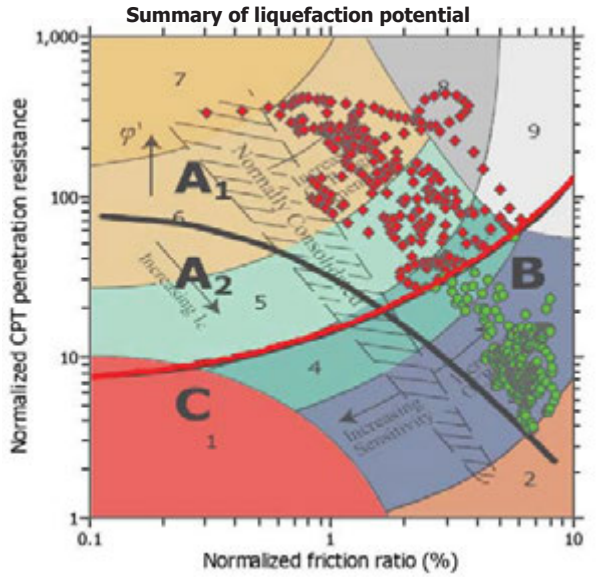
CPT file : 1-CPT5

Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	15.00 ft	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	15.00 ft	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.70	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.50	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

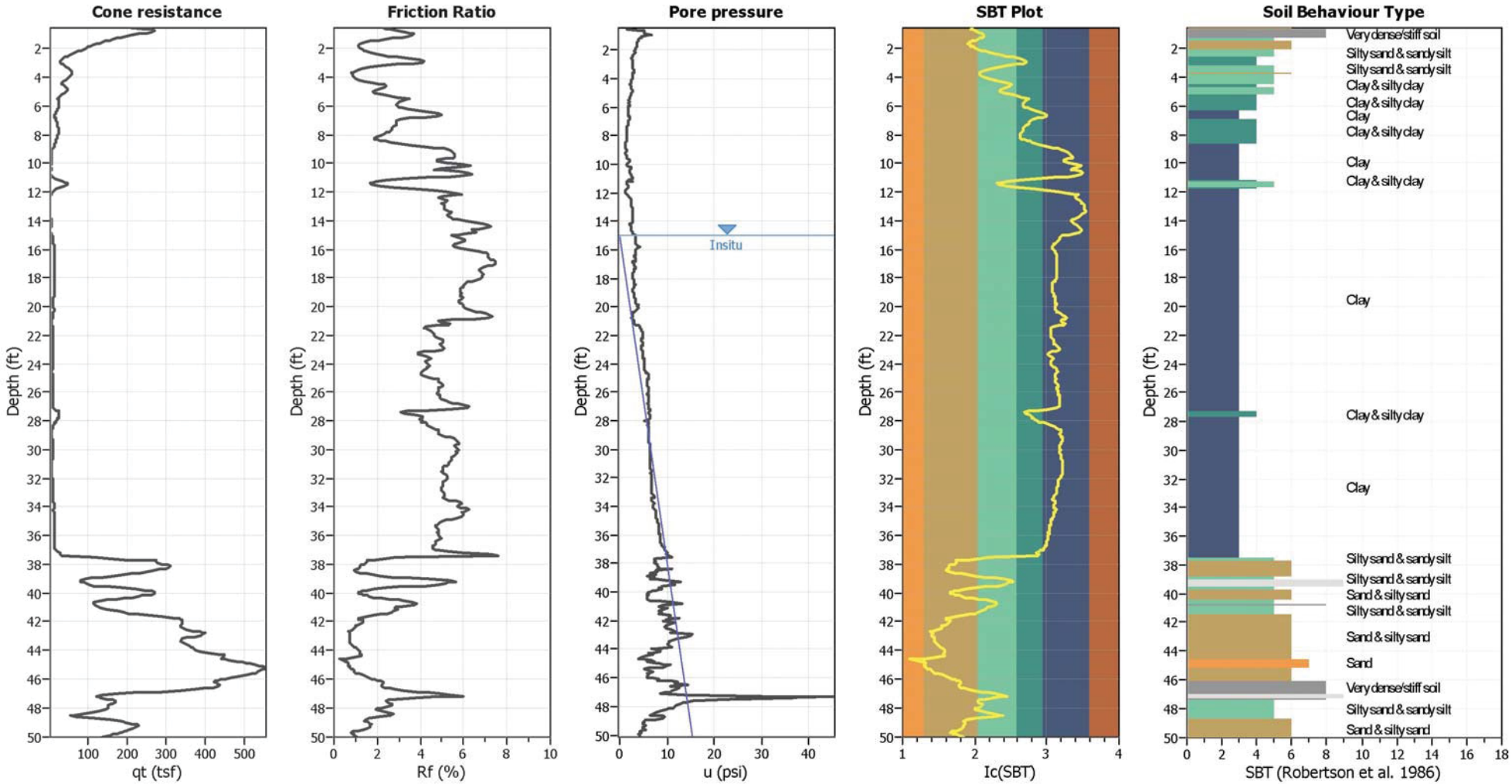






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and groundl geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	15.00 ft	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.70	