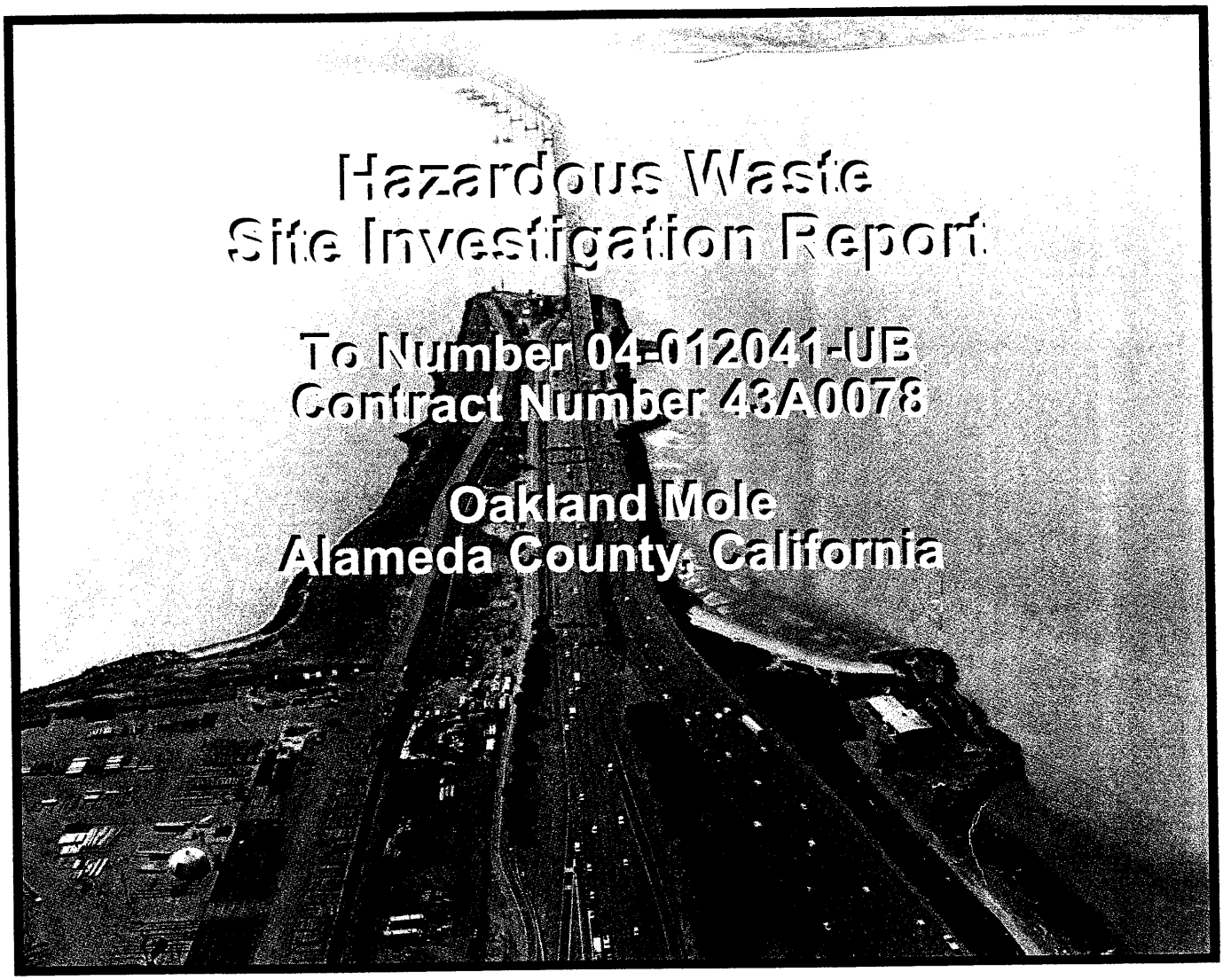

Hazardous Waste Site Investigation Report

To Number 04-012041-UB
Contract Number 43A0078

Oakland Mole
Alameda County, California

Prepared for:

California Department of Transportation
District 4
Division of Toll Bridge Program
Oakland, California

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June 25, 2002
PSI Project #575-2G004

HAZARDOUS WASTE
SITE INVESTIGATION REPORT

TO NUMBER 04-012041-UB
CONTRACT NUMBER 43A0078

OAKLAND MOLE
OAKLAND, ALAMEDA COUNTY
CALIFORNIA

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STATEMENT OF LIMITATIONS AND PROFESSIONAL CERTIFICATION

Information provided in this report is intended exclusively for the California Department of Transportation (Caltrans) (PSI Project Number 575-2G004) for the evaluation of soil and/or groundwater contamination as it pertains to the subject site. Professional Service Industries, Inc., (PSI) is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official view or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation. The professional services provided have been performed in accordance with practices generally accepted by other geologists, hydrologists, hydrogeologists, engineers, and environmental scientists practicing in this field. No other warranty, either expressed or implied, is made. As with all subsurface investigations, there is no guarantee that the work conducted will identify any and all sources or locations of contamination.

This report is issued with the understanding that Caltrans is responsible for ensuring that the information contained in this report is brought to the attention of the appropriate regulatory agency. This report has been prepared by PSI and reviewed by a geologist who is registered in the State of California and whose signature and license number appears below.

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EXECUTIVE SUMMARY

Professional Service Industries, Inc. (PSI) has conducted a soil and groundwater investigation for the Oakland Mole in Alameda County, California. Caltrans intends to replace the San Francisco-Oakland Bay Bridge between Yerba Buena Island and the toll plaza at the east side of the bridge. The proposed replacement structure is on an alignment that varies from 0 to 350 meters north of the existing Bay Bridge alignment. The foundation members for the replacement structure, which are to be on the Oakland Mole, consist of five footings and two abutments.

This investigation has been conducted to assess the presence of metals, petroleum hydrocarbons, and other contaminants and for planning the disposal options for the excavated soil and possible reuse of soil within the project limits.

PSI drilled twenty-five (25) soil borings using Geoprobe drilling techniques and collected groundwater samples from 5 of the borings. Soil and groundwater samples were submitted to a State of California certified laboratory for analyses. The analytical results were compared to applicable state and federal guidelines. In order to obtain analytical results that are representative of soil across the whole area of each proposed excavation, the laboratory was instructed to composite samples of the same depth within each proposed foundation area.

In comparing the total and soluble concentrations of metals detected in the soil with each metal's respective Total Threshold Limit Concentration (TTLC) and Soluble Threshold Limit Concentration (STLC), the material can be determined to be hazardous or not. Metals that are hazardous will require disposal to a Class I Landfill. The analytical results indicated that lead was the only metal with concentrations greater than the TTLC or the STLC after the completion of a Waste Extraction Test (WET). For the composite samples, two (2) soil samples had lead concentrations greater than the TTLC, while twenty-four (24) soil sample had a soluble lead concentration greater than the STLC. The soil represented by these samples could be classified as hazardous by the State of California upon excavation and classification as a waste material. Additionally, one (1) soil sample had a soluble lead concentration after a Toxic Characteristic Leaching Potential (TCLP) test was performed. This sample could be classified as a Resource Conservation and Recovery Act (RCRA) waste. The results indicate that potentially hazardous lead concentrations are found at each of the proposed bent locations throughout the soil column, however in the limited data collected, none of the soil samples from 3.7 to 4.6 meters (12 to 15 feet) bgs had potentially hazardous concentrations of lead.

Total Petroleum Hydrocarbon (TPH) concentrations were found throughout the project site and almost exclusively consisted of petroleum hydrocarbons within the motor-oil hydrocarbon range. Soil samples with elevated TPH concentrations (greater than 100 mg/kg) were encountered throughout the soil column. Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), and Polychlorinated Biphenyls (PCBs) were detected in selected soil samples. The detected concentrations were compared to EPA Region IX Preliminary Remediation Goals (PRGs) to determine the toxicity levels of these contaminants. None of the VOC, SVOC, and PCB concentrations were above their respective PRGs.

Several metals were detected in the groundwater samples analyzed from the site. However, only lead was found above the State of California Primary Drinking Water Standard. None of the groundwater samples had detectable concentrations of TPH-G, TPH-D, TPH-MO, VOCs, and SVOCs.

Lead-impacted soil, which is classified as a hazardous waste would need to be disposed of at a Class I landfill, if on-site treatment is not completed. On-site treatment of the lead-impacted soil would require regulatory approval and possible permitting restrictions. Due to the elevated concentrations of lead, construction contractors should be made aware of health and safety concerns, regulatory requirements, and possible landfill restrictions when preparing soil excavation and management plans.

1.0 INTRODUCTION

Professional Service Industries, Inc. (PSI) has been retained by the California Department of Transportation (Caltrans), under Task Order Number 04-012041-UB and Contract Number 43A0078, to assess current soil and groundwater conditions for the Oakland Mole in Alameda County, California (subject site; Figure 1).

The contaminants of concern identified in the Caltrans Task Order are as follows; Total Petroleum Hydrocarbons (TPH) as Gasoline (TPH-G), TPH as Diesel (TPH-D), TPH as Motor Oil (TPH-MO), Semi-Volatile Organic Compounds (SVOCs), Metals, Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX), Methyl Tertiary Butyl Ether (MTBE), Volatile Organic Compounds including oxygenates (VOCs), Pesticides, and Polychlorinated Biphenyls (PCBs).

1.1 PROJECT BACKGROUND

PSI understands that Caltrans intends to replace the San Francisco-Oakland Bay Bridge between Yerba Buena Island and the toll plaza at the east side of the bridge. The proposed replacement structure is on an alignment that varies from 0 to 350 meters north of the existing Bay Bridge alignment. The foundation members for the replacement structure which are to be on the Oakland Mole, consist of five footings and two abutments (see Figure 2). A detension basin is also planned.

1.2 PROJECT OBJECTIVE

The objective of the project is to evaluate the presence and concentration of soil and groundwater contamination in the area of the proposed construction for the bridge replacement structure. Analytical results from the soil and groundwater investigation will be examined with respect to regulatory criteria.

The scope of work for this investigation includes:

- Preparation of a site specific Workplan and Health & Safety Plan;
- A line-locating survey;
- Drilling 25 borings;
- Collection of soil and groundwater samples to characterize soil and groundwater quality where tested; and
- Preparation of a Final Report detailing the results of the investigation.

1.3 PROJECT TEAM

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Josie Tellers 916-373-5600 916-371-8420 (fax)	Severn Trent Laboratories, Inc. 880 Riverside Parkway West Sacramento, California 95605-1500	Sample Holding Laboratory Preparation Laboratory Analysis Laboratory QA/QC
Ryan Kubli 916-777-4100 916-777-4101 (fax)	V&W Drilling P.O. Box 416 Isleton, CA 95641	Drilling
Robert Cruz 877-728-2789 831-461-1470 (fax)	Cruz Brothers Locators PO Box 66768 Scotts Valley, CA 95067	Line Locating

2.0 INVESTIGATIVE METHODS

2.1 PRE-FIELD ACTIVITIES

A task order meeting was conducted at the subject site on February 1, 2002. Present at the meeting were Mr. Gabriel Tcruz and Mr. Eduardo Diwata of Caltrans and Mr. Brand Burfield of PSI. Subsequent to that meeting a site-specific Work Plan, dated February 6, 2002, was prepared and submitted to Caltrans for approval. The workplan outlined the objectives of the project, proposed methods, and final submittal documentation.

Prior to initiation of field drilling activities, PSI marked the boring locations in white paint and contacted Underground Service Alert (USA) a minimum of 48 hours prior to beginning of work to locate any potential buried utilities. The USA inquiry identification number (or "Ticket Number") for the utility locate request is #0046998. Additionally, Cruz Brothers Locators of Scotts Valley, California, a private line locating service, was contracted to check the proposed boring locations for the presence of underground utilities.

A site-specific Health and Safety Plan (HSP) was developed in compliance with 29 CFR 1910.120, and reviewed and signed by a Certified Industrial Hygienist. The HSP was designed to address the potential hazardous materials that could be encountered during field activities at the site and to minimize exposure of on-site personnel to potentially hazardous materials and unsafe working conditions.

2.2 SOIL BORINGS

From February 19 through 21, 2002, twenty-five (25) soil borings were drilled at the Oakland Mole in Oakland, California. Soil samples were collected from each of the five proposed footings (E19R, E20R, E21R, E22R and E22L), the two proposed abutments (E23L and E23R), and the proposed detention basin (DB) at the Oakland Mole. The boring locations are presented on Figure 2.

Soil borings were advanced using a direct-push drill rig. V&W Drilling of Rio Vista, California provided the direct-push drilling services. The maximum depth of borings drilled at the site was 5.6 meters (18.5 feet) bgs. Soil samples were collected at approximately 0.3-meter (1-foot) intervals between the surface and 1 meter (3 feet) bgs. Samples below 1-meter bgs were collected at approximately 1-meter (3-foot) intervals to the total depth explored. Upon completion, borings were backfilled to the surface with cement grout slurry and capped with asphalt concrete on asphalt concrete paved areas.

Soil samples were logged on chain-of-custody records and transported to Severn-Trent Laboratories, a DHS-ELAP-certified hazardous materials testing laboratory, following chain-of-custody protocol. Most of the soil samples were delivered to the lab within approximately 24 hours of collection. In order to obtain analytical results that are representative of soil across the whole area of each proposed excavation, the laboratory was instructed to composite samples of the same depth within each proposed foundation area. The analytical results are described in Section 5.0.

Soil borings were logged according to the "Soil and Rock Logging Classification Manual" of the State of California, Department of Transportation, which is consistent with the Unified Soil Classification System (USCS). Boring logs are presented in Appendix A.

2.3 GROUNDWATER SAMPLING

Groundwater samples were collected from four of the five proposed footing areas (E19R, E20R, E21R and E22R) and from the detention basin (DB) area. Due to auger refusal, sufficient depth was not achieved to obtain samples from the two proposed abutment locations, as was requested in the Caltrans Task Order. The samples were obtained using hydropunch technology. The water samples were collected using disposable polyethylene tubing equipped with a check valve lowered through a 0.025-meter (1-inch) diameter, temporary well casing.

The groundwater samples were logged on a chain-of-custody record, placed in an ice-chilled cooler and submitted to a DHS-ELAP-certified hazardous materials testing laboratory, following chain-of-custody protocol. The analytical results are described in Section 5.0.

2.4 FIELD PROCEDURES

The following are the field procedures utilized by PSI during the site investigation.

2.4.1 Advancing Soil Borings and Collection of Soil Samples

The following procedures were used for advancing soil borings and collecting soil samples at the site:

1. Prior to the commencement of soil boring activities at the site, soil-boring locations were marked with white paint. Underground Service Alert (USA) was contacted to identify underground utilities in the vicinity of the soil borings.

2. Soil boring and sampling activities was conducted by a State of California-licensed drilling company. The soil borings were advanced using Geoprobe direct push method. Flush-threaded rods with a stainless steel sampler were advanced into the ground using a hydraulic press and percussion hammer. The opening of the sampler was sealed with a drive tip held in place by a threaded pin.

3. Geoprobe soil samples were collected using a 1.2 meter (4.0 foot) long, 0.05 meter (2 inch) inside diameter macro-core stainless steel sampler. Soil samplers were washed between sampling intervals with Alconox soap followed by two deionized water rinses. The sampler was lined with acetate sleeves.

4. After the sampler was retrieved the sleeve was extracted from the sampler without disturbing the samples. The ends of each sample was covered with Teflon™ sheets and capped with polyethylene end caps. The sample was labeled and placed in a chilled cooler prior to delivery to the laboratory for analyses.

5. Soil samples were assigned identification numbers such as E19RA-6.0, where E19RA indicates the boring designation and –6.0 indicates that the sample was collected at 6.0 feet bgs. Composite soil samples were assigned identification numbers such as E19R(ABCD)-6.0, where (ABCD) indicates which of the borings were composited for the 6.0 foot depth at proposed footing E19R. The samples were labeled with the project name, date and time of sample collection, sampling depth, and client name.

6. Chain-of-custody procedures using chain-of-custody records were implemented during handling and transportation of the samples to the laboratory for analyses.

7. A photoionization detector (PID) was used to monitor volatile organic compounds (VOCs) in soil samples during drilling at the site. VOC concentrations in the soil were recorded on the borings logs for depths that soil samples were collected. VOCs in the soil were measured at the sampling depths by partially filling a capped stainless steel sampling tube with soil. The components of the soil were allowed to volatilize and fill the headspace in the tube prior to inserting the OVM probe through one of the end caps and recording the measurements.

8. Boring logs were prepared for the soil borings under the supervision of a California-Registered Geologist. Soil from each sample was described in accordance with USCS by a PSI geologist and recorded on a field-boring log. The data recorded on the logs were based on examination of soil samples retrieved in the tubes, and drilling conditions observed in the field. Boring logs include information regarding the location of each boring, geologic descriptions of materials encountered, occurrence of groundwater (if applicable) and PID measurements in the soil samples collected.

2.4.2 Field Documentation of Sampling Procedures

The following outline describes the procedures adhered to by PSI for proper sampling documentation.

1. Sampling procedures were documented in field notes that contain:

    1. Sample collection procedures
    2. Date and time of collection
    3. Date of shipping
    4. Sample collection location
    5. Sample identification number(s)
    6. Intended analysis
    7. Sample preservation
    8. Name of sampler
    9. Any pertinent observations

2. Samples were labeled with the following information:

    1. Sample designation number
    2. Date and time sample was collected
    3. Client's name
    4. Sample preservatives (if required)

3. The following is the sample designation system for the site:

    For borings, the samples were labeled with the boring number and depth (i.e. sample collected from boring E19RA at 6.0 feet would be E19RA-6.0).

4. Handling of the samples was recorded on a chain of custody form, which included:

    1. Project name
    2. Site location
    3. Signature of Collector
    4. Date and time of collection
    5. Sample identification number
    6. Number of containers in sample set
    7. Description of sample and container
    8. Name and signature of persons, and the companies or agencies they represent, who are involved in the chain of possession
    9. Inclusive dates and times of possession
    10. Analyses to be completed

3.0 LABORATORY ANALYSIS PROGRAM

The soil and groundwater samples collected during this investigation were submitted to Severn Trent Laboratories of West Sacramento, California, a DHS-ELAP-certified hazardous waste laboratory. In order to obtain analytical results that are representative of soil across the whole of each proposed excavation, the laboratory was instructed to composite samples of the same depth within each of the proposed foundation excavation areas.

All composite soil samples were analyzed for the following constituents:

• Total Petroleum Hydrocarbons as Gasoline (TPH-G)	EPA Method 8015
• Total Petroleum Hydrocarbons as Diesel (TPH-D)	EPA Method 8015
• Total Petroleum Hydrocarbons as Motor Oil (TPH-MO)	EPA Method 8015
• Volatile Organic Compounds (VOCs) (incl. oxygenates)	EPA Method 8260B
• Semi-Volatile Organic Compounds (SVOCs)	EPA Method 8270
• Total Lead	EPA Method 6010

Additionally, all composite samples within the upper 1.8 meters (6 feet) were analyzed for Pesticides, using EPA Method 8081, and Polychlorinated Biphenyls (PCBs), using EPA Method 8082.

All individual (non-composited) soil samples were analyzed for one of the following two constituents:

• Title 22 Metals	EPA Method 6010
• Total Lead	EPA Method 6010

If total metal concentrations in soil exceeded their screening criteria of ten times their respective soluble threshold limit concentrations (STLC) and were below their respective total threshold limit concentrations (TTLC), a waste extraction test (WET) was performed. If the total metal concentration exceeded the TTLC, or if the soluble metal concentration exceeded the STLC, a toxicity characteristic leaching procedure (TCLP) was performed.

All groundwater samples were analyzed for the following constituents:

• Total Petroleum Hydrocarbons as Gasoline (TPH-G)	EPA Method 8015
• Total Petroleum Hydrocarbons as Diesel (TPH-D)	EPA Method 8015
• Total Petroleum Hydrocarbons as Motor Oil (TPH-MO)	EPA Method 8015
• Title 22 Metals	EPA Method 6010
• Semi-Volatile Organic Compounds (SVOCs)	EPA Method 8270
• Benzene, Toluene, Ethylbenzene, Total Xylenes, Methyl Tertiary Butyl Ether (BTEX/MTBE)	EPA Method 8021

Prior to analysis of the groundwater samples for TPH-G, TPH-D, and TPH-MO, the laboratory used the silica gel clean-up protocol to remove interfering compounds.

The results of the analytical testing are discussed in Section 5.0 and are summarized in Tables 1 through 5.

4.0 FIELD EXPLORATION

4.1 REGIONAL HYDROGEOLOGIC CONDITIONS

San Francisco is located on a peninsula between the Pacific Ocean and the San Francisco Bay. San Francisco is the type area for the Franciscan Formation. The Franciscan Formation consists of sandstone, shale, and volcanic rock with minor amounts of chert, conglomerate, limestone, and metamorphic rocks. Franciscan rocks are encountered in topographic uplands and in borings that extend to a sufficient depth. The topographic lowlands are generally underlain by unconsolidated sediments.

Pre-historically, sea level elevations have varied by as much as 90 to 120 meters (300 to 400 feet) below the present elevation. During cooler climatic conditions when water was frozen in glaciers, San Francisco Bay did not exist and the ocean shoreline was located near the Farallon Islands. During warmer climatic conditions (such as during present conditions) sea level was close to its present position due to partial melting of glaciers (Helley, et al., 1979).

Unconsolidated sediments typically occur as low permeability fine grained materials with lenses of higher permeability sand and gravel deposits. The unconsolidated materials were deposited during major changes in sea level caused by worldwide climatic fluctuations over the past million years (Helly, et al., 1979). Groundwater occurs in fractures of the Franciscan rocks and in the unconsolidated sediments in the lowland areas.

4.2 SUBSURFACE EXPLORATION

The subsurface materials observed during drilling activities at the Oakland Mole consisted primarily of fill comprised of silty and gravelly sand with some sandy silt. Groundwater was detected in some of the borings with depth to groundwater ranging from 1.0 to 3.2 meters (3.5 to 10.5 feet) bgs. For a more detailed description of the subsurface materials and the depths at which groundwater was encountered, refer to the Soil Boring Logs in Appendix A.

