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March 25, 2014

Karel Detterman Hazardous Materials Specialist Alameda County Environmental Health 1131Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Subject:

Milligan & Casentini Property 385 26th Street, Oakland, CA Fuel Leak Case No. RO0003125

Dear Ms. Detterman:

Enclosed is the Data Gap Investigation Work Plan and Site Conceptual Model for the subject LUFT site. In compliance with state and local regulations, electronic submittals of this report have been uploaded to the Geotracker database and the Alameda County ftp website.

I declare under penalty of perjury that the information and/or recommendations contained in the attached report are true and correct to the best of my knowledge.

Please call Tim Cook at Cook Environmental Services at (925) 478-8390 if you have questions or comments in regards to the technical content of this report.

Very truly yours,

Susan Casentin

cc: Tim Cook, Cook Environmental Services, Inc.

Susan Casentini



Data Gap Investigation Work Plan and Site Conceptual Model

385 26th Street Oakland, California 95209

PREPARED FOR:

Kyle Milligan and Susan Casentini 388 Belmont Street Oakland, CA 94610-4821

SUBMITTED TO:

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PREPARED BY:

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March 25, 2014

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PROFESSIONAL CERTIFICATION

Data Gap Investigation Work Plan and Site Conceptual Model

385 26th Street Oakland, California 95209 Fuel Leak Case No. RO0003125

By: Cook Environmental Services, Inc. Project No. 1095

March 25, 2014

Cook Environmental Services, Inc. prepared this document under the professional supervision of the person whose seal and signature appears hereon. No warranty, either expressed or implied, is made as to the professional advice presented herein. The analysis, conclusions and recommendations contained in this document are based upon Site conditions as they existed at the time of the investigation and they are subject to change.

The conclusions presented in this document are professional opinions based solely upon visual observations of the Site and vicinity, and interpretation of available information as described in this document. Cook Environmental Services, Inc. recognizes that the limited scope of services performed in execution of this investigation may not be appropriate to satisfy the needs, or requirements of other regulatory agencies or of other users. Any use or reuse of this document or its findings, conclusions or recommendations presented herein is at the sole risk of said user.

Tim Cook, P.E. Principal

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1.0 INTRODUCTION

1.1 General

This Work Plan was prepared by Cook Environmental Services, Inc. (CES) to describe methods and procedures to fill data gaps from a previous UST removal investigation and develop a Site Conceptual Model (SCM) for the leaking underground storage tank (UST) site located at 385 26th Street, Oakland, California 94612 (**Figure 1**).

Information used to prepare this work plan were derived from observations, site history, and laboratory data collected during the removal of one UST at the site. The local oversight program responsible for this case is Alameda County Environmental Health (ACEH).

The subject of this work plan is to provide a Site Conceptual Model (SCM) and identify data gaps to aid the full characterization of this site.

1.2 Site Background

A 1,200-gallon UST was discovered at the site by Paoli Construction, Inc. during grading activities at the site on February 13, 2013. Cook Environmental Services (CES) was hired by the property owner, the Kyle Milligan and Susan Casentini Trust, to inspect the UST on February 14, 2013. CES discovered a buried redwood tank approximately 12 feet in diameter that contained an unknown volume of heating oil.

The structural integrity of the redwood tank had been severely compromised and a large volume of heating oil had impacted surrounding soils. The UST was connected to a 4-inch diameter cast iron pipe that was probably connected to a fill spout behind the sidewalk on 26th Street. The location of the UST and the cast iron pipe are shown on **Figure 2**.

The City of Oakland Fire Department was notified and Cook Environmental Services, Inc (CES) filed an UST removal permit with the Fire Department on March 4, 2013. CES retained Fremouw Environmental Services, Inc (FES) to empty the UST. Since the redwood tank was badly decayed, no triple rinse or decontamination procedures could be performed. FES removed approximately 80 gallons of heating oil from the excavation on March 11, 2013. The receiving facility for the waste heating oil required that the liquid be sampled for PCBs prior to acceptance of the waste. A sample of the heating oil was collected on March 11, 2013 and analyzed for PCBs. PCBs were not detected. The laboratory report for this analysis is included as **Appendix A**. Two drums of heating oil were disposed of as non-RCRA hazardous waste.

CES excavated the UST and contaminated soil from March 11 to 13, 2013. Leroy Griffin of the City of Oakland Fire Prevention Bureau was onsite. Since the redwood tank was badly decomposed, it could not be removed intact and was taken out in pieces and placed in six 10-cubic yard roll-off bins along with contaminated soil. Three bins (36.5 tons) were profiled as non-hazardous and disposed at the Potrero Hills landfill in Suisun, California. The lab report from two soil samples collected from the UST excavation was used to profile the waste. This lab report is included in **Appendix B**. The special waste profiles used to characterize this soil as

non-hazardous are provided in **Appendix C**. The non-hazardous waste was disposed of at the Potrero Hills Landfill near Suisun, California. Non- hazardous waste manifests and weigh tickets for this soil are provided in **Appendix D**. Soil in two of the bins was classified as non-RCRA hazardous waste and was disposed at the U.S. Ecology landfill in Beatty, Nevada. The special waste profile used to characterize this soil as a non-RCRA hazardous material is provided in **Appendix E**. Hazardous waste manifests for these soils are provided in **Appendix F**.

The UST excavation extended to a depth of approximately 12 feet bgl. Photographs of the removal action are provided in **Appendix G**. After excavation activities were complete, CES collected two soil samples from the base of the excavation. Sample S1 was collected from the south end of the excavation at depth of approximately 10 feet below grade. Sample S2 was collected from the north end of the excavation (closest to 26th Street) at a depth of approximately 10 feet below grade. Sample locations are shown on **Figure 2**. Soil samples were collected from the bucket of the excavator and placed in stainless steel sample tubes, labeled and placed on ice in a cooler. Samples were handled using chain-of-custody procedures.

Samples were transported to McCampbell Analytical, Inc. in Pittsburg, California that same day and analyzed for the standard suite of analytes required of a UST containing heating oil. Analyses included total petroleum hydrocarbons as diesel (TPH-d) using EPA method 8015B modified; benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA method 8021B; and naphthalene and MtBE using EPA method 8260B. The samples appeared to be contaminated due to staining and hydrocarbon odor.

BTEX and MtBE constituents were not detected in soil samples above laboratory detection limits. TPH-d concentrations range from 6,500 to 11,000 milligrams per kilogram (mg/kg). Naphthalene concentrations range from 10 to 14 mg/kg. **Table 1** summarizes soil sample results. As stated previously, the laboratory analytical report for these soil samples is provided in **Appendix B**.

The UST excavation was backfilled with clean recycle baserock from Marin Resource Recovery in San Rafael, California. An invoice and weigh tickets for the baserock is included in **Appendix H**.

2.0 SITE CONCEPTUAL MODEL

Table 2 presents the present SCM based on data from the site, nearby sites, historical research and owner knowledge of the site. The SCM describes our present understanding of regional and site geology and hydrogeology, nearby surface water bodies, past site activities, nearby water supply and monitoring wells, the source and volume of the release, presence of LNAPL, source removal activities, contaminants of concern (COCs), excavation backfill material, petroleum hydrocarbons in soil, petroleum hydrocarbons in groundwater and risk evaluation. Table 1 also identifies data gaps and the necessary information needed to fill the data gaps.

3.0 DATA GAPS SUMMARY

Table 2 describes in detail each data gap and provides the proposed investigation and rationale for filling each data gap. In some cases, the information to fill a data gap is provided in this work plan.

Data gaps are identified as follows:

- 1. Groundwater flow direction and gradient
- 2. Characterization of soil and groundwater contamination
- 3. Past uses of the site/UST
- 4. Indoor air intrusion/Outdoor air exposure
- 5. Map showing the UST and past soil sample locations (provided with this work plan)
- 6. Documentation of hazardous or non-hazardous status of excavated soil (provided with this work plan)
- 7. Documentation of clean imported excavation backfill (provided with this work plan).

4.0 PROPOSED INVESTIGATION

The following sections provide methods and procedures to fill data gaps identified in **Table 3**. Groundwater and soil samples will be collected from six temporary soil borings. Soil vapor borings may be warranted if soil samples from the bioattenuation zone meet LTCP criteria.

4.1 Fieldwork Preparation

USA Alert will be notified and proposed drilling locations will be marked with white paint. Utility owners will then mark the location of buried utilities at the site. If buried utilities are located within two feet of a proposed drilling location, then the proposed location will be adjusted.

A soil boring permit will be obtained from the Alameda County Department of Public Works. The well inspector assigned to this project will be notified at least 48 hours to beginning fieldwork. A Site Specific Health and Safety Plan will be submitted as part of the permitting process.

4.2 Fieldwork

The following sections describe methods and procedures to install soil borings and soil vapor borings.

4.2.1 Soil Borings

Six soil borings will be advanced at the site to a depth of 20 feet bgs. Five of the borings (SB-1 through SB-5) will be located in the source area and boring SB-6 will be located at near the southern property line, approximately 80 feet downgradient. The proposed locations of the borings are shown on **Figure 3**.

The rationale for placing five borings in the source area is to delineate the extent of hydrocarbon contamination in the source area. Boring SB-1 will be located in the center of the former UST. Borings SB-2 through SB-5 will located approximately 12 feet from SB-1 in four directions like spokes extending from the center of a wheel. The former UST was shaped like a barrel and had a radius of approximately 6 feet. The purpose of placing borings SB-2 through SB-5 at a 12 foot radius from SB-1 is to locate these borings 6 feet outside the walls of the former UST. Boring SB-6 will be located approximately 80 feet south of the source area to determine if groundwater near the downgradient boundary of the site has been impacted by contaminants of concern (COCs)

The most contaminated soil samples (up to 3) from the source area based on visual staining, odor and PID readings will be selected for analysis of potential COCs. These samples will be analyzed for TPH-multi-range, BTEX, VOCs, SVOCs (including naphthalene) and CAM17 metals. This suite of analytes corresponds to guidelines for characterizing an "unknown fuel" in Table 2 of the *Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Storage Tank Sites*, August 10, 1990. COCs for the remaining soil and groundwater samples will selected based on the results of these samples. That is, if an analyte is detected above its ESL in the most contaminated samples, it will be considered to be a COC and will be analyzed in the remaining soil and groundwater samples.

Soil samples will be collected continuously using a dual tube sampler lined with acrylic tubes. Soil sampling standard operating procedures are provided in **Appendix I**. Soil samples will be collected in the source area (SB-1 through SB-5) at 8, 12, 16 and 20 feet bgs. One groundwater sample will be collected from each boring using either a disposable bailer or a peristaltic pump. Soil samples will be collected from SB-6 at 10 feet, 15 feet, and 20 feet bgs. One groundwater sample will be collected from this boring. Grab groundwater samples will be collected from the first encountered groundwater in each boring.

Borings will be logged using the Unified Soil Classification System and the geologist will prepare a detailed log for each boring that includes the project name, boring number, drilling contractor, date, start and finish time, drilling method, total depth, depth to water, type of sampler, name of the field geologist, depth of each soil sample, PID readings, graphic log and a lithologic description of soils encountered. A copy of a boring log is provided in **Appendix J**.

After all soil, groundwater or sol vapor samples have been collected, the borings will be abandoned in compliance with Alameda County requirements. Borings will be backfilled with

neat cement grout and will match the surrounding grade and conditions. An inspector from the Alameda County Department of Public Works will verify well abandonments.

4.2.2 Soil Vapor Borings

If soil samples collected from the bioattenuation zone (0 to 5 feet bgs) have an average TPH (TPH-d + TPH-g) value of less than 100 mg/kg, then two soil vapor probes will be advance in the locations shown on **Figure 4**. The purpose of these borings will be to determine if the site qualifies for closure under LTCP Scenario 4.

Soil vapor sample borings will be located within two feet of the buildings at 381 and 385 26th Street. Soil vapor samples will be collected from a depth of 5 feet using direct push technology. Soil gas sampling will follow methods and procedures in the joint memorandum from DTSC and the Los Angeles RWQCB *Advisory - Active Soil Gas Investigations*, dated January 28, 2003.

The soil vapor sampling method consists of withdrawing of an aliquot of soil vapor from the subsurface with a sampling probe, followed by analysis of the withdrawn vapor. Soil vapor samples will be collected in gas-tight Summa containers and analyzed at an off-site laboratory. This method is quantitative and values will be reported in concentration units (e.g., mg/m³). This approach is the most common soil vapor collection method for a number of reasons, including ease of sample collection, opportunity for real-time data to direct further sampling, and the ability to acquire quantitative measurements.

Soil gas samples will be analyzed for TPH-g, TPH-d, BTEX, naphthalene, and the leak tracer compound (helium) by EPA Method TO-15, and fixed gases including oxygen, carbon dioxide, and methane by ASTM D-1946. Results for benzene, ethylbenzene and naphthalene will be compared to LTCP soil gas criteria. If oxygen concentrations are less than 4 percent, results will be compared to soil gas criteria with no bioattenuation zone and commercial land use. If oxygen concentrations are greater than 4 percent, results will be compared to soil gas criteria with bioattenuation zone and commercial land use.

4.3 Reporting

Upon completion of fieldwork and receipt of laboratory results, a Data Gaps Summary Report will be prepared. The report will summarize Site activities and will include the following information:

- A summary table of soil and groundwater sample results. Results will be compared to commercial/industrial environmental screening levels (ESLs)
- A figure showing soil boring locations and the location of the former UST
- A summary table of soil vapor sample results. Results will be compared to commercial/industrial environmental screening levels (ESLs)
- A figure showing soil vapor boring locations

- Laboratory reports, chain of custody forms and data evaluation QA/QC performance of the laboratory instruments
- Photographs of field activities
- An evaluation of site data with regard to LTCP closure criteria
- Conclusions, identification of any data gaps and recommendations for additional work, if necessary

If the data is sufficient to close this site under LTCP, then a Request for No Further Action Report will be prepared that meets LTCP criteria. If the data will not support site closure under LTCP then additional work to fill data gaps to advance the site towards closure will be recommended. The report will be prepared and stamped by a licensed professional engineer.

5.0 PROJECT SCHEDULE

Upon approval of this work plan by ACEH, a soil boring permit application will be submitted to the Alameda County Department of Public Works. Installation of soil borings will commence within 30 days of receipt of the boring permit. Installing the borings is expected to take one or two days. Analysis of soil, groundwater and soil vapor samples will take five working days. Upon review of soil sample data from the bioattenuation zone, a decision will be made regarding the collection of soil vapor samples. If soil vapor samples are warranted, fieldwork will be completed within 2 weeks of the receipt of soil sample data. The final report will be submitted to ACEH within 60 days of the completion of fieldwork.