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.50	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	15.00 ft	Fill height:	N/A	Limit depth:	N/A

SBT legend

1. Sensitive fine grained
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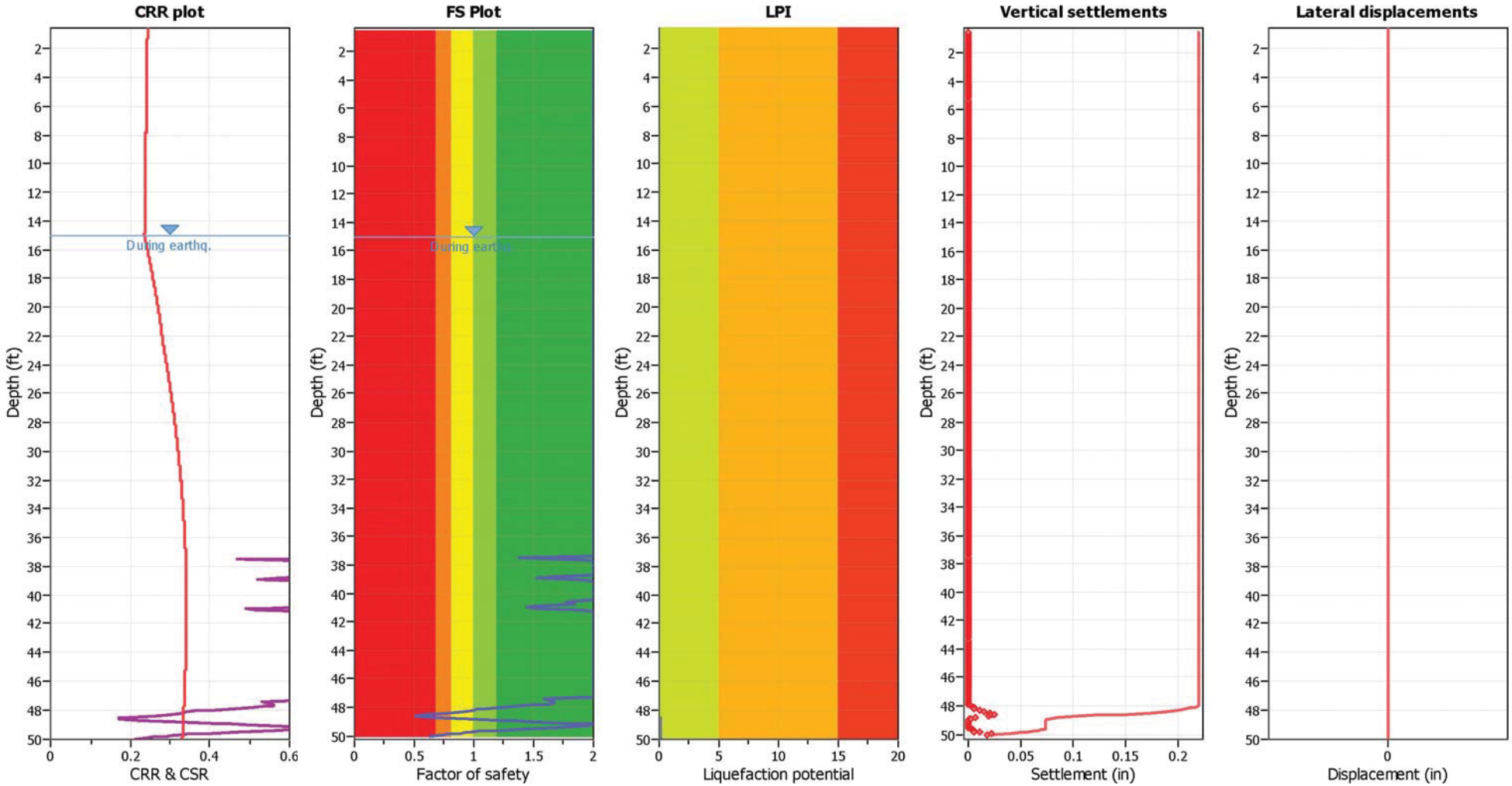
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	15.00 ft	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.70	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.50	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	15.00 ft	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