4.3 FIELD MEASUREMENTS

A Photo Ionization Detector (PID) was used to field screen soil samples for Volatile Organic Compounds (VOCs). VOCs were detected in the 1.8 meter (6 foot) samples from borings E23RA and E22LD at 113 and 3 parts per million (ppm), respectively. No VOCs were detected during field screening above the minimum PID detection limit of 1.0 ppm in any of the other borings.

5.0 INVESTIGATIVE RESULTS

5.1 SOIL-METALS

All of the forty-two (42) composite soil samples were analyzed for total lead. The results indicated that two of the composite samples had a total lead concentration greater than the TTLC of 1,000 milligrams per kilogram (mg/kg) and thirty-one (31) of the composite soil samples had total lead concentrations that met the screening criteria of greater than ten times the STLC of 5 milligrams per liter (mg/l), but below the TTLC. As requested by Caltrans, the samples that met the screening criteria were analyzed for their respective soluble concentrations using the WET. The results indicated that twenty-four (24) of the composite samples had a soluble lead concentration after the WET greater than the STLC.

The soil represented by these 24 samples and the two samples with lead concentrations greater than the TTLC would be classified as hazardous by the State of California upon excavation and classification as a waste material. These samples were then analyzed for their respective soluble concentrations using the TCLP. Only one of these samples, DB(2,3,4)-5.0, had a soluble lead concentration after the TCLP greater than the STLC. The soil represented by this sample would be classified as a Resource Conservation and Recovery Act (RCRA) waste.

The individual (non-composited) soil samples were analyzed for California Code of Regulations (CCR) Title 22 metals, indicating the presence of all 17 metals. The results of the soil analyses for individual soil samples were compared to CCR Title 22 List of Inorganic, Persistent, and Bioaccumulative Toxic Substances and their STLC and TTLC Values. The TTLC and STLC values for each of the metals are presented in Table 1.

Thirteen individual soil samples had a concentration greater than the TTLC for lead. The soil represented by these samples would be classified as hazardous by the State of California upon excavation and classification as a waste material. Lead and chromium were the only metals detected at concentrations above the screening criteria of ten times their STLC. Of the individual soil samples, sixty-one (61) had total lead and twelve (12) had total chromium concentrations that met the screening criteria of greater than ten times their STLC, but below their TTLC. The STLC value for both lead and chromium VI is 5 milligrams per liter (mg/l). The TTLC values for lead and chromium VI are 1,000 and 500 milligrams per kilogram (mg/kg) respectively. As requested by Caltrans, these soil samples were analyzed for their respective soluble concentrations using the WET. Thirty-seven soil samples had soluble lead concentrations greater than the STLC for lead after the WET. The soil represented by these samples would be classified as hazardous by the State of California upon excavation and classification as a

waste material. None of the samples tested had a soluble chromium concentration greater than the STLC for chromium VI.

Individual soil samples with soluble lead concentrations greater than the STLC and a total lead concentration greater than the TTLC were also analyzed according to the TCLP for lead. Ten (10) soil samples had a TCLP concentration for lead above the regulatory limit, therefore the metal-impacted soil would be classified as a Resource Conservation and Recovery Act (RCRA) waste.

A summary of the analytical results for metals in soil samples is presented in Table 1 and a copy of the analytical reports are included in Appendix B. The results indicate that lead is the only metal that is present in potentially hazardous concentrations. Lead concentrations are found at each of the proposed foundation member locations throughout the soil column, however in the limited data collected, none of the soil samples from 3.7 to 4.6 meters (12 to 15 feet) bgs had potentially hazardous concentrations of lead.

5.2 SOIL – ORGANICS

A summary of the analytical results for organic compounds in composite soil samples is presented in Tables 2 & 3. A copy of the analytical report is included in Appendix B. Only composite samples were analyzed for organics.

None of the composite soil samples tested had detectable concentrations of TPH-G or pesticides. TPH-D was only detected in one soil sample at 28 mg/kg. TPH-MO was detected in thirty-eight (38) soil samples with twenty-two (22) of the samples having concentrations between 100 mg/kg and 1,000 mg/kg, and twelve (12) of the samples having a concentration greater than 1,000 mg/kg. The remainder of the soil samples had TPH-MO concentrations below 100 mg/kg. The maximum TPH-MO concentration was 4,000 mg/kg in composite soil sample E23R(AB)-1.0.

TPH concentrations were found throughout the project site and almost exclusively consisted of petroleum hydrocarbons within the motor-oil hydrocarbon range. Soil samples with elevated TPH concentrations (greater than 100 mg/kg) were encountered throughout the soil column.

Polychlorinated Biphenyls (PCBs) were detected in eight of the composite soil samples, with the highest concentration being detected in soil sample DB(2,3,4)-5 at 0.18 mg/kg. All PCB concentrations detected were below the TTLC and STLC for PCBs. Additionally, none of the soil samples had a concentration greater than the US EPA Region IX Preliminary Remediation Goals (PRGs) promulgated for contaminants in industrial soil for PCBs.

VOCs were detected in only five of the composite soil samples. The results of the soil analyses were compared to their respective PRGs. None of the soil samples contained VOC concentrations greater than their PRG.

SVOCs were detected in nine of the soil samples analyzed (Table 3). The maximum total SVOC concentration was detected in soil sample DB(1,2,3,4)–2.0. The results of the soil analyses were compared to PRGs promulgated for contaminants in industrial soil. None of the soil samples contained concentrations greater than their PRG.

5.3 GROUNDWATER – METALS

A summary of the analytical results for metal compounds in groundwater samples is presented in Table 4. The results from groundwater samples analyzed for California Code of Regulations (CCR) Title 22 metals indicated the presence of the following metals: barium, lead, molybdenum, nickel, and zinc. The maximum concentration of the metal detected and the associated groundwater sample analyzed is presented below:

- Barium: 0.71 mg/l in E22RD-W
- Lead: 0.18 mg/l in DB4-W
- Molybdenum: 0.041 mg/l in E21RD-W
- Nickel: 0.057 mg/l in DB4-W
- Zinc: 0.19 mg/l in E21RD-W

The results of the groundwater analyses were compared to the State of California Primary and Secondary Drinking Water Standards (PDWS and SDWS). Only lead had a concentration greater than its' PDWS.

5.4 GROUNDWATER – ORGANICS

A summary of the analytical results for organic compounds in the groundwater samples is presented in Table 5. None of the groundwater samples had detectable concentrations of TPH-G, TPH-D, TPH-MO, BTEX/MTBE, and SVOCs.

6.0 DISCUSSION

The results of the soil analyses were compared to US EPA Region IX PRGs promulgated for contaminants in industrial soil, as well as the California Code of Regulations Title 22 List of Inorganic, Persistent, and Bioaccumulative Toxic Substances and their STLC and TTLC Values. Lead was determined to be the contaminant of concern at the subject site.

Materials represented by soil samples that exceed the TTLC for metals, as well as the STLC after performing a WET, would be classified as hazardous by the State of California upon excavation and classification as a waste. Twenty-six of the forty-two composite samples either exceeded the TTLC or STLC for lead.

One composite and ten individual soil samples had soluble lead concentration greater than the lead TCLP. The material represented by these samples would be classified as a RCRA waste and would need to be disposed of at a RCRA designated landfill.

Lead-impacted soil, which is classified as a hazardous waste would need to be disposed of at a Class I landfill, if on-site treatment is not completed. On-site treatment of the lead-impacted soil would require regulatory approval and possible permitting restrictions. Due to the elevated concentrations of lead, construction contractors should be made aware of health and safety concerns, regulatory requirements, and possible landfill restrictions when preparing soil excavation and management plans.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the information presented in this report, the following conclusions have been reached:

- The analytical results indicate that lead is the primary contaminant of concern at the subject site.

- A majority of the composite samples and approximately half of the individual samples collected at the Oakland Mole have lead concentrations greater than the TTLC or STLC after a WET. The soil represented by these samples would be classified as hazardous by the State of California upon excavation and classification as a waste material.

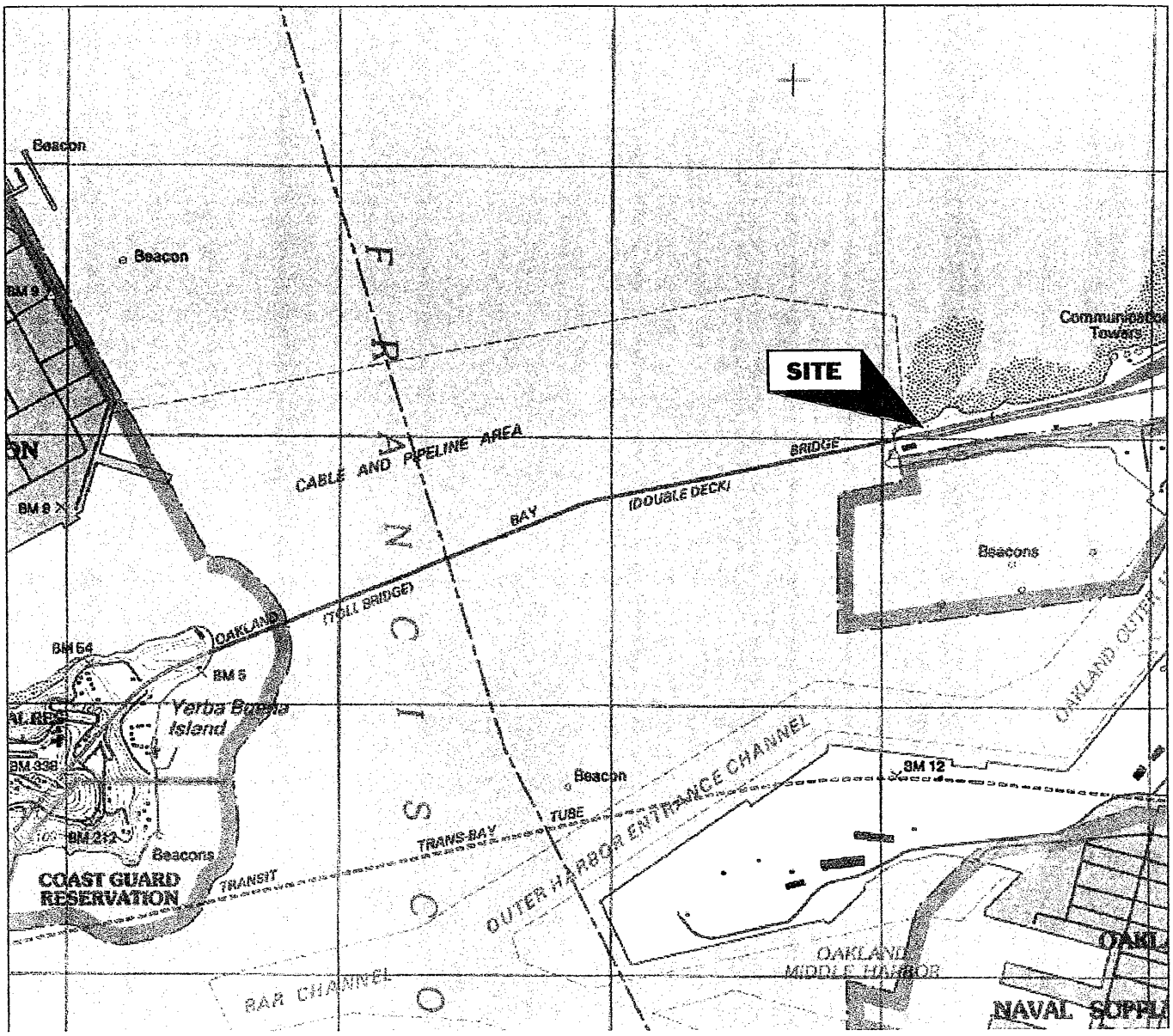
- One of the composite samples and ten of the individual soil samples had a TCLP lead concentration above the regulatory limit, therefore the metal-impacted soil would be classified as a RCRA waste.

- The results indicate that potentially hazardous lead concentrations are found at each of the proposed foundation member locations throughout the soil column, however in the limited data collected none of the soil samples from 3.7 to 4.6 meters (12 to 15 feet) bgs had potentially hazardous concentrations of lead.

- Only one groundwater sample, collected from the Oakland Mole, contained lead above the PDWS or SDWS.

- Due to the elevated concentrations of lead measured at the Oakland Mole, construction contractors should be aware of health and safety concerns, regulatory requirements, and possible landfill restrictions when preparing soil excavation and management plans.

FIGURES



NORTH

0 1/2 1 MILE

SCALE

REFERENCE:

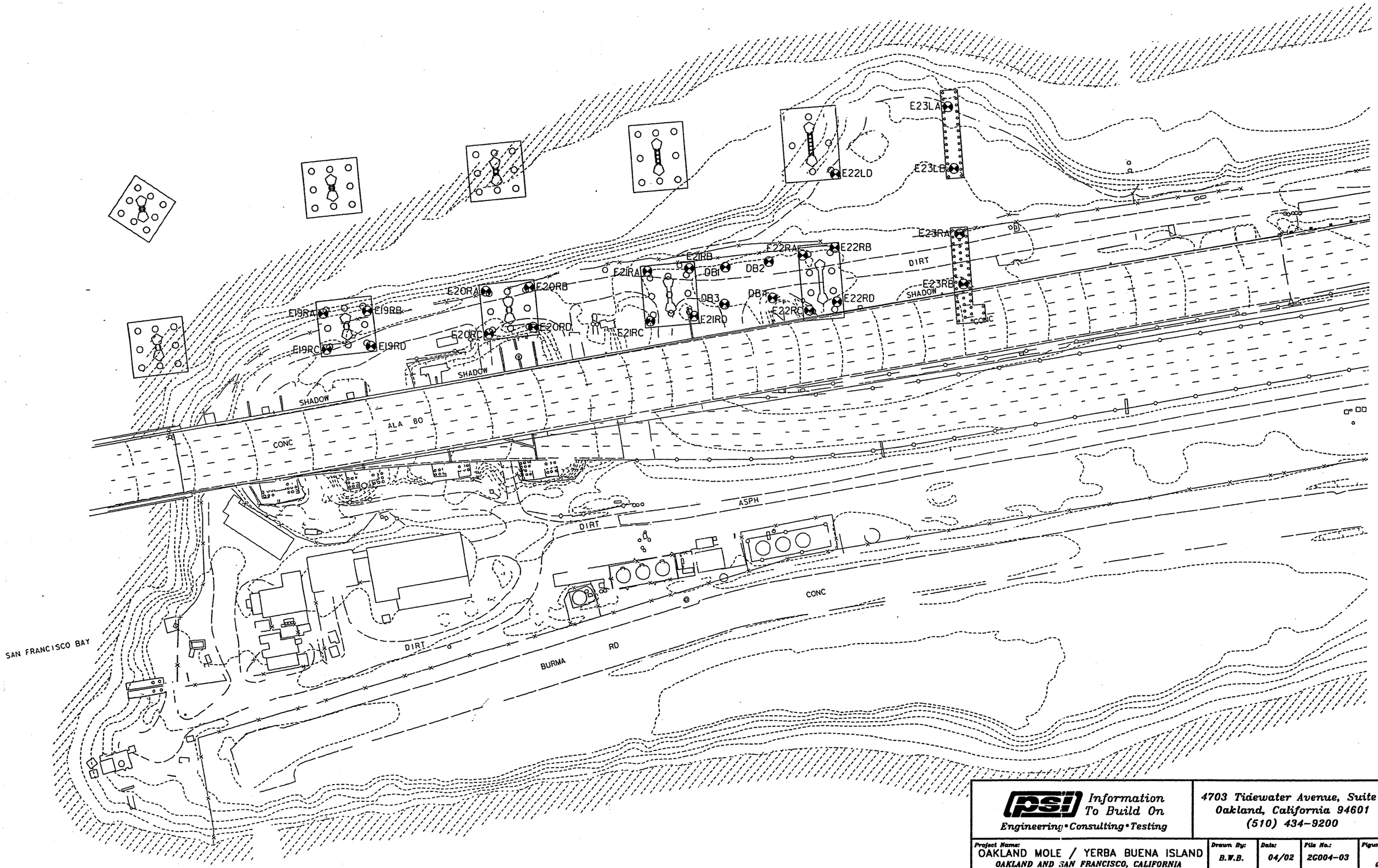
U.S.G.S. OAKLAND WEST, CA 7.5 MINUTE SERIES TOPOGRAPHIC MAP, DATED 1993

Information To Build On

Engineering • Consulting • Testing

4703 Tidewater Avenue, Suite B
Oakland, California 94601
(510) 434-9200

Project Name:	Drawn By:	Date:	File No.:	Figure No.:
OAKLAND MOLE / YERBA BUENA ISLAND OAKLAND AND SAN FRANCISCO, CALIFORNIA	B.B.	01/02	2C004-01	1
Title: SITE LOCATION MAP	Approved By: F.P.	Project No.: 575-2C004		



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Project Name:	Drawn By:	Date:	File No.:	Figure No.:
OAKLAND MOLE / YERBA BUENA ISLAND OAKLAND AND SAN FRANCISCO, CALIFORNIA	B.W.B.	04/02	2C004-03	2
Title: BORING LOCATION MAP OAKLAND MOLE	Approved By: F.P.	Project No.: 575-2C004		

TABLES

TABLE 1

SUMMARY OF SOIL ANALYTICAL RESULTS: METALS
OAKLAND MOLE
OAKLAND, CALIFORNIA

BORING	DEPTH	AS	SB	BA	CD	CR	BE	PB	SE	AG	CO	CU	MO	NI	TL	V	ZN	HG
DB-1	0.0	---	---	---	---	---	---	11.8	---	---	---	---	---	---	---	---	---	---
	1.0	---	---	---	---	---	---	**827 (6.1) {ND}**	---	---	---	---	---	---	---	---	---	---
	2.0	---	---	---	---	---	---	18.5	---	---	---	---	---	---	---	---	---	---
	3.0	---	---	---	---	---	---	**219 (67.5) {4.8}**	---	---	---	---	---	---	---	---	---	---
DB-2	0.0	2.6	ND	92.5	ND	31.4	ND	**506 (83.6) {4.8}**	0.64	ND	ND	37.2	ND	23.2	ND	19.6	285	ND
	1.0	6.3	ND	153	ND	332 (0.56)	ND	**4640 {3.8}**	1.6	ND	10.9	100	4	175	2.4	28.8	302	0.23
	2.0	8	ND	159	ND	87 (0.18)	ND	**3300 {5.5}**	1.2	ND	7.5	69	4.6	53.4	1.5	31	371	0.22
	3.0	2.3	ND	27	ND	31.9	ND	**66.3 (5.5) {ND}**	ND	ND	ND	8.4	ND	23.3	ND	21.5	25.2	ND
	5.0	10.5	14.1	316	1.6	48.7	ND	**10000 {33.2}**	2	1.8	7.3	156	ND	61.9	2.3	32.3	403	0.26
DB-3	0.0	---	---	---	---	---	---	50.3 (ND)	---	---	---	---	---	---	---	---	---	---
	1.0	---	---	---	---	---	---	9.7	---	---	---	---	---	---	---	---	---	---
	2.0	---	---	---	---	---	---	6.1	---	---	---	---	---	---	---	---	---	---
	3.0	---	---	---	---	---	---	1.3	---	---	---	---	---	---	---	---	---	---
	5.0	---	---	---	---	---	---	2.2	---	---	---	---	---	---	---	---	---	---
	8.0	---	---	---	---	---	---	2.4	---	---	---	---	---	---	---	---	---	---
DB-4	0.0	4	ND	59.1	ND	26.5	ND	60.6 (2.0)	0.63	ND	5	19.6	ND	24.1	ND	22.8	67	ND
	1.0	1.9	ND	58.7	ND	31.2	ND	65.5 (3.3)	ND	ND	5.1	11	ND	26.2	ND	22.9	60	ND
	2.0	2.6	ND	63.8	ND	37.6	ND	78.1 (4.1)	0.73	ND	6.6	12.9	ND	33.8	ND	28	53.2	ND
	3.0	4	ND	67.2	ND	35.8	ND	29.5	0.65	ND	7.3	14.6	ND	52.4	ND	27.9	40.9	ND
	5.0	1.9	ND	40.6	ND	28.4	ND	41.7	ND	ND	ND	7.4	ND	23.5	ND	21.5	31.6	ND
	8.0	2.9	ND	34.9	ND	29.9	ND	4.6	0.51	ND	ND	4.8	ND	27.3	ND	20.8	18.2	ND
COMPOSITES																		
DB(1,2,3,4)	0.0	---	---	---	---	---	---	**206 (9.7) {ND}**	---	---	---	---	---	---	---	---	---	---
DB(1,2,3,4)	1.0	---	---	---	---	---	---	**358 (15.1) {ND}**	---	---	---	---	---	---	---	---	---	---
DB(1,2,3,4)	2.0	---	---	---	---	---	---	**844 (36.7) {3.7}**	---	---	---	---	---	---	---	---	---	---
DB(1,2,3,4)	3.0	---	---	---	---	---	---	**124 (9.5) {2.8}**	---	---	---	---	---	---	---	---	---	---
DB(2,3,4)	5.0	---	---	---	---	---	---	**1430 {27.4}**	---	---	---	---	---	---	---	---	---	---
DB(3,4)	8.0	---	---	---	---	---	---	5.4	---	---	---	---	---	---	---	---	---	---