TABLES

Table 1. Soil Sample Results 385 26th Street Oakland, CA

| Sample ID | Date | Depth (ft) | TPH-d | TPH-mo | Benzene | Toluene | Ethylbenzene | Xylenes | MtBE | Naphthalene |
|-----------|-----------|------------|--------|--------|---------|---------|--------------|---------|-------|-------------|
| S-1 | 3/13/2013 | 12 | 11,000 | 11,000 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 10 |
| S-2 | 3/13/2013 | 12 | 6,500 | 5,200 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 14 |
| | ESLs | | 110 | 1,000 | 0.044 | 2.9 | 3.3 | 2.3 | 0.023 | 1.2 |

All concentrations are in mg/kg

ESLs are for deep (>3m) at commercial/industrial sites where groundwater is a potential source of drinking water Values above ESLs are in bold

| CSM Element | CSM Sub- Element | Description | Data Gap Item # | Resolution |
|-----------------------------|---------------------|--|---|---|
| Geology and Hydrogeology | Site | As described by CES in the Work Plan for UST Removal (2013), the lithology encountered in borings nearby at Benner Automotive located at 488 25 th St. and the UST excavation at the Site consists predominantly of stiff cohesive clay with clayey sand and clayey gravel. The primary stratigraphic units at the Site are listed below, with the approximate ranges of depth (bgs) each unit was encountered across the Site: • 0 to 18 feet bgs: brown, stiff, cohesive clay at 385 26 th St. • 18 to 23 feet bgs: wet, clayey sand at 488 25 th St. • 23 to 25 feet bgs: wet, clayey gravel at 488 25 th St. Groundwater was not encountered in the UST excavation (12 fbg). Expect to encounter groundwater at 14 to 18 fbg. The depths vary based on the season with the highest elevations occurring during the wet winter months and the lowest elevations occurring in the dry autumn months. | 1. There are no monitoring wells on site. The onsite groundwater flow direction and gradient is not known. There are, or were, monitoring wells at three nearby sites | No groundwater wells are planned for the site at this time. Historic groundwater data from nearby monitoring wells may be adequate. |
| Geology and Hydrogeology | Regional | The regional groundwater flow direction based on topography is expected to be south to southwesterly toward San Francisco Bay. | | NA |
| Surface Water Bodies | | The closest surface water body is Lake Merritt, which is approximately 2,000 feet southeast of the site. | | NA |
| Past Site Activities | | According to City of Oakland historian, Betty Marvin, the site was occupied by two homes from 1902 until at least the mid-1930's. The 1,200 gallon UST was located adjacent to the homes. The back of the site was part of a large laundry facility facing 25th Street. According to Ms. Marvin, the laundry facility was a conventional laundry using soap and water and not a laundry using dry cleaning chemicals such as perchloroethane (PCE). After the homes were removed in the 1930's, a machine shop occupied the site until 2006. In 2006 the machine shop was removed. The present building was constructed in 2006-07. In 2008 it was purchased by Kyle Milligan and Susan Casentini. The site is presently used as an artist's studio. Supplement site history and attempt to determine UST content(s) based on past site use. | 3. Need a better description of past site history | Order Sanborne map, research past site occupants and operations. |
| Nearby Wells | | The State Water Resource Quality Control Board (RWQCB) Geotracker GAMA website provides the locations of water supply | | NA |

| CSM Element | CSM Sub- Element | Description | Data Gap Item # | Resolution |
|---------------------------------|---------------------|---|--|---|
| | | wells proximal to the site. The nearest supply well is located approximately 4.3 km southwest of the site on Alameda Island. There are multiple monitoring wells in the vicinity of the site including those at Benner Automotive at 488 25 th St., Shell #12-9450 at 2800 Telegraph and Chevron #9-2506 at 2630 Broadway. | | |
| Release Source and Volume | | One redwood UST (1,200-gallon) is considered the main source of the release of fuel hydrocarbons that have been detected in soil and groundwater beneath the Site. The redwood tank had one or more holes at the time of removal. The tank broke into two pieces as the staves were removed. Soil surrounding the tank was stained and had a strong kerosene odor. The release from the tanks was discovered on February 13, 2013 during grading activities in the parking lot next to the building. The volume of the release is not known. | 2. Additional soil and groundwater data is required in the source area. | See data gaps table. Additional soil borings will be advanced in the source area. Groundwater monitoring wells will not be installed at this time. |
| LNAPL | | Light non-aqueous phase liquid was observed in the UST excavation during removal activities. Soils saturated with LNAPL were excavated and disposed of offsite. A sample of the LNAPL was collected on 3/11/13 and analyzed for organochlorine pesticides and PCBs. Neither pesticides nor PCBs were detected. Two soil samples were collected from the base of the UST excavation on 3/13/13 and analyzed for TPH-d, TPH-mo, BTEX, MtBE and naphthalene. Concentrations of TPH-d in sample S1 (11,000 mg/kg) and sample S2 (6,500 mg/kg) may indicate the presence of LNAPL | 2. Need water samples in the source area to determine if LNAPL is present. | Water samples will be collected from soil borings in source area. Check gw sample for floating product. Lab results also may indicate the presence of LNAPL. |
| Source Removal Activities | | Approximately 60 cubic yards (CY) of contaminated soil was excavated from the UST pit during tank removal activities. The excavation was approximately 12 feet deep. Contaminated soil was easily identified due to its gray color and distinctive kerosene odor. Most of the gray stained soil was excavated but some had to be left insitu due to the close proximity of the neighboring brick structure (see photos). As mentioned previously, soil samples S1 and S2 were collected from the base of the excavation. Groundwater was not encountered in the excavation. The redwood tank debris and the cast iron fill pipe were disposed of with the contaminated soil. There has been no other source removal | 2. Soil contamination at depth (12-foot bgs and deeper) is not well characterized. Additional soil sampling in the source area below 12 fbg is required. | Soil borings are proposed, as discussed in the data gaps table. |

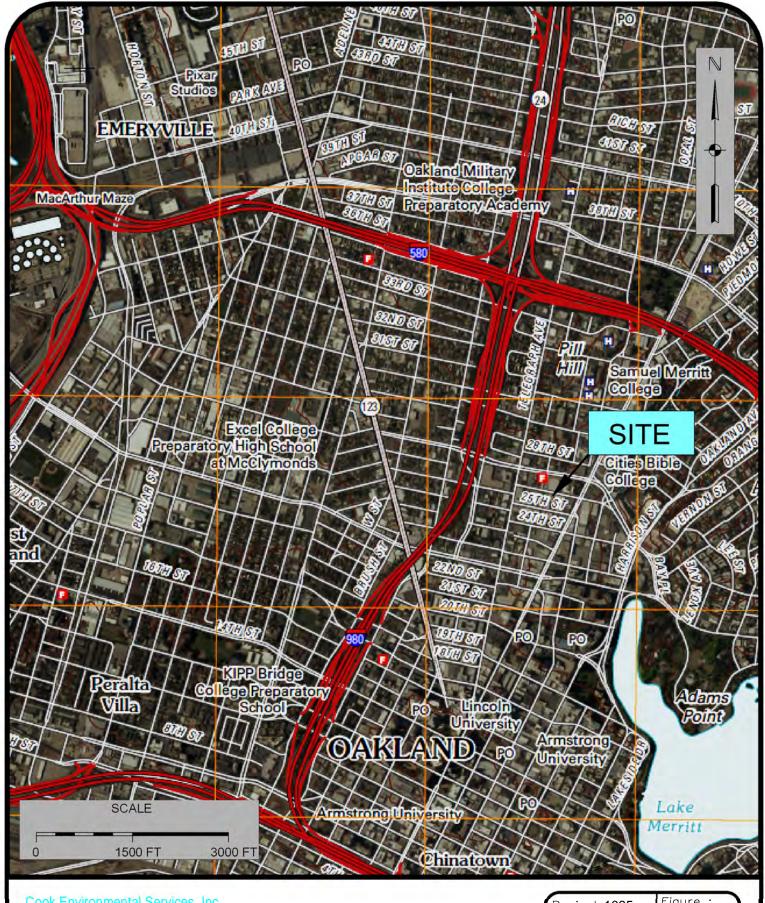
| CSM Element | CSM Sub- Element | Description | Data Gap Item # | Resolution |
|--------------------------------------|---------------------|---|--|---|
| | | activity conducted at the Site. | | |
| Source Removal Activities | | ACEH requested a map showing location of UST, location of fill pipe, size of excavation and soil sample locations | 5. Map showing all requested items | See Figure 2 |
| Source Removal Activities | | ACEH requested rationale for disposing of 20 CY as hazardous and 40 CY as non-haz | 6. Data supporting characterization of some soils as hazardous and some as non-haz | See Appendix B though F |
| Backfill Material | | ACEH requested information regarding the UST excavation backfill material. The excavation was backfilled with clean base rock from Marin Resource and Recycle (see invoice). | 7. Backup for imported UST excavation backfill material | Invoice and weigh tickets for clean base rock from Marin Resource Recovery in Appendix H |
| Contaminants of Concern | | Based on site history and the materials of construction (redwood) an assumption was made that the UST contained only heating oil. The Tri-Regional guidelines for heating oil tanks identify COCs as TPH-d, BTEX. However, there is no record of liquids stored in the UST. Based on discussions with ACEH, potential COCs could be TPH-g, TPH-d, BTEX, VOCs, SVOCs and CAM17 metals. | 2.Need to identify all COCs related to the source | Collect several contaminated soil samples in source area and analyze for TPH-g, TPH-d, BTEX, VOCs, SVOCs and CAM17 metals. Adjust known COC list accordingly. |
| Petroleum Hydrocarbons in Soil | | Two samples were analyzed as part of the UST removal action. These samples were collected from each end of the bottom of the UST excavation at a depth of 12 feet bgs. TPH-d, TPH-mo and naphthalene were detected above ESLs. BTEX was not detected. | 2. Additional soil sampling is required to better define the lateral and vertical extent of contamination. | Additional soil borings to be advanced, as described in the data gaps table. |
| Petroleum | | Groundwater was not encountered during the removal of the UST. | 2. There is no | Groundwater |

| CSM Element | CSM Sub- Element | Description | Data Gap Item # | Resolution |
|-----------------------------|---------------------|---|--|--|
| Hydrocarbons in Groundwater | | No groundwater samples have been collected. There are no permanent monitoring wells located at the Site. As such, the groundwater flow direction across the Site cannot be evaluated. This is a significant data gap. The scope of work presented in this work plan includes the installation of temporary soil borings and the collection of groundwater samples. | groundwater monitoring data | samples will be collected from soil borings, as discussed in the data gaps table. |
| Risk Evaluation | | This CSM identifies the primary source; impacted media; release mechanism(s); secondary source(s); exposure route; potential receptors (residential, commercial/industrial worker, and construction worker), and an assessment of whether the exposure route/pathway is potentially complete, incomplete, or insignificant. Potential exposure routes include incidental ingestion, dermal contact, dust inhalation, and vapor inhalation. The exposure route for direct contact with contaminated soil and incidental ingestion are incomplete since the site is paved. The exposure routes for inhalation (via vapor intrusion into nearby buildings or outdoor air exposure) and exposure to construction workers excavating in the contaminated area are potential exposure pathways. For leaching of contaminants from soil to groundwater, the ingestion and dermal pathways for groundwater are considered incomplete, except for the construction worker, as shallow groundwater in this area is not currently a drinking water resource. For the construction worker, incidental ingestion and dermal contact is a potential pathway. For volatilization from groundwater to outdoor air, the exposure pathway is considered insignificant due to dilution effects that take place outdoors. For indoor air, volatilization from groundwater to indoor air is considered a potentially complete pathway. | 3. There is no data to evaluate the health risk from volatilization of contaminants to human receptors in nearby buildings and outdoor air. Buildings on both sides of the source area are slab on grade construction. | If soil samples next to building from 0 to 5 feet bgs are less than 100 mg/kg TPH (i.e., a viable bioattenuation zone) then collect soil vapor samples from one boring next to the building at 385 26 th St and one next to the building at 381 26 th Street as described in the Data Gaps table. Compare soil data to direct contact thresholds in Table 1 of LTCP |

| Item | Data Gap Item # | Proposed Investigation | Rationale | Analyses |
|------|--|--|---|--|
| 1 | Groundwater flow direction and gradient at the site is unknown. There are several LUST sites within 1,000 feet of the site. One of these sites, Dave's Station at 2250 Telegraph has groundwater elevation data from Feb 2014. The Chevron Station at 2630 Broadway has groundwater elevation data from Nov 2012. | No groundwater monitoring wells will be installed at this time. A fairly accurate estimation of groundwater direction can be derived from nearby offsite monitoring well data. | ACEH agreed with this approach in a meeting dated Jan 28, 2014. | NA |
| 2 | The present data set does not adequately characterize soil and groundwater contamination (if any) that may remain on site after removal of contaminated soil (60 CY, approximately 12 feet bgs) The current soil data is two soil samples collected from the base of the UST excavation. Lithology below is not adequately characterized. | Source Area: Five soil borings will be drilled in the source area to a depth of 20 feet bgs. Soil samples will be collected at 8, 12, 16 and 20 feet bgs from soil borings SB-1 through SB-5. One groundwater sample will be collected from each boring. Downgradient: One soil boring will be drilled near the south edge of the property to a depth of 20 feet bgs Soil samples will be collected at 10 feet, 15 feet, and 20 feet bgs. One groundwater sample will be collected from this boring. Borings will be logged using the Unified Soil Classification System. Grab groundwater samples will be collected from the first encountered groundwater in each boring. | Source Area: Soil samples will be collected from five borings starting at 8 feet bgs which corresponds to depth of the bottom of the UST. Soil borings will be located as shown in the work plan figure. Boring SB-1 will be located at the center of the source area. The remaining four borings will be located 12 feet from SB-1 like spokes from a wheel hub. PID meter and visual observations will be used to select the most contaminated soil sample for additional analyses Step out boring: Step out boring SB-6 to be installed near the south property line. | The most contaminated soil samples (up to 3) from the source area based on visual staining, odor and PID readings will be selected for analysis of potential COCs. These samples will be analyzed for TPH-multirange, BTEX, VOCs, SVOCs (including naphthalene) and CAM17 metals. COCs for the remaining soil and groundwater samples will selected based on the results of these samples. |

| Item | Data Gap Item # | Proposed Investigation | Rationale | Analyses |
|------|--|--|---|---|
| 3 | Determine past usage of site (past contents of UST?) | Although we have contacted the City of Oakland historian and aerial photos, additional documentation of past site usage is appropriate to determine usage of UST and contents contained therein. | Obtain Sanborne Map to determine historic usage of site | NA |
| 4 | Indoor air intrusion/outdoor air exposure routes | Evaluate soil sample results from bioattenuation zone (0 to 5 feet bgs). If TPH < 100 mg/kg, then advance two soil vapor borings, one near each adjacent building | Buildings are slab on grade. Advance soil vapor boring to 5 feet. Use data to establish bioattenuation zone (Scenario 4 of LTCP) | TPH-g, TPH-d, BTEX, naphthalene, and the leak tracer compound (helium) and fixed gases including oxygen, carbon dioxide, and methane |
| 5 | Map showing UST and past soil sample locations | NA | See Figure 2 | NA |
| 6 | Documentation of haz vs. non-haz status of contaminated soil | NA | See lab report, profile and manifests from disposal sites (Appendix B through Appendix F) | NA |
| 7 | Proof of clean imported backfill for UST excavation | NA | See invoices and weigh tickets from Marin Resource Recovery in Appendix H | NA |

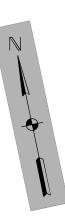
FIGURES



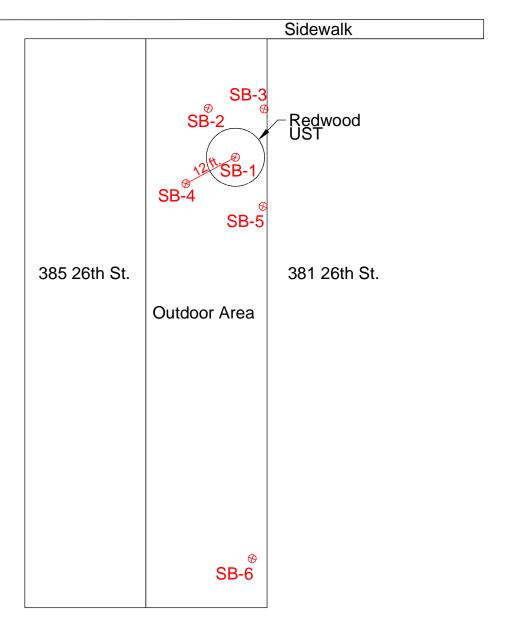
Cook Environmental Services, Inc.