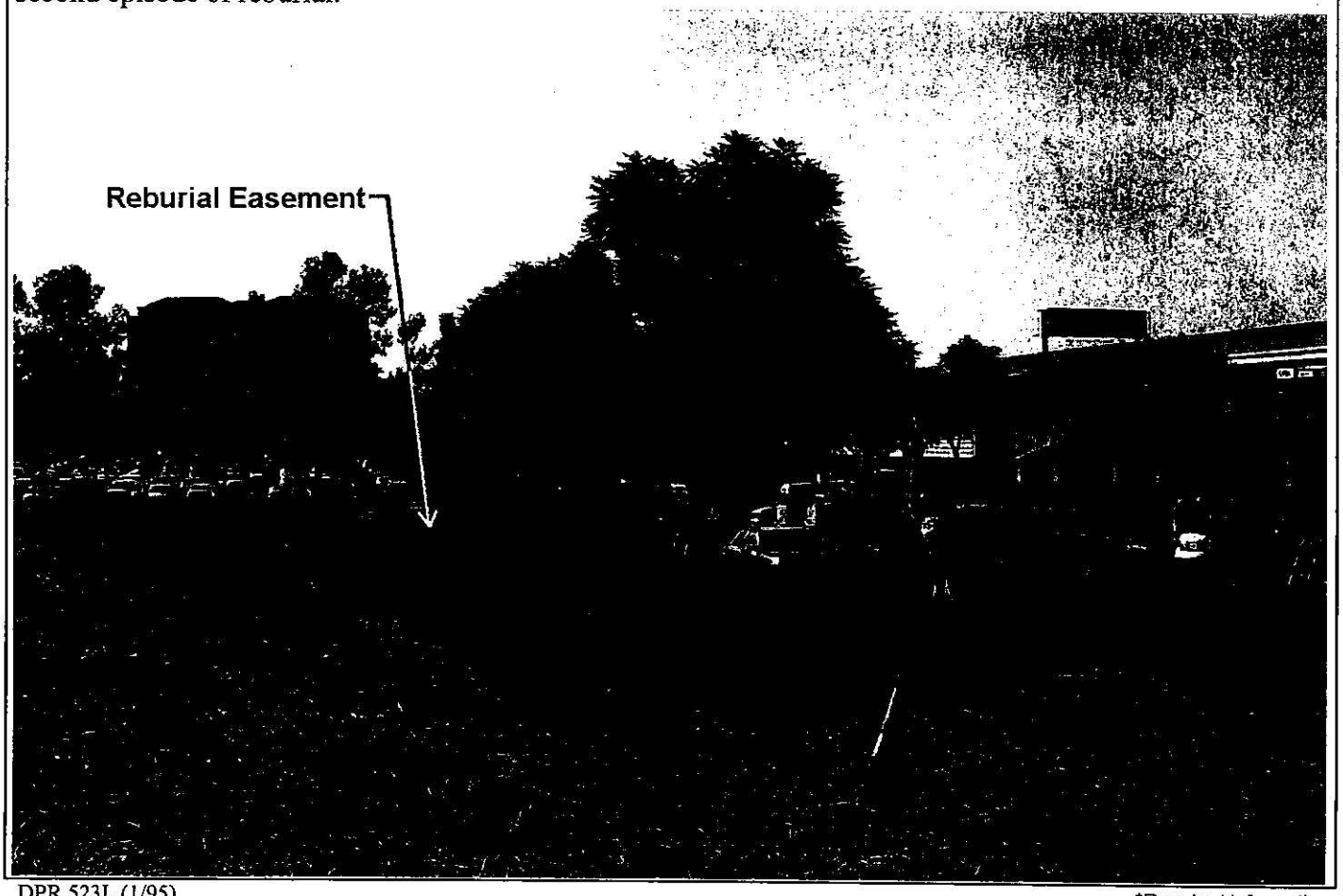
LPI color scheme

- Very high risk
- High risk
- Low risk

This update supplements the original record prepared by Mark Hylkema on January 16, 1990 and a prior update prepared by Jim Nelson on Novermber 11, 1998. CA-SCL-690 was completely excavated in the early 1990s and a plan of that work is provided as page 2 of this update record. The only known surviving remains at this site consist of the human remains and associated grave goods reburied in a dedicated cemetery easement shown on two additional maps attached as pages 3 and 4 of this update.

The cemetery contains the remains of about 125 Native American individuals that were exhumed and analyzed in a report by Mark G. Hylkema (2005) later published in 2007 by the Center for Archaeological Research at Davis as *Santa Clara Valley Prehistory: The Tamien Station Site* (CARD Publication 15, University of California, Davis). Most human remains and associated grave goods were reburied in 1993. However, a small group of unassociated human remains and several grave lots were later discovered and a second episode of reburial was completed on October 23, 2008. A single archive box was interred at the north end of the easement at a depth of 9.5 feet below surface in the presence of the MLD (Rosemary Cambra), two other Ohlone women (Norma Sanchez, Monica Arellano), archaeologist Allan Leventhal, VTA environmental planner Lauren Bobadilla, and Caltrans cultural resource staff Lissa McKee and Thad Van Bueren. The additional material extends the easement an additional 10 feet north for a total length of 160 feet instead of the 150 indicated on Page 4 of this record. The easement has not yet been formally recorded, but is actively under negotiation with VTA who holds title.

The following image shows the cemetery easement as it appeared on Oct. 23, 2008 prior to starting the second episode of reburial.



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

EXCAVATION PLAN

Primary # P-43-1071
HRI#
Trinomial CA-SCL-690

*Resource Name or # (Assigned by recorder) "The Llick Site"