BORING	DEPTH	AS	SB	BA	CD	CR	BE	PB	SE	AG	CO	CU	MO	NI	TL	V	ZN	HG
E19RA	0.0	6.9	ND	191	ND	54.4 (0.14)	0.66	**538 (10) {ND}**	3.9	ND	11.1	77.5	ND	54.7	1.4	46.6	239	ND
	1.0	7.3	ND	130	ND	61.7 (0.33)	0.63	**200 (5.9) {ND}**	1.1	ND	12.3	67.9	ND	83.8	1.8	38.8	197	0.48
	2.0	3.3	ND	164	ND	36	ND	**1230 {0.88}**	1	ND	8.7	33.9	ND	26.9	1.3	46.8	107	ND
	3.0	6.1	ND	117	ND	30	ND	**1070 {24.5}**	0.73	ND	9.8	43	7.4	42.5	1.3	47.6	112	ND
	6.0	26	ND	86.1	ND	38.3	ND	57.3 (ND)	2.4	ND	14.3	138	ND	62.5	2.7	20.7	44.6	ND
E19RB	0.0	---	---	---	---	---	---	**120 (8.9) {ND}**	---	---	---	---	---	---	---	---	---	---
	1.0	---	---	---	---	---	---	**171 (5.1) {ND}**	---	---	---	---	---	---	---	---	---	---
	2.0	---	---	---	---	---	---	**118 (5.6) {ND}**	---	---	---	---	---	---	---	---	---	---
	3.0	---	---	---	---	---	---	109 (4.3)	---	---	---	---	---	---	---	---	---	---
	6.0	---	---	---	---	---	---	**290 (12.2) {ND}**	---	---	---	---	---	---	---	---	---	---
	9.0	---	---	---	---	---	---	43.2	---	---	---	---	---	---	---	---	---	---
E19RC	0.0	---	---	---	---	---	---	8.5	---	---	---	---	---	---	---	---	---	---
	1.0	---	---	---	---	---	---	6.2	---	---	---	---	---	---	---	---	---	---
	2.0	---	---	---	---	---	---	**95.9 (6.6) {ND}**	---	---	---	---	---	---	---	---	---	---
	3.0	---	---	---	---	---	---	71.8 (4.6)	---	---	---	---	---	---	---	---	---	---
	6.0	---	---	---	---	---	---	99.1 (2.7)	---	---	---	---	---	---	---	---	---	---
	9.0	---	---	---	---	---	---	**91.5 (5.3) {ND}**	---	---	---	---	---	---	---	---	---	---
	12.0	---	---	---	---	---	---	33	---	---	---	---	---	---	---	---	---	---
	15.0	---	---	---	---	---	---	39.8	---	---	---	---	---	---	---	---	---	---
	18.0	---	---	---	---	---	---	32.6	---	---	---	---	---	---	---	---	---	---
E19RD	0.0	1.9	ND	38.9	ND	32.5	ND	**62.8 (5.2) {ND}**	ND	ND	ND	9.7	ND	25.3	ND	21.7	34	ND
	1.0	1.8	ND	62.7	ND	28.4	ND	55.2 (4.1)	ND	ND	ND	8.3	ND	23.2	ND	21	29.6	ND
	2.0	2.2	ND	41.2	ND	30.5	ND	42	ND	ND	ND	7.6	ND	24.9	ND	21	29.7	ND
	3.0	3.9	ND	98.9	ND	31.5	ND	**136 (5.1) {ND}**	0.82	ND	10.2	31.5	ND	31.8	1.3	49.9	65.7	ND
	6.0	3	ND	92.3	ND	24.7	ND	78.9 (2.1)	0.93	ND	11.5	30.9	ND	27.6	1.5	68.2	57.6	ND
E20RA	0.0	8.3	ND	413	1.2	144 (0.22)	1.1	20.9	1.1	ND	34.3	32.8	ND	136	1	111	164	ND
	1.0	9.6	ND	310	1.4	64.2 (0.21)	0.71	**553 (9.9) {ND}**	1.6	ND	11.1	201	ND	68	ND	55.6	470	0.65
	2.0	3.5	ND	172	ND	39.8	ND	48.3	1.1	ND	9.5	28.5	ND	56.7	ND	55.5	78.3	ND
	3.0	3.4	ND	117	ND	32.6	ND	13.8	1.2	ND	6.3	18.2	ND	36.1	ND	49.9	48.3	
	6.0	2.3	ND	74.1	ND	49.8	ND	59.7 (4.5)	1.3	ND	8.6	18.5	ND	44.7	ND	43.4	58.2	ND
E20RB	0.0	---	---	---	---	---	---	271 (ND)	---	---	---	---	---	---	---	---	---	---
	1.0	---	---	---	---	---	---	**255 (12.5) {ND}**	---	---	---	---	---	---	---	---	---	---
	2.0	---	---	---	---	---	---	**143 (10) {ND}**	---	---	---	---	---	---	---	---	---	---
	3.0	---	---	---	---	---	---	40	---	---	---	---	---	---	---	---	---	---

BORING	DEPTH	AS	SB	BA	CD	CR	BE	PB	SE	AG	CO	CU	MO	NI	TL	V	ZN	HG
E20RC	0.0	---	---	---	---	---	---	**87.8 (5.5) {ND}**	---	---	---	---	---	---	---	---	---	---
	1.0	---	---	---	---	---	---	**235 (8.2) {0.55}**	---	---	---	---	---	---	---	---	---	---
	2.0	---	---	---	---	---	---	28.1	---	---	---	---	---	---	---	---	---	---
	3.0	---	---	---	---	---	---	30.5	---	---	---	---	---	---	---	---	---	---
E20RD	0.0	4.1	ND	110	ND	44.1	ND	113 (ND)	0.83	ND	9.1	30.5	ND	40.2	ND	50.1	70.5	0.17
	1.0	3.7	ND	118	ND	21.9	0.89	10.5	0.72	ND	5.1	11.2	ND	22.1	ND	35.5	40.4	0.1
	2.0	4.9	ND	90.7	0.62	39.2	0.52	47	ND	ND	6.7	21.1	ND	36.7	ND	37.3	44.4	ND
	3.0	3.4	ND	76.6	ND	41.2	ND	32.9	ND	ND	5.4	15.4	4.5	34.8	ND	28.5	37.2	ND
	6.0	3.9	ND	70.3	ND	54.4 (0.21)	ND	20	1.8	ND	ND	15.3	ND	32.4	ND	29	28.4	ND
E21RA	0.0	6.4	ND	157	ND	57 (ND)	0.61	398 (1.9)	1.4	ND	9.9	77.1	ND	38.9	ND	46.2	208	0.57
	1.0	5.9	ND	122	ND	50.2 (0.14)	0.54	**323 (12.2) {0.64}**	2.1	ND	9.9	70.3	ND	40.2	1.2	40.5	227	0.71
	2.0	4.8	ND	186	ND	28.3	0.61	**275 (14.7) {1.5}**	1.2	ND	8.4	56.6	ND	25.6	1.3	40	172	0.18
	3.0	4.2	ND	173	ND	34	ND	876 (2.0)	1.1	1.4	7.6	52.8	ND	29.9	ND	47.1	73.3	ND
E21RB	0.0	---	---	---	---	---	---	94.3 (1.1)	---	---	---	---	---	---	---	---	---	---
	1.0	---	---	---	---	---	---	**76.9 (25.3) {2.1}**	---	---	---	---	---	---	---	---	---	---
	2.0	---	---	---	---	---	---	**54.6 (9.8) {ND}**	---	---	---	---	---	---	---	---	---	---
	3.0	---	---	---	---	---	---	38.3	---	---	---	---	---	---	---	---	---	---
	6.0	---	---	---	---	---	---	1.4	---	---	---	---	---	---	---	---	---	---
E21RC	0.0	---	---	---	---	---	---	78.9 (4.5)	---	---	---	---	---	---	---	---	---	---
	1.0	---	---	---	---	---	---	2.3	---	---	---	---	---	---	---	---	---	---
	2.0	---	---	---	---	---	---	3.1	---	---	---	---	---	---	---	---	---	---
	3.0	---	---	---	---	---	---	1.8	---	---	---	---	---	---	---	---	---	---
	6.0	---	---	---	---	---	---	5.2	---	---	---	---	---	---	---	---	---	---
	9.0	---	---	---	---	---	---	2.4	---	---	---	---	---	---	---	---	---	---
	12.0	---	---	---	---	---	---	2.7	---	---	---	---	---	---	---	---	---	---
	15.0							2.5	---	---	---	---	---	---	---	---	---	---
E21RD	0.0	4.6	ND	106	ND	38.7	ND	82.7 (ND)	1	ND	9	131	ND	30.8	ND	36.7	197	0.11
	1.0	3.6	ND	153	ND	13.1	ND	14.3	1.2	ND	8.3	27.8	ND	13.6	ND	42.7	75.6	0.29
	2.0	1.3	ND	22.9	ND	30.4	ND	1.6	ND	ND	ND	4.6	ND	23.2	ND	21	14.7	ND
	3.0	1.6	ND	33.6	ND	28.4	ND	43.8	ND	ND	ND	4.7	ND	24.7	ND	21.1	15.4	ND
	6.0	2.1	ND	47	ND	24.3	ND	4.9	ND	ND	ND	4.4	ND	20	ND	16.8	20.4	ND
	9.0	2.4	ND	15.3	ND	22.2	ND	2.3	ND	ND	ND	3.1	ND	20.5	ND	16.7	12.9	ND
	12.0	1.9	ND	28.8	ND	26.3	ND	2.6	ND	ND	ND	3.3	ND	18.3	ND	17.2	11.6	ND
	15.0	1.9	ND	25.3	ND	25.9	ND	2.5	ND	ND	ND	3.5	ND	22.4	ND	16.4	14.4	ND

BORING	DEPTH	AS	SB	BA	CD	CR	BE	PB	SE	AG	CO	CU	MO	NI	TL	V	ZN	HG
E22LD	0.0	6.9	ND	153	1.9	114 (1.4)	ND	**3070 {17.1}**	0.92	ND	7.3	92.6	4.9	33.8	ND	28.3	422	ND
	1.0	6.1	ND	119	ND	49.8	ND	**1450 {1.3}**	0.83	ND	7.4	70.8	ND	39.3	1.1	35.2	263	ND
	2.0	3	ND	296	ND	30.3	ND	**293 (31.8) {ND}**	0.61	ND	7.8	21.4	ND	28.8	ND	31.9	56.1	ND
	3.0	3.2	ND	171	ND	28.7	ND	55.4 (3.0)	0.52	ND	7.5	20.8	ND	29.3	ND	29	45.4	ND
	6.0	1.4	ND	43.7	ND	9.4	ND	**361 (30.2) {14.6}**	0.63	ND	9.7	49.1	ND	13	ND	77.8	77.3	ND
E22RA	1.0	4.4	ND	97.1	ND	176 (0.64)	ND	**1190 {ND}**	0.99	ND	10.4	84.9	18.4	135	1.4	28.2	296	0.15
	2.0	ND	ND	31.4	ND	6.8	ND	14.9	1.1	ND	16.7	97.7	ND	25.4	1.8	110	50.6	ND
	3.0	5.4	ND	366	2.7	40.8	ND	**1900 {14}**	1.2	ND	8.9	210	ND	73.2	1.9	35.2	702	0.34
	6.0	7.8	ND	391	1.7	69.9	ND	**3560 {9.8}**	1.6	ND	9.8	252	ND	58.5	1.7	40.6	611	0.35
	9.0	5.3	ND	219	ND	51.2 (ND)	0.88	354 (ND)	1.5	ND	9.7	83.2	4.2	41.3	1.8	26.7	338	1.5
E22RB	0.0	---	---	---	---	---	---	**3370 {ND}**	---	---	---	---	---	---	---	---	---	---
	1.0	---	---	---	---	---	---	**7570 {42.7}**	---	---	---	---	---	---	---	---	---	---
	2.0	---	---	---	---	---	---	**1260 {25.6}**	---	---	---	---	---	---	---	---	---	---
	3.0	---	---	---	---	---	---	9.6	---	---	---	---	---	---	---	---	---	---
	6.0	---	---	---	---	---	---	10	---	---	---	---	---	---	---	---	---	---
	9.0	---	---	---	---	---	---	**494 (101) {25.8}**	---	---	---	---	---	---	---	---	---	---
E22RC	0.0	---	---	---	---	---	---	19.7	---	---	---	---	---	---	---	---	---	---
	1.0	---	---	---	---	---	---	30.5	---	---	---	---	---	---	---	---	---	---
	2.0	---	---	---	---	---	---	14.1	---	---	---	---	---	---	---	---	---	---
	3.0	---	---	---	---	---	---	17.9	---	---	---	---	---	---	---	---	---	---
	6.0	---	---	---	---	---	---	3.6	---	---	---	---	---	---	---	---	---	---
	9.0	---	---	---	---	---	---	29.1	---	---	---	---	---	---	---	---	---	---
	12.0	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---	---
	15.0	---	---	---	---	---	---	1.6	---	---	---	---	---	---	---	---	---	---
E22RD	0.0	2.7	ND	47.9	ND	32.4	ND	43.4	0.55	ND	ND	11.1	ND	29.3	ND	27.3	47	0.15
	1.0	2.3	ND	48.5	ND	29.7	ND	**130 (7.1) {ND}**	ND	ND	5	16.4	ND	23.8	ND	22.6	47.3	0.12
	2.0	2.5	ND	41.3	ND	25.2	ND	**129 (42.3) {ND}**	ND	ND	ND	16.7	ND	23.1	ND	19.7	63.2	ND
	3.0	2.8	ND	60.4	ND	30.8	ND	169 (ND)	ND	ND	5.6	27.8	ND	23.8	ND	27.8	70.1	0.15
	6.0	2.7	ND	93.5	ND	37.3	ND	**213 (6.1) {ND}**	0.56	ND	6.3	30.1	ND	30.1	ND	29.4	100	0.15
	9.0	2.1	ND	34.5	ND	24.6	ND	4.8	0.51	ND	ND	3.7	ND	20.9	ND	17.7	14.8	ND
	12.0	2.3	ND	55.1	ND	32.5	ND	39	0.52	ND	ND	12.4	ND	23.6	ND	22.4	78.3	ND
	15.0	ND	ND	13	ND	14.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	ND

BORING	DEPTH	AS	SB	BA	CD	CR	BE	PB	SE	AG	CO	CU	MO	NI	TL	V	ZN	HG
E23LA	0.0	3.1	ND	102	ND	24.3	ND	**461 (64.7) {3.2}**	ND	ND	5.7	46.5	ND	21.1	ND	23.9	175	ND
	1.0	3.1	ND	103	ND	32.1	ND	366 (1.3)	0.77	ND	11.4	28.5	ND	33.2	1.4	60.6	49.1	ND
	2.0	2.3	ND	129	ND	26.5	ND	18.9	0.65	ND	14.7	28.7	ND	27.2	2.1	84.5	44.3	ND
	3.0	2.4	ND	103	ND	30	ND	**72.8 (24.1) {ND}**	ND	ND	ND	13.3	ND	30	ND	24.7	59.6	ND
E23LB	0.0	---	---	---	---	---	---	82.1 (1.3)	---	---	---	---	---	---	---	---	---	---
	1.0	---	---	---	---	---	---	29.8	---	---	---	---	---	---	---	---	---	---
	2.0	---	---	---	---	---	---	11.5	---	---	---	---	---	---	---	---	---	---
	3.0	---	---	---	---	---	---	**732 (45.4) {ND}**	---	---	---	---	---	---	---	---	---	---
E23RA	0.0	ND	ND	10.6	ND	2.5	ND	4.5	0.66	ND	ND	3.9	ND	4.8	ND	ND	24.5	ND
	1.0	2.7	ND	153	ND	18	ND	**153 (5.0) {ND}**	0.76	ND	5.1	15.8	ND	27.3	ND	26.7	90.9	0.11
	2.0	3.9	ND	214	ND	28.3	ND	**449 (61.1) {2.8}**	0.93	ND	7	36.9	ND	37.5	ND	30.7	133	0.2
	3.0	2.7	ND	64.1	ND	35.6	ND	**130 (5.1) {ND}**	0.68	ND	ND	14.2	ND	24	1.2	26.3	43.3	0.11
	6.0	2.4	ND	175	ND	12.9	0.94	29.4	0.87	ND	6.1	6.9	ND	16.1	1.1	15.6	32.2	0.7
E23RB	0.0	---	---	---	---	---	---	**80.9 (7.6) {ND}**	---	---	---	---	---	---	---	---	---	---
	1.0	---	---	---	---	---	---	**79.8 (6.2) {ND}**	---	---	---	---	---	---	---	---	---	---
	2.0	---	---	---	---	---	---	74.2 (3.2)	---	---	---	---	---	---	---	---	---	---
	3.0	---	---	---	---	---	---	32	---	---	---	---	---	---	---	---	---	---
COMPOSITES																		
E19R(ABCD)	0.0	---	---	---	---	---	---	119 (2.5)	---	---	---	---	---	---	---	---	---	---
E19R(ABCD)	1.0	---	---	---	---	---	---	**257 (9.7) {ND}**	---	---	---	---	---	---	---	---	---	---
E19R(ABCD)	2.0	---	---	---	---	---	---	**214 (11.7) {ND}**	---	---	---	---	---	---	---	---	---	---
E19R(ABCD)	3.0	---	---	---	---	---	---	**558 (15.8) {1.7}**	---	---	---	---	---	---	---	---	---	---
E19R(ABCD)	6.0	---	---	---	---	---	---	**134 (8) {ND}**	---	---	---	---	---	---	---	---	---	---
E19R(BC)	9.0	---	---	---	---	---	---	**113 (5.9) {ND}**	---	---	---	---	---	---	---	---	---	---
E20R(ABCD)	0.0	---	---	---	---	---	---	**248 (12.1) {ND}**	---	---	---	---	---	---	---	---	---	---
E20R(ABCD)	1.0	---	---	---	---	---	---	**220 (9.3) {ND}**	---	---	---	---	---	---	---	---	---	---
E20R(ABCD)	2.0	---	---	---	---	---	---	84.8 (4)	---	---	---	---	---	---	---	---	---	---
E20R(ABCD)	3.0	---	---	---	---	---	---	**103 (9.1) {ND}**	---	---	---	---	---	---	---	---	---	---
E20R(AD)	6.0	---	---	---	---	---	---	66.6 (3.8)	---	---	---	---	---	---	---	---	---	---

BORING	DEPTH	As	Sb	Ba	Cd	Cr	Be	Pb	Se	Ag	Co	Cu	Mo	Ni	Tl	V	Zn	Hg
COMPOSITE SAMPLES																		
E21R(ABCD)	0.0	---	---	---	---	---	---	**104 (7.1) {ND}**	---	---	---	---	---	---	---	---	---	---
E21R(ABCD)	1.0	---	---	---	---	---	---	**162 (8.8) {ND}**	---	---	---	---	---	---	---	---	---	---
E21R(ABCD)	2.0	---	---	---	---	---	---	**120 (11.4) {ND}**	---	---	---	---	---	---	---	---	---	---
E21R(ABCD)	3.0	---	---	---	---	---	---	55.6 (3.6)	---	---	---	---	---	---	---	---	---	---
E21R(BCD)	6.0	---	---	---	---	---	---	3.2	---	---	---	---	---	---	---	---	---	---
E21R(CD)	9.0	---	---	---	---	---	---	6.7	---	---	---	---	---	---	---	---	---	---
E21R(CD)	12.0	---	---	---	---	---	---	48.7	---	---	---	---	---	---	---	---	---	---
E21R(CD)	15.0	---	---	---	---	---	---	2.6	---	---	---	---	---	---	---	---	---	---
E22R(BCD)	0.0	---	---	---	---	---	---	**326 (16.5) {0.92}**	---	---	---	---	---	---	---	---	---	---
E22R(ABCD)	1.0	---	---	---	---	---	---	**651 (48.8) {4.4}**	---	---	---	---	---	---	---	---	---	---
E22R(ABCD)	2.0	---	---	---	---	---	---	**913 (59.3) {2.1}**	---	---	---	---	---	---	---	---	---	---
E22R(ABCD)	3.0	---	---	---	---	---	---	**209 (10.3) {ND}**	---	---	---	---	---	---	---	---	---	---
E22R(ABCD)	6.0	---	---	---	---	---	---	**185 (6.9) {ND}**	---	---	---	---	---	---	---	---	---	---
E22R(ABCD)	9.0	---	---	---	---	---	---	9.7	---	---	---	---	---	---	---	---	---	---
E22R(CD)	12.0	---	---	---	---	---	---	44.6	---	---	---	---	---	---	---	---	---	---
E22R(CD)	15.0	---	---	---	---	---	---	1.4	---	---	---	---	---	---	---	---	---	---
E23L(AB)	0.0	---	---	---	---	---	---	**341 (19.6) {ND}**	---	---	---	---	---	---	---	---	---	---
E23L(AB)	1.0	---	---	---	---	---	---	99.9 (4.8)	---	---	---	---	---	---	---	---	---	---
E23L(AB)	2.0	---	---	---	---	---	---	**1730 {3.1}**	---	---	---	---	---	---	---	---	---	---
E23L(AB)	3.0	---	---	---	---	---	---	**620 (34.3) {ND}**	---	---	---	---	---	---	---	---	---	---
E23R(AB)	0.0	---	---	---	---	---	---	**160 (11.2) {ND}**	---	---	---	---	---	---	---	---	---	---
E23R(AB)	1.0	---	---	---	---	---	---	**261 (14.8) {ND}**	---	---	---	---	---	---	---	---	---	---
E23R(AB)	2.0	---	---	---	---	---	---	78.7 (2.8)	---	---	---	---	---	---	---	---	---	---
E23R(AB)	3.0	---	---	---	---	---	---	51.5 (2.4)	---	---	---	---	---	---	---	---	---	---
E23R(AB)	6.0	---	---	---	---	---	---	19.6	---	---	---	---	---	---	---	---	---	---
TTLC		500.0	500	10,000	100	500	75	1,000	100	500	100	2,500	3,500	2,000	700	2,400	5,000	20
STLC		5.0	15	100	1	5	0.75	5	1	5	1	25	350	20	7	24	250	0.2

Notes:

Depth is presented in feet below ground surface.

Bold results are above the State of California hazardous criteria for the sample indicated.

ND = not detected at or above the laboratory detection limits, as presented in Appendix B.

Metals are designated by their symbol on the periodic table of elements.

TTLC = Total Threshold Limit Concentration as defined in Title 22.

All samples are reported as total concentration in milligrams per kilogram (mg/kg), unless indicated.

--- = Not analyzed

(3.3) = Soluble concentration after a WET, presented in milligrams per liter (mg/l)

{3.3} = Soluble concentration after a TCLP, presented in milligrams per liter (mg/l)

STLC = Soluble Threshold Limit Concentration as defined in Title 22.