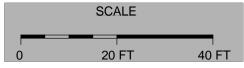
1485 Treat Blvd. Ste. 203A Walnut Creek, CA 94597 (925) 478-8390 work (925) 787-6869 cell tcook@cookenvironmental.com **Site Location Map** 385 26th St. Oakland, CA 94612

Figure: Project 1095 Date: 3/25/14 Scale:1"=1500 FT



26th Street

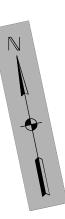




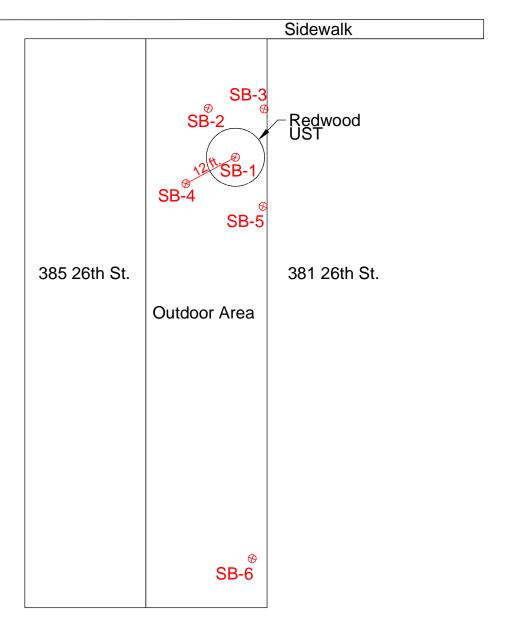
Cook Environmental Services, Inc. 1485 Treat Blvd. Ste. 203A Walnut Creek, CA 94597 (925) 478-8390 work (925) 787-6869 cell tcook@cookenvironmental.com

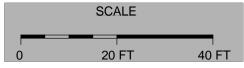
UST and Soil Sample Locations 385 26th St. Oakland, CA 94612

| Project 1095 | Figure : |
|--------------------------|----------|
| Date: 3/25/14 | 7 |
| Scale :1" = 20 FT | |



26th Street

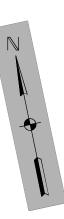




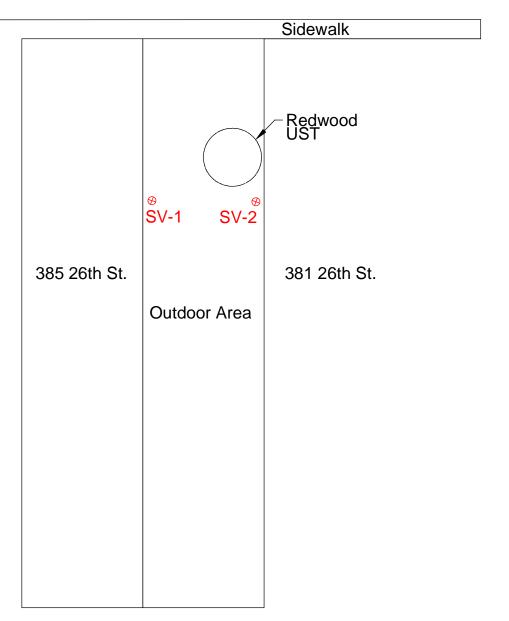
Cook Environmental Services, Inc. 1485 Treat Blvd. Ste. 203A Walnut Creek, CA 94597 (925) 478-8390 work (925) 787-6869 cell tcook@cookenvironmental.com

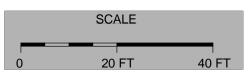
Proposed Soil Borings 385 26th St. Oakland, CA 94612

Figure : Project 1095 Date: **3/25/14** Scale**:1" = 20 FT**



26th Street





Cook Environmental Services, Inc. 1485 Treat Blvd. Ste. 203A Walnut Creek, CA 94597 (925) 478-8390 work (925) 787-6869 cell tcook@cookenvironmental.com

Proposed Soil Vapor Borings 385 26th St. Oakland, CA 94612

Figure : Project 1095 Date: **3/25/14** Scale**:1" = 20 FT**

APPENDIX A

Laboratory Analytical Report for UST Liquid

Analytical Report

| Cook Environmental Services, Inc. | Client Project ID: #1095; Paoli Construction | Date Sampled: 03/11/13 |
|-----------------------------------|--|--------------------------|
| 1485 Treat Blvd, Ste. 203A | | Date Received: 03/11/13 |
| 1405 Heat Biva, Stc. 20371 | Client Contact: Tim Cook | Date Reported: 03/12/13 |
| Walnut Creek, CA 94597 | Client P.O.: | Date Completed: 03/12/13 |

WorkOrder: 1303304

March 12, 2013

Dear Tim:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: #1095; Paoli Construction,
- 2) QC data for the above sample, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

303304

| | | Pitts | L ANA Willow I burg, CA | Pass Rd | I. 5 | | | | | 7 | L | J. | \$ | T | UR | N A | RO | | HA | | | | C | U | T | Ol | DY | ·F | RE | CC | R | D | K |
|--|-------------------------------|--------------|-------------------------------|--------------|-----------------|-------|-------|--------|-------|------|------|------------------|-------|--------------|------------------------|------------------------|------------------------------------|-----------------------|----------------------------|----------------|---------------------------|-----------------|-----------------|------------------------|----------------------|----------------------|-----------------------------|-----------------------------|-----------------------------|------------|------------|------|-----------------------|
| | ww.mccampbe ione: (877) 25 | | | | Email: | | @mc | | | | m | | 1 | ED | ED | | | 0.0 | 14 | /91 | | n n | | RUS | | | HR | | | HR | | 72 H | R SDAY |
| Report To: Tim (| | 72-72-02 | 1 | Bill To | | A. (. | 140) | 24" | 720 | _ | _ | _ | + | ED | FR | equ | To a | 1 | Oelt | | | Re | _ | | | Wri | te C | n (| DW | - | No Oth | er | Comments |
| Company: Cook Environmental Services, Inc. | | | | | | | | | | | | | 8 | | | | | | - | | | | | Т | T | + | T | | Comments | | | | |
| 1485 | Treat Blvd, S | uite 203A | | | | | | | | | | | | | | 1 | 60 | 1 | | | | | | | | | | | | | | | Filter |
| Waln | ut Creek, CA | 94597 | E-Ma | il: tec | ok@coo | ken | viron | me | ntal | .con | n | | | | | | d | | | 1 | | | | | | /8310 | | | | | | | Samples |
| Tele: (925) 478-8 | 390 | | | | 925) 478 | | | | | | | | | | | | 2 | | | | | | | | | 8/0 | | 1 | | П | | | for Metals |
| Project #:1095 | | | I | Projec | t Name: | Pa | oli C | onst | truc | tion | | | | | om | | SHC | | 6 | | 2.5 | | | | | 625 / 8270 | | | | | | | analysis: Yes / No |
| Project Location: | 385 26th St., | Oakland | | | | | | | | | | | | | TPHmo | 63 | that | | 802 | | 3 | | | | | 122 | 020 | 20) | | | | | 1 (3) 110 |
| Sampler Name & | Signature: | | | | | | | | | | | | | | 1.30 | lene | цар | | 05 / | | 00 | | | 3 | | A 6 | 19/ | / 60 | 010 | | | | |
| | | SAMPI | LING | | ers | | MAT | RD | X | | ESE) | | | | 8015) | phtha | ethyl | / 8021 | EPA 6 | | PCB, | + | | (ys on | 8270 | by EP | 0109) | (6010 | 9/60 | | | | |
| SAMPLE ID (Field Point Name) | LOCATION | Date | Time | # Containers | Type Containers | Water | Soil | Sludge | Other | ICE | HCL | HNO ₃ | Other | BTEX (8021B) | TPH as Diesel (8015) & | EPA 8260 - naphthalene | 8010-Pluse-2-methyl napthatene PCD | EPA 601 / 8010 / 8021 | BTEX ONLY (EPA 602 / 8020) | EPA 608 / 8081 | EPA 608 / 8082 PCB's ONLY | EPA 8140 / 8141 | EPA 8150 / 8151 | EPA 8260 (9 oxys only) | EPA 525 / 625 / 8270 | PAH's / PNA's by EPA | CAM-17 Metals (6010 / 6020) | LUFT 5 Metals (6010 / 6020) | Lead (200.8 / 200.9 / 6010) | SPLC Leach | TTLC Leach | | |
| 0-1 | hattas | 3/1) | 9AM | 1 | the | X | | + | | V | | | + | + | | | X | + | | | | | | | | | | H | - | - | 1 | | Rush |
| | UST | 7" | - | _ | | | | | | | | | | | | 1 | | • | | | | | | | | | | | | | | | TAT |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Della soleh i 1 N | | TD | | | | | | | | | 1 | 1 | | | | | - | | | | | | | | | | | | | | | | |
| Relinquished By | 7 | Date: 3/11 / | Fime: | Rece | ived By: | 2 | _ | _ | | = | 3 | | (| GOO | OD C | ONE | OITIC | ON_ | | | | | | | | | | CO | MMI | ENT | S: | | |
| Relinquished By: Date: Fime: Received By: | | | | | | I A | PP | ROP | RIA | | ON | N LA | | S | _ | 4 | | | | | | | | | | | | | | | | | |
| 4 | | Jany. | | 15000 | , ica bj. | | | | 1.0 | | | | P | PRE | SER | VAT | | VO | AS | 0&0 | | ME pH< | | s | отн | IER | | | | | | | |

McCampbell Analytical, Inc. 1534 Willow Pass Rd

CHAIN-OF-CUSTODY RECORD

4

9

Page 1 of 1

5

10

Prepared by: Jena Alfaro

| V V A V | 52-9262 | | | | W | orkO | rder: | 1303304 | 4 | Cli | ientCo | de: CF | ESW | | | | |
|--------------|--|-------------|---------------------------------|------------------------|------|------|---------|---------|-----------------------------------|----------|---------|----------|----------------------|---------------|--------------------------|-------|-----|
| | | ☐ WaterTrax | WriteOn | EDF | E | xcel | | EQuIS | • | Email | | HardC | ору | ThirdP | 'arty | J-fla | g |
| Report to: | | | | | | В | ill to: | | | | | | Reque | sted TAT | : | 1 | day |
| 1485 Treat | onmental Services, Inc. Blvd, Ste. 203A ek, CA 94597 90 FAX: 925-937-1759 | cc: PO: | cook@cooken\ #1095; Paoli Co | | | 1485 | Enviro | Blvd, S | tal Servi Ste. 203/ . 94597 | | C. | | Received Printed: | | 03/11/2013 03/11/2013 | | |
| | | | | | Ī | | | | R | equested | d Tests | (See leg | gend be | low) | | | |
| Lab ID | Client ID | | Matrix | Collection Date | Hold | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1303304-001 | 0-1 | | Water | 3/11/2013 9:00 | | Α | | | | | | | $\overline{}$ | $\overline{}$ | | | |
| | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | |
| Test Legend: | | | | | | | | | | | | | | | | | |

Comments:

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11

8081PCB_W

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12

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

3

8

Sample Receipt Checklist

| Client Name: | Cook Environmen | tai Services, Inc. | | | Date and | Time Received: 3/11/2013 | 5:58:UZ PIVI |
|-------------------|-------------------------------------|----------------------|-----------|-----------|--------------------|--------------------------------|--------------|
| Project Name: | #1095; Paoli Cons | struction | | | LogIn Re | viewed by: | Jena Alfaro |
| WorkOrder N°: | 1303304 | Matrix: Water | | | Carrier: | Rob Pringle (MAI Courier) | |
| | | <u>Cha</u> | ain of Cu | ustody (C | OC) Information | <u>n</u> | |
| Chain of custody | / present? | | Yes | ✓ | No 🗌 | | |
| Chain of custody | / signed when relinq | uished and received? | Yes | ✓ | No 🗌 | | |
| Chain of custody | / agrees with sample | labels? | Yes | • | No 🗌 | | |
| Sample IDs note | ed by Client on COC | ? | Yes | ✓ | No 🗌 | | |
| Date and Time of | of collection noted by | Client on COC? | Yes | ✓ | No 🗌 | | |
| Sampler's name | noted on COC? | | Yes | ✓ | No 🗌 | | |
| | | | Sample | e Receipt | <u>Information</u> | | |
| Custody seals in | itact on shipping con | tainer/cooler? | Yes | | No \square | NA 🗹 | |
| - | ner/cooler in good co | | Yes | ✓ | No 🗌 | | |
| • | er containers/bottles | | Yes | ✓ | No 🗌 | | |
| Sample containe | ers intact? | | Yes | ✓ | No 🗌 | | |
| Sufficient sample | e volume for indicate | ed test? | Yes | ✓ | No 🗌 | | |
| | | Sample Pres | sorvatio | n and Ho | ld Time (HT) Inf | iormation | |
| Alll | in and a side in the plating of the | - | | <u>√</u> | No \square | <u>ormation</u> | |
| · | eived within holding ti | me? | Yes | er Temp: | | NA 🗆 | |
| · | Blank temperature | | | r remp. | | o VOA vials submitted ✓ | |
| | lls have zero headsp | | Yes | | _ | o voa viais submitted ▼ | |
| · | hecked for correct pr | | Yes | ✓ | No _ | | |
| | otable upon receipt (| pH<2)? | Yes | | No 🗌 | NA 🗹 | |
| Samples Receive | red on Ice? | | Yes | . | No 🗌 | | |
| | | (Ice Ty _l | pe: WE | T ICE) | | | |
| * NOTE: If the "N | No" box is checked, | see comments below. | | | | | |
| | | | | | | | ===== |
| Comments: | | . — — — — | | | | | |