*Drawn By: Mark G. Hylkema

*Date: from 2007 report

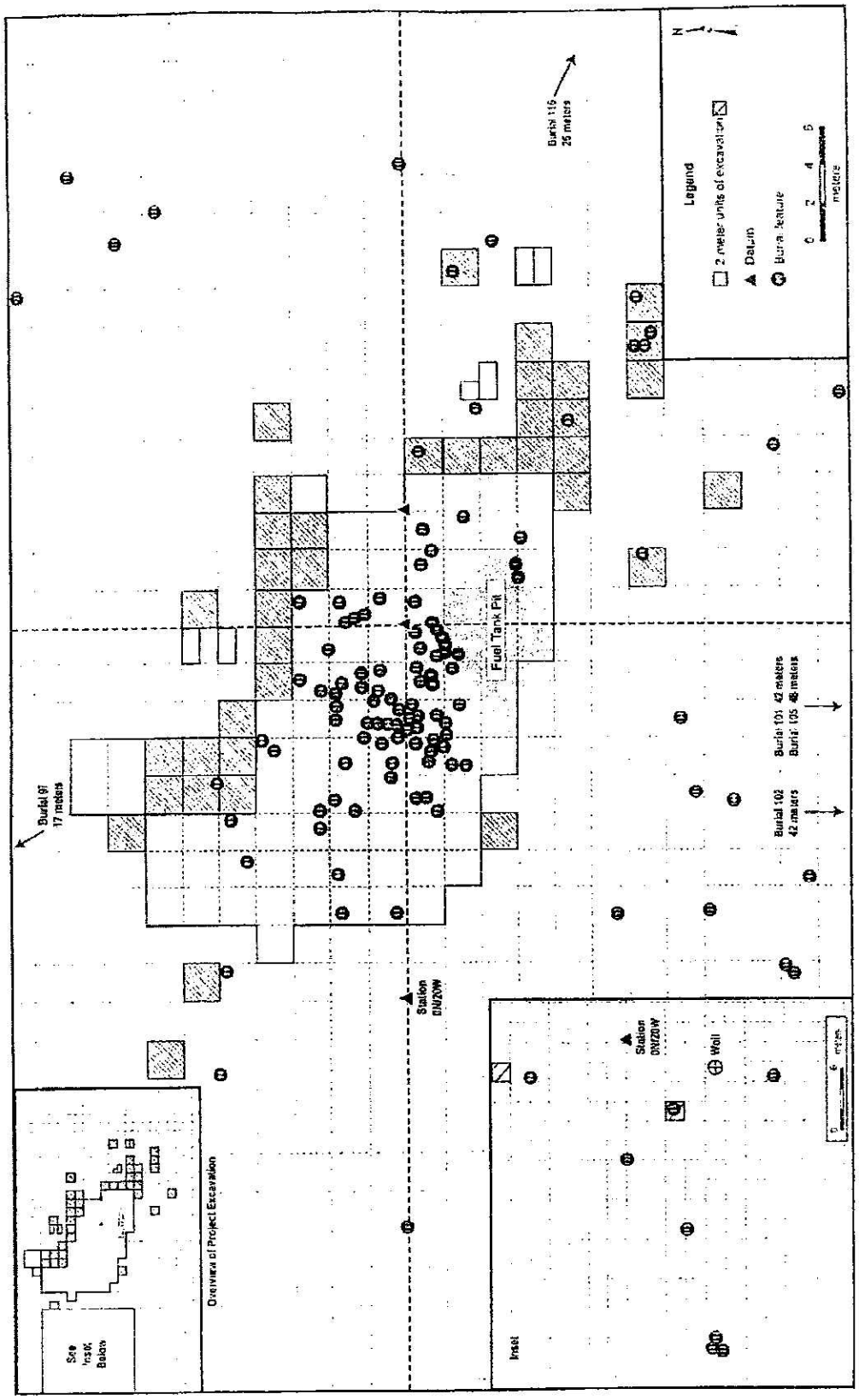


Figure 4. Overall Burial Distribution.