TABLE 2

SUMMARY OF SOIL ANALYTICAL RESULTS: ORGANICS
OAKLAND MOLE
OAKLAND, CALIFORNIA

BORING	DEPTH	TPH-Gasoline	TPH-Diesel	TPH-Motor Oil	Pestides	PCBs	VOCs	SVOCs*
DB(1,2,3,4)	0.0	ND	ND	**310**	ND	ND	**Total Xylenes (0.0053)**	ND
DB(1,2,3,4)	1.0	ND	ND	**200**	---	---	**2=Butanone (0.025), 4-Methyl-2-Pentanone (0.039), Total Xylenes (0.020)**	**0.83**
DB(1,2,3,4)	2.0	ND	ND	**460**	---	---	ND	**9.36**
DB(1,2,3,4)	3.0	ND	ND	**390**	ND	ND	ND	ND
DB(2,3,4)	5.0	ND	ND	**220**	ND	**Aroclor 1260 (0.18)**	ND	**0.86**
DB(3,4)	8.0	ND	ND	**59**	---	---	**Total Xylenes (0.0115)**	ND
E19R(ABCD)	1.0	ND	ND	**2,000**	---	---	**Total Xylenes (0.0089)**	ND
E19R(ABCD)	2.0	ND	ND	**600**	---	---	ND	**0.38**
E19R(ABCD)	3.0	ND	ND	**1,700**	ND	**Aroclor 1260 (0.033)**	**p-Isopropyltoluene (0.0055)**	**7.96**
E19R(ABCD)	6.0	ND	ND	**700**	ND	**Aroclor 1254 (0.13)**	ND	**1.27**
E19R(BC)	9.0	ND	ND	**470**	---	---	ND	**0.91**
E20R(ABCD)	0.0	ND	ND	**800**	ND	---	ND	ND
E20R(ABCD)	1.0	ND	ND	**110**	---	---	ND	ND
E20R(ABCD)	2.0	ND	ND	**1,500**	---	---	ND	ND
E20R(ABCD)	3.0	ND	ND	**2,000**	ND	**Aroclor 1260 (0.042)**	ND	ND
E20R(AD)	6.0	ND	ND	**2,500**	ND	**Aroclor 1260 (0.067)**	ND	ND
E21R(ABCD)	0.0	ND	ND	**920**	ND	ND	ND	ND
E21R(ABCD)	1.0	ND	ND	**90**	---	---	ND	**0.33**
E21R(ABCD)	2.0	ND	**28**	**340**	---	---	ND	ND
E21R(ABCD)	3.0	ND	ND	**270**	ND	ND	ND	ND
E21R(BCD)	6.0	ND	ND	**1,900**	ND	ND	ND	ND

BORING	DEPTH	TPH-Gasoline	TPH-Diesel	TPH-Motor Oil	Pestides	PCBs	VOCs	SVOCs*
E21R(CD)	9.0	ND	ND	ND	---	---	ND	ND
E21R(CD)	12.0	ND	ND	**22**	---	---	ND	ND
E21R(CD)	15.0	ND	ND	ND	---	---	ND	ND
E22R(BCD)	0.0	ND	ND	**640**	ND	**Aroclor 1260 (0.051)**	ND	ND
E22R(ABCD)	1.0	ND	ND	**1,400**	---	---	ND	ND
E22R(ABCD)	2.0	ND	ND	**670**	---	---	ND	ND
E22R(ABCD)	3.0	ND	ND	**2,400**	ND	ND	ND	ND
E22R(ABCD)	6.0	ND	ND	**1,300**	ND	ND	ND	ND
E22R(ABCD)	9.0	ND	ND	**15**	---	---	ND	ND
E22R(CD)	12.0	ND	ND	**260**	---	---	ND	ND
E22R(CD)	15.0	ND	ND	ND	---	---	ND	ND
E23R(AB)	0.0	ND	ND	**1,400**	ND	ND	ND	ND
E23R(AB)	1.0	ND	ND	**4,000**	---	---	ND	ND
E23R(AB)	2.0	ND	ND	**41**	---	---	ND	ND
E23R(AB)	3.0	ND	ND	**100**	ND	ND	ND	**0.82**
E23R(AB)	6.0	ND	ND	**1,400**	ND	ND	ND	ND
E23L(AB)	0.0	ND	ND	**600**	ND	**Aroclor 1260 (0.070)**	ND	ND
E23L(AB)	1.0	ND	ND	**150**	---	---	ND	ND
E23L(AB)	2.0	ND	ND	**330**	---	---	ND	ND
E23L(AB)	3.0	ND	ND	**260**	ND	**Aroclor 1260 (0.16)**	ND	ND

Notes:

ND = Not Detected at laboratory detection limit presented in Appendix B, detection limits may vary from sample to sample

All samples are reported as total concentration in milligrams per kilogram (mg/kg), unless indicated.

Soil resullts do not include acetone, bis (2-Ethylhexyl) phthalate, phenols, or acetone, as they are common laboratory contaminants or naturally occuring.

--- = Not analyzed

VOC = Volatile Organic Compounds

SVOC* = Semi-Volatile Organic Compounds, and is presented as total SVOCs. Individual SVOC concentraions are presented in Table 3.

TABLE 3

SUMMARY OF SOIL ANALYTICAL RESULTS: SVOCs
OAKLAND MOLE
OAKLAND, CALIFORNIA

Sample	Acenaphthylene	Fluorene	Phenanthrene	Naphthalene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Total SVOCs
PRG	**x**	**33,000**	**x**	**190**	**30,000**	**54,000**	**2.9**	**290**	**2.9**	**29**	**290**	
E19R (ABCD) - 2.0	ND	ND	**0.38**	ND	ND	ND	ND	ND	ND	ND	ND	**0.38**
E19R (ABCD) - 3.0	**0.55**	**0.43**	**1.9**	**0.41**	**1.5**	**1.5**	**0.38**	**0.49**	**0.8**	ND	ND	**7.96**
E19R (ABCD) - 6.0	ND	ND	**0.5**	ND	**0.34**	**0.43**	ND	ND	ND	ND	ND	**1.27**
E19R (ABCD) - 9.0	ND	ND	**0.53**	ND	**0.38**	ND	ND	ND	ND	ND	ND	**0.91**
E21R (ABCD) - 1.0	ND	ND	**0.33**	ND	ND	ND	ND	ND	ND	ND	ND	**0.33**
E23R (AB) - 3.0	ND	ND	ND	ND	**0.36**	**0.46**	ND	ND	ND	ND	ND	**0.82**
DB (1,2,3,4) - 1.0	ND	ND	**0.45**	ND	**0.38**	ND	ND	ND	ND	ND	ND	**0.83**
DB (1,2,3,4) - 2.0	**0.66**	**0.48**	**2.3**	**0.48**	**1.9**	**1.3**	**0.49**	**0.51**	**0.88**	**ND**	**0.36**	**9.36**
DB (2,3,4) - 5.0	ND	ND	**0.5**	ND	**0.36**	ND	ND	ND	ND	ND	ND	**0.86**

Notes:

PRG=Preliminary Remedial Goal as stated for Industrial Soil (US EPA Region IX).

ND = Not detected at or above the laboratory detection limits, as presented in Appendix B. Detection limits may vary from sample to sample.

Phenols are not included as they can be naturally occuring compounds

All samples are reported as total concentration in milligrams per kilogram (mg/kg).

TABLE 4

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS: METALS
OAKLAND MOLE
OAKLAND, CALIFORNIA

SAMPLE	AS	SB	BA	CD	CR	BE	PB	SE	AG	CO	CU	MO	NI	TL	V	ZN	HG
DB4-W	ND	ND	**0.34**	ND	ND	ND	**0.18**	ND	ND	ND	ND	ND	**0.057**	ND	ND	ND	ND
E22RD-W	ND	ND	**0.71**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.16**	ND
E20RD-W	ND	ND	**0.38**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
E21RD-W	ND	ND	**0.26**	ND	ND	ND	ND	ND	ND	ND	ND	**0.041**	ND	ND	ND	**0.19**	ND
E19RB-W	ND	ND	**0.59**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.081**	ND

Notes:

ND = not detected at or above the laboratory detection limits, as presented in Appendix B.

Metals are designated by their symbol on the periodic table of elements.

All samples are reported as total concentration in milligrams per liter (mg/L), unless indicated.

TABLE 5

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS: ORGANICS
OAKLAND MOLE
OAKLAND, CALIFORNIA

SAMPLE	TPH-Gasoline	TPH-Diesel	TPH-Motor Oil	BTEX/MTBE	SVOCs
DB4-W	ND	ND	ND	ND	ND
E22RD-W	ND	ND	ND	ND	ND
E20RD-W	ND	ND	ND	ND	ND
E21RD-W	ND	ND	ND	ND	ND
E19RB-W	ND	ND	ND	ND	ND

Notes:

ND = Not Detected at laboratory detection limit presented in Appendix B, detection limits may vary from sample to sample

All samples are reported as total concentration in milligrams per liter (mg/l), unless indicated.

BTEX/MTBE = Benzene, Toluene, Ethylbenzene, Total Xylenes/Methyl Tertiary Butyl Ether

SVOC = Semi-Volatile Organic Compounds

APPENDIX A

BORING LOGS

SOIL BORING LOG

BORING NO: E-19RA	
SHEET 1 OF 1	
PROJECT NAME: OAKLAND	
PROJECT NUMBER: 575-2G004	DATE: 2/21/02
DRILLING COMPANY: V & W DRILLING	
DRILLING METHOD: GEOPROBE PUSH DRILLING	
BORING DIAMETER: 2 INCHES	DEPTH: 6.0 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
	NONE ENCOUNTERED	

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
			■		6-8 INCHES WOOD GROUNDCOVER.			
1			■		GRAVELLY SAND (SW), MEDIUM TO DARK OLIVE, DAMP TO MOIST, DENSE, FINE TO COARSE SAND, MEDIUM ANGULAR GRAVEL (FILL).		SW	NO ODOR
2			■					NO ODOR
3			■					NO ODOR
4						0.0		
5								
6			■		AS ABOVE.			NO ODOR
7					END OF BORING AT 6.0 FEET DUE TO REFUSAL. STEPPED OVER AND RE-DRILLED TO REFUSAL AT 3.5 FEET. NO FREE WATER ENCOUNTERED.			
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Reviewed By:	LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: E-19RB

SHEET 1 OF 1

PROJECT NAME: OAKLAND

PROJECT NUMBER: 575-2G004 DATE: 2/21/02

DRILLING COMPANY: V & W DRILLING

DRILLING METHOD: GEOPROBE PUSH DRILLING

BORING DIAMETER: 2 INCHES DEPTH: 11.5 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
2/21/02	INITIALLY ENCOUNTERED	6.5 FEET

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
			■		6-12 INCHES WOOD GROUNDCOVER.			
1			■		SANDY GRAVEL (GW), MEDIUM OLIVE GRAY, DAMP, DENSE, FINE TO MEDIUM SAND AND GRAVEL (FILL).		GW	
2			■		SILTY SAND (SM), MEDIUM BROWN, MOIST, DENSE, FINE TO MEDIUM GRAIN, SOME MEDIUM ANGULAR GRAVEL (FILL).	0.0	SM	NO ODOR
3			■					
4								
5					GRAVELLY SAND (SW), MEDIUM GRAY, DENSE (FILL).		SW	
6			■					GROUNDWATER AT 6.5 FEET
7					SILTY SAND (SW), MEDIUM OLIVE, MOIST, DENSE, FINE TO MEDIUM GRAIN, SOME MEDIUM ANGULAR GRAVEL (FILL).	0.0		SLIGHT ORGANIC ODOR
8								
9			■					
10								
11					AS ABOVE.	0.0		NO ODOR
12					END OF BORING AT 11.5 FEET DUE TO REFUSAL. GROUNDWATER ENCOUNTERED AT 6.5 FEET.			
13								
14								
15								
16								
17								
18								
19								
20								

Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: E-19RC	
SHEET 1 OF 1	
PROJECT NAME: OAKLAND	
PROJECT NUMBER: 575-2G004	DATE: 2/21/02
DRILLING COMPANY: V & W DRILLING	
DRILLING METHOD: GEOPROBE PUSH DRILLING	
BORING DIAMETER: 2 INCHES	DEPTH: 18.5 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
2/21/02	INITIALLY ENCOUNTERED	3.5 FEET

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
			■		5 INCHES ASPHALT OVER 7 INCHES AGGREGATE BASE.			
1			■					
2			■		SILTY SAND (SM), MEDIUM BROWN TO MEDIUM OLIVE, DAMP TO MOIST, VERY DENSE, FINE TO COARSE GRAVEL (FILL).		SM	
3			■					GROUNDWATER AT 3.5 FEET
4					AS ABOVE, MEDIUM OLIVE, WET.	0.0		NO ODOR
5								
6			■					
7								NO ODOR
8					AS ABOVE, SATURATED.	0.0		
9			■					SLIGHT ORGANIC ODOR
10						0.0		
11								NO ODOR
12					AS ABOVE (FILL).	0.0		
			■		SILT (ML), DARK BROWN, FIRM, (NATIVE)		ML	BAY MUD?
13					SILTY SAND (SM), DARK OLIVE BROWN, FINE TO MEDIUM SAND.		SM	
14								
15			■					NO ODOR
16						0.0		
17					SANDY SILT (ML), DARK OLIVE GREEN, VERY FINE SAND, SOME MICA FLAKES.		ML	
18			■					
19					END OF BORING AT 18.5 FEET. GROUNDWATER ENCOUNTERED AT 3.5 FEET.			
20								

Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: E-19RD

SHEET 1 OF 1

PROJECT NAME: OAKLAND

PROJECT NUMBER: 575-2G004 DATE: 2/21/02

DRILLING COMPANY: V & W DRILLING

DRILLING METHOD: GEOPROBE PUSH DRILLING

BORING DIAMETER: 2 INCHES DEPTH: 6.0 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
2/21/02	INITIALLY ENCOUNTERED	3.5 FEET

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
			■		SANDY GRAVEL (GW), MEDIUM BROWN, DAMP TO MOIST, FINE TO MEDIUM GRAVEL AND SAND (FILL).		GW	
1			■				SW	NO ODOR
2			■		GRAVELLY SAND (SW), MEDIUM BROWN, MOIST TO VERY MOIST, DENSE, FINE TO COARSE SAND, FINE TO MEDIUM GRAVEL (FILL).			NO ODOR
3			■					NO ODOR
4						0.0		GROUNDWATER AT 3.5 FEET
5					AS ABOVE, DARK OLIVE BROWN, WET, VERY DENSE.			
6			■			0.0		NO ODOR
7					END OF BORING AT 6.0 FEET DUE TO REFUSAL. STEPPED OVER AND RE-DRILLED TO REFUSAL AT 1.0 FEET. STEPPED OVER AND RE-DRILLED TO REFUSAL AT 5.0 FEET. GROUNDWATER ENCOUNTERED AT 3.5 FEET.			
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Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO:	E-20RA
SHEET	1 OF 1
PROJECT NAME:	OAKLAND
PROJECT NUMBER:	575-2G004
DATE:	2/20/02
DRILLING COMPANY:	V & W DRILLING
DRILLING METHOD:	GEOPROBE PUSH DRILLING
BORING DIAMETER:	2 INCHES
DEPTH:	8.0 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
2/20/02	INITIALLY ENCOUNTERED	7.5 FEET

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
			■		6-12 INCHES WOOD GROUNDCOVER.			
1			■				SM	
2					SANDY SILT (ML), DARK BROWN, DAMP TO MOIST, FIRM TO STIFF, MANY FINE TO MEDIUM GRAVEL (FILL).			NO ODOR
3			■					6" LAYER OF WOOD GROUNDCOVER.
4					AS ABOVE; MOIST TO VERY MOIST.	0.0		NO ODOR
5								6" LAYER OF ORANGE BROWN GRAVEL.
6			■					
7					AS ABOVE, WET.			GROUNDWATER AT 7.5 FEET
8						0.0		NO ODOR
9					END OF BORING AT 8.0 FEET DUE TO REFUSAL. GROUNDWATER ENCOUNTERED AT 7.5 FEET.			
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Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: E-20RB

SHEET 1 OF 1

PROJECT NAME: OAKLAND

PROJECT NUMBER: 575-2G004 DATE: 2/20/02

DRILLING COMPANY: V & W DRILLING

DRILLING METHOD: GEOPROBE PUSH DRILLING

BORING DIAMETER: 2 INCHES DEPTH: 5.0 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
	NONE ENCOUNTERED	

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
					6 INCHES WOOD GROUNDCOVER.			
1					SANDY SILT (ML), DARK BROWN, DRY TO DAMP, FIRM TO STIFF, FINE TO MEDIUM SAND, MANY FINE TO MEDIUM GRAVEL, (FILL).		ML	NO ODOR
2								
3								
4						0.0		
5					AS ABOVE			NO ODOR
6					END OF BORING AT 3.0 FEET DUE TO REFUSAL.. STEPPED OVER AND RE-DRILLED TO REFUSAL AT 5.0 FEET. NO FREE WATER ENCOUNTERED.			
7								
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Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO:	E-20RC
SHEET	1 OF 1
PROJECT NAME:	OAKLAND
PROJECT NUMBER:	575-2G004
DATE:	2/20/02
DRILLING COMPANY:	V & W DRILLING
DRILLING METHOD:	GEOPROBE PUSH DRILLING
BORING DIAMETER:	2 INCHES
DEPTH:	5.0 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
	NONE ENCOUNTERED	

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
1					GRAVELLY SAND (SW), DARK GRAYISH BROWN, DAMP, DENSE, FINE TO MEDIUM SAND, FINE TO MEDIUM GRAVEL, SOME SILT (FILL).		SW	
2					SILTY SAND (SM), MEDIUM OLIVE BROWN, MOIST, DENSE, FINE TO COARSE SAND (FILL).		SM	
3								
4					AS ABOVE, VERY MOIST, FINE TO MEDIUM SAND.	0.0		
5					END OF BORING AT 2.0 FEET DUE TO REFUSAL. STEPPED OVER AND RE-DRILLED TO REFUSAL AT 2.0 FEET. STEPPED OVER AND RE-DRILLED TO REFUSAL AT 5.0 FEET NO FREE WATER ENCOUNTERED.			
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Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: E-20RD

SHEET 1 OF 1

PROJECT NAME: OAKLAND

PROJECT NUMBER: 575-2G004 DATE: 2/21/02

DRILLING COMPANY: V & W DRILLING

DRILLING METHOD: GEOPROBE PUSH DRILLING

BORING DIAMETER: 2 INCHES DEPTH: 8.0 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
2/20/02	INITIALLY ENCOUNTERED	7.5 FEET

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
1					GRAVELLY SAND (SW), DARK GRAYISH BROWN, DAMP, DENSE, FINE TO MEDIUM SAND, FINE TO MEDIUM GRAVEL, SOME SILT (FILL).		GW	
3					SILTY SAND (SM), MEDIUM BROWN, MOIST, FINE TO MEDIUM SAND, MANY FINE TO MEDIUM GRAVEL (FILL).	0.0	SM	NO ODOR
6					AS ABOVE; VERY MOIST TO WET.			
7					AS ABOVE; SATURATED.	0.0		NO ODOR GROUNDWATER AT 7.5 FEET
9					END OF BORING AT 2.5 FEET DUE TO REFUSAL. STEPPED OVER AND RE-DRILLED TO REFUSAL AT 8.0 FEET. GROUNDWATER ENCOUNTERED AT 7.5 FEET.			

Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: E-21RA

SHEET 1 OF 1

PROJECT NAME: OAKLAND

PROJECT NUMBER: 575-2G004 DATE: 2/20/02

DRILLING COMPANY: V & W DRILLING

DRILLING METHOD: GEOPROBE PUSH DRILLING

BORING DIAMETER: 2 INCHES DEPTH: 5.0 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
	NONE ENCOUNTERED	

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
			■		6-12 INCHES ORGANIC RICH, SILTY CLAY TOPSOIL.			
1			■		SILTY SAND (SM), MEDIUM OLIVE BROWN, DAMP TO MOIST, MEDIUM DENSE, FINE TO MEDIUM GRAIN, SOME FINE TO MEDIUM GRAVEL (FILL).		SM	NO ODOR
2			■					
3			■					
4					AS ABOVE.	0.0		
5					END OF BORING AT 2.5 FEET DUE TO REFUSAL. STEPPED OVER AND RE-DRILLED TO REFUSAL AT 5.0 FEET. NO FREE WATER ENCOUNTERED.			
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Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: E-21RB

SHEET 1 OF 1

PROJECT NAME: OAKLAND

PROJECT NUMBER: 575-2G004 DATE: 2/20/02

DRILLING COMPANY: V & W DRILLING

DRILLING METHOD: PUSH DRILLING

BORING DIAMETER: 2 INCHES DEPTH: 7.5 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
	NONE ENCOUNTERED	

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
1					6-12 INCHES ORGANIC RICH, SILTY CLAY TOPSOIL.			
2, 3, 4, 5					SILTY SAND (SM), MEDIUM OLIVE BROWN, DAMP TO MOIST, MEDIUM DENSE, FINE TO MEDIUM GRAIN, SOME FINE TO MEDIUM GRAVEL (FILL).	0.0	SM	NO ODOR
6, 7					GRAVELLY SAND (SW), DARK BROWN, DAMP TO MOIST, DENSE (FILL).		SW	NO ODOR
8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20					END OF BORING AT 7.5 FEET DUE TO REFUSAL. STEPPED OVER AND RE-DRILLED TO REFUSAL AT 4.5 FEET. NO FREE WATER ENCOUNTERED.			

Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: E-21RC

SHEET 1 OF 1

PROJECT NAME: OAKLAND

PROJECT NUMBER: 575-2G004 DATE: 2/20/02

DRILLING COMPANY: V & W DRILLING

DRILLING METHOD: GEOPROBE PUSH DRILLING

BORING DIAMETER: 2 INCHES DEPTH: 15.5 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
2/20/02	INITIALLY ENCOUNTERED	10.0 FEET

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
					6 INCHES WOOD GROUNDCOVER.			
1					GRAVELLY SAND (SW), MEDIUM BROWN, DAMP, DENSE, FINE TO MEDIUM SAND AND ANGULAR GRAVEL (FILL).		SW	
2					SILTY SAND (SM), MEDIUM OLIVE BROWN, MOIST, FINE TO MEDIUM GRAIN, FEW FINE GRAVEL (FILL).		SM	
3								
4						0.0		NO ODOR
5								
6								
7					AS ABOVE; MOIST TO VERY MOIST.			NO ODOR
8						0.0		SHELL FRAGMENTS AT 8 TO 9 FEET. POSSIBLE NATIVE SOILS.
9								
10					AS ABOVE; WET.			NO ODOR GROUNDWATER AT 10.0 FEET SHELL FRAGMENTS AT 10 TO 11 FEET.
11								
12						0.0		
13					AS ABOVE; MEDIUM OLIVE GREEN, SATURATED.			NO ODOR
14								
15								NO ODOR
16					END OF BORING AT 15.5 FEET DUE TO REFUSAL. GROUNDWATER ENCOUNTERED AT 10.0 FEET.			
17								
18								
19								
20								

Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: E-21RD

SHEET 1 OF 1

PROJECT NAME: OAKLAND

PROJECT NUMBER: 575-2G004 DATE: 2/20/02

DRILLING COMPANY: V & W DRILLING

DRILLING METHOD: GEOPROBE PUSH DRILLING

BORING DIAMETER: 2 INCHES DEPTH: 15.0 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
2/20/02	INITIALLY ENCOUNTERED	10.0 FEET

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
			■		6 INCHES WOOD GROUNDCOVER.			
1			■		GRAVELLY SAND (SW), MEDIUM BROWN, DAMP, DENSE, FINE TO MEDIUM SAND AND ANGULAR GRAVEL (FILL).		SW	
2			■		SILTY SAND (SM), MEDIUM OLIVE BROWN, MOIST, FINE TO MEDIUM GRAIN, FEW FINE GRAVEL (FILL).		SM	
3			■					
4						0.0		NO ODOR
5								
6			■					
7					AS ABOVE; MOIST TO VERY MOIST.			NO ODOR
8						0.0		MANY GRAVEL LAYERS FROM 8 TO 10 FEET. POSSIBLE NATIVE SOILS.
9			■					NO ODOR
10					AS ABOVE; WET.			GROUNDWATER AT 10.0 FEET
11								
12			■			0.0		
13					AS ABOVE; MEDIUM OLIVE GREEN, SATURATED.			NO ODOR
14								
15			■					NO ODOR
16					END OF BORING AT 15.0 FEET DUE TO REFUSAL. GROUNDWATER ENCOUNTERED AT 10.0 FEET.			
17								
18								
19								
20								

Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: E-22RA	
SHEET 1 OF 1	
PROJECT NAME: OAKLAND	
PROJECT NUMBER: 575-2G004	DATE: 2/19/02
DRILLING COMPANY: V & W DRILLING	
DRILLING METHOD: GEOPROBE PUSH DRILLING	
BORING DIAMETER: 2 INCHES	DEPTH: 9.5 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
	NONE ENCOUNTERED	

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
					6-12 INCHES ORGANIC RICH, SILTY CLAY TOPSOIL.			
1							CL	
2					SILTY CLAY (CL), DARK BROWN, MOIST, FIRM, MANY COARSE GRAVEL, SOME ROOTS AND ORGANICS (FILL).			
3								NO ODOR
4						0.0		
					SILTY SAND (SM), DARK BROWN, MOIST, MEDIUM DENSE.		SM	
5								
6								
7								NO ODOR
8						0.0		
9					AS ABOVE.	0.0		NO ODOR
10					END OF BORING AT 9.5 FEET DUE TO REFUSAL. NO FREE WATER ENCOUNTERED.			
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Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: E-22RB	
SHEET 1 OF 1	
PROJECT NAME: OAKLAND	
PROJECT NUMBER: 575-2G004	DATE: 2/19/02
DRILLING COMPANY: V & W DRILLING	
DRILLING METHOD: GEOPROBE PUSH DRILLING	
BORING DIAMETER: 2 INCHES	DEPTH: 9.5FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
	NONE ENCOUNTERED	

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
					6-12 INCHES ORGANIC RICH, SILTY CLAY TOPSOIL.			
1					SILTY CLAY (CL), DARK BROWN, MOIST, FIRM, SOME ROOTS AND ORGANICS (FILL).		CL	
2								
3								NO ODOR
4					AS ABOVE; MEDIUM BROWN.	0.0		PIECE OF SHEET METAL (INDICATES FILL).
5								
6								
7					SILTY SAND (SM), DARK BROWN, MOIST, MEDIUM DENSE, SOME ROOTS AND ORGANICS (FILL).		SM	NO ODOR
8						0.0		
9						0.0		NO ODOR
10					END OF BORING AT 9.5 FEET DUE TO REFUSAL. NO FREE WATER ENCOUNTERED.			
11								
12								
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16								
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18								
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Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: E-22RC

SHEET 1 OF 1

PROJECT NAME: OAKLAND

PROJECT NUMBER: 575-2G004 DATE: 2/19/02

DRILLING COMPANY: V & W DRILLING

DRILLING METHOD: GEOPROBE PUSH DRILLING

BORING DIAMETER: 2 INCHES DEPTH: 15.5 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
2/19/02	INITIALLY ENCOUNTERED	10.5 FEET

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
			■		6 INCHES WOOD GROUNDCOVER.			
1			■		SILTY SAND (SM), MEDIUM OLIVE, MOIST TO VERY MOIST, MEDIUM DENSE, FINE TO MEDIUM GRAIN, SOME FINE GRAVEL (FILL).		SM	
2			■					
3			■					
4						0.0		NO ODOR
5								
6			■					PIECE OF SHEET METAL (INDICATES FILL).
7					AS ABOVE; MEDIUM OLIVE BROWN.			NO ODOR
8						0.0		
9			■					
10					AS ABOVE; WET.			NO ODOR GROUNDWATER AT 10.5 FEET
11								
12			■			0.0		NO ODOR BROKEN SHELL FRAGMENTS AT 12 TO 13 FEET.
13								
14								
15			■		AS ABOVE; MEDIUM OLIVE GREEN, SATURATED.	0.0		NO ODOR
16					END OF BORING AT 15.5 FEET DUE TO REFUSAL. GROUNDWATER ENCOUNTERED AT 10.5 FEET.			
17								
18								
19								
20								

Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: E-22RD

SHEET 1 OF 1

PROJECT NAME: OAKLAND

PROJECT NUMBER: 575-2G004 DATE: 2/19/02

DRILLING COMPANY: V & W DRILLING

DRILLING METHOD: GEOPROBE PUSH DRILLING

BORING DIAMETER: 2 INCHES DEPTH: 15.0 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
2/19/02	INITIALLY ENCOUNTERED	10.5 FEET

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
			■		6 INCHES WOOD GROUNDCOVER.			
1			■		SILTY SAND (SM), MEDIUM OLIVE, MOIST TO VERY MOIST, MEDIUM DENSE, FINE TO MEDIUM GRAIN, SOME FINE GRAVEL (FILL).		SM	
2			■					
3			■					
4						0.0		NO ODOR
5								
6			■					
7					AS ABOVE; MEDIUM OLIVE BROWN.			NO ODOR
8						0.0		
9			■					
10					AS ABOVE; WET.			NO ODOR GROUNDWATER AT 10.5 FEET
11								
12			■			0.0		NO ODOR BROKEN SHELL FRAGMENTS AT 12 TO 13 FEET.
13								
14					AS ABOVE; MEDIUM OLIVE GREEN, SATURATED.			
15			■			0.0		NO ODOR
16					END OF BORING AT 15.0 FEET DUE TO REFUSAL. GROUNDWATER ENCOUNTERED AT 10.5 FEET.			
17								
18								
19								
20								

Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: E-23RA	
SHEET 1 OF 1	
PROJECT NAME: OAKLAND	
PROJECT NUMBER: 575-2G004	DATE: 2/19/02
DRILLING COMPANY: V & W DRILLING	
DRILLING METHOD: GEOPROBE PUSH DRILLING	
BORING DIAMETER: 2 INCHES	DEPTH: 6.0 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
	NONE ENCOUNTERED	

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
					6 INCHES WOOD GROUNDCOVER.			
1, 2, 3					SILTY SAND (SM), MEDIUM OLIVE BROWN, MOIST, MEDIUM DENSE, FINE TO MEDIUM GRAIN, (FILL).		SM	
4					SANDY CLAY (CL), DARK BROWN, MOIST, STIFF, MANY ROOTS AND ORGANICS (FILL).	0.0	CL	NO ODOR
5, 6					SILTY SAND (SM), MEDIUM OLIVE BROWN, MOIST, MEDIUM DENSE, MEDIUM TO COARSE GRAIN, (FILL).	113.0	SM	NO ODOR
7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20					END OF BORING AT 3.0 FEET DUE TO REFUSAL. STEPPED OVER AND RE-DRILLED TO REFUSAL AT 6.0 FEET. NO FREE WATER ENCOUNTERED.			

Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: E-23RB	
SHEET 1 OF 1	
PROJECT NAME: OAKLAND	
PROJECT NUMBER: 575-2G004	DATE: 2/19/02
DRILLING COMPANY: V & W DRILLING	
DRILLING METHOD: GEOPROBE PUSH DRILLING	
BORING DIAMETER: 2 INCHES	DEPTH: 6.5 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
	NONE ENCOUNTERED	

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
					6 INCHES WOOD GROUNDCOVER.			
1							SM	
2					SILTY SAND (SM), MEDIUM OLIVE BROWN, MOIST, MEDIUM DENSE, FINE TO MEDIUM GRAIN, (FILL).			MANY DEBRIS (FINE GRAVEL, CONCRETE, WOOD, ORGANICS).
3								
4						0.0		NO ODOR
5					AS ABOVE; MEDIUM TO COARSE GRAIN (FILL).	0.0		NO ODOR
6								
7					END OF BORING AT 3.0 FEET DUE TO REFUSAL. STEPPED OVER AND RE-DRILLED TO REFUSAL AT 6.5 FEET. NO FREE WATER ENCOUNTERED.			
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Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: E-22LD

SHEET 1 OF 1

PROJECT NAME: OAKLAND

PROJECT NUMBER: 575-2G004 DATE: 2/19/02

DRILLING COMPANY: V & W DRILLING

DRILLING METHOD: GEOPROBE PUSH DRILLING

BORING DIAMETER: 2 INCHES DEPTH: 6.0 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
	NONE ENCOUNTERED	

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
			■		6 INCHES ORGANIC RICH, SILTY CLAY TOPSOIL.			
1			■		SILTY CLAY (CL), DARK BROWN, MOIST, FIRM, SOME ROOTS AND ORGANICS (FILL).		CL	
2			■					
3			■					
4					SILTY SAND (SM), DARK BROWN, MOIST, MEDIUM DENSE, MEDIUM TO COARSE GRAIN, (FILL).	0.0	SM	NO ODOR
5								
6			■			3.0		MODERATE CREOSOTE ODOR.
7					END OF BORING AT 3.0 FEET DUE TO REFUSAL. STEPPED OVER AND RE-DRILLED TO REFUSAL AT 6.0 FEET. NO FREE WATER ENCOUNTERED.			
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Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: E-23LA

SHEET 1 OF 1

PROJECT NAME: OAKLAND

PROJECT NUMBER: 575-2G004 DATE: 2/19/02

DRILLING COMPANY: V & W DRILLING

DRILLING METHOD: GEOPROBE PUSH DRILLING

BORING DIAMETER: 2 INCHES DEPTH: 4.0 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
	NONE ENCOUNTERED	

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
					6 INCHES ORGANIC RICH, SILTY CLAY TOPSOIL.			
1					SILTY SAND (SM), MEDIUM OLIVE BROWN, MOIST, MEDIUM DENSE, FINE TO MEDIUM SAND, SOME ROOTS AND ORGANICS (FILL).		SM	
2						0.0		NO ODOR
3								
4						0.0		NO ODOR
5					END OF BORING AT 1.0 FEET DUE TO REFUSAL. STEPPED OVER AND RE-DRILLED TO REFUSAL AT 4.0 FEET. NO FREE WATER ENCOUNTERED.			
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Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: E-23LB

SHEET 1 OF 1

PROJECT NAME: OAKLAND

PROJECT NUMBER: 575-2G004 DATE: 2/19/02

DRILLING COMPANY: V & W DRILLING

DRILLING METHOD: GEOPROBE PUSH DRILLING

BORING DIAMETER: 2 INCHES DEPTH: 4.0 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
	NONE ENCOUNTERED	

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
			■		6 INCHES ORGANIC RICH, SILTY CLAY TOPSOIL.			
1			■		SILTY SAND (SM), MEDIUM BROWN, MOIST, MEDIUM DENSE, FINE TO MEDIUM SAND, SOME ROOTS AND ORGANICS (FILL).	0.0	SM	NO ODOR
2			■					
3			■					
4						0.0		NO ODOR
5					END OF BORING AT 4.0 FEET DUE TO REFUSAL. NO FREE WATER ENCOUNTERED.			
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: DB-1

SHEET 1 OF 1

PROJECT NAME: OAKLAND

PROJECT NUMBER: 575-2G004 DATE: 2/19/02

DRILLING COMPANY: V & W DRILLING

DRILLING METHOD: GEOPROBE PUSH DRILLING

BORING DIAMETER: 2 INCHES DEPTH: 4.0 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
	NONE ENCOUNTERED	

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
					6-12 INCHES WOOD GROUNDCOVER.			
1					SILTY SAND (SM), MEDIUM OLIVE BROWN, MOIST, MEDIUM DENSE, FINE TO MEDIUM SAND, MANY MEDIUM GRAVELS (FILL).		SM	
2								
3								
4					AS ABOVE; VERY MOIST.	0.0		NO ODOR
5					END OF BORING AT 4.0 FEET DUE TO REFUSAL. NO FREE WATER ENCOUNTERED.			
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: DB-2

SHEET 1 OF 1

PROJECT NAME: OAKLAND

PROJECT NUMBER: 575-2G004 DATE: 2/19/02

DRILLING COMPANY: V & W DRILLING

DRILLING METHOD: GEOPROBE PUSH DRILLING

BORING DIAMETER: 2 INCHES DEPTH: 6.0 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
	NONE ENCOUNTERED	

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
					6-12 INCHES WOOD GROUNDCOVER.			
1					SILTY SAND (SM), MEDIUM OLIVE BROWN, MOIST, MEDIUM DENSE, FINE TO MEDIUM SAND, MANY MEDIUM GRAVELS, SOME ROOTS AND ORGANICS (FILL).		SM	
2								
3								
4					AS ABOVE; FEW ROOTS AND ORGANICS.	0.0		NO ODOR
5								
6					AS ABOVE; MEDIUM BROWN.	0.0		NO ODOR
					END OF BORING AT 6.0 FEET DUE TO REFUSAL. NO FREE WATER ENCOUNTERED.			
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: DB-3

SHEET 1 OF 1

PROJECT NAME: OAKLAND

PROJECT NUMBER: 575-2G004 DATE: 2/20/02

DRILLING COMPANY: V & W DRILLING

DRILLING METHOD: GEOPROBE PUSH DRILLING

BORING DIAMETER: 2 INCHES DEPTH: 8.0 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
	NONE ENCOUNTERED	

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
			■		6 INCHES WOOD GROUNDCOVER.			
1			■		GRAVELLY SAND (SW), MEDIUM BROWN, DAMP, DENSE, FINE TO MEDIUM SAND, FINE TO MEDIUM ANGULAR GRAVEL (FILL).		SW	
2			■					
3			■		SILTY SAND (SM), MEDIUM BROWN, MOIST, DENSE, FEW FINE GRAVEL (FILL).	0.0	SM	NO ODOR
4								
5			■					
6								
7					AS ABOVE; MEDIUM OLIVE, VERY MOIST (FILL).			
8			■			0.0		NO ODOR
9					END OF BORING AT 8.0 FEET DUE TO REFUSAL. NO FREE WATER ENCOUNTERED.			
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Reviewed By:

LOGGED BY: BRAND BURFIELD

SOIL BORING LOG

BORING NO: DB-4

SHEET 1 OF 1

PROJECT NAME: OAKLAND

PROJECT NUMBER: 575-2G004 DATE: 2/20/02

DRILLING COMPANY: V & W DRILLING

DRILLING METHOD: GEOPROBE PUSH DRILLING

BORING DIAMETER: 2 INCHES DEPTH: 15.0 FEET

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
2/20/02	INITIALLY ENCOUNTERED	10.0 FEET

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	BLOW COUNT	DESCRIPTION	PID (PPM)	USCS	REMARKS
			■		6-12 INCHES WOOD GROUNDCOVER.			
1			■		SILTY SAND (SM), MEDIUM OLIVE, MOIST, MEDIUM DENSE, FINE TO MEDIUM SAND, (FILL)		SM	
2			■					6" LAYER OF WOOD GROUNDCOVER.
3			■				SM	
4					SILTY SAND (SM), MEDIUM BROWN, MOIST, DENSE, FINE TO MEDIUM SAND, FEW FINE GRAVEL (FILL).	0.0		NO ODOR
5			■					
6								
7								
8					AS ABOVE; MEDIUM OLIVE, VERY MOIST (FILL).	0.0		NO ODOR BROKEN SHELL FRAGMENTS AT 8 TO 9 FEET.
9			■					
10								
11					AS ABOVE; WET.			
12						0.0		NO ODOR
13								
14					AS ABOVE; MEDIUM OLIVE GREEN, SATURATED,			
15						0.0		NO ODOR
					END OF BORING AT 15.0 FEET DUE TO REFUSAL. GROUNDWATER ENCOUNTERED AT 10.0 FEET.			
16								
17								
18								
19								
20								

Reviewed By:

LOGGED BY: BRAND BURFIELD

APPENDIX B

LABORATORY RESULTS AND CHAIN-OF-CUSTODY RECORDS

SEVERN
TRENT
SERVICES

STL Sacramento
880 Riverside Parkway
West Sacramento, CA 95605-1500

Tel: 916 373 5600
Fax: 916 371 8420
www.stl-inc.com

March 30, 2002

STL SACRAMENTO PROJECT NUMBER: G2B210310
PO/CONTRACT: 575-2G004

Frank Poss
PSI Inc
4703 Tidewater Avenue
Suite B
Oakland, CA 94601

Dear Mr. Poss,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on February 21, 2002. These samples are associated with your 2G004 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

Preliminary results were sent via facsimile on March 1, 2002.

If you have any questions, please feel free to call me at (916) 374-4344.

Sincerely,

Josie P. Tellers

Josie Tellers
Project Manager

STL Sacramento

Quality Control Definitions

QC Parameter	Definition
QC Batch	A set of up to 20 field samples plus associated laboratory QC samples that are similar in composition (matrix) and that are processed within the same time period with the same reagent and standard lots.
Duplicate Control Sample (DCS)	Consist of a pair of LCSs analyzed within the same QC batch to monitor precision and accuracy independent of sample matrix effects. This QC is performed only if required by client or when insufficient sample is available to perform MS/MSD.
Duplicate Sample (DU)	A second aliquot of an environmental sample, taken from the same sample container when possible, that is processed independently with the first sample aliquot. The results are used to assess the effect of the sample matrix on the precision of the analytical process. The precision estimated using this sample is not necessarily representative of the precision for other samples in the batch.
Laboratory Control Sample (LCS)	A volume of reagent water for aqueous samples or a contaminant-free solid matrix (Ottawa sand) for soil and sediment samples which is spiked with known amounts of representative target analytes and required surrogates. An LCS is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects.
Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A field sample fortified with known quantities of target analytes that are also added to the LCS. Matrix spike duplicate is a second matrix spike sample. MSs/MSDs are carried through the entire analytical process and are used to determine sample matrix effect on accuracy of the measurement system. The accuracy and precision estimated using MS/MSD is only representative of the precision of the sample that was spiked.
Method Blank (MB)	A sample composed of all the reagents (in the same quantities) in reagent water carried through the entire analytical process. The method blank is used to monitor the level of contamination introduced during sample preparation steps.
Surrogate Spike	Organic constituents not expected to be detected in environmental media and are added to every sample and QC at a known concentration. Surrogates are used to determine the efficiency of the sample preparation and the analytical process.

Source: STL Sacramento Laboratory Quality Manual

STL Sacramento Certifications:
Alaska (UST-055), Arizona (#AZ00616), Arkansas, California (NELAP # 01119CA) (ELAP #I-2439), Connecticut (#PH-0691), Florida (E87570), Hawaii, Louisiana (AI # 30612), New Jersey (Lab ID 44005), Nevada (#CA 044), New York (LAB ID 11666 serial # 107407), Oregon (LAB ID CA 044), South Carolina (LAB ID 87014, Cert. # 870140), Utah (E-168), Virginia (#00178), Washington (# C087), West Virginia (# 9930C), Wisconsin (Lab 998204680), USNAVY, USACE, USDA Foreign Plant (Permit # 37-82605), USDA Foreign Soil (Permit # S-46613)..