| Cook Environmental Services, Inc. | | Date Sampled: | 03/11/13 |
|-----------------------------------|--------------------------|-----------------|----------|
| 1485 Treat Blvd, Ste. 203A | Construction | Date Received: | 03/11/13 |
| 1405 Heat Bivd, Stc. 205A | Client Contact: Tim Cook | Date Extracted: | 03/11/13 |
| Walnut Creek, CA 94597 | Client P.O.: | Date Analyzed: | 03/11/13 |

| | Organochlorine Pesticides by GC-ECD (8080 Basic Target List) + PCBs* | |
|----------------------------|--|---|
| Extraction Method: SW3510C | Analytical Method: SW8081A/8082 | ١ |

| Extraction Method: SW3510C | • | Method: SW8081A/8082 | Work Order: 13 | 303304 |
|----------------------------|--------------|----------------------|----------------|---------|
| Lab ID | 1303304-001A | | n « | T: '. C |
| Client ID | 0-1 | | Reporting DF | =1 |
| Matrix | W | | S | W |
| DF | 20 | | 5 | ** |
| Compound | | Concentration | μg/kg | μg/L |
| Aldrin | ND<0.10 | | NA | 0.005 |
| a-BHC | ND<0.20 | | NA | 0.01 |
| b-BHC | ND<0.10 | | NA | 0.005 |
| d-BHC | ND<0.10 | | NA | 0.005 |
| g-BHC | ND<0.40 | | NA | 0.02 |
| Chlordane (Technical) | ND<2.0 | | NA | 0.1 |
| a-Chlordane | ND<1.0 | | NA | 0.05 |
| g-Chlordane | ND<1.0 | | NA | 0.05 |
| p,p-DDD | ND<0.20 | | NA | 0.01 |
| p,p-DDE | ND<0.20 | | NA | 0.01 |
| p,p-DDT | ND<0.20 | | NA | 0.01 |
| Dieldrin | ND<0.20 | | NA | 0.01 |
| Endosulfan I | ND<0.40 | | NA | 0.02 |
| Endosulfan II | ND<0.40 | | NA | 0.02 |
| Endosulfan sulfate | ND<1.0 | | NA | 0.05 |
| Endrin | ND<0.20 | | NA | 0.01 |
| Endrin aldehyde | ND<1.0 | | NA | 0.05 |
| Endrin ketone | ND<1.0 | | NA | 0.05 |
| Heptachlor | ND<0.20 | | NA | 0.01 |
| Heptachlor epoxide | ND<0.20 | | NA | 0.01 |
| Hexachlorobenzene | ND<10 | | NA | 0.5 |
| Hexachlorocyclopentadiene | ND<20 | | NA | 1.0 |
| Methoxychlor | ND<2.0 | | NA | 0.1 |
| Toxaphene | ND<10 | | NA | 0.5 |
| Aroclor1016 | ND<10 | | NA | 0.5 |
| Aroclor1221 | ND<10 | | NA | 0.5 |
| Aroclor1232 | ND<10 | | NA | 0.5 |
| Aroclor1242 | ND<10 | | NA | 0.5 |
| Aroclor1248 | ND<10 | | NA | 0.5 |
| Aroclor1254 | ND<10 | | NA | 0.5 |
| Aroclor1260 | ND<10 | | NA | 0.5 |
| PCBs, total | ND<10 | | NA | 0.5 |
| | Surro | ogate Recoveries (%) | | |
| %SS: | 108 | | | |
| Comments | 9.3 | | | |

| Comments | a3 | | | | |
|---|----------------------|-----------------------|-------------------------|-------------------------|-----------------------------|
| * water samples in µg/L, soil/sludge/solid sa | amples in mg/kg, wip | e samples in µg/wipe. | , filter samples in µg/ | filter, product/oil/non | -aqueous liquid samples and |
| all TCLP & SPLP extracts are reported in m | g/L. | | | | |

surrogate diluted out of range or surrogate coelutes with another peak.

a3) sample diluted due to high organic content.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor.

OC SUMMARY REPORT FOR SW8081A/8082

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 75381 WorkOrder: 1303304

| EPA Method: SW8081A/8082 Extraction: S | W3510C | | | | | | Spiked Sam | ple ID: | N/A |
|--|--------|--------|--------|--------|--------|--------|------------|---------|--------------|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | Acc | eptance | Criteria (%) |
| , mayte | μg/L | μg/L | % Rec. | % Rec. | % RPD | % Rec. | MS / MSD | RPD | LCS |
| Aldrin | N/A | 1.25 | N/A | N/A | N/A | 95 | N/A | N/A | 70 - 130 |
| g-BHC | N/A | 1.25 | N/A | N/A | N/A | 100 | N/A | N/A | 70 - 130 |
| p,p-DDT | N/A | 1.25 | N/A | N/A | N/A | 85.7 | N/A | N/A | 70 - 130 |
| Dieldrin | N/A | 1.25 | N/A | N/A | N/A | 109 | N/A | N/A | 70 - 130 |
| Endrin | N/A | 1.25 | N/A | N/A | N/A | 102 | N/A | N/A | 70 - 130 |
| Heptachlor | N/A | 1.25 | N/A | N/A | N/A | 95.9 | N/A | N/A | 70 - 130 |
| %SS: | N/A | 1.25 | N/A | N/A | N/A | 81 | N/A | N/A | 70 - 130 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 75381 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|------------------|----------------|-------------------|--------|--------------|----------------|---------------|
| 1303304-001A | 03/11/13 9:00 AM | 1 03/11/13 | 03/11/13 11:36 PM | | | | |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QA/QC Officer

DHS ELAP Certification 1644

APPENDIX B

Laboratory Analytical Report for Soil Samples

Analytical Report

| Cook Environmental Services, Inc. | Client Project ID: #1095; Paoli Construction | Date Sampled: 03/13/13 |
|-----------------------------------|--|--------------------------|
| 1485 Treat Blvd, Ste. 203A | | Date Received: 03/13/13 |
| 1100 11000 21100, 510. 20011 | Client Contact: Tim Cook | Date Reported: 03/19/13 |
| Walnut Creek, CA 94597 | Client P.O.: | Date Completed: 03/19/13 |

WorkOrder: 1303385

March 19, 2013

Dear Tim:

Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: #1095; Paoli Construction,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

1303385

| McCAMPBELL ANALYTICAL, INC. 1534 Willow Pass Rd. Pittsburg, CA 94565 Website: www.mccampbell.com Telephone: (877) 252-9262 Email: main@mccampbell.com Fax: (925) 252-9269 | | | | | | | | | | ou | HA ND | TI | MI | E | F | RUS | H | Ę | ⊒ HR | | 48 H | l IR | 72 I | | | | | | | | | |
|--|---------------|------------|----------|--------------|-----------------|-------|-------|--------|-------|------|----------|------------------|----------|--------------|----------------------|------------------------|--------------------------------|-----------------------|----------------------------|----------------|---------------------------|-----------------|-----------------|------------------------|----------------------|--|-----------------------------|-----------------------------|-----------------------------|-----------|------------|-----------------------|
| Report To: Tim C | Cook | | В | ill Te | o: | | | | | | | | | | | | | | A | aly | sis! | Reg | ues | | | | | | | C | ther | Comments |
| Company: Cook | Environmen | tal Servic | es, Inc. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| 1485 7 | Freat Blvd, S | uite 203A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Filter |
| Walnu | ut Creek, CA | 94597 | E-Ma | il: tec | ook@coo | ken | viror | nme | ntal | .cor | n | | | | | | | | | | | | | | | 310 | | | | | | Samples for Metals |
| Tele: (925) 478-83 | 390 | | F | ax: (| (925) 478 | -839 | 94 | | | | | | | | | | | | | | | | | | | 8/0 | | | | | | analysis: |
| Project #:1095 | | | P | rojec | et Name: | Pa | oli C | ons | truc | tion | | | П | | om | | ene | | 6 | | | | | | | 827 | | | | | | Yes / No |
| Project Location: | 385 26th St., | Oakland | | | - 1 | , | | • | | | | | | | PH | | thal | | 802 | | 3 | | | | | 125 | 020 | 20) | _ | | | 1.00////0 |
| Sampler Name & | | | | Tu | 1.6 | | | | | | | | | | & TPHmo | lene | appl | | 02/ | | 0 | | | (6) | | A 6 | 9/ | 09/ | 010 | | | |
| | | SAMPI | INC | | | Ι, | MAT | rpr | v | N | ŒT | HOD | П | | (2) | tha | ly! | 021 | A 6 | | B | | | s on | 20 | EP | 010 | 010 | 9/6 | | | 1 |
| | | SAMIT | I | 90 | ner | - | VIA. | KL | ^ | PR | ESE | RVE | D | | (80 | lap | met | 8/0 | (EP | _ | 2 P(| # | 21 | oxy | /82 | s by | ds (| 9) s | 200 | | | |
| SAMPLE ID (Field Point Name) | LOCATION | Date | Time | # Containers | Type Containers | Water | Soil | Sindoe | Other | ICE | HCL | HNO ₃ | Other | BTEX (8021B) | TPH as Diesel (8015) | EPA 8260 - naphthalene | 8310 Pluse 2-methyl napthalene | EPA 601 / 8010 / 8021 | BTEX ONLY (EPA 602 / 8020) | EPA 608 / 8081 | EPA 608 / 8082 PCB's ONLY | EPA 8140 / 8141 | EPA 8150 / 8151 | EPA 8260 (9 oxys only) | EPA 525 / 625 / 8270 | PAH's / PNA's by EPA 625 / 8270 / 8310 | CAM-17 Metals (6010 / 6020) | LUFT 5 Metals (6010 / 6020) | Lead (200.8 / 200.9 / 6010) | SPLCLeach | TTLC Leach | |
| 5-1 | PRE | 3/0 | | 1 | - Indian | | V | | | V | | | + | V | V | V | - | | | | | | | | | | | | | | - | + + |
| | | 3/13 | - | - | tube | | X | + | + | ~ | | H | \dashv | 0 | 6 | 0 | | | - | - | - | | | - | | | | | - | | - | |
| 5-2 | near street | 9/13 | - | 1 | TUBE | | X | + | + | X | | Н | 4 | X | X | Х | | _ | _ | - | - | | | | | | | | | | | - |
| | | | - | | | | | 1 | | | | | 4 | | | | | | | | | | | | | | | | | | | |
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| | | | - | | - | | - | + | - | | | | - | - | | | | - | - | - | - | - | | | | | | - | | | - | - |
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McCampbell Analytical, Inc.

1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1303385 ClientCode: CESW

| | | ☐ WaterTrax | WriteOn | EDF | _E | xcel | | EQuIS | ✓ |]Email | | HardC | ору | ThirdF | Party | J-flag | J |
|-----------------|--|---|---------|-----------------|------------|------------|---|---------------------------------------|----------|----------|-----------|----------|----------|------------------------------|-------|--------|----|
| 1485 T Walnu | Environmental Services, Inc. Freat Blvd, Ste. 203A t Creek, CA 94597 | Email: tcc cc: PO: ProjectNo: #1 | | В | Coo 148 | 5 Treat | | al Servi te. 203 <i>l</i> 94597 | | | | | d: | 5 da 03/13/20 03/13/20 |)13 | | |
| (925) 4 | 78-8390 FAX: 925-937-1759 | | | | ſ | | | | Po | equested | I Toete / | (Saa laa | and ho | low) | | | |
| Lab ID | Client ID | | Matrix | Collection Date | Hold | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1303385-00 |)1 S-1 | | Soil | 3/13/2013 | | A | Α | Α | | | | | <u> </u> | | | | |
| 1303385-00 | | | Soil | 3/13/2013 | | Α | Α | Α | | | | | | | | | |
| Test Legen | nd: 8260VOC_S 2 | G-MBTEX_ | _S | 3 TPH | (DMO) | _ S | | 4 | | | | | Ę | 5 | | | |
| 6 | 7 | | | 8 | | | | 9 | | | | | 1 | 0 | | | |
| 11 | 12 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | Prepa | red by: | Jena | Alfaro | |

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).

Hazardous samples will be returned to client or disposed of at client expense.

Sample Receipt Checklist

| Client Name: | COOK Environme | ntai Services, inc. | | | Date and | Time Received: 3/13/2013 | 3:28:27 PW |
|-------------------|----------------------|-----------------------|----------|-----------|-------------------|---------------------------|-------------|
| Project Name: | #1095; Paoli Con | struction | | | LogIn Re | viewed by: | Jena Alfaro |
| WorkOrder N°: | 1303385 | Matrix: Soil | | | Carrier: | Rob Pringle (MAI Courier) | |
| | | Cha | in of Cu | ustody (C | OC) Information | 1 | |
| Chain of custody | present? | | Yes | ✓ | No 🗌 | | |
| Chain of custody | signed when relind | quished and received? | Yes | ✓ | No 🗌 | | |
| Chain of custody | agrees with sampl | e labels? | Yes | ✓ | No 🗌 | | |
| Sample IDs note | ed by Client on COC | ?? | Yes | ✓ | No 🗌 | | |
| Date and Time o | f collection noted b | y Client on COC? | Yes | ✓ | No 🗌 | | |
| Sampler's name | noted on COC? | | Yes | ✓ | No \square | | |
| | | | Sample | e Receipt | Information | | |
| Custody seals in | tact on shipping co | ntainer/cooler? | Yes | | No 🗌 | NA 🗸 | |
| Shipping contain | er/cooler in good co | ondition? | Yes | ✓ | No 🗌 | | |
| Samples in prop | er containers/bottle | s? | Yes | ✓ | No 🗌 | | |
| Sample containe | ers intact? | | Yes | ✓ | No 🗌 | | |
| Sufficient sample | e volume for indicat | ed test? | Yes | • | No 🗌 | | |
| | | Sample Pres | servatio | n and Ho | old Time (HT) Inf | ormation | |
| All samples rece | ived within holding | time? | Yes | ✓ | No 🗌 | | |
| Container/Temp | Blank temperature | | Coole | er Temp: | 2.8°C | NA 🗌 | |
| Water - VOA via | ls have zero heads | pace / no bubbles? | Yes | | No 🗆 No | VOA vials submitted | |
| Sample labels ch | necked for correct p | reservation? | Yes | ✓ | No 🗌 | | |
| Metal - pH accep | otable upon receipt | (pH<2)? | Yes | | No \square | NA 🗹 | |
| Samples Receive | ed on Ice? | | Yes | ✓ | No 🗌 | | |
| | | (Ісе Тур | oe: WE | TICE) |) | | |
| * NOTE: If the "N | No" box is checked, | see comments below. | | | | | |
| | | :===== | | | | | |
| Comments: | | | | | | | |

| Cook Environmental Services, Inc. | Client Project ID: #1095; Paoli | Date Sampled: 03/13/13 |
|-----------------------------------|---------------------------------|-------------------------|
| 1485 Treat Blvd, Ste. 203A | Construction | Date Received: 03/13/13 |
| | Client Contact: Tim Cook | Date Extracted 03/13/13 |
| Walnut Creek, CA 94597 | Client P.O.: | Date Analyzed 03/14/13 |