*Required information

State of California ? The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

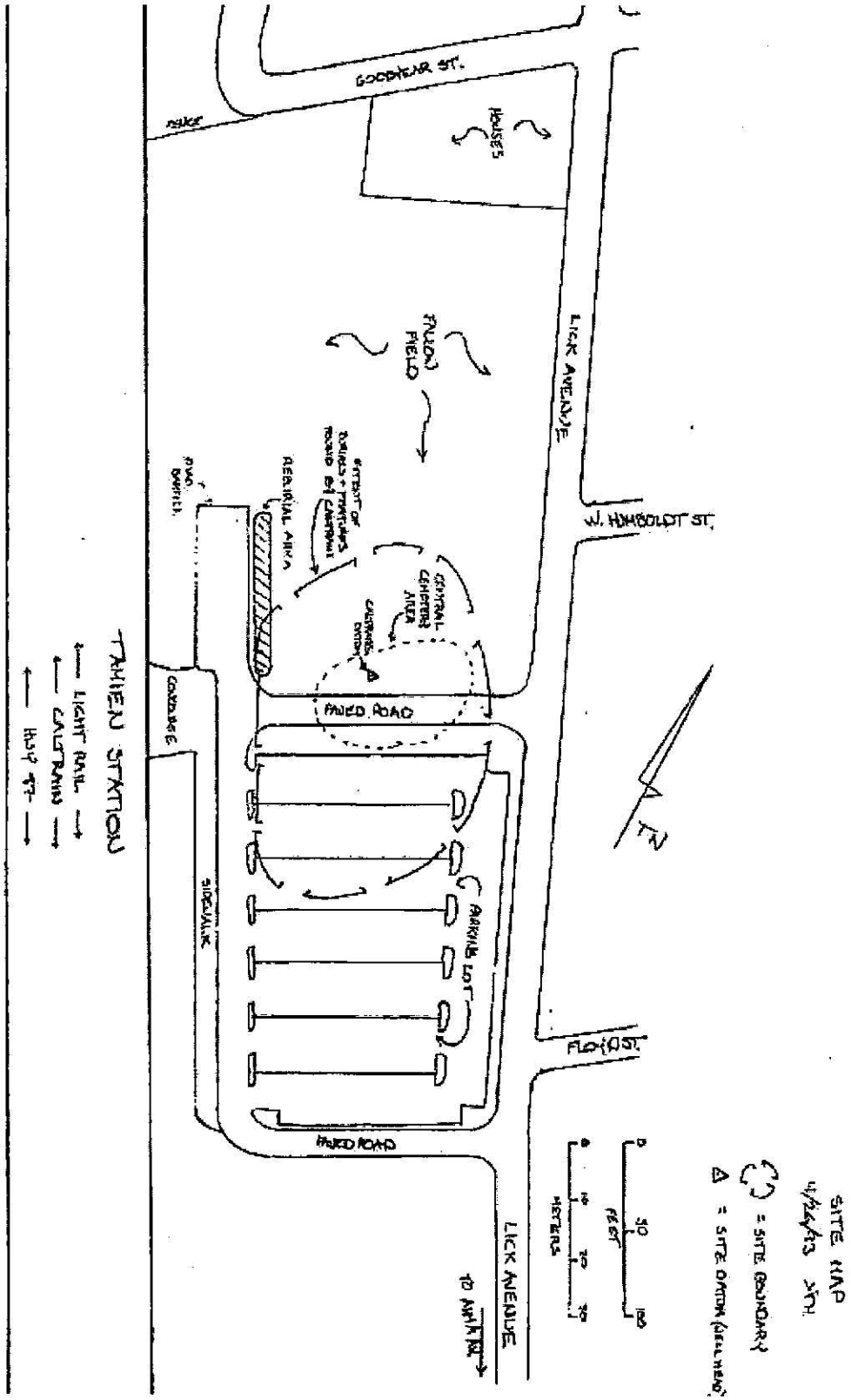
SKETCH MAP

Primary # P-43-1071
HRI# _____
Trinomial CA-SCL-690

*Resource Name or # (Assigned by recorder) "The Llick Site"

*Drawn By: Mark G. Hylkema

*Date: 4/26/1993



DPR 523K (1/95)

*Required information

State of California ? The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

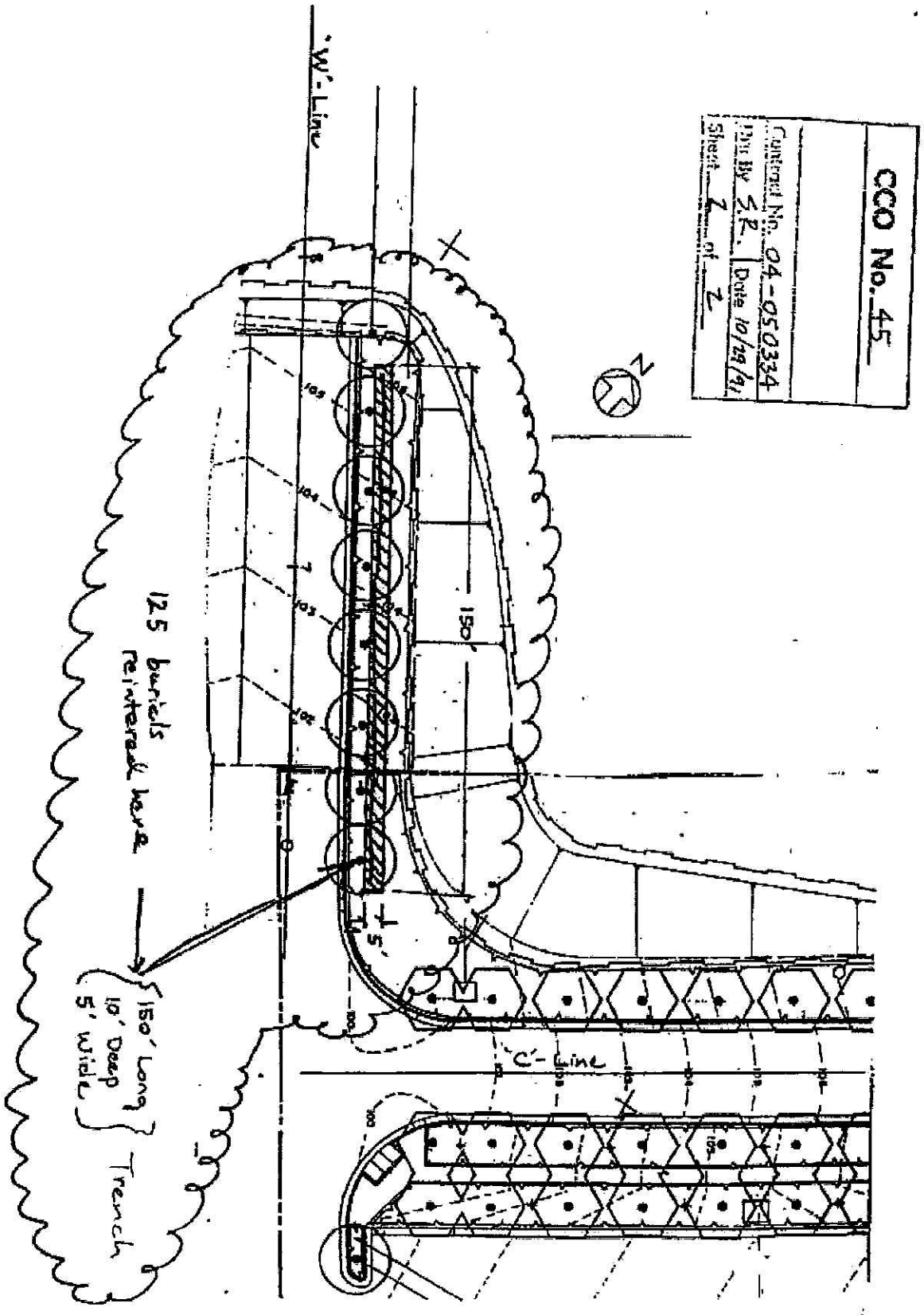
REBURIAL DETAIL MAP

Primary # P-43-1071
HRI#
Trinomial CA-SCL-690

*Resource Name or # (Assigned by recorder) "The Llick Site"

*Drawn By: Santa Clara Valley Transportation Auhtority

*Date: 10/29/1991



*Required information

EXHIBIT "A"

LEGAL DESCRIPTION

That certain real property situated in the City of San Jose, Santa Clara County, State of California, being a portion of Parcel One as described in the Final Order of Condemnation recorded on March 23, 1989 in Book K903, pages 2059 through 2061 inclusive, Official Records of said County, said real property being described as follows:

A strip of land, 10.00 feet in width, lying 5.00 feet each side of the following described centerline:

Commencing at the intersection of the southeasterly line of Goodyear Street, 45.00 feet wide, as shown on the map of Tract No. 6846 filed in Book 470 of Maps, at Page 24 in the Recorder's Office of said County, with the northeasterly line of the Southern Pacific Transportation Company right of way, 100.00 feet wide, as shown on Record of Survey filed on May 30, 2001 in Book 740 of Maps, at Page 4 in the Recorder's Office of said County; thence along the northeasterly line of said Southern Pacific Transportation right of way South 33°12'30" East 491.32 feet; thence leaving last said line North 56°48'04" East 67.26 feet to the **POINT OF BEGINNING;** thence South 32°03'11" East 160.00 feet.

The vertical limits of the above-described parcel shall be contained between an elevation of 94.00 feet and 107.00 feet being referenced from the Santa Clara Valley Water District benchmark number "BM830"; a 2" (5cm) aluminum disc stamped 'Cross Land Surveying PLS 3242 CSJ BM6' located at the northwest corner of Willow St. and Locust St. in San Jose and having a NAVD88 elevation of 106.66 feet.

The area of the above-described parcel is 1,600 square feet (0.037 acres) more or less, and contains a volume of 20,800 cubic feet (770 cubic yards) more or less.

The true location of this preserved area is to be determined by the actual location of the reburied remains.

The information shown is based on a combination of record and measured data. See the attached drawing, Exhibit B, which is hereby made a part of this description.

End of Description

Scott A. Bryant, PLS 7228
Expires 12/31/2008

LICENSED LAND SURVEYOR
SCOTT A. BRYANT
Exp. 12/31/08
No. 7228
STATE OF CALIFORNIA

P:\6SCV010419\Survey\legals\Tamien Reburial Site-Legal-final.doc

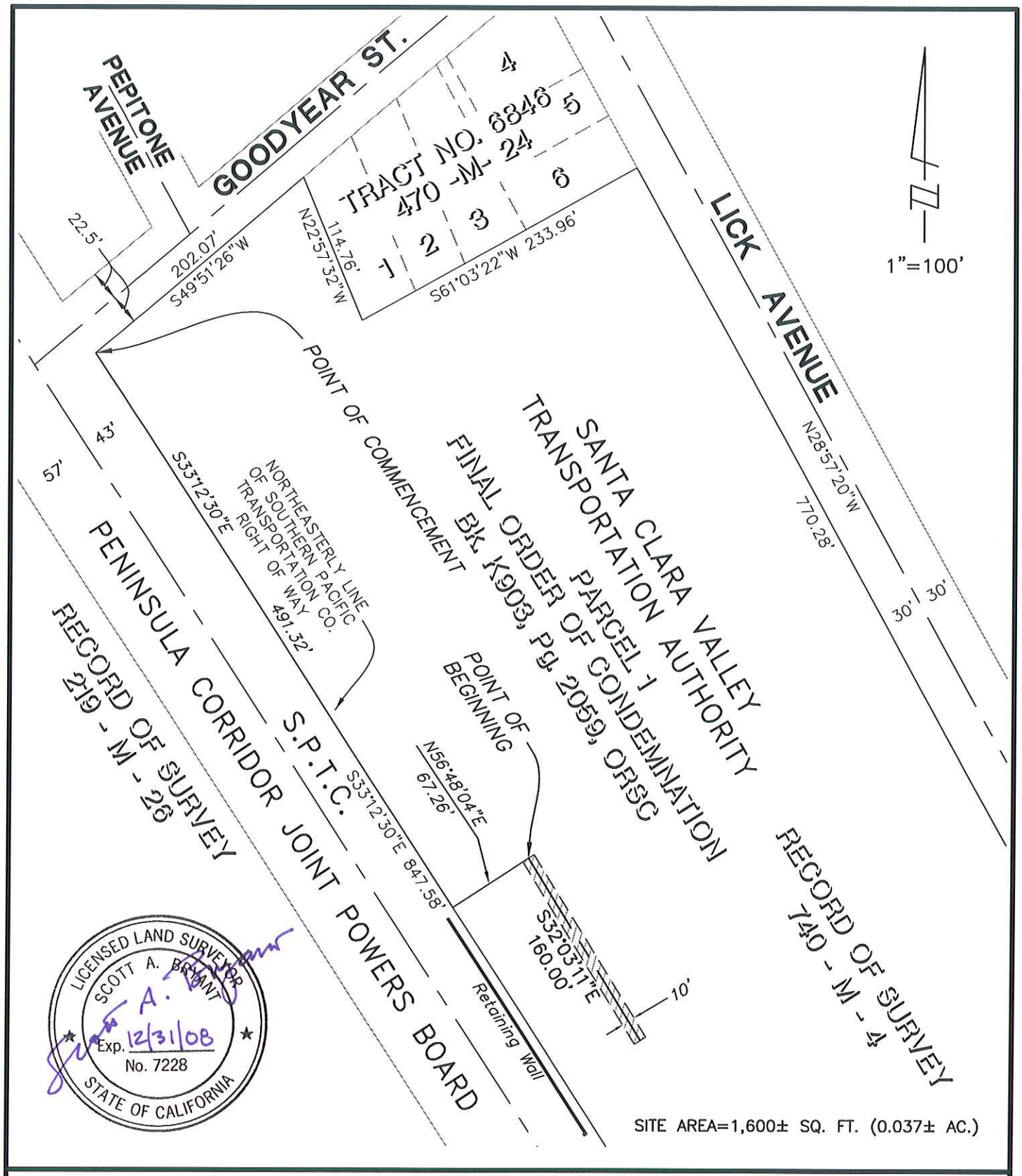


EXHIBIT B

TAMIEN REBURIAL SITE

SANTA CLARA VALLEY TRANSPORTATION AGENCY

CITY OF SAN JOSE — COUNTY OF SANTA CLARA

DATE: 7/27/2007	SCALE: 1"=100'
DRWN. BY: MEC CHK. BY: SAB	SHEET 1 OF 1

Jul. 27, 2007 - 10:59:54 DWG Name: P:\6SCV010419\Survey\exhibits\X-EX-TAMIEN-RBRL.dwg - Exhibit Updated By: sbryant

PSOMAS
2055 Gateway Place Suite 400
San Jose, CA 95110
(408) 451-3953 (408) 441-9152 (FAX)