Sample Summary
G2B210310

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
EVFW0	1	E20RD-0.0	2/20/02 02:50 PM	2/21/02 10:40 AM
EVFW1	2	E20RD-1.0	2/20/02 02:55 PM	2/21/02 10:40 AM
EVFW2	3	E20RD-2.0	2/20/02 03:00 PM	2/21/02 10:40 AM
EVFW3	4	E20RD-3.0	2/20/02 03:05 PM	2/21/02 10:40 AM
EVFW4	5	E20RD-6.0	2/20/02 03:10 PM	2/21/02 10:40 AM
EVFW5	6	E20RD-W	2/20/02 03:15 PM	2/21/02 10:40 AM
EVFW7	7	E20RA-0.0	2/20/02 02:00 PM	2/21/02 10:40 AM
EVFW8	8	E20RA-1.0	2/20/02 02:05 PM	2/21/02 10:40 AM
EVFW9	9	E20RA-2.0	2/20/02 02:10 PM	2/21/02 10:40 AM
EVFXA	10	E20RA-3.0	2/20/02 02:15 PM	2/21/02 10:40 AM
EVFXC	11	E20RA-6.0	2/20/02 02:20 PM	2/21/02 10:40 AM
EVFXD	12	E20RC-0.0	2/20/02 03:30 PM	2/21/02 10:40 AM
EVFXE	13	E20RC-1.0	2/20/02 03:35 PM	2/21/02 10:40 AM
EVFXF	14	E20RC-2.0	2/20/02 03:40 PM	2/21/02 10:40 AM
EVFXG	15	E20RC-3.0	2/20/02 03:45 PM	2/21/02 10:40 AM
EVFXH	16	E20RB-0.0	2/20/02 01:00 PM	2/21/02 10:40 AM
EVFXJ	17	E20RB-1.0	2/20/02 01:05 PM	2/21/02 10:40 AM
EVFXK	18	E20RB-2.0	2/20/02 01:10 PM	2/21/02 10:40 AM
EVFXL	19	E20RB-3.0	2/20/02 01:15 PM	2/21/02 10:40 AM
EVFXM	20	E21RA-0.0	2/20/02 08:10 AM	2/21/02 10:40 AM
EVFXN	21	E21RA-1.0	2/20/02 08:15 AM	2/21/02 10:40 AM
EVFXP	22	E21RA-2.0	2/20/02 08:20 AM	2/21/02 10:40 AM
EVFXQ	23	E21RA-3.0	2/20/02 08:25 AM	2/21/02 10:40 AM
EVFXR	24	E21RB-0.0	2/20/02 07:45 AM	2/21/02 10:40 AM
EVFXT	25	E21RB-1.0	2/20/02 07:50 AM	2/21/02 10:40 AM
EVFXV	26	E21RB-2.0	2/20/02 07:55 AM	2/21/02 10:40 AM
EVFXW	27	E21RB-3.0	2/20/02 08:00 AM	2/21/02 10:40 AM
EVFXX	28	E21RB-6.0	2/20/02 08:05 AM	2/21/02 10:40 AM
EVFX0	29	E21RC-0.0	2/20/02 11:30 AM	2/21/02 10:40 AM
EVFX1	30	E21RC-1.0	2/20/02 11:35 AM	2/21/02 10:40 AM
EVFX2	31	E21RC-2.0	2/20/02 11:40 AM	2/21/02 10:40 AM
EVFX3	32	E21RC-3.0	2/20/02 11:45 AM	2/21/02 10:40 AM
EVFX4	33	E21RC-6.0	2/20/02 11:50 AM	2/21/02 10:40 AM
EVFX5	34	E21RC-9.0	2/20/02 11:55 AM	2/21/02 10:40 AM
EVFX6	35	E21RC-12.0	2/20/02 12:00 PM	2/21/02 10:40 AM
EVFX7	36	E21RC-15.0	2/20/02 12:05 PM	2/21/02 10:40 AM
EVFX8	37	E21RD-0.0	2/20/02 10:30 AM	2/21/02 10:40 AM
EVFX9	38	E21RD-1.0	2/20/02 10:35 AM	2/21/02 10:40 AM
EVF0A	39	E21RD-2.0	2/20/02 10:40 AM	2/21/02 10:40 AM
EVF0C	40	E21RD-3.0	2/20/02 10:45 AM	2/21/02 10:40 AM
EVF0D	41	E21RD-6.0	2/20/02 10:50 AM	2/21/02 10:40 AM
EVF0E	42	E21RD-9.0	2/20/02 10:55 AM	2/21/02 10:40 AM

Sample Summary
G2B210310

EVF0F	43	E21RD-12.0	2/20/02 11:00 AM	2/21/02 10:40 AM
EVF0G	44	E21RD-15.0	2/20/02 11:05 AM	2/21/02 10:40 AM
EVF0H	45	E21RD-W	2/20/02 11:15 AM	2/21/02 10:40 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weigh

QC DATA ASSOCIATION SUMMARY

G2B210310

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 7471A		2053230	2053088
	SOLID	SW846 6010B		2053220	2053084
	SOLID	SW846 6010B	P207307	2075164	2075044
002	SOLID	SW846 7471A		2053230	2053088
	SOLID	SW846 6010B		2053220	2053084
003	SOLID	SW846 7471A		2053230	2053088
	SOLID	SW846 6010B		2053220	2053084
004	SOLID	SW846 7471A		2053230	2053088
	SOLID	SW846 6010B		2053220	2053084
005	SOLID	SW846 7471A		2053230	2053088
	SOLID	SW846 6010B		2053220	2053084
	SOLID	SW846 6010B	P207307	2075164	2075044
006	WATER	SW846 8015B		2056300	2056135
	WATER	SW846 7470A		2056200	2056073
	WATER	SW846 8270C		2053404	2053211
	WATER	SW846 6010B		2056351	2056174
	WATER	SW846 8021B		2058415	2058204
007	SOLID	SW846 7471A		2053230	2053088
	SOLID	SW846 6010B		2053220	2053084
	SOLID	SW846 6010B	P207307	2075164	2075044
008	SOLID	SW846 7471A		2053230	2053088
	SOLID	SW846 6010B		2053220	2053084
	SOLID	SW846 6010B	P207307	2073186	2073058
009	SOLID	SW846 7471A		2053230	2053088
	SOLID	SW846 6010B		2053220	2053084
010	SOLID	SW846 7471A		2053230	2053088
	SOLID	SW846 6010B		2053220	2053084
011	SOLID	SW846 7471A		2053230	2053088
	SOLID	SW846 6010B		2053220	2053084
	SOLID	SW846 6010B	P207004	2073186	2073058

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

G2B210310

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
012	SOLID	SW846 6010B		2053220	2053084
	SOLID	SW846 6010B	P207307	2075164	2075044
013	SOLID	SW846 6010B		2053220	2053084
	SOLID	SW846 6010B	P207004	2073186	2073058
014	SOLID	SW846 6010B		2053220	2053084
015	SOLID	SW846 6010B		2053220	2053084
016	SOLID	SW846 6010B		2053220	2053084
	SOLID	SW846 6010B	P207307	2075164	2075044
017	SOLID	SW846 6010B		2053220	2053084
	SOLID	SW846 6010B	P207004	2073186	2073058
018	SOLID	SW846 6010B		2053220	2053084
	SOLID	SW846 6010B	P207307	2075164	2075044
019	SOLID	SW846 6010B		2053220	2053084
020	SOLID	SW846 7471A		2053230	2053088
	SOLID	SW846 6010B		2053220	2053084
	SOLID	SW846 6010B	P207307	2073186	2073058
021	SOLID	SW846 7471A		2053230	2053088
	SOLID	SW846 6010B		2053220	2053084
	SOLID	SW846 6010B	P207307	2073186	2073058
022	SOLID	SW846 7471A		2053230	2053088
	SOLID	SW846 6010B		2053224	2053085
	SOLID	SW846 6010B	P207004	2073186	2073058
023	SOLID	SW846 7471A		2053230	2053088
	SOLID	SW846 6010B		2053224	2053085
	SOLID	SW846 6010B	P207004	2073186	2073058
024	SOLID	SW846 6010B		2053224	2053085
	SOLID	SW846 6010B	P207501	2078312	2078162
025	SOLID	SW846 6010B		2053224	2053085
	SOLID	SW846 6010B	P207004	2073186	2073058

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

G2B210310

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
026	SOLID	SW846 6010B		2053224	2053085
	SOLID	SW846 6010B	P207004	2073186	2073058
027	SOLID	SW846 6010B		2053224	2053085
028	SOLID	SW846 6010B		2053224	2053085
029	SOLID	SW846 6010B		2053224	2053085
	SOLID	SW846 6010B	P207004	2073186	2073058
030	SOLID	SW846 6010B		2053224	2053085
031	SOLID	SW846 6010B		2053224	2053085
032	SOLID	SW846 6010B		2053224	2053085
033	SOLID	SW846 6010B		2053224	2053085
034	SOLID	SW846 6010B		2053224	2053085
035	SOLID	SW846 6010B		2053224	2053085
036	SOLID	SW846 6010B		2053224	2053085
037	SOLID	SW846 7471A		2053230	2053088
	SOLID	SW846 6010B		2053224	2053085
	SOLID	SW846 6010B	P207501	2078312	2078162
038	SOLID	SW846 7471A		2053230	2053088
	SOLID	SW846 6010B		2053224	2053085
039	SOLID	SW846 7471A		2053179	2053062
	SOLID	SW846 6010B		2053173	2053061
040	SOLID	SW846 7471A		2053179	2053062
	SOLID	SW846 6010B		2053173	2053061
041	SOLID	SW846 7471A		2053179	2053062
	SOLID	SW846 6010B		2053173	2053061
042	SOLID	SW846 7471A		2053179	2053062
	SOLID	SW846 6010B		2053173	2053061

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

G2B210310

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
043	SOLID	SW846 7471A		2053179	2053062
	SOLID	SW846 6010B		2053173	2053061
044	SOLID	SW846 7471A		2053179	2053062
	SOLID	SW846 6010B		2053173	2053061
045	WATER	SW846 8015B		2056300	2056135
	WATER	SW846 7470A		2056200	2056073
	WATER	SW846 8270C		2053404	2053211
	WATER	SW846 6010B		2056351	2056174
	WATER	SW846 8021B		2058415	2058204

[redacted]

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc

TL-4124 (1200)

Client: PSI	Project Manager: FRANK POSS	Date: 2/20/02	Chain of Custody Number: 102104
Address: 4703 TIDEWATER AVE, STE B	Telephone Number (Area Code)/Fax Number: (510) 434-9200 / 434-7676	Lab Number: G2B210310	Page 1 of 4
City: OAKLAND State: CA Zip Code: 94601	Site Contact:	Lab Contact:	
Project Name and Location (State): CALTRANS - OAKLAND MOLE	Carrier/Waybill Number: 8318 0730 7971		
Contract/Purchase Order/Quote No.: 575-26004			

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	
E20RD-0.0	2/20/02	14:50				X		1						
E20RD-1.0		14:55				X		1						
E20RD-2.0		15:00				X		1						
-3.0		15:05				X		1						
-6.0		15:10				X		1						
-W		15:15		X				4			4			
E20RA-0.0		14:00				X		1						
-1.0		14:05				X		1						
-2.0		14:10				X		1						
-3.0		14:15				X		1						
-6.0		14:20				X		1						
E20RC-0.0		15:30				X		1						

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [X] Other STANDARD

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: BRAND BURFORD	2/20/02	18:00	1. Received By: FED EX		
2. Relinquished By:			2. Received By: ele-C	2/21/02	10:40
3. Relinquished By:			3. Received By:		

Comments:

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

STL Sacramento 916-373-5600

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc

TL-4124 (1200)

Client: PSI	Project Manager: FRANK ROSS	Date: 2/20/02	Chain of Custody Number: 102105
Address	Telephone Number (Area Code)/Fax Number	Lab Number: G2B210310	Page 2 of 4
City / State / Zip Code	Site Contact / Lab Contact		
Project Name and Location (State): CALTRANS (CT) - OAKLAND MOSE	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 575-2G004			

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH
E20RC-1.0	2/20/02	15:35				X	1					
-2.0		15:40				X	1					
-3.0		15:45				X	1					
E20RB-0.0		13:00				X	1					
-1.0		13:05				X	1					
-2.0		13:10				X	1					
-3.0		13:15				X	1					
E21RA-0.0		8:10				X	1					
-1.0		8:15				X	1					
-2.0		8:20				X	1					
-3.0		8:25				X	1					
E21RB-0.0		7:45				X	1					

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other STD.

QC Requirements (Specify)

	Date	Time
1. Relinquished By	2/20/02	18:00
2. Relinquished By		
3. Relinquished By		

	Date	Time
1. Received By: FED EX		
2. Received By: [signature]	2/21/02	10:40 A
3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc

STL-4124 (1200)

Client: PSI	Project Manager: FRANK POSS	Date: 2/20/02	Chain of Custody Number: 102106
Address	Telephone Number (Area Code)/Fax Number	Lab Number: G2B210310	Page 3 of 4
City / State / Zip Code	Site Contact / Lab Contact		
Project Name and Location (State): (CT) CALTRANS - OAKLAND MOSE	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 575-2G004			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt
E21RB-1.0	2/20/02	7:50				X	1							
-2.0		7:55				X	1							
-3.0		8:00				X	1							
-6.0		8:05				X	1							
E21RC-0.0		11:30				X	1							
-1.0		11:35				X	1							
-2.0		11:40				X	1							
-3.0		11:45				X	1							
-6.0		11:50				X	1							
-9.0		11:55				X	1							
-12.0		12:00				X	1							
-15.0		12:05				X	1							

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other STD.

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	2/20/02	18:00	1. Received By: FED EX		
2. Relinquished By			2. Received By: Ch. C.	2/21/02	10.40
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc

TL-4124 (1200)

Client: PSI	Project Manager: FRANK POSS	Date: 2/20/02	Chain of Custody Number: 102107
Address	Telephone Number (Area Code)/Fax Number	Lab Number: G2B210310	Page 4 of 4
City / State / Zip Code	Site Contact / Lab Contact		
Project Name and Location (State): CT) CALTRANS - OAKLAND MOLE	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 575-2G004			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH	Special Instructions/ Conditions of Receipt
=21RD-0.0	2/20/02	10:30				X		1						
-1.0		10:35				X		1						
-2.0		10:40				X		1						
-3.0		10:45				X		1						
-6.0		10:50				X		1						
-9.0		10:55				X		1						
-12.0		11:00				X		1						
-15.0		11:05				X		1						
-W		11:15	X					4			4			

Analysis (Attach list if more space is needed)

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other STANDARD

QC Requirements (Specify)

1. Relinquished By	Date: 2/20/02	Time: 18:00	1. Received By: FED EX	Date	Time
2. Relinquished By	Date	Time	2. Received By: [signature]	Date: 2/21/02	Time: 10:40
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

[redacted]

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc

STL-4124 (1200)

Client: PSI	Project Manager: FRANK ROSS	Date: 2/20/02	Chain of Custody Number: 102104
Address: 4703 TIDEWATER AVE, STE B	Telephone Number (Area Code)/Fax Number: (510) 434-9200 / 434-7676	Lab Number:	Page 1 of 4
City: OAKLAND; State: CA; Zip Code: 94601	Site Contact:	Lab Contact:	
Project Name and Location (State): CALTRANS - OAKLAND MOLE	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 575-26004			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Pb-EPA 6010	CAM M-EPA 6010/7471	TPHd-EPA 8015M	TPHg-EPA 8015M	TPHmo-EPA 8015M	VOC's-EPA 8260	SVOC's-EPA 8270	PAH's-EPA 8100	PESTICIDES-EPA 8081	PCB's-EPA 8082	Special Instructions/ Conditions of Receipt
E20RD-0.0	2/20/02	14:50				X	1							X									
E20RD-1.0		14:55				X	1							X									
E20RD-2.0		15:00				X	1							X									
-3.0		15:05				X	1							X									
-6.0		15:10				X	1							X									
-W		15:15		X			4			4				X	X	X	X		X				
E20RA-0.0		14:00				X	1							X									
-1.0		14:05				X	1							X									
-2.0		14:10				X	1							X									
-3.0		14:15				X	1							X									
-6.0		14:20				X	1							X									
E20RC-0.0		15:30				X	1						X										

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other STANDARD

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: [signature] BRAND BURFIELD	2/20/02	18:00	1. Received By: FED EX		
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc

FL-4124 (1200)

Client	PSI
Address	4703 TIDEWATER AVE, SUITE B
City	OAKLAND
State	CA
Zip Code	94601
Project Manager	FRANK ROSS
Telephone Number (Area Code)/Fax Number	510-434-9200 510-434-7676
Site Contact	BRANO BURGIECO
Lab Contact	
Carrier/Waybill Number	
Project Name and Location (State)	CALTRANS (CT) - OAKLAND MOE
Contract/Purchase Order/Quote No.	575-2G004
Date	2/20/02
Chain of Custody Number	102105
Lab Number	
Page	2 of 4

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Pb - EPA 6010	CAM 17 - EPA 6010/7471	TPH4 - EPA 8015M	TPHg - EPA 8015A	TPHdiesel - EPA 8015A	VOCs - EPA 8260	SVOCs - EPA 8270	PAH's - EPA 8100	Pesticides - EPA 8081	PCB's - EPA 8082	Special Instructions/ Conditions of Receipt
E20RC - 1.0	2/20/02	15:35				X	1						X										
- 2.0		15:40				X	1						X										
- 3.0		15:45				X	1						X										
E20RB - 0.0		13:00				X	1						X										
- 1.0		13:05				X	1						X										
- 2.0		13:10				X	1						X										
- 3.0		13:15				X	1						X										
E21RA - 0.0		8:10				X	1							X									
- 1.0		8:15				X	1							X									
- 2.0		8:20				X	1							X									
- 3.0		8:25				X	1							X									
E21RB - 0.0		7:45				X	1						X										

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other STD.

QC Requirements (Specify)

	Date	Time
Relinquished By	2/20/02	18:00
Relinquished By		
Relinquished By		

	Date	Time
1. Received By: FED EX		
2. Received By		
3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

[redacted]

Chain of Custody Record

STL-4124 (1200)

SEVERN TRENT SERVICES

Severn Trent Laboratories, In

Client: PSI	Project Manager: FRANK POSS	Date: 2/20/02	Chain of Custody Number: 102106
Address: 4703 TIDEWATER AVE, SUITE B	Telephone Number (Area Code)/Fax Number: 510-434-9200 510 434-7676	Lab Number	Page 3 of 4
City: OAKLAND; State: CA; Zip Code: 94601	Site Contact: BRAND BURSFIELD	Lab Contact	
Project Name and Location (State): (CT) CALTRANS - OAKLAND MOSE	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 575-2G004			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Pb - EPA 6010	CAM 17 - EPA 6010, 7471	TPHd - EPA 8015M	TPHg - EPA 8015M	TPHmg - EPA 8015M	VOC's - EPA 8260	SVOC's - EPA 8270	PAH's - EPA 8100	PESTICIDES - EPA 8081	PCB's - EPA 8082			Special Instructions/ Conditions of Receipt
E21RB-1.0	2/20/02	7:50				X	1						X												
-2.0		7:55				X	1						X												
-3.0		8:00				X	1						X												
-6.0		8:05				X	1						X												
E21RC-0.0		11:30				X	1						X												
-1.0		11:35				X	1						X												
-2.0		11:40				X	1						X												
-3.0		11:45				X	1						X												
-6.0		11:50				X	1						X												
-9.0		11:55				X	1						X												
-12.0		12:00				X	1						X												
-15.0		12:05				X	1						X												

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other STD.

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	2/20/02	18:00	1. Received By: FED EX		
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

TL-4124 (1200)

Client	PSI
Address	703 EDEWATER AVE, SUITE B
City	OAKLAND
State	CA
Zip Code	94601
Project Manager	FRANK POSS
Telephone Number (Area Code)/Fax Number	510-434-9200 510-434-7676
Site Contact	BRAND BURKFIELD
Lab Contact	
Carrier/Waybill Number	
Date	2/20/02
Chain of Custody Number	102107
Lab Number	
Page	4 of 4
Project Name and Location (State)	CT) CALPINE - OAKLAND MOLE
Contract/Purchase Order/Quote No.	575-2G004

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Pb - EPA 6010	CAM 17 - EPA 6010, 7471	TPH - EPA 8015m	TPH - EPA 8015m	TPH - EPA 8015m	VOCs - EPA 8260	SVOCs - EPA 8270	PAHs - EPA 8100	Pesticides - EPA 8081	PCBs - EPA 8082	Special Instructions/ Conditions of Receipt
21RD-0.0	2/20/02	10:30				X	1							X									
-1.0		10:35				X	1							X									
-2.0		10:40				X	1							X									
-3.0		10:45				X	1							X									
-6.0		10:50				X	1							X									
-9.0		10:55				X	1							X									
-12.0		11:00				X	1							X									
-15.0		11:05				X	1							X									
-W		11:15	X				4			4				X	X	X	X		X				

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other STANDARD

QC Requirements (Specify)

Relinquished By	Date 2/20/02	Time 18:00	1. Received By FED EX	Date	Time
Relinquished By	Date	Time	2. Received By	Date	Time
Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc

STL-4124 (1200)

Client: PSI	Project Manager: FRANK ROSS.	Date: 2/20/02	Chain of Custody Number: 102104
Address: 4703 TIDEWATER AVE, STE B	Telephone Number (Area Code)/Fax Number: (510) 434-9200 / 434-7676	Lab Number: G2B210310	Page 1 of 4
City: OAKLAND State: CA Zip Code: 94601	Site Contact:	Lab Contact:	
Project Name and Location (State): CALTRANS - OAKLAND MOLE	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 575-26004			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Pb - EPA 6010	CAM 17 - EPA 6010	TPH d - EPA 8015M	TPH g - EPA 8015M	TPH mo - EPA 8015M	VOC's - EPA 8260	SVOC's - EPA 8270	PAH's - EPA 8100	PESTICIDES - EPA 8081	PCB's - EPA 8082	VOC/MTBE EPA 8015	Special Instructions/ Conditions of Receipt
E20RD-0.0	2/20/02	14:50				X	1							X										
E20RD-1.0		14:55				X	1							X										
E20RD-2.0		15:00				X	1							X										
-3.0		15:05				X	1							X										
-6.0		15:10				X	1							X										
-W		15:15	X				4			4				X	X	X	X		X				X	SILICA GEL CLEAN UP REQ'D
E20RA-0.0		14:00				X	1							X										
-1.0		14:05				X	1							X										
-2.0		14:10				X	1							X										
-3.0		14:15				X	1							X										
-6.0		14:20				X	1							X										
E20RC-0.0		15:30				X	1						X											

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: [ ] 24 Hours [X] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [X] Other STANDARD

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: BRAND BURPEED	2/20/02	18:00	1. Received By: FED EX		
2. Relinquished By:			2. Received By:		
3. Relinquished By:			3. Received By:		

Comments:

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (1200)

Client: PSI	Project Manager: FRANK POSS	Date: 2/20/02	Chain of Custody Number: 102105
Address: 4703 TIDEWATER AVE, SUITE B	Telephone Number (Area Code)/Fax Number: 510-434-9200 510-434-7676	Lab Number: G2B210310	Page 2 of 4
City: OAKLAND State: CA Zip Code: 94601	Site Contact: BRAND BURGFIELD	Lab Contact:	
Project Name and Location (State): CALTRANS (CT) - OAKLAND MOE	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 575-2G004			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Pb - EPA 6010	Cam 17 - EPA 6010/7471	TPH-d - EPA 8015M	TPH-g - EPA 8015M	TPH-mo - EPA 8015M	VOCs - EPA 8260	SVOCs - EPA 8270	PAH's - EPA 8100	PESTICIDES - EPA 8081	PCB's - EPA 8082	Special Instructions/ Conditions of Receipt
E20RC - 1.0	2/20/02	15:35				X	1						X										
- 2.0		15:40				X	1						X										
- 3.0		15:45				X	1						X										
E20RB - 0.0		13:00				X	1						X										
- 1.0		13:05				X	1						X										
- 2.0		13:10				X	1						X										
- 3.0		13:15				X	1						X										
E21RA - 0.0		8:10				X	1							X									
- 1.0		8:15				X	1							X									
- 2.0		8:20				X	1							X									
- 3.0		8:25				X	1							X									
E21RB - 0.0		7:45				X	1						X										

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other STD.

QC Requirements (Specify):

Relinquished By: [signature]	Date: 2/20/02	Time: 18:00	1. Received By: FED EX	Date:	Time:
Relinquished By:	Date:	Time:	2. Received By:	Date:	Time:
Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments:

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

[redacted]

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc

IL-4124 (1200)

Client: PSI	Project Manager: FRANK POSS	Date: 2/20/02	Chain of Custody Number: 102106
Address: 4703 TIDEWATER AVE, SUITE B	Telephone Number (Area Code)/Fax Number: 510-434-9200 510 434-7676	Lab Number: 92B210310	Page 3 of 4
City: OAKLAND; State: CA; Zip Code: 94601	Site Contact: BRAND BURFIELD; Lab Contact:		
Project Name and Location (State): (CT) CALTRANS-OAKLAND MOLE	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 575-2G004			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Pb - EPA 6010	CAM 17 - EPA 6010, 7471	TPAd - EPA 8015M	TPAg - EPA 8015M	TPAmo - EPA 8015M	VOC's - EPA 8260	SVOC's - EPA 8270	PAH's - EPA 8100	PESTICIDES - EPA 8081	PCB's - EPA 8082	Special Instructions/ Conditions of Receipt
E21RB-1.0	2/20/02	7:50				X	1						X										
-2.0		7:55				X	1						X										
-3.0		8:00				X	1						X										
-6.0		8:05				X	1						X										
E21RC-0.0		11:30				X	1						X										
-1.0		11:35				X	1						X										
-2.0		11:40				X	1						X										
-3.0		11:45				X	1						X										
-6.0		11:50				X	1						X										
-9.0		11:55				X	1						X										
-12.0		12:00				X	1						X										
-15.0		12:05				X	1						X										

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other STD.

QC Requirements (Specify)

Relinquished By	Date	Time	1. Received By	Date	Time
[signature]	2/20/02	18:00	FED EX		
Relinquished By	Date	Time	2. Received By	Date	Time
Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

[redacted]

hain of ustody Record

-4124 (1200)

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

ent: PSI	Project Manager: FRANK POSS	Date: 2/20/02	Chain of Custody Number: 102107
dress: 103 TIDEWATER AVE, SUITE B	Telephone Number (Area Code)/Fax Number: 510-434-9200 510-434-7676	Lab Number: G2B210310	Page 4 of 4
y: OAKLAND; State: CA; Zip Code: 94601	Site Contact: BRAND BURFIELD; Lab Contact:		
ject Name and Location (State): CT CALTRANS - OAKLAND MOLE	Carrier/Waybill Number:		
ntract/Purchase Order/Quote No.: 575-2G004			

Sample I.D. No. and Description (ntainers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): PB - EPA 6010	CAM 17 - EPA 6010, 7471	TPHd - EPA 8015m	TPHg - EPA 8015m	TPHmo - EPA 8015m	VOCs - EPA 8260	SVOCs - EPA 8270	PAHs - EPA 8100	PESTICIDES - EPA 8081	PCBs - EPA 8082	BTEX/MTBE EPA 8015	Special Instructions/ Conditions of Receipt
21RD-0.0	2/20/02	10:30				X	1							X										
-1.0		10:35				X	1							X										
-2.0		10:40				X	1							X										
-3.0		10:45				X	1							X										
-6.0		10:50				X	1							X										
-9.0		10:55				X	1							X										
-12.0		11:00				X	1							X										
-15.0		11:05				X	1							X										
-W		11:15		X			4			4				X	X	X	X		X				X	SILICA GEL CLEAN UP FOR 8015

sible Hazard Identification: Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

n Around Time Required: 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other STANDARD

QC Requirements (Specify)

	Date	Time		Date	Time
Relinquished By: [signature]	2/20/02	18:00	1. Received By: FED EX		
Relinquished By			2. Received By		
Relinquished By			3. Received By		

nments

TRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER, SOLID
6010B, 7470A, 7471A
Metals

PSI INC

Client Sample ID: E20RD-0.0

TOTAL Metals

Lot-Sample #...: G2B210310-001
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053220						
Arsenic	4.1	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW01AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW01AD
Barium	110	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW01AE
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW01AF
Chromium	44.1	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW01AG
Beryllium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW01AH
Lead	113	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW01AJ
Selenium	0.83	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW01AK
Silver	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW01AL
Cobalt	9.1	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW01AM
Copper	30.5	2.5	mg/kg	SW846 6010B	02/22-02/23/02	EVFW01AN
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW01AP
Nickel	40.2	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW01AQ
Thallium	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW01AR
Vanadium	50.1	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW01AT
Zinc	70.5	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW01AU
Prep Batch #...: 2053230						
Mercury	0.17	0.10	mg/kg	SW846 7471A	02/22/02	EVFW01AA

PSI INC

Client Sample ID: E20RD-0.0

STLC Metals

Lot-Sample #...: G2B210310-001
Date Sampled...: 02/20/02
Leach Date.....: 03/14/02

Date Received..: 02/21/02
Leach Batch #..: P207307

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2075164						
Lead	ND	1.0	mg/L	SW846 6010B	03/16-03/18/02	EVFW01C1

NOTE(S):

Soluable Threshold Limit Concentration (STLC) done in accordance with App II: Waste Extraction procedures. CCR Title 22.

PSI INC

Client Sample ID: E20RD-1.0

TOTAL Metals

Lot-Sample #...: G2B210310-002
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053220						
Arsenic	3.7	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW11AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW11AD
Barium	118	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW11AE
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW11AF
Chromium	21.9	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW11AG
Beryllium	0.89	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW11AH
Lead	10.5	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW11AJ
Selenium	0.72	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW11AK
Silver	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW11AL
Cobalt	5.1	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW11AM
Copper	11.2	2.5	mg/kg	SW846 6010B	02/22-02/23/02	EVFW11AN
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW11AP
Nickel	22.1	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW11AQ
Thallium	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW11AR
Vanadium	35.5	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW11AT
Zinc	40.4	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW11AU
Prep Batch #...: 2053230						
Mercury	0.10	0.10	mg/kg	SW846 7471A	02/22/02	EVFW11AA

PSI INC

Client Sample ID: E20RD-2.0

TOTAL Metals

Lot-Sample #...: G2B210310-003
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053220						
Arsenic	4.9	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW21AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW21AD
Barium	90.7	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW21AE
Cadmium	0.62	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW21AF
Chromium	39.2	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW21AG
Beryllium	0.52	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW21AH
Lead	47.0	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW21AJ
Selenium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW21AK
Silver	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW21AL
Cobalt	6.7	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW21AM
Copper	21.1	2.5	mg/kg	SW846 6010B	02/22-02/23/02	EVFW21AN
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW21AP
Nickel	36.7	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW21AQ
Thallium	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW21AR
Vanadium	37.3	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW21AT
Zinc	44.4	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW21AU
Prep Batch #...: 2053230						
Mercury	ND	0.10	mg/kg	SW846 7471A	02/22/02	EVFW21AA

PSI INC

Client Sample ID: E20RD-3.0

TOTAL Metals

Lot-Sample #...: G2B210310-004
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053220						
Arsenic	3.4	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW31AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW31AD
Barium	76.6	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW31AE
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW31AF
Chromium	41.2	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW31AG
Beryllium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW31AH
Lead	32.9	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW31AJ
Selenium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW31AK
Silver	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW31AL
Cobalt	5.4	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW31AM
Copper	15.4	2.5	mg/kg	SW846 6010B	02/22-02/23/02	EVFW31AN
Molybdenum	4.5	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW31AP
Nickel	34.8	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW31AQ
Thallium	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW31AR
Vanadium	28.5	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW31AT
Zinc	37.2	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW31AU
Prep Batch #...: 2053230						
Mercury	ND	0.10	mg/kg	SW846 7471A	02/22/02	EVFW31AA

PSI INC

Client Sample ID: E20RD-6.0

TOTAL Metals

Lot-Sample #...: G2B210310-005
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053220						
Arsenic	3.9	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW41AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW41AD
Barium	70.3	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW41AE
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW41AF
Chromium	54.4	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW41AG
Beryllium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW41AH
Lead	20.0	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW41AJ
Selenium	1.8	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW41AK
Silver	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW41AL
Cobalt	ND	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW41AM
Copper	15.3	2.5	mg/kg	SW846 6010B	02/22-02/23/02	EVFW41AN
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW41AP
Nickel	32.4	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW41AQ
Thallium	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW41AR
Vanadium	29.0	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW41AT
Zinc	28.4	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW41AU
Prep Batch #...: 2053230						
Mercury	ND	0.10	mg/kg	SW846 7471A	02/22/02	EVFW41AA

PSI INC

Client Sample ID: E20RD-6.0

STLC Metals

Lot-Sample #...: G2B210310-005
Date Sampled...: 02/20/02
Leach Date.....: 03/14/02

Date Received..: 02/21/02
Leach Batch #..: P207307

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2075164						
Chromium	0.47	0.10	mg/L	SW846 6010B	03/16-03/18/02	EVFW41AV

NOTE(S):

Soluable Threshold Limit Concentration (STLC) done in accordance with App II: Waste Extraction procedures. CCR Title 22.

PSI INC

Client Sample ID: E20RD-W

TOTAL Metals

Lot-Sample #...: G2B210310-006
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2056200						
Mercury	ND	0.00020	mg/L	SW846 7470A	02/26-02/27/02	EVFW51AD
Prep Batch #...: 2056351						
Arsenic	ND	0.010	mg/L	SW846 6010B	02/25-02/26/02	EVFW51AE
Antimony	ND	0.060	mg/L	SW846 6010B	02/25-02/26/02	EVFW51AF
Barium	**0.38**	**0.020**	**mg/L**	**SW846 6010B**	**02/25-02/26/02**	**EVFW51AG**
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/25-02/26/02	EVFW51AH
Chromium	ND	0.010	mg/L	SW846 6010B	02/25-02/26/02	EVFW51AJ
Beryllium	ND	0.0050	mg/L	SW846 6010B	02/25-02/26/02	EVFW51AK
Lead	ND	0.0050	mg/L	SW846 6010B	02/25-02/26/02	EVFW51AL
Selenium	ND	0.0050	mg/L	SW846 6010B	02/25-02/26/02	EVFW51AM
Silver	ND	0.010	mg/L	SW846 6010B	02/25-02/26/02	EVFW51AN
Cobalt	ND	0.050	mg/L	SW846 6010B	02/25-02/26/02	EVFW51AP
Copper	ND	0.025	mg/L	SW846 6010B	02/25-02/26/02	EVFW51AQ
Molybdenum	ND	0.040	mg/L	SW846 6010B	02/25-02/26/02	EVFW51AR
Nickel	ND	0.040	mg/L	SW846 6010B	02/25-02/26/02	EVFW51AT
Thallium	ND	0.010	mg/L	SW846 6010B	02/25-02/26/02	EVFW51AU
Vanadium	ND	0.050	mg/L	SW846 6010B	02/25-02/26/02	EVFW51AV
Zinc	ND	0.020	mg/L	SW846 6010B	02/25-02/26/02	EVFW51AW

PSI INC

Client Sample ID: E20RA-0.0

TOTAL Metals

Lot-Sample #...: G2B210310-007
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053220						
Arsenic	8.3	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW71AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW71AD
Barium	413	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW71AE
Cadmium	1.2	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW71AF
Chromium	144	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW71AG
Beryllium	1.1	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW71AH
Lead	20.9	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW71AJ
Selenium	1.1	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW71AK
Silver	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW71AL
Cobalt	34.3	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW71AM
Copper	32.8	2.5	mg/kg	SW846 6010B	02/22-02/23/02	EVFW71AN
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW71AP
Nickel	136	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW71AQ
Thallium	1.0	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW71AR
Vanadium	111	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW71AT
Zinc	164	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW71AU
Prep Batch #...: 2053230						
Mercury	ND	0.10	mg/kg	SW846 7471A	02/22/02	EVFW71AA

PSI INC

Client Sample ID: E20RA-0.0

STLC Metals

Lot-Sample #...: G2B210310-007
Date Sampled...: 02/20/02
Leach Date.....: 03/14/02
Date Received..: 02/21/02
Leach Batch #..: P207307
Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2075164						
Chromium	0.22	0.10	mg/L	SW846 6010B	03/16-03/18/02	EVFW71AV

NOTE(S):

Soluable Threshold Limit Concentration (STLC) done in accordance with App II: Waste Extraction procedures. CCR Title 22.

PSI INC

Client Sample ID: E20RA-1.0

TOTAL Metals

Lot-Sample #...: G2B210310-008
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053220						
Arsenic	9.6	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW81AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW81AD
Barium	310	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW81AE
Cadmium	1.4	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW81AF
Chromium	64.2	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW81AG
Beryllium	0.71	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW81AH
Lead	553	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW81AJ
Selenium	1.6	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW81AK
Silver	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW81AL
Cobalt	11.1	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW81AM
Copper	201	2.5	mg/kg	SW846 6010B	02/22-02/23/02	EVFW81AN
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW81AP
Nickel	68.0	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW81AQ
Thallium	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW81AR
Vanadium	55.6	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW81AT
Zinc	470	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW81AU
Prep Batch #...: 2053230						
Mercury	0.65	0.10	mg/kg	SW846 7471A	02/22/02	EVFW81AA

PSI INC

Client Sample ID: E20RA-1.0

STLC Metals

Lot-Sample #...: G2B210310-008
Date Sampled...: 02/20/02
Leach Date.....: 03/11/02

Date Received..: 02/21/02
Leach Batch #..: P207307

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2073186						
Chromium	0.21	0.10	mg/L	SW846 6010B	03/14-03/15/02	EVFW81AV
Lead	9.9	1.0	mg/L	SW846 6010B	03/14-03/15/02	EVFW81AW

NOTE(S):

Soluable Threshold Limit Concentration (STLC) done in accordance with App II: Waste Extraction procedures. CCR Title 22.

PSI INC

Client Sample ID: E20RA-2.0

TOTAL Metals

Lot-Sample #...: G2B210310-009
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053220						
Arsenic	3.5	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW91AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW91AD
Barium	172	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW91AE
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW91AF
Chromium	39.8	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW91AG
Beryllium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW91AH
Lead	48.3	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW91AJ
Selenium	1.1	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFW91AK
Silver	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW91AL
Cobalt	9.5	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW91AM
Copper	28.5	2.5	mg/kg	SW846 6010B	02/22-02/23/02	EVFW91AN
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW91AP
Nickel	56.7	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW91AQ
Thallium	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW91AR
Vanadium	55.5	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW91AT
Zinc	78.3	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFW91AU
Prep Batch #...: 2053230						
Mercury	ND	0.10	mg/kg	SW846 7471A	02/22/02	EVFW91AA

PSI INC

Client Sample ID: E20RA-3.0

TOTAL Metals

Lot-Sample #...: G2B210310-010
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053220						
Arsenic	3.4	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXA1AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXA1AD
Barium	117	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXA1AE
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXA1AF
Chromium	32.6	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXA1AG
Beryllium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXA1AH
Lead	13.8	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXA1AJ
Selenium	1.2	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXA1AK
Silver	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXA1AL
Cobalt	6.3	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXA1AM
Copper	18.2	2.5	mg/kg	SW846 6010B	02/22-02/23/02	EVFXA1AN
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXA1AP
Nickel	36.1	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXA1AQ
Thallium	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXA1AR
Vanadium	49.9	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXA1AT
Zinc	48.3	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXA1AU
Prep Batch #...: 2053230						
Mercury	ND	0.10	mg/kg	SW846 7471A	02/22/02	EVFXA1AA

PSI INC

Client Sample ID: E20RA-6.0

TOTAL Metals

Lot-Sample #...: G2B210310-011
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053220						
Arsenic	2.3	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXC1AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXC1AD
Barium	74.1	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXC1AE
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXC1AF
Chromium	49.8	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXC1AG
Beryllium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXC1AH
Lead	59.7	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXC1AJ
Selenium	1.3	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXC1AK
Silver	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXC1AL
Cobalt	8.6	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXC1AM
Copper	18.5	2.5	mg/kg	SW846 6010B	02/22-02/23/02	EVFXC1AN
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXC1AP
Nickel	44.7	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXC1AQ
Thallium	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXC1AR
Vanadium	43.4	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXC1AT
Zinc	58.2	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXC1AU
Prep Batch #...: 2053230						
Mercury	ND	0.10	mg/kg	SW846 7471A	02/22/02	EVFXC1AA

PSI INC

Client Sample ID: E20RA-6.0

STLC Metals

Lot-Sample #...: G2B210310-011
Date Sampled...: 02/20/02
Leach Date.....: 03/11/02

Date Received..: 02/21/02
Leach Batch #..: P207004

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2073186						
Lead	4.5	1.0	mg/L	SW846 6010B	03/14-03/15/02	EVFXC1AV

NOTE(S):

Soluable Threshold Limit Concentration (STLC) done in accordance with App II: Waste Extraction procedures. CCR Title 22.

PSI INC

Client Sample ID: E20RC-0.0

TOTAL Metals

Lot-Sample #...: G2B210310-012
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053220						
Lead	87.8	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXD1AA

PSI INC

Client Sample ID: E20RC-0.0

STLC Metals

Lot-Sample #...: G2B210310-012
Date Sampled...: 02/20/02
Leach Date.....: 03/14/02

Date Received..: 02/21/02
Leach Batch #..: P207307

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2075164						
Lead	5.5	1.0	mg/L	SW846 6010B	03/16-03/18/02	EVFXD1AC

NOTE(S):

Soluable Threshold Limit Concentration (STLC) done in accordance with App II: Waste Extraction procedures. CCR Title 22.

PSI INC

Client Sample ID: E20RC-1.0

TOTAL Metals

Lot-Sample #...: G2B210310-013
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053220						
Lead	235	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXE1AA

PSI INC

Client Sample ID: E20RC-1.0

STLC Metals

Lot-Sample #...: G2B210310-013
Date Sampled...: 02/20/02
Leach Date.....: 03/11/02

Date Received..: 02/21/02
Leach Batch #..: P207004

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2073186						
Lead	8.2	1.0	mg/L	SW846 6010B	03/14-03/15/02	EVFXE1AC

NOTE(S):

Soluable Threshold Limit Concentration (STLC) done in accordance with App II: Waste Extraction procedures. CCR Title 22.

PSI INC

Client Sample ID: E20RC-2.0

TOTAL Metals

Lot-Sample #...: G2B210310-014
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053220						
Lead	28.1	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXF1AA

PSI INC

Client Sample ID: E20RC-3.0

TOTAL Metals

Lot-Sample #...: G2B210310-015
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053220						
Lead	30.5	0.50	mg/kg	SW846 6010B	02/22-02/23/02	KVFXG1AA

PSI INC

Client Sample ID: E20RB-0.0

TOTAL Metals

Lot-Sample #...: G2B210310-016
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053220						
Lead	271	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXH1AA

PSI INC

Client Sample ID: E20RB-0.0

STLC Metals

Lot-Sample #...: G2B210310-016
Date Sampled...: 02/20/02
Leach Date.....: 03/14/02

Date Received..: 02/21/02
Leach Batch #..: P207307

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2075164						
Lead	ND	1.0	mg/L	SW846 6010B	03/16-03/18/02	EVFXH1AC

NOTE(S):

Soluable Threshold Limit Concentration (STLC) done in accordance with App II: Waste Extraction procedures. CCR Title 22.

PSI INC

Client Sample ID: E20RB-1.0

TOTAL Metals

Lot-Sample #...: G2B210310-017
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053220						
Lead	255	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXJ1AA

PSI INC

Client Sample ID: E20RB-1.0

STLC Metals

Lot-Sample #...: G2B210310-017
Date Sampled...: 02/20/02
Leach Date.....: 03/11/02

Date Received..: 02/21/02
Leach Batch #..: P207004

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2073186						
Lead	12.5	1.0	mg/L	SW846 6010B	03/14-03/15/02	EVFXJ1AC

NOTE(S):

Soluable Threshold Limit Concentration (STLC) done in accordance with App II: Waste Extraction procedures. CCR Title 22.

PSI INC

Client Sample ID: E20RB-2.0

TOTAL Metals

Lot-Sample #...: G2B210310-018
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053220						
Lead	143	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXK1AA

PSI INC

Client Sample ID: E20RB-2.0

STLC Metals

Lot-Sample #...: G2B210310-018
Date Sampled...: 02/20/02
Leach Date.....: 03/14/02

Date Received..: 02/21/02
Leach Batch #..: P207307

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2075164						
Lead	10	1.0	mg/L	SW846 6010B	03/16-03/18/02	EVFXK1AC

NOTE(S):

Soluable Threshold Limit Concentration (STLC) done in accordance with App II: Waste Extraction procedures. CCR Title 22.

PSI INC

Client Sample ID: E20RB-3.0

TOTAL Metals

Lot-Sample #...: G2B210310-019
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053220						
Lead	40.0	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXL1AA

PSI INC

Client Sample ID: E21RA-0.0

TOTAL Metals

Lot-Sample #...: G2B210310-020
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053220						
Arsenic	6.4	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXM1AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXM1AD
Barium	157	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXM1AE
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXM1AF
Chromium	57.0	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXM1AG
Beryllium	0.61	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXM1AH
Lead	398	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXM1AJ
Selenium	1.4	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXM1AK
Silver	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXM1AL
Cobalt	9.9	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXM1AM
Copper	77.1	2.5	mg/kg	SW846 6010B	02/22-02/23/02	EVFXM1AN
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXM1AP
Nickel	38.9	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXM1AQ
Thallium	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXM1AR
Vanadium	46.2	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXM1AT
Zinc	208	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXM1AU
Prep Batch #...: 2053230						
Mercury	0.57	0.10	mg/kg	SW846 7471A	02/22/02	EVFXM1AA

PSI INC

Client Sample ID: E21RA-0.0

STLC Metals

Lot-Sample #...: G2B210310-020
Date Sampled...: 02/20/02
Leach Date.....: 03/11/02

Date Received..: 02/21/02
Leach Batch #..: P207307

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2073186						
Chromium	ND	0.10	mg/L	SW846 6010B	03/14-03/15/02	EVFXM1AV
Lead	1.9	1.0	mg/L	SW846 6010B	03/14-03/15/02	EVFXM1AW

NOTE(S):

Soluable Threshold Limit Concentration (STLC) done in accordance with App II: Waste Extraction procedures. CCR Title 22.

PSI INC

Client Sample ID: E21RA-1.0

TOTAL Metals

Lot-Sample #...: G2B210310-021
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053220						
Arsenic	5.9	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXN1AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXN1AD
Barium	122	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXN1AE
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXN1AF
Chromium	50.2	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXN1AG
Beryllium	0.54	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXN1AH
Lead	323	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXN1AJ
Selenium	2.1	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXN1AK
Silver	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXN1AL
Cobalt	9.9	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXN1AM
Copper	70.3	2.5	mg/kg	SW846 6010B	02/22-02/23/02	EVFXN1AN
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXN1AP
Nickel	40.2	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXN1AQ
Thallium	1.2	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXN1AR
Vanadium	40.5	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXN1AT
Zinc	227	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXN1AU
Prep Batch #...: 2053230						
Mercury	0.71	0.10	mg/kg	SW846 7471A	02/22/02	EVFXN1AA

PSI INC

Client Sample ID: E21RA-1.0

STLC Metals

Lot-Sample #...: G2B210310-021
Date Sampled...: 02/20/02
Leach Date.....: 03/11/02

Date Received..: 02/21/02
Leach Batch #..: P207307

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2073186						
Chromium	0.14	0.10	mg/L	SW846 6010B	03/14-03/15/02	EVFXN1AV
Lead	12.2	1.0	mg/L	SW846 6010B	03/14-03/15/02	EVFXN1AW

NOTE(S):

Soluable Threshold Limit Concentration (STLC) done in accordance with App II: Waste Extraction procedures. CCR Title 22.

PSI INC

Client Sample ID: E21RA-2.0

TOTAL Metals

Lot-Sample #...: G2B210310-022
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053224						
Arsenic	4.8	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXP1AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXP1AD
Barium	186	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXP1AE
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXP1AF
Chromium	28.3	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXP1AG
Beryllium	0.61	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXP1AH
Lead	275	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXP1AJ
Selenium	1.2	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXP1AK
Silver	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXP1AL
Cobalt	8.4	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXP1AM
Copper	56.6	2.5	mg/kg	SW846 6010B	02/22-02/23/02	EVFXP1AN
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXP1AP
Nickel	25.6	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXP1AQ
Thallium	1.3	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXP1AR
Vanadium	40.0	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXP1AT
Zinc	172	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXP1AU
Prep Batch #...: 2053230						
Mercury	0.18	0.10	mg/kg	SW846 7471A	02/22/02	EVFXP1AA

PSI INC

Client Sample ID: E21RA-2.0

STLC Metals

Lot-Sample #...: G2B210310-022
Date Sampled...: 02/20/02
Leach Date.....: 03/11/02

Date Received..: 02/21/02
Leach Batch #..: P207004

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2073186						
Lead	14.7	1.0	mg/L	SW846 6010B	03/14-03/15/02	EVFXP1CX

NOTE(S):

Soluable Threshold Limit Concentration (STLC) done in accordance with App II: Waste Extraction procedures. CCR Title 22.

PSI INC

Client Sample ID: E21RA-3.0

TOTAL Metals

Lot-Sample #...: G2B210310-023
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053224						
Arsenic	4.2	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXQ1AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXQ1AD
Barium	173	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXQ1AE
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXQ1AF
Chromium	34.0	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXQ1AG
Beryllium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXQ1AH
Lead	876	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXQ1AJ
Selenium	1.1	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXQ1AK
Silver	1.4	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXQ1AL
Cobalt	7.6	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXQ1AM
Copper	52.8	2.5	mg/kg	SW846 6010B	02/22-02/23/02	EVFXQ1AN
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXQ1AP
Nickel	29.9	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXQ1AQ
Thallium	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXQ1AR
Vanadium	47.1	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXQ1AT
Zinc	73.3	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFXQ1AU
Prep Batch #...: 2053230						
Mercury	ND	0.10	mg/kg	SW846 7471A	02/22/02	EVFXQ1AA

PSI INC

Client Sample ID: E21RA-3.0

STLC Metals

Lot-Sample #...: G2B210310-023
Date Sampled...: 02/20/02
Leach Date.....: 03/11/02

Date Received..: 02/21/02
Leach Batch #..: P207004

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2073186						
Lead	2.0	1.0	mg/L	SW846 6010B	03/14-03/15/02	EVFXQ1AV

NOTE(S):

Soluable Threshold Limit Concentration (STLC) done in accordance with App II: Waste Extraction procedures. CCR Title 22.

PSI INC

Client Sample ID: E21RB-0.0

TOTAL Metals

Lot-Sample #...: G2B210310-024
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053224						
Lead	94.3	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXR1AA

PSI INC

Client Sample ID: E21RB-0.0

STLC Metals

Lot-Sample #...: G2B210310-024
Date Sampled...: 02/20/02
Leach Date.....: 03/16/02

Date Received..: 02/21/02
Leach Batch #..: P207501

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2078312						
Lead	1.1	1.0	mg/L	SW846 6010B	03/19-03/20/02	EVFXR1AC

NOTE(S):

Soluable Threshold Limit Concentration (STLC) done in accordance with App II: Waste Extraction procedures. CCR Title 22.

PSI INC

Client Sample ID: E21RB-1.0

TOTAL Metals

Lot-Sample #...: G2B210310-025
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053224						
Lead	76.9	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXT1AA

PSI INC

Client Sample ID: E21RB-1.0

STLC Metals

Lot-Sample #...: G2B210310-025
Date Sampled...: 02/20/02
Leach Date.....: 03/11/02

Date Received..: 02/21/02
Leach Batch #..: P207004

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2073186						
Lead	25.3	1.0	mg/L	SW846 6010B	03/14-03/15/02	EVFXT1AC

NOTE(S):

Soluable Threshold Limit Concentration (STLC) done in accordance with App II: Waste Extraction procedures. CCR Title 22.

PSI INC

Client Sample ID: E21RB-2.0

TOTAL Metals

Lot-Sample #...: G2B210310-026
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053224						
Lead	54.6	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXV1AA

PSI INC

Client Sample ID: E21RB-2.0

STLC Metals

Lot-Sample #...: G2B210310-026
Date Sampled...: 02/20/02
Leach Date.....: 03/11/02

Date Received..: 02/21/02
Leach Batch #..: P207004

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2073186						
Lead	9.8	1.0	mg/L	SW846 6010B	03/14-03/15/02	EVFXV1AC

NOTE(S):

Soluable Threshold Limit Concentration (STLC) done in accordance with App II: Waste Extraction procedures. CCR Title 22.

PSI INC

Client Sample ID: E21RB-3.0

TOTAL Metals

Lot-Sample #...: G2B210310-027
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053224						
Lead	38.3	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXW1AA

PSI INC

Client Sample ID: E21RB-6.0

TOTAL Metals

Lot-Sample #...: G2B210310-028
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053224						
Lead	1.4	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFXX1AA

PSI INC

Client Sample ID: E21RC-0.0

TOTAL Metals

Lot-Sample #...: G2B210310-029
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053224						
Lead	78.9	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFX01AA

PSI INC

Client Sample ID: E21RC-0.0

STLC Metals

Lot-Sample #...: G2B210310-029
Date Sampled...: 02/20/02
Leach Date.....: 03/11/02

Date Received..: 02/21/02
Leach Batch #..: P207004

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2073186						
Lead	4.5	1.0	mg/L	SW846 6010B	03/14-03/15/02	EVFX01AC

NOTE(S):

Soluable Threshold Limit Concentration (STLC) done in accordance with App II: Waste Extraction procedures. CCR Title 22.

PSI INC

Client Sample ID: E21RC-1.0

TOTAL Metals

Lot-Sample #...: G2B210310-030
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053224						
Lead	2.3	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFX11AA

PSI INC

Client Sample ID: E21RC-2.0

TOTAL Metals

Lot-Sample #...: G2B210310-031
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053224						
Lead	3.1	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFX21AA

PSI INC

Client Sample ID: E21RC-3.0

TOTAL Metals

Lot-Sample #...: G2B210310-032
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053224						
Lead	1.8	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFX31AA

PSI INC

Client Sample ID: E21RC-6.0

TOTAL Metals

Lot-Sample #...: G2B210310-033
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053224						
Lead	5.2	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFX41AA

PSI INC

Client Sample ID: E21RC-9.0

TOTAL Metals

Lot-Sample #...: G2B210310-034
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053224						
Lead	2.4	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFX51AA

PSI INC

Client Sample ID: E21RC-12.0

TOTAL Metals

Lot-Sample #...: G2B210310-035
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053224						
Lead	2.7	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFX61AA

PSI INC

Client Sample ID: E21RC-15.0

TOTAL Metals

Lot-Sample #...: G2B210310-036
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053224						
Lead	2.5	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFX71AA

PSI INC

Client Sample ID: E21RD-0.0

TOTAL Metals

Lot-Sample #...: G2B210310-037
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053224						
Arsenic	4.6	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX81AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX81AD
Barium	106	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX81AE
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFX81AF
Chromium	38.7	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX81AG
Beryllium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFX81AH
Lead	82.7	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFX81AJ
Selenium	1.0	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFX81AK
Silver	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX81AL
Cobalt	9.0	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX81AM
Copper	131	2.5	mg/kg	SW846 6010B	02/22-02/23/02	EVFX81AN
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX81AP
Nickel	30.8	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX81AQ
Thallium	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX81AR
Vanadium	36.7	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX81AT
Zinc	197	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX81AU
Prep Batch #...: 2053230						
Mercury	0.11	0.10	mg/kg	SW846 7471A	02/22/02	EVFX81AA

PSI INC

Client Sample ID: E21RD-0.0

STLC Metals

Lot-Sample #...: G2B210310-037
Date Sampled...: 02/20/02
Leach Date.....: 03/16/02

Date Received..: 02/21/02
Leach Batch #..: P207501

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2078312						
Lead	ND	1.0	mg/L	SW846 6010B	03/19-03/20/02	EVFX81AV

NOTE(S):

Soluable Threshold Limit Concentration (STLC) done in accordance with App II: Waste Extraction procedures. CCR Title 22.

PSI INC

Client Sample ID: E21RD-1.0

TOTAL Metals

Lot-Sample #...: G2B210310-038
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053224						
Arsenic	3.6	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX91AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX91AD
Barium	153	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX91AE
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFX91AF
Chromium	13.1	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX91AG
Beryllium	ND	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFX91AH
Lead	14.3	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFX91AJ
Selenium	1.2	0.50	mg/kg	SW846 6010B	02/22-02/23/02	EVFX91AK
Silver	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX91AL
Cobalt	8.3	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX91AM
Copper	27.8	2.5	mg/kg	SW846 6010B	02/22-02/23/02	EVFX91AN
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX91AP
Nickel	13.6	4.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX91AQ
Thallium	ND	1.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX91AR
Vanadium	42.7	5.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX91AT
Zinc	75.6	2.0	mg/kg	SW846 6010B	02/22-02/23/02	EVFX91AU
Prep Batch #...: 2053230						
Mercury	0.29	0.10	mg/kg	SW846 7471A	02/22/02	EVFX91AA

PSI INC

Client Sample ID: E21RD-2.0

TOTAL Metals

Lot-Sample #...: G2B210310-039
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053173						
Arsenic	1.3	1.0	mg/kg	SW846 6010B	02/22/02	EVF0A1AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22/02	EVF0A1AD
Barium	22.9	2.0	mg/kg	SW846 6010B	02/22/02	EVF0A1AE
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/22/02	EVF0A1AF
Chromium	30.4	1.0	mg/kg	SW846 6010B	02/22/02	EVF0A1AG
Beryllium	ND	0.50	mg/kg	SW846 6010B	02/22/02	EVF0A1AH
Lead	1.6	0.50	mg/kg	SW846 6010B	02/22/02	EVF0A1AJ
Selenium	ND	0.50	mg/kg	SW846 6010B	02/22/02	EVF0A1AK
Silver	ND	1.0	mg/kg	SW846 6010B	02/22/02	EVF0A1AL
Cobalt	ND	5.0	mg/kg	SW846 6010B	02/22/02	EVF0A1AM
Copper	4.6	2.5	mg/kg	SW846 6010B	02/22/02	EVF0A1AN
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/22/02	EVF0A1AP
Nickel	23.2	4.0	mg/kg	SW846 6010B	02/22/02	EVF0A1AQ
Thallium	ND	1.0	mg/kg	SW846 6010B	02/22/02	EVF0A1AR
Vanadium	21.0	5.0	mg/kg	SW846 6010B	02/22/02	EVF0A1AT
Zinc	14.7	2.0	mg/kg	SW846 6010B	02/22/02	EVF0A1AU
Prep Batch #...: 2053179						
Mercury	ND	0.10	mg/kg	SW846 7471A	02/22/02	EVF0A1AA

PSI INC

Client Sample ID: E21RD-3.0

TOTAL Metals

Lot-Sample #...: G2B210310-040
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053173						
Arsenic	1.6	1.0	mg/kg	SW846 6010B	02/22/02	EVF0C1AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22/02	EVF0C1AD
Barium	33.6	2.0	mg/kg	SW846 6010B	02/22/02	EVF0C1AE
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/22/02	EVF0C1AF
Chromium	28.4	1.0	mg/kg	SW846 6010B	02/22/02	EVF0C1AG
Beryllium	ND	0.50	mg/kg	SW846 6010B	02/22/02	EVF0C1AH
Lead	43.8	0.50	mg/kg	SW846 6010B	02/22/02	EVF0C1AJ
Selenium	ND	0.50	mg/kg	SW846 6010B	02/22/02	EVF0C1AK
Silver	ND	1.0	mg/kg	SW846 6010B	02/22/02	EVF0C1AL
Cobalt	ND	5.0	mg/kg	SW846 6010B	02/22/02	EVF0C1AM
Copper	4.7	2.5	mg/kg	SW846 6010B	02/22/02	EVF0C1AN
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/22/02	EVF0C1AP
Nickel	24.7	4.0	mg/kg	SW846 6010B	02/22/02	EVF0C1AQ
Thallium	ND	1.0	mg/kg	SW846 6010B	02/22/02	EVF0C1AR
Vanadium	21.1	5.0	mg/kg	SW846 6010B	02/22/02	EVF0C1AT
Zinc	15.4	2.0	mg/kg	SW846 6010B	02/22/02	EVF0C1AU
Prep Batch #...: 2053179						
Mercury	ND	0.10	mg/kg	SW846 7471A	02/22/02	EVF0C1AA

PSI INC

Client Sample ID: E21RD-6.0

TOTAL Metals

Lot-Sample #...: G2B210310-041
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053173						
Arsenic	2.1	1.0	mg/kg	SW846 6010B	02/22/02	EVF0D1AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22/02	EVF0D1AD
Barium	47.0	2.0	mg/kg	SW846 6010B	02/22/02	EVF0D1AE
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/22/02	EVF0D1AF
Chromium	24.3	1.0	mg/kg	SW846 6010B	02/22/02	EVF0D1AG
Beryllium	ND	0.50	mg/kg	SW846 6010B	02/22/02	EVF0D1AH
Lead	4.9	0.50	mg/kg	SW846 6010B	02/22/02	EVF0D1AJ
Selenium	ND	0.50	mg/kg	SW846 6010B	02/22/02	EVF0D1AK
Silver	ND	1.0	mg/kg	SW846 6010B	02/22/02	EVF0D1AL
Cobalt	ND	5.0	mg/kg	SW846 6010B	02/22/02	EVF0D1AM
Copper	4.4	2.5	mg/kg	SW846 6010B	02/22/02	EVF0D1AN
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/22/02	EVF0D1AP
Nickel	20.0	4.0	mg/kg	SW846 6010B	02/22/02	EVF0D1AQ
Thallium	ND	1.0	mg/kg	SW846 6010B	02/22/02	EVF0D1AR
Vanadium	16.8	5.0	mg/kg	SW846 6010B	02/22/02	EVF0D1AT
Zinc	20.4	2.0	mg/kg	SW846 6010B	02/22/02	EVF0D1AU
Prep Batch #...: 2053179						
Mercury	ND	0.10	mg/kg	SW846 7471A	02/22/02	EVF0D1AA

PSI INC

Client Sample ID: E21RD-9.0

TOTAL Metals

Lot-Sample #...: G2B210310-042
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053173						
Arsenic	2.4	1.0	mg/kg	SW846 6010B	02/22/02	EVF0E1AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22/02	EVF0E1AD
Barium	15.3	2.0	mg/kg	SW846 6010B	02/22/02	EVF0E1AE
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/22/02	EVF0E1AF
Chromium	22.2	1.0	mg/kg	SW846 6010B	02/22/02	EVF0E1AG
Beryllium	ND	0.50	mg/kg	SW846 6010B	02/22/02	EVF0E1AH
Lead	2.3	0.50	mg/kg	SW846 6010B	02/22/02	EVF0E1AJ
Selenium	ND	0.50	mg/kg	SW846 6010B	02/22/02	EVF0E1AK
Silver	ND	1.0	mg/kg	SW846 6010B	02/22/02	EVF0E1AL
Cobalt	ND	5.0	mg/kg	SW846 6010B	02/22/02	EVF0E1AM
Copper	3.1	2.5	mg/kg	SW846 6010B	02/22/02	EVF0E1AN
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/22/02	EVF0E1AP
Nickel	20.5	4.0	mg/kg	SW846 6010B	02/22/02	EVF0E1AQ
Thallium	ND	1.0	mg/kg	SW846 6010B	02/22/02	EVF0E1AR
Vanadium	16.7	5.0	mg/kg	SW846 6010B	02/22/02	EVF0E1AT
Zinc	12.9	2.0	mg/kg	SW846 6010B	02/22/02	EVF0E1AU
Prep Batch #...: 2053179						
Mercury	ND	0.10	mg/kg	SW846 7471A	02/22/02	EVF0E1AA

PSI INC

Client Sample ID: E21RD-12.0

TOTAL Metals

Lot-Sample #...: G2B210310-043
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053173						
Arsenic	1.9	1.0	mg/kg	SW846 6010B	02/22/02	EVF0F1AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22/02	EVF0F1AD
Barium	28.8	2.0	mg/kg	SW846 6010B	02/22/02	EVF0F1AE
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/22/02	EVF0F1AF
Chromium	26.3	1.0	mg/kg	SW846 6010B	02/22/02	EVF0F1AG
Beryllium	ND	0.50	mg/kg	SW846 6010B	02/22/02	EVF0F1AH
Lead	2.6	0.50	mg/kg	SW846 6010B	02/22/02	EVF0F1AJ
Selenium	ND	0.50	mg/kg	SW846 6010B	02/22/02	EVF0F1AK
Silver	ND	1.0	mg/kg	SW846 6010B	02/22/02	EVF0F1AL
Cobalt	ND	5.0	mg/kg	SW846 6010B	02/22/02	EVF0F1AM
Copper	3.3	2.5	mg/kg	SW846 6010B	02/22/02	EVF0F1AN
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/22/02	EVF0F1AP
Nickel	18.3	4.0	mg/kg	SW846 6010B	02/22/02	EVF0F1AQ
Thallium	ND	1.0	mg/kg	SW846 6010B	02/22/02	EVF0F1AR
Vanadium	17.2	5.0	mg/kg	SW846 6010B	02/22/02	EVF0F1AT
Zinc	11.6	2.0	mg/kg	SW846 6010B	02/22/02	EVF0F1AU
Prep Batch #...: 2053179						
Mercury	ND	0.10	mg/kg	SW846 7471A	02/22/02	EVF0F1AA

PSI INC

Client Sample ID: E21RD-15.0

TOTAL Metals

Lot-Sample #...: G2B210310-044
Date Sampled...: 02/20/02 Date Received..: 02/21/02 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2053173						
Arsenic	1.9	1.0	mg/kg	SW846 6010B	02/22/02	EVF0G1AC
Antimony	ND	6.0	mg/kg	SW846 6010B	02/22/02	EVF0G1AD
Barium	25.3	2.0	mg/kg	SW846 6010B	02/22/02	EVF0G1AE
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/22/02	EVF0G1AF
Chromium	25.9	1.0	mg/kg	SW846 6010B	02/22/02	EVF0G1AG
Beryllium	ND	0.50	mg/kg	SW846 6010B	02/22/02	EVF0G1AH
Lead	2.5	0.50	mg/kg	SW846 6010B	02/22/02	EVF0G1AJ
Selenium	ND	0.50	mg/kg	SW846 6010B	02/22/02	EVF0G1AK
Silver	ND	1.0	mg/kg	SW846 6010B	02/22/02	EVF0G1AL
Cobalt	ND	5.0	mg/kg	SW846 6010B	02/22/02	EVF0G1AM
Copper	3.5	2.5	mg/kg	SW846 6010B	02/22/02	EVF0G1AN
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/22/02	EVF0G1AP
Nickel	22.4	4.0	mg/kg	SW846 6010B	02/22/02	EVF0G1AQ
Thallium	ND	1.0	mg/kg	SW846 6010B	02/22/02	EVF0G1AR
Vanadium	16.4	5.0	mg/kg	SW846 6010B	02/22/02	EVF0G1AT
Zinc	14.4	2.0	mg/kg	SW846 6010B	02/22/02	EVF0G1AU
Prep Batch #...: 2053179						
Mercury	ND	0.10	mg/kg	SW846 7471A	02/22/02	EVF0G1AA