Volatile Organics by P&T and GC/MS*

| Extraction method: SW5030B Analytical met | ods: SW8260B | Work Order: | 1303385 |
|---|--------------|-------------|---------|
|---|--------------|-------------|---------|

| Lab ID | Client ID | Matrix | Naphthalene | DF | % SS | Comments |
|--------|-----------|--------|-------------|-----|------|----------|
| 001A | S-1 | S | 10 | 200 | 87 | |
| 002A | S-2 | S | 14 | 200 | 91 | |
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| Reporting Limit for DF =1; ND means not detected at or above the reporting limit | W | NA | NA |
|--|---|-------|-------|
| | S | 0.005 | mg/Kg |

^{*} water and vapor samples and all TCLP & SPLP extracts are reported in $\mu g/L$, soil/sludge/solid samples in mg/kg, wipe samples in $\mu g/kg$, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

Angela Rydelius, Lab Manager

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

| Cook Environmental Services, Inc. | Client Project ID: #1095; Paoli | Date Sampled: | 03/13/13 |
|-----------------------------------|---------------------------------|-----------------|-------------------|
| 1485 Treat Blvd, Ste. 203A | Construction | Date Received: | 03/13/13 |
| , | Client Contact: Tim Cook | Date Extracted: | 03/13/13 |
| Walnut Creek, CA 94597 | Client P.O.: | Date Analyzed: | 03/14/13-03/15/13 |

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

| Lab ID Client ID Matrix TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes DF % SS Comment 001A S-1 S ND<1.0 ND<1.0 <t< th=""><th>Extraction</th><th>method: SW5030B</th><th></th><th>inge (co ciz)</th><th></th><th>ical methods:</th><th></th><th></th><th></th><th></th><th>rk Order:</th><th>1303385</th></t<> | Extraction | method: SW5030B | | inge (co ciz) | | ical methods: | | | | | rk Order: | 1303385 |
|---|------------|-----------------|--------|---------------|------|---------------|---------|--------------|---------|-----|-----------|----------|
| | Lab ID | Client ID | Matrix | TPH(g) | MTBE | Benzene | Toluene | Ethylbenzene | Xylenes | DF | % SS | Comments |
| 002A S-2 S ND<1.0 | 001A | S-1 | S | | | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | 200 | # | d7 |
| | 002A | S-2 | S | | | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | 200 | 110 | d7 |
| | | | | | | | | | | | | |
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| Reporting Limit for DF =1; ND means not detected at or | W | 50 | 5.0 | 0.5 | 0.5 | 0.5 | 0.5 | ug/L |
|---|---|-----|------|-------|-------|-------|-------|-------|
| above the reporting limit | S | 1.0 | 0.05 | 0.005 | 0.005 | 0.005 | 0.005 | mg/Kg |

^{*} water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

[#] cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

| • | • | Date Sampled: | 03/13/13 |
|----------------------------|--------------------------|-----------------|----------|
| 1485 Treat Blvd, Ste. 203A | Construction | Date Received: | 03/13/13 |
| | Client Contact: Tim Cook | Date Extracted: | 03/13/13 |
| Walnut Creek, CA 94597 | Client P.O.: | Date Analyzed: | 03/15/13 |

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3550B Analytical methods: SW8015B Work Order: 1303385

| Lab ID | Client ID | Matrix | TPH-Diesel (C10-C23) | TPH-Motor Oil (C18-C36) | DF | % SS | Comments | | |
|--------------|-----------|--------|-------------------------|----------------------------|-----|------|----------|--|--|
| 1303385-001A | S-1 | S | 11,000 | 11,000 | 100 | 101 | e7,e1,e2 | | |
| 1303385-002A | S-2 | S | 6500 | 5200 | 50 | 102 | e1,e7,e2 | | |
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| | | | | | | | | | |

| Reporting Limit for DF =1; ND means not detected at or | W | NA | NA | ug/L |
|---|---|-----|-----|-------|
| above the reporting limit | S | 1.0 | 5.0 | mg/Kg |

^{*} water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

e1) unmodified or weakly modified diesel is significant

e2) diesel range compounds are significant; no recognizable pattern

e7) oil range compounds are significant

Angela Rydelius, Lab Manager

DHS ELAP Certification 1644

[#] cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 75463 WorkOrder: 1303385

| EPA Method: SW8015B Extractio | n: SW3550B | | | | | 5 | Spiked Sam | ple ID: | 1303388-001A |
|-------------------------------|------------|--------|--------|--------|--------|--------|------------|---------|--------------|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | Acc | eptance | Criteria (%) |
| | mg/Kg | mg/Kg | % Rec. | % Rec. | % RPD | % Rec. | MS / MSD | RPD | LCS |
| TPH-Diesel (C10-C23) | 11 | 40 | NR | NR | NR | 98 | N/A | N/A | 70 - 130 |
| %SS: | 82 | 25 | NR | NR | NR | 93 | N/A | N/A | 70 - 130 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 75463 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|------------------|--------------|--------------|----------------|-------------------|
| 1303385-001A | 03/13/13 | 3 03/13/13 | 03/15/13 9:17 PM | 1303385-002A | 03/13/13 | 3 03/13/13 | 03/15/13 11:35 PM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 75471 WorkOrder: 1303385

| EPA Method: SW8260B Extraction: S | W5030B | | | | | ; | Spiked Sam | ple ID: | 1303385-001A |
|-----------------------------------|--------|--------|--------|--------|--------|--------|------------|--------------|--------------|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | Acc | Criteria (%) | |
| . way c | mg/Kg | mg/Kg | % Rec. | % Rec. | % RPD | % Rec. | MS / MSD | RPD | LCS |
| tert-Amyl methyl ether (TAME) | ND<1 | 0.050 | NR | NR | NR | 90.8 | N/A | N/A | 70 - 130 |
| Benzene | ND<1 | 0.050 | NR | NR | NR | 95.4 | N/A | N/A | 70 - 130 |
| t-Butyl alcohol (TBA) | ND<10 | 0.20 | NR | NR | NR | 112 | N/A | N/A | 70 - 130 |
| Chlorobenzene | ND<1 | 0.050 | NR | NR | NR | 95.4 | N/A | N/A | 70 - 130 |
| 1,2-Dibromoethane (EDB) | ND<0.8 | 0.050 | NR | NR | NR | 101 | N/A | N/A | 70 - 130 |
| 1,2-Dichloroethane (1,2-DCA) | ND<0.8 | 0.050 | NR | NR | NR | 101 | N/A | N/A | 70 - 130 |
| Diisopropyl ether (DIPE) | ND<1 | 0.050 | NR | NR | NR | 99.2 | N/A | N/A | 70 - 130 |
| Ethyl tert-butyl ether (ETBE) | ND<1 | 0.050 | NR | NR | NR | 99.5 | N/A | N/A | 70 - 130 |
| Methyl-t-butyl ether (MTBE) | ND<1 | 0.050 | NR | NR | NR | 99.5 | N/A | N/A | 70 - 130 |
| Toluene | ND<1 | 0.050 | NR | NR | NR | 104 | N/A | N/A | 70 - 130 |
| Trichloroethene | ND<1 | 0.050 | NR | NR | NR | 93 | N/A | N/A | 70 - 130 |
| %SS1: | 99 | 0.12 | NR | NR | NR | 97 | N/A | N/A | 70 - 130 |
| %SS2: | 107 | 0.12 | NR | NR | NR | 115 | N/A | N/A | 70 - 130 |
| %SS3: | 87 | 0.012 | NR | NR | NR | 112 | N/A | N/A | 70 - 130 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 75471 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|------------------|--------------|--------------|----------------|------------------|
| 1303385-001A | 03/13/13 | 03/13/13 | 03/14/13 1:22 AM | 1303385-002A | 03/13/13 | 03/13/13 | 03/14/13 2:04 AM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

A QA/QC Officer

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 75465 WorkOrder: 1303385

| EPA Method: SW8021B/8015Bm Extraction: S | | | | | ; | Spiked Sam | ple ID: | 1303387-002A | |
|--|--------|--------|--------|--------|--------|------------|----------|--------------|--------------|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | Acc | eptance | Criteria (%) |
| , wally c | mg/Kg | mg/Kg | % Rec. | % Rec. | % RPD | % Rec. | MS / MSD | RPD | LCS |
| TPH(btex) [£] | ND | 0.60 | 95.9 | 101 | 5.38 | 99.2 | 70 - 130 | 20 | 70 - 130 |
| MTBE | ND | 0.10 | 74.2 | 81.5 | 8.79 | 76.6 | 70 - 130 | 20 | 70 - 130 |
| Benzene | ND | 0.10 | 98.8 | 104 | 4.90 | 98.2 | 70 - 130 | 20 | 70 - 130 |
| Toluene | ND | 0.10 | 95.8 | 100 | 4.13 | 96.2 | 70 - 130 | 20 | 70 - 130 |
| Ethylbenzene | ND | 0.10 | 97.9 | 101 | 2.91 | 96.2 | 70 - 130 | 20 | 70 - 130 |
| Xylenes | ND | 0.30 | 98 | 101 | 3.25 | 97.4 | 70 - 130 | 20 | 70 - 130 |
| %SS: | 110 | 0.10 | 79 | 83 | 5.12 | 100 | 70 - 130 | 20 | 70 - 130 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 75465 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|------------------|--------------|--------------|----------------|------------------|
| 1303385-001A | 03/13/13 | 3 03/13/13 | 03/14/13 6:06 AM | 1303385-002A | 03/13/13 | 3 03/13/13 | 03/15/13 3:18 AM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QA/QC Officer

APPENDIX C

Special Waste Profiles for Non-Hazardous Soil

Potrero Hills Landfill 3675 Potrero Hills Lane Suisun, CA 94585 Phone: 707.432.4622 Fax: 707.426.5013



| FOR OFFICE USE ONLY | * * | |
|---------------------|--------|--|
| APPROVAL NUMBER: | ÷ | |
| EXPIRATION DATE: | | |
| APPROVED BY: | | |

SPECIAL WASTE PROFILE

Information utilized for completion of this form must originate from an authorized representative of the generator of the waste material. The information on this form must be COMPLETELY FILLED OUT, TYPE WRITTEN, and the form must be SIGNED BY AUTHORIZED REPRESENTATIVE.

| A. GENERATOR INFORMA | ATION | B CUSTOMER/BULLING | MEANA | | |
|---|---|--|--|--|--|
| 1. Generator Name: Susan Casentini | Trust | B. CUSTOMER/BILLING INFORMATION Billing Name: Fremouw Environmental Services, Inc. | | | |
| 2. Address: 385 26th St. | | 2. Address: PO Box 2875 / 6940 Ti | | | |
| City: Oakland | County: | City: Vacaville / Dixon | | | |
| State: CA | Zip: 94901 | State: CA | County: | | |
| 3. Site Location (if different): | | | Zip: 9569695620 | | |
| 4. Contact Name: Susan Casentini Tra | | | 5. Fax Number: 707-448-3499 | | |
| 5. Phone Number: 925-478-8390 | 6. Fax Number: | Phone Number: 707-448-3700 Email Address: dbarron@hazwasi | | | |
| 7. Email Address: | | Is there a service agreement on file | | | |
| 8. State Facility ID # (if applicable): | | 8. Agent / Consultant: Joe Lynch | er Mies II NO | | |
| 9. State Waste Code (if applicable): | - | 9. Letter of Authorization: YES | INO | | |
| C. TRANSPORTER/SHIPPI | NG INFORMATION | D. WASTE STREAM INFO | | | |
| 1. Name: Fremouw Environmental Ser | | Common Name of Material or Was | te Stream: Non Haz Sail for Puriel | | |
| 2. Street Address: 6940 Tremont Road | | The state of the s | ouedin. Non Haz Son for Bullar | | |
| City: Dixon State: 0 | | Detailed Description of Process or | How Concreted | | |
| 3. Phone Number: 707-448-3700 | 4. Fax Number: 707-448-3499 | Site Clean-up | 1 1049 GC11C1 aled (Attach editional sheet if needed); | | |
| 5. Contact Name: Dina | | | | | |
| 6. EPA or State Transporter ID #: CAR | 000 171 017 | _ 3. Physical State at 70°F: ⊠ Solid ☐ Liquid ☐ Powder ☐ Othe | Semi-Solid Sludge | | |
| 7. Designated Landfill(s): Potrero Hills | | † | | | |
| 8. Packaging: Bulk Solids Bulk | k Liquide D Dame D Dall Off | 4. Free Liquids: ☑ NO ☐ YES % 5. Color: varies | Liquids | | |
| Dump Truck Tank Truck | Vacuum Box ☐ Bagged | | 6. pH Range: 4 -10 | | |
| 9. Estimated Volume: 30 | | 7. Odor: ☐ None ☑ Mild ☐ Signi 8. Flash Point: N/A ☐ °F ☐ °C | ficant Describe: | | |
| ☑ Tons ☑ Cubic Yards ☐ Drun | ns 🔲 Gallons 🔲 Other: | 9. Reactive: NO YES with | | | |
| 10. Shipping Frequency: pe ☐ Month ☑ Quarter ☐ Year | er | 10. State Required Information (if appl | icable): | | |
| | E. NON-HAZARDOUS | DETERMINATION | | | |
| 1. Attached Document(s) (check all that | apply): Not Applicable MSDS 🗵 | Certified Analytical Report Process | : Knowledge | | |
| 2. If Process Knowledge, provide details | 3: | Trocas | - I diowiedge | | |
| 3. If analytical data is attached, is the da ⊠YES ☐ NO Type o | ata derived from testing a representative sa of Sample: Composite Grab | mple in accordance with 40 CFR 261 and | d/or other applicable laws? | | |
| | F. CERTIFICATION | INFORMATION | | | |
| 1. Initial Recertification, list pri | ior approval number(s): | endment, Details: | | | |
| 2. Have there been any changes to the Carlotte Inc. Inc. Inc. Inc. Inc. Inc. Inc. Inc. | composition of, or process generating this value is may be required.) | | teristics of the waste stream? | | |
| materials, that all known and suspected haza PCB's regulated by TSCA or any other regula wastes may undergo inspection upon arrival a | G. WASTE CERTIFICA herein is true and correct, and the material describes as defined by the U.S. EPA, or the state or pirds have been disclosed, and that the waste is not atory authority. I certify that all samples used for at the designated facility and may be refused if the composition of, or process generating this was | ribed is properly identified, classified, package rovince of origin. I certify this waste does not o lot a regulated hazardous waste by governme this analysis are representative of the material ne delivered material does not conform to the | contain any regulated radioactive int or local authority, and does not contain is described herein. I understand that all described herein. Medification will be | | |
| 9 | | _ : | | | |
| AUTHORIZED REPRESENTATIVE SIGNATURE | | DATE COMPLETED | | | |

Potrero Hills Landfill 3675 Potrero Hills Lane Suisun, CA 94585 Phone: 707.432.4622 Fax: 707.426.5013



| FOR OFFICE USE ONLY | |
|---------------------|--|
| APPROVAL NUMBER: | |
| EXPIRATION DATE: | |
| APPROVED BY: | |

SPECIAL WASTE PROFILE

Information utilized for completion of this form must originate from an authorized representative of the generator of the waste material. The information on this form must be COMPLETELY FILLED OUT, TYPE WRITTEN, and the form must be SIGNED BY AUTHORIZED REPRESENTATIVE.

| A. GENERATOR INFORMA | ATION | B. CUSTOMER/BILLING IN | EODMATION | | |
|--|---|--|--|--|--|
| Generator Name: Susan Casentini | Trust | Billing Name: Fremouw Environmental Services, Inc. | | | |
| 2. Address: 385 26th St. | | 2. Address: PO Box 2875 / 6940 Tren | | | |
| City: Oakland | County: | City: Vacaville / Dixon | County: | | |
| State: CA | Zip: 94901 | State: CA | Zip: 9569695620 | | |
| Site Location (if different): | | Contact Name: Dina Barron | шр. 5005093020 | | |
| 4. Contact Name: Susan Casentini Trւ | ıst | | 5. Fax Number: 707-448-3499 | | |
| 5. Phone Number: 925-478-8390 | 6. Fax Number: | Email Address: dbarron@hazwaster | | | |
| 7. Email Address: | | 7. Is there a service agreement on file? | | | |
| 8. State Facility ID # (if applicable): | | 8. Agent / Consultant: Joe Lynch | <u> </u> | | |
| 9. State Waste Code (if applicable): | | 9. Letter of Authorization: YES | NO | | |
| C. TRANSPORTER/SHIPPII | NG INFORMATION | D. WASTE STREAM INFOR | | | |
| 1. Name: Fremouw Environmental Ser | vices, Inc | Common Name of Material or Waste | | | |
| 2. Street Address: 6940 Tremont Road | | debris for Burial | out out of the same | | |
| City: Dixon State: 0 | CA Zip: 95620 | 2. Detailed Description of Process or Ho | ow Generated (Attach additional about it needed). | | |
| 3. Phone Number: 707-448-3700 | 4. Fax Number: 707-448-3499 | Site Clean-up | , | | |
| 5. Contact Name: Dina | | 3. Physical State at 70°F: ⊠ Solid □ | Comi Colla El Cludes | | |
| 6. EPA or State Transporter ID #: CAR | 000 171 017 | Liquid Powder Other | _ semi-solia | | |
| 7. Designated Landfill(s): Potrero Hills | | 4. Free Liquids: ☑ NO ☐ YES % Li | | | |
| 8. Packaging: Bulk Solids Bulk | Liquids Drums DRoll-Off | | 6. pH Range: 4 -10 | | |
| ☐ Dump Truck ☐ Tank Truck ☐ | Vacuum Box 🔲 Bagged | 7. Odor: ☐ None ☑ Mild ☐ Signific | | | |
| 9. Estimated Volume: 10 | | 8. Flash Point: N/A | | | |
| ☑ Tons ☑ Cubic Yards ☐ Drun | ns Gallons Other: | 9. Reactive: ⊠ NO ☐ YES with | | | |
| 10. Shipping Frequency: per ☐ Month ☑ Quarter ☐ Year | r | 10. State Required Information (if application) | able): | | |
| | E. NON-HAZARDOUS | | | | |
| 1. Attached Document(s) (check all that | apply): Not Applicable MSDS | Certified Analytical Report Process K | nowledge | | |
| 2. If Process Knowledge, provide details | | | | | |
| 3. If analytical data is attached, is the da ⊠YES ☐ NO Type o | ta derived from testing a representative sar f Sample: Composite Grab | mple in accordance with 40 CFR 261 and/o | or other applicable laws? | | |
| | F. CERTIFICATION | INFORMATION | | | |
| 1. Initial Recertification, list pri | or approval number(s): | endment, Details: | | | |
| 2. Have there been any changes to the club of the club | composition of, or process generating this was is may be required.) | vaste stream that would alter the character | istics of the waste stream? | | |
| | G. WASTE CERTIFICA | TION STATEMENT: | | | |
| materials, that all known and suspected hazal PCB's regulated by TSCA or any other regula wastes may undergo inspection upon arrival a | nerein is true and correct, and the material descr us as defined by the U.S. EPA, or the state or pr rds have been disclosed, and that the waste is no tory authority. I certify that all samples used for ti the designated facility and may be refused if the e composition of, or process generating this was | ibed is properly identified, classified, packaged, ovince of origin. I certify this waste does not cor of a regulated hazardous waste by government this analysis are representative of the materials to delivered material does not conform to the do | ntain any regulated radioactive or local authority, and does not contain described herein. I understant that all | | |
| AUTHORIZED REPRESENTATIVE NAME/TITLE | · | COMPANY NAME, | | | |
| AUTHORIZED REPRESENTATIVE SIGNATURE | | DATE COMPLETED | | | |

APPENDIX D

Waste Manifests for Non-Hazardous Soil

| | POTRERO HILLS LANDFILL, IN | IC. | | | | |
|--|--|--|--|---|--|----------------------------|
| NON HAZAPPOUTS 1. Gene | Weighed at: | VC. | | 4. Waste Tracking N | | |
| NON-HAZARDOUS 1. Gene WASTE MANIFEST | POTRERO HILLS LANDFILL, IN | 10. | | 0312131 | NEBIB- | |
| 5. Generator a Nerra and Meiling Address SUSAN CASENTINI TE 385 26TH STREET OAKLAND CA 94901 | P.O. Box 68 FAIRFIELD, CA 94533 Deputy: James Quinonsz | | different than m | nailing address) | | |
| Generator's Phone: 9 2 5: | Deposit: Janee Quinonez | | - 11 | S. EPA ID Number | | |
| 6. Transporter 1 Company Name | E-VII TO: 2623 | | | CARO | 0171 | 017 |
| FREMOUW ENVIRO | FREMOUW ENVIRONMENTAL S | SERVICES | | I.S. EPA ID Number | | |
| 7. Transporter 2 Company Name | | | 1 | | | |
| 8. Designated Facility Name and Site Adds POTRERO HILLS LANI 3875 POTRERO HILLS SUISUN CA 94585 | Vehicle ID: Reference: PHLF13075 Grid: 14 HaulCust#: DRIGIN-DAKLAND | | 1 | J.S. EPA ID Number | | |
| Facility's Phone: 707 432-462 | DriverDo? N | | - | 11. Total 12. Un | 9 | |
| 9. Waste Shipping Name and Descri | Route: 031213MFA BIN J616 | | | 11. Total 12 Un Quantity WL/Vo | | |
| 1 | TRLR/LP#: 17030D1 | | | | A PONTE | |
| 1. NON HAZARDOUS | - 1.4 110 | | n | 3 Y | NONE | |
| | 02/20/2013 TIME IN: | 12:58:37 | | | 26-50-6 | |
| 2. | DATE IN: 03/20/2013 TIME OUT: | 13:18:15 | | | CONTRACTOR | 2 |
| | DATE GOT. COTALOT | | | | | |
| | - INBOUND TICKET Number: 01-35 | 6019 | - | | The state of the s | |
| 3. | | 4520 LB | | | 140 S. A. S. | * 1 |
| | SCALE I GROSS HIT | 7360 LB | | Ī | | |
| 1.5.1.5.2 | SUMLE 3 IMPLE 111 | 7160 LB | | | HAR DESIGNA | Maria Art |
| 1000 d | THE TOTAL | | | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| 4. | NET WEIGHT | 1100 25 | | | Co. A. S. | |
| 13. Special Handling Instructions and Addit BIN出 Jら16 | - Oty Description | Amount | HANDLERS TO | HE 40HR TRAI | NED AND USE | PPE. |
| 13. Special Handling Instructions and Additional Management of the Special Handling Instructions and Additional Management of the Special Handling Instructions and Additional Management of the Special Handling Instruction | - Oty Description | Amount Format are fully and accurately of applicable international and in | described above by | the proper shipping n | | ed, peckaged |
| 13. Special Handling Instructions and Addition BINLY JCIL 14. GENERATOR'S/OFFEROR'S CERTIFICATION AND ARREST MARKET AND REPORTED TO A REPORT OF THE PROPERTY | Oty Description 8.58 Profile Soil-T Disp BCATION: I hereby declare that the contents of this consignment in all respects in proper condition for transport according to | AMOUNT Amount Enert are fully and accurately of applicable international and in Signature | described above by national governments | the proper shipping n all regulations. | ame, and are disself | |
| 13. Special Handling Instructions and Addition 13. Special Handling Instructions and Addition 14. GENERATOR'S/OFFEROR'S CERTIFMARKED and labeled/placerded, and are certarator sylvitoriors frames/Typod Name X K. M. M. L. S. F. S. | Description 8.58 Profile Soil-T Disp REATION: I hereby declare that the contents of this consignment in all respects in proper condition for transport according to a second CASATTALL TRUST | Amount Format are fully and accurately of applicable international and in Signature | described above by actoral government | the proper shipping n | ame, and are disself | ed, peckaged Day |
| 13. Special Handling Instructions and Addit BINH JCI6 14. GENERATOR'S/OFFEROR'S CERTIF marked and labeled/placarded, and are Generator's/Officer's Printed/Typed Name XLLE MULSIAN FS. 15. International Shipments | Oty Description 8.58 Profile Soil-T Disp BCATION: I hereby declare that the contents of this consignment in all respects in proper condition for transport according to a specific content of the conten | Amount Format are fully and accurately of applicable international and its Signature Signature Formation U.S. Port of | described above by national governments | the proper shipping n all regulations. | ame, and are disself | ed, peckaged Day |
| 13. Special Handling Instructions and Additional Reports of the Additional Reports of the Reports of Reports only): 14. GENERATOR'S/OFFEROR'S CERTIFICATION OF THE REPORT | Oty Description 8.58 Profile Soil-T Disp BCATION: I hereby declare that the contents of this consignment in all respects in proper condition for transport according to a specific content of the conten | Amount Formula are fully and accurately complicable international and in Signature Signature Form U.S. Port of Date let | described above by according governments A SOTT OF entrylexit. | the proper shipping n all regulations. | ame, and are disself | Day |
| 13. Special Handling Instructions and Addit BINH JCI6 14. GENERATOR'S/OFFEROR'S CERTIF marked and labeled/placorded, and are Cercarator s/Officror's retineal/Typed Name X L L MILLS S 15. International Shipments Transporter Signature (for exports only): 16. Transporter Acknowledgment of Receiptransporter 1 Printed/Typed Name | Oty Description 8.58 Profile Soil-T Disp BCATION: I hereby declare that the contents of this consignment in all respects in proper condition for transport according to a specific content of the conten | Amount Formula are fully and accurately complicable international and in Signature Signature Form U.S. Port of Date let | described above by according governments A SOTT OF entrylexit. | the proper shipping n all regulations. | ame, and are disself. Abouth Month | Day |
| 13. Special Handring Instructions and Addit BINH JC16 14. GENERATOR'S/OFFEROR'S CERTIF marked and labeled/placerded, and are Censurators/Officers intimes/Typed Name X L. M. L. S. S. 15. International Shipments Transporter Signature (for exports only): 16. Transporter Acknowledgment of Racely Transporter 1 Primed/Typed Name PATRICK RAPOZO | Oty Description 8.58 Profile Soil-T Disp BCATION: I hereby declare that the contents of this consignment in all respects in proper condition for transport according to a specific content of the conten | Amount Enert are fully and accurately of applicable international and in Signature Signature From U.S. Port of Date let | described above by according governments A SOTT OF entrylexit. | the proper shipping n all regulations. | ame, and are disself | Day |
| 13. Special Handring Instructions and Addit BINH JCI6 14. GENERATOR'S/OFFEROR'S CERTIF marked and labeled/placerded, and are Censurators/Officers rismes/Typed Name X L. L. M. L. S. S. 15. International Shipments Transporter Signature (for exports only): 16. Transporter Acknowledgment of Raceig Transporter 1 Primed/Typed Name | Oty Description 8.58 Profile Soil-T Disp BCATION: I hereby declare that the contents of this consignment in all respects in proper condition for transport according to a specific content of the conten | Amount Enert are fully and accurately of applicable international and its Signature From U.S. Port of Date let | described above by according governments A SOTT OF entrylexit. | the proper shipping n all regulations. | ame, and are dessification in the second sec | Day |
| 13. Special Handring Instructions and Addit BINH JC16 14. GENERATOR'S/OFFEROR'S CERTIF marked and labeled/placerded, and are Censurators/Officers intimes/Typed Name X L. M. L. S. S. 15. International Shipments Transporter Signature (for exports only): 16. Transporter Acknowledgment of Racely Transporter 1 Primed/Typed Name PATRICK RAPOZO | Oty Description 8.58 Profile Soil-T Disp BCATION: I hereby declare that the contents of this consignment in all respects in proper condition for transport according to a specific content of the conten | Amount Enert are fully and accurately of applicable international and its Signature From U.S. Port of Date let | described above by according governments A SOTT OF entrylexit. | the proper shipping n all regulations. | ame, and are dessification in the second sec | Day |
| 13. Special Handling Instructions and Addit BINH JC16 14. GENERATOR'S/OFFEROR'S CERTIF marked and labeled/placerded, and are Generator s/offcrors rnmear/typed Name X Linemational Shipments Transporter Signature (for exports only): 18. Transporter Acknowledgment of Rocel Transporter 1 Printed/Typed Name PATRICK RAPOZE Transporter 2 Printed/Typed Name | Day Description 8.58 Profile Soil-T Disp ICATION: I hereby declare that the contents of this consignment of the sepects in proper condition for transport according to a separate of Malarists. Desport to Malarists | Amount Enert are fully and accurately of applicable international and its Signature From U.S. Port of Date let | described above by according governments A SOTT OF entrylexit. | the proper shipping n all regulations. | ame, and are desself. Continue Contin | Day |
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| 13. Special Handling Instructions and Addit BINH JCI6 14. GENERATOR'S/OFFEROR'S CERTIF marked and labeled/placeded, and are Centrator systems of the state of t | Day Description 8.58 Profile Soil-T Disp ICATION: I hereby declare that the contents of this consignment of the sepects in proper condition for transport according to a separate of Malarists. Desport to Malarists | Amount Formular fully and accurately applicable international and in Signature Formular Color from U.S. Port of Date less Signature Signature Signature | described above by national government of anti-yearit anti-yearit assing U.S.: | the proper shapping in all regulations. - GRAGOTE. | ame, and are desself. Conth Conth Conth Conth Conth Conth Conth Conth | Day Day Day Day |
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| 13. Special Handling Instructions and Addit BINH JCI6 14. GENERATOR'S/OFFEROR'S CERTIF marked and labeled/glacerded, and are Generators/Officiors Printed/Typed Name X L. M. M. S. Millish F.S. 15. International Shipments D. Transporter Signature (for exports only): 16. Transporter Acknowledgment of Raceig Transporter 1 Printed/Typed Name PATRICK RAPOZE Transporter 2 Printed/Typed Name 17. Discrepancy 17a. Discrepancy Indication Space | Day Description 8.58 Profile Soil-T Disp ICATION: I hereby declare that the contents of this consignment of the sepects in proper condition for transport according to a separate of Malarists. Desport to Malarists | Amount Fement are fully and accurately applicable international and in Signature from U.S. Port of Date less Signature Signature Fresidue | described above by national government of anti-yearit anti-yearit assing U.S.: | the proper shapping in all regulations. - GRAGOTE. | ame, and are desself. Conth Conth Conth Conth Conth Conth Conth Conth | Day Day Day Day |
| 13. Special Handling Instructions and Addit BINH JCI6 14. GENERATOR'S/OFFEROR'S CERTIF marked and labeled/glacerded, and are Generators/Officiors Printed/Typed Name X L. M. M. S. Millish F.S. 15. International Shipments D. Transporter Signature (for exports only): 16. Transporter Acknowledgment of Raceig Transporter 1 Printed/Typed Name PATRICK RAPOZE Transporter 2 Printed/Typed Name 17. Discrepancy 17a. Discrepancy Indication Space | Day Description 8.58 Profile Soil-T Disp ICATION: I hereby declare that the contents of this consignment in all respects in proper condition for transport according to a second to U.S. Desport to Malarists | Amount Fement are fully and accurately applicable international and in Signature from U.S. Port of Date less Signature Signature Fresidue | described above by national government of anti-yearit anti-yearit assing U.S.: | the proper shapping in all regulations. - GRAGOTE. | ame, and are desself. Conth Conth Conth Conth Conth Conth Conth Conth | Day Day Day Day |
| 13. Special Handling Instructions and Addit BINH JCI6 14. GENERATOR'S/OFFEROR'S CERTIF marked and labeled/placerded, and are Generator avolitorars Primed/Typed Name X L. Millish F.S. 15. International Shipmenias | Day Description 8.58 Profile Soil-T Disp ICATION: I hereby declare that the contents of this consignment in all respects in proper condition for transport according to a second to U.S. Desport to Malarists | Amount Fement are fully and accurately applicable international and in Signature from U.S. Port of Date less Signature Signature Fresidue | described above by national government of anti-yearit anti-yearit assing U.S.: | the proper shapping in all regulations. - GRAGOTE. | ame, and are desself. Conth Conth | Day Day Day Full Rejection |
| 13. Special Handling Instructions and Addit BINH JCI6 14. GENERATOR'S/OFFEROR'S CERTIF marked and labeled/glacerded, and are Generators/Officiors Printed/Typed Name X L. M. M. S. Millish F.S. 15. International Shipments D. Transporter Signature (for exports only): 16. Transporter Acknowledgment of Raceig Transporter 1 Printed/Typed Name PATRICK RAPOZE Transporter 2 Printed/Typed Name 17. Discrepancy 17a. Discrepancy Indication Space | Day Description 8.58 Profile Soil-T Disp ICATION: I hereby declare that the contents of this consignment in all respects in proper condition for transport according to a second to U.S. Desport to Malarists | Amount Fement are fully and accurately applicable international and in Signature from U.S. Port of Date less Signature Signature Fresidue | described above by national government of anti-yearit anti-yearit assing U.S.: | the proper shapping in all regulations. - GRAGOTE. | ame, and are desself. Conth Conth | Day Day Day Full Rejection |
| 13. Special Handling Instructions and Addit BINH JCI6 14. GENERATOR'S/OFFEROR'S CERTIF marked and labeled/placerded, and are Generators/Officiors Primes/Typed Name X Ly Formational Shipments 15. International Shipments Transporter Signature (for exports only): 16. Transporter Acknowledgment of Racely Transporter 1 Primed/Typed Name PATRICE RAPOZE Transporter 2 Printed/Typed Name 17. Discrepancy 17a. Discrepancy 17a. Discrepancy Indication Space | Day Description 8.58 Profile Soil-T Disp ICATION: I hereby declare that the contents of this consignment in all respects in proper condition for transport according to a second to U.S. Desport to Malarists | Amount Fement are fully and accurately applicable international and in Signature from U.S. Port of Date less Signature Signature Fresidue | described above by national government of anti-yearit anti-yearit assing U.S.: | the proper shapping in all regulations. - GRAGOTE. | ame, and are desself. Conth Conth | Day Day Day Full Rejection |
| 13. Special Handling Instructions and Addit BINH JCI6 14. GENERATOR'S/OFFEROR'S CERTIF marked and labeled/glacerded, and are Generator synthetics of minestryped name X 15. International Shipments Transporter Signature (for exports only): 18. Transporter Acknowledgment of Recei Transporter 1 Privace/Typed Name PATRICK RAPOZO Transporter 2 Privace/Typed Name 17. Discrepancy 17a. Discrepancy Indication Space Th. Atternate Facility (or Generator) Facility's Phone: 17c. Signature of Atternate Facility (or Generator) | Description 8.58 Profile Soil-T Disp ICATION: I hereby declare that the contents of this consignment of the sepects in proper condition for transport according to a separate of Materials In all respects in proper condition for transport according to a separate of Materials I condition Type I condition Type | Amount Femalt are fully and accurately applicable international and in Signature From U.S. Port of Date less Signature Signature Residue Manifest Reference | described above by national government of anti-yearit anti-yearit assing U.S.: | the proper shapping in all regulations. - GRAGOTE. | ame, and are desself. Conth Conth | Day Day Day Full Rejection |
| 13. Special Handling Instructions and Addit BINH JCI6 14. GENERATOR'S/OFFEROR'S CERTIF- marked and labeled/placerded, and are Cercarator s/Officror's remeat/Typed Name X L L MILLS L S. 15. International Shipments Transporter Signature (for exports only): 16. Transporter Acknowledgment of Recei Transporter 1 Printed/Typed Name PARICK RAPOZO Transporter 2 Printed/Typed Name 17. Discrepancy 17a. Discrepancy 17b. Alternate Facility (or Generator) Factity's Phone: 17c. Signature of Alternate Facility (or Generator) 18. Cesignated Facility Owner or Operator. | Day Description 8.58 Profile Soil-T Disp ICATION: I hereby declare that the contents of this consignment in all respects in proper condition for transport according to a second to U.S. Desport to Malarists | Amount Fement are fully and accurately applicable international and in Signature from U.S. Port of Date less Signature Residue Manifest Reference | described above by national government of anti-yearit anti-yearit assing U.S.: | the proper shapping in all regulations. - GRAGOTE. | Month Month | Day Day Day Full Rejection |
| 13. Special Handring Instructions and Addit BINH JCI6 14. GENERATOR'S/OFFEROR'S CERTIF marked and labeled/placerded, and are Generator synthetical Final Fig. 15. International Shipments Transporter Signature (for exports only): 16. Transporter Acknowledgment of Recei Transporter 1 Privace/Typed Name PARICK RAPOZO Transporter 2 Printed/Typed Namo 17. Discrepancy 17a. Discrepancy Indication Space The Atternate Facility (or Generator) Facility's Phone: To. Signature of Atternate Facility (or Generator) | Description 8.58 Profile Soil-T Disp ICATION: I hereby declare that the contents of this consignment of the sepects in proper condition for transport according to a separate of Materials In all respects in proper condition for transport according to a separate of Materials I condition Type I condition Type | Amount Femalt are fully and accurately applicable international and in Signature From U.S. Port of Date less Signature Signature Residue Manifest Reference | described above by national government of anti-yearit anti-yearit assing U.S.: | the proper shapping in all regulations. - GRAGOTE. | ame, and are desself. Conth Conth | Day Day Day Full Rejection |

| POTRERO HILLS LANDFILL. INC. | 4 | | | |
|--|--|--|--|--|
| NON-HAZARDOUS 1. Generator POIRERO HILLS LANDFILL, INC. | | to Tracking Numi | | |
| WASTE MANIFEST P.O. Box 68 | rent than mailing | | 11 31 | |
| 5. Generator's Name and Mailing Address SUSAN CASENTINE TRUE 385 26TH STREET FAIRFIELD, CA 94533 | rent than masing | address | | |
| OAKLAND CA 94901 Deputy: Jaciyn Deleon Generator's Phone: 9.2 5 4 Deposit: Jaclyn Deleon | | | | |
| 6 Transporter 1 Company Name DILL TO: 2623 | | A ID Number | | |
| FREMOUW ENVIRONM FREMOUN ENVIRONMENTAL SERVICES | | A R O O | 0171 | 017 |
| 7. Transporter 2 Company Name Vehicle ID: 0D1 | U.S. EP | ISOSIUM CI A | | |
| 8. Designated Facility Name and Site Address POTRERO HILLS LANDER | U.S. EP | A ID Number | | |
| 3675 POTRERO HILLS LA GITA: | | | | |
| SUISUN CA 94585 HaulCust#: UKIGIN-URKEAND | 1 | | | |
| Facility's Phone: 707 432-4627 DriverOn?: N | | | | |
| s. Waste Stripping Name and Description Route: 031313MF31 | 11. Tot | Control of the Contro | | |
| 9. Waste Shipping Name and Description TRLR/LP#: BINS R27963PL & R23768PL | Quantit | 1 | NONE | MI ME LEST |
| O I - I - I O O O O O O O O O O O O O O | 25 | Y | NUNE | |
| DATE IN: 03/25/2013 TIME IN: 12:52:40 | | | | |
| DATE DUT: 03/25/2013 TIME DUT: 13:45:51 | | | | ATTENDED TO |
| INBOUND TICKET Number: 01-357038 | | | | Wife. |
| INBUUND TOKET | | | | |
| 2.61 T8/80 1B | | | | |
| SCALE I GROSS HI. | | | The state of the s | |
| SCALE 1 GROSS WIT. SCALE 3 TARE WT. 40420 LB | | | | |
| SCALE I GROSS HI. | + | | | |
| SCALE 1 GROSS WIT. SCALE 1 GROSS WIT. 4. 40420 LB NET WEIGHT 38360 LB Outy Description Amount 13. Special Handling Instructions and Additional in 19.18 Profile Soil-T Disp | | AT IN THE PARTY OF | | |
| SCALE 1 GROSS WIT. SCALE 3 TARE WT. 40420 LB NET WEIGHT 38360 LB Amount 13. Special Handling Instructions and Additional in 19.18 Profile Soil-T Disp BINH'S R.27963PL EAN | NDLERS TO BE 4 | | | |
| SCALE 1 GROSS 11. SCALE 3 TARE WT. 40420 LB NET WEIGHT 38360 LB 13. Special Handling Instructions and Additional in 19. 18 Profile Soil-T Disp BIN #5 R.27 96 3PL 14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accountely descrimarized and labeled/plecarded, and are in all respects in proper condition for transport excording to applicable international and neitor | ribed above by the prop | ershipping name | , and are classified | . packaged, |
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DUPLICATE TICKET

| NON-HAZARDOUS WASTE MANIFEST 1. Generator 10 Numb | POTRERO HILLS LANDFILL, INC. Weighed at: POTRERO HILLS LANDFILL, INC. P.G. Box 68 FAIRFIELD, CA 94533 | 4. Weate Training andres | olding Number 3 M F 31 6 |
|--|--|--|---|
| Generator's Phone: 9 2 5 4 7 8 | Deputy: Janee Quinonez | U.S. EPA ID N | kumber 8 0 0 0 1 7 1 0 1 7 |
| THE MOUW ENVIRONMEN | FREMOUW ENVIRONMENTAL SERVICES | U.S. EPAID | |
| 7. Transporter 2 Company Name | Vehicle ID: Reference: PHLF13076 | U.S. EPA ID | |
| 3.0 POTRERO HILLS LANDFILL, 3675 POTRERO HILLS LANE SUISUN CA 94585 | Grid: 14 HaulCust#: ORIGIN-OAKLAND DriverOn?: N | Ī | |
| Facility's Phone: 707 432-4627 9. Waste Shipping Name and Description | TRLR/LP#: 10703D1 | 11. Total Quantity | 12. Unit Wt.//ol. |
| NON-HAZARDOUS SOLI | Origin: OAKLAND DATE IN: 03/20/2013 TIME IN: 13:32:29 DATE OUT: 03/20/2013 TIME OUT: 13:54:00 | 12 | y NONE. |
| 2. | INBOUND TICKET Number: 01-356028 | | |
| 3. | SCALE 1 GROSS WT. 44840 LB SCALE 3 TARE WT. 27360 LB NET WEIGHT 17480 LB | | |
| 100014 | | Ì | |
| 13. Special Handling Instructions and Additional In | 0.171.00 3.1.00=13.1.1 | | rided to disposal facility) |
| 13. Special Handling Instructions and Additional In BINH JC 2 S 14. GENERATOR'S/OFFEROR'S CERTIFICATIO parked and labeled/placarded, and are in all | 8.74 Profile Soil-T Disp We'l hereby declare that the contents of this consignment are fully and accurately describe respects in proper condition for transport according to applicable international and national | LERS TO BE 405 | IR TRAINED AND USE PPE, r shipping name, and are classified, packaged, one. Month Day Yo |
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| 13. Special Handling Instructions and Adultional In BINATE JC 2 S 14. GENERATOR S/OFFEROR'S CERTIFICATION Transport of Industrial Industrial Industrial Information Informat | 8.74 Profile Soil-T Disp HAND With I hereby declare that the contents of this consignment are fully and accurately describe respects in proper condition for transport according to applicable international and national Signature Signature Lun Class Beyond from U.S. Point of entryle Dates leaving | ed above by the proper povermental regular | r shipping name, and are classified, packaged, one. |
| 13. Special Handling Instructions and Additional In Block TC 2 S 14. GENERATOR'S/OFFEROR'S CERTIFICATION or and and labeled/placarded, and are in all a Generator's/Otteror's Printed/Typed Name X | HAND Wit I hereby declare that the contents of this consignment are fully and accurately describe respects in proper condition for transport according to applicable international and national Signature Signature Lini Classification To U.S. Export from U.S. Point of entropy declares that the contents of this consignment are fully and accurately described respects in proper condition for transport according to applicable international and national support of the contents of the content | ed above by the proper povermental regular | r stipping name, and are classified, packaged, one. Month Day Yellow 03 12 1 |
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| 13. Special Handling Instructions and Additional In BINE JC 2 S 14. GENERATOR'S/OFFEROR'S CERTIFICATION Transporter and labeled/placarded, and are in all a Generator's/Otteror's Printed/Typed Name X | B. 74 Profile Soil-T Disp We'll hereby declare that the contents of this consignment are fully and accurately describe respects in proper condition for transport according to applicable international and national Signature Light Class Signature Light Class Begort from U.S. Pent of entryly Date leaving Signature Another Reference Num Manifest Reference Num | ed above by the proper governmental regularity. U.S.: Partie | r shipping name, and are classified, packaged, one. Month Day You 12 1 1 1 1 1 1 1 1 |
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APPENDIX E

Special Waste Profile for Non-RCRA Hazardous Soil

| | | Fax (208 | | | | | | 1.00 | |
|---|--|--|--|--|--|--|--|--|--|
| A CUSTOMER INTO MATION Generator: Tim Cook | Selection of the last | *Waste as s | hipped | will be | Indu | The Real Property lies, the Parket of the Pa | | Name and Address of the Owner, where the Owner, which is the O | ustomers only) |
| Facility Address : 385 26th Stre | et | | | | - | | if Billing is Sa | | renmental Sendens Inc |
| (No PO Box) Oakland, CA | AND AND | | _ | | | Billing Co | | 6940 Tremont | ronmental Services, Inc |
| Mailing Address 1485 Treat Blv | | | | | | Billing Ad City/State/ | | Dixon, CA 956 | |
| City/State/Zip: Walnut Creek | | | | | | Billing Co | | Accts Payable | |
| Cechnical Contact: Tim Cook | , 0/10/100/ | | | | | | 707-448-3700 | | io.; 707-448-3499 |
| Phone: 925-478-8390 | Fax: | N/A | | | | | ozo@hazwastere | _ | 0., 707-440-5455 |
| | _ | sqg Lqg | EPA | ID: CA | C 002 722 810 | | | State II | D# |
| BENERO REPORTED REPORTED FOR SECURIORS | | | | | | | | | |
| . US DOT Shipping Name Non | RCRA Hazard | lous Waste Solid | Trans. | AT #4 | He - E | · · · · · · · · · · · · · · · · · · · | | The About Road Start March | 2. Hazard Class Non RC |
| .UN/NA # Non RCRA | | 4. Packaging Gr | roup | Non F | RCRA | 5.RC | Non RCRA | | |
| Container Type: Bulk Tote | s Pallet | | S | ize 20 | ard Bin | 7. Frequency | Year | ✓ QTR | Month |
| Boxes Bags Drums | Other | | Quan | tity 1 - 2 | 2 | | 1 Time | ✓ Other | As needed |
| OKGENDRATEMATIERHAT SORT | CARRETTE CO | RANKORV | AULO | V | | 14.0 | | | |
| Common name for this waste | Olly Debris | 5 | maja diferensi chia | With area to | | | and the second of the second o | the first of the state of the state of the | en i a misji saris eresinat ini amin'nya i sisantan'i ravendan inaman diamentan'i |
| Process generating the material | Hazardou | s Waste Disposal fro | m various | s clean up | activites | | | | |
| (include additional sheets as necessar | | | | | | | | | |
| Describe Physical Appearance of Waste | Oily Debt | | - | | | | | | |
| Describe odor of waste. None | | | | | | arran 1720 | | | |
| Knowledge is from: Lab Analysis | | | | | | | | | |
| Yes No Is the material <500 | | | | | es VINO | Is the wast | e restricted ur | ider EPA Land | d Disposal Restrictions |
| | | | | | | | | | |
| Yes No Waste Subject to Be | | HAP regulation | ns | | | (40 CFR 2 | 68), if yes ple | ase complete l | LDR form |
| Yes No State waste codes | 223 | | ns | Ī | | (40 CFR 2 | 68), if yes ple | ase complete l | LDR form |
| Yes No State waste codes Yes No CERCLA Regulated | 223 I (Superfund | | ns | | res 🗸 No | (40 CFR 2 Was Exempt W | 68), if yes ple stewater aste: If yes, l | ase complete I Non-wastewa ist ref. 40 CFR | LDR form atter Debris |
| Yes No State waste codes | 223 I (Superfund | | ns | | res ✓ No | (40 CFR 2 Water Exempt W | 68), if yes ple stewater aste: If yes, l | ase complete I Non-wastewa ist ref. 40 CFR nents of Conce | LDR form ster Debris R ern: List in section D |
| Yes No State waste codes Yes No CERCLA Regulated | 223 I (Superfund | | ns | | res ✓ No res ✓ No | (40 CFR 2 Was Exempt W Contains U | 68), if yes ple stewater aste: If yes, l JHCs/Constitu ste been treat | ase complete I Non-wastewa ist ref. 40 CFR nents of Conce | LDR form atter Debris |
| Yes No State waste codes Yes No CERCLA Regulated | 223 I (Superfund | | ns | | res V No res V No res V No res V No | (40 CFR 2 Was Exempt W Contains U Has the was Subpart XX | 68), if yes ple stewater aste: If yes, I JHCs/Constitutions been treat | Non-wastewa ist ref. 40 CFR tients of Conce ed after the ini | LDR form ster Debris R ern: List in section D |
| Yes No State waste codes Yes No CERCLA Regulated | 223 I (Superfund | | os . | | res V No res V No res V No res V No | (40 CFR 2 Was Exempt W Contains U Has the was Subpart XX Alternative | 68), if yes ple stewater aste: If yes, l JHCs/Constitu ste been treat | Non-wastewa ist ref. 40 CFR tents of Conce ed after the init | LDR form ster Debris R ern: List in section D |
| Yes No State waste codes Yes No CERCLA Regulated Yes No EPA Haz. Waste (li | 223 1 (Superfund st codes) | d) Waste | | Source | Yes V No | (40 CFR 2 West Exempt W Contains L Has the was Subpart XX Alternative G11 | 68), if yes ple stewater aste: If yes, l JHCs/Constitu iste been treat standards for Form Code W | Non-wastewa ist ref. 40 CFR tents of Conce ed after the ini 5 Soll ? | LDR form ster Debris R ern: List in section D itial point of generation? |
| Yes No State waste codes Yes No CERCLA Regulated Yes No EPA Haz. Waste (li | 223 I (Superfunding st codes) | d) Waste | E.D | Source the | Yes No Yes X | (40 CFR 2 West Exempt W Contains L Has the was Subpart XX Alternative G11 | standards for Form Code W | Non-wastewa ist ref. 40 CFR uents of Conce ed after the ini Soll ? w316 | LDR form ster Debris ern: List in section D itial point of generation? Mgt. Method H |
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APPENDIX F

Waste Manifest for Non-RCRA Hazardous Soil

| e print or type. (Form designed for use on elite (12-pitch) typewriter.) | | | | | | Approved. OME | 3 No. 2050-0 |
|--|---|--|--|---|-------------------------------------|---|---------------------------------------|
| WASTE MANIFEST 1. Generator ID Number CACOOSTSSIO | 2. Page 1 of 3. En | nergency Response 0 424–9300 | | 6.70 | Tracking Nu | 9064 | JJK |
| . Generator's Name and Mailing Address | Gener | rator's Site Address | (if different tha | n mailing addres | ss) | | - |
| TIM CODIS | 7 | IM COOK | | | | | |
| LIPLOUT CREEK CA 94597 | 39 | 5 36 +4 | STREET | | | | |
| | 1 0 8 | K-WMD C | A 9480 | 1 | | | |
| enerator's Phone: 935-479-9390 Transporter 1 Company Name | | | | II O EDAID | 11 16 | | |
| | | | | U.S. EPA ID I | | | |
| FREMOUW ENVIRONMENTAL SERVICES INC | | | | CAF | 005 | 0171 | 017 |
| Transporter 2 Company Name | | PIFES | - | U.S. EPAID N | Number | | |
| - Stirren Paul Contract Contra | | SPES | | 1 - 1 | | | - |
| Designated Facility Name and Site Address | _ | | | C AL | 0.0 | 9-17-9 | 3 8 2 |
| US ECOLOGY INC HWY 95 11MI S OF CY 16 ACRES BEATTY NV 89003 | 4- | | | U.S. EPAID | Number | | |
| acility's Phone: 775 553 - 2203 | | | | INVI | 2 2 | 0010 | 0.0.0 |
| | 4 | | | 14 8 | 0.0 | 0010 | 0.00 |
| Pa. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any)) | | 10. Contai No. | Type | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste | Codes |
| 1. NON-RCRA HAZARDOUS WASTE, SOLID (SIET BABSORBENT) (OIL (ONTAMINATE) SOLID | EBRIS; PSFES | 9 | CW. | 30 | PY PY | 223 | |
| 3. | | | | | | 1 | |
| 4. | | | | + | | - | _ |
| 1 | | | 1 1 | 1.15 | | 1 | |
| 190 | | 1 | | | | / | |
| I. Special Handling Instructions and Additional Information 1)#0702073 | C | HA | NDLERS T | O BE JOHR | TRAINED | AND USE PE | Œ. |
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APPENDIX GPhotographs of UST Removal



Photo 1. Top of Redwood UST Encountered, Note Gray Contaminated Soil



Photo 2 Redwood Debris and Contaminated Soil



Photo 3. UST Excavation Approximately 8 feet bgs



Photo 4 Loading Contaminated Soil into Roll-Off Bin



Photo 5 Proximity of UST Excavation to Adjacent Builling



Photo 6 Note Contaminated Soil Left in Place Beneath Foundation of Adjacent Building

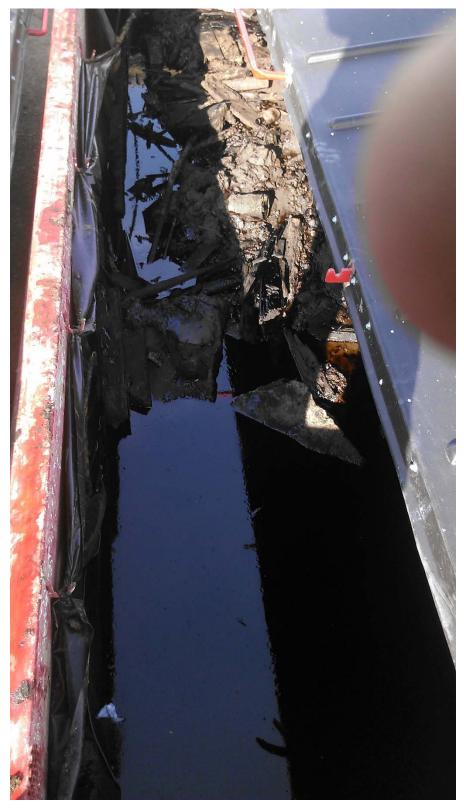


Photo 7. Soil and Debris Disposed as Non-RCRA Hazardous Waste

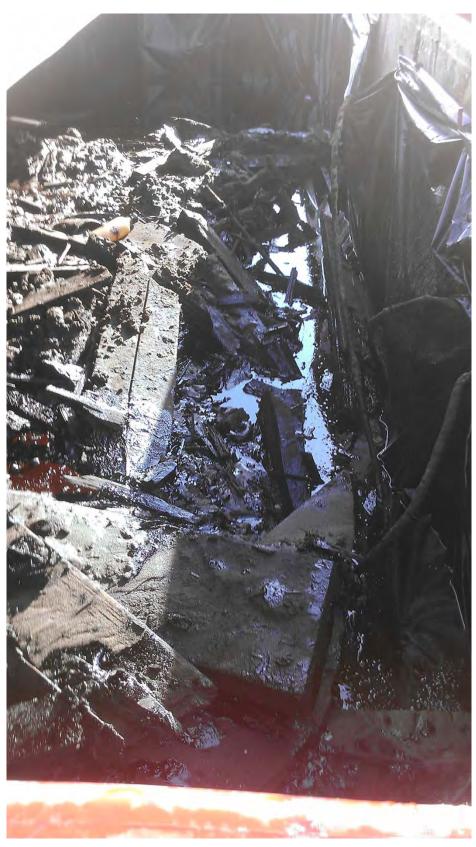


Photo 8 Soil and Debris Disposed as Non-RCRA Hazardous Waste

APPENDIX H

UST Backfill Invoice and Weigh Tickets

Recovery

Marin Resource 565 Jacoby Street
San Rafael, CA 94901 PHONE (415) 485-5647 FAX (415) 485-1509

Marin Resource Recovery 565 Jacoby Street San Rafael, CA 94901



| Amount | Rate | Quantity | | | |
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|--|-----------------------|
| TEL. (415) 485-5647 DATE 4-29-13 ACCOUNT NAME Pat Fatray | Engineering DRIVER II |
| VEHICLE ID # OF YARDS_ | SERVICE AREA CALLAND |
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| 2/11/2013 | CLEAN BASE ROCK | 797776 L | A TRAY ENGINEERING | 11.84 | 26TH AVE/OAKLAND/23412 |
| 2/11/2013 | CLEAN BASE ROCK | 797777 L | A TRAY ENGINEERING | 12.13 | 26TH AVE/OAKLAND/23411 |
| 2/13/2013 | CLEAN BASE ROCK | 798475 L | A TRAY ENGINEERING | 12.79 | OAKLAND/23449 |
| 2/13/2013 | CLEAN BASE ROCK | 798476 L | A TRAY ENGINEERING | 12.64 | OAKLAND/23420 |
| | | | | | |
| 3/13/2013 | CLEAN BASE ROCK | 805971 L | A TRAY ENGINEERING | 22.59 | OAKLAND/23967 |
| 3/14/2013 | CLEAN BASE ROCK | 806363 L | A TRAY ENGINEERING | 12.58 | OAKLAND/24023 |
| 3/16/2013 | CLEAN BASE ROCK | 806973 L | A TRAY ENGINEERING | 13.6 | OAKLAND/23972 |
| 3/16/2013 | CLEAN BASE ROCK | 806974 L | A TRAY ENGINEERING | 13.21 | OAKLAND/23971 |
| 3/16/2013 | CLEAN BASE ROCK | 806975 L | A TRAY ENGINEERING | 13.21 | OAKLAND/24019 |
| 3/20/2013 | CLEAN BASE ROCK | 808050 L | A TRAY ENGINEERING | 12.7 | OAKLAND/23975/PAID BY CHECK 3-20-13 |

MAZIM RESOURCE & RELYCLE SAN EAFAEL

APPENDIX I

Soil Sampling Standard Operating Procedures



STANDARD OPERATING PROCEDURES

SOP: 2012 PAGE: 1 of 13 REV: 0.0 DATE: 02/18/00

SOIL SAMPLING

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| 3.0 | SAMPLE PRESERVATION, CONTAINERS, HANDLING, AND STORAGE | | | | | |
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SUPERCEDES: SOP #2012; Revision 0.0; 11/16/94; U.S. EPA Contract 68-C4-0022.



STANDARD OPERATING PROCEDURES

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SOIL SAMPLING

1.0 SCOPE AND APPLICATION

The purpose of this standard operating procedure (SOP) is to describe the procedures for the collection of representative soil samples. Sampling depths are assumed to be those that can be reached without the use of a drill rig, direct-push, or other mechanized equipment (except for a back-hoe). Analysis of soil samples may determine whether concentrations of specific pollutants exceed established action levels, or if the concentrations of pollutants present a risk to public health, welfare, or the environment.

These are standard (i.e., typically applicable) operating procedures which may be varied or changed as required, dependent upon site conditions, equipment limitations or limitations imposed by the procedure. In all instances, the actual procedures used should be documented and described in an appropriate site report.

Mention of trade names or commercial products does not constitute U.S. Environmental Protection Agency (EPA) endorsement or recommendation for use.

2.0 METHOD SUMMARY

Soil samples may be collected using a variety of methods and equipment depending on the depth of the desired sample, the type of sample required (disturbed vs. undisturbed), and the soil type. Near-surface soils may be easily sampled using a spade, trowel, and scoop. Sampling at greater depths may be performed using a hand auger, continuous flight auger, a trier, a split-spoon, or, if required, a backhoe.

3.0 SAMPLE PRESERVATION, CONTAINERS, HANDLING, AND STORAGE

Chemical preservation of solids is not generally recommended. Samples should, however, be cooled and protected from sunlight to minimize any potential reaction. The amount of sample to be collected and proper sample container type are discussed in ERT/REAC SOP #2003 Rev. 0.0 08/11/94, *Sample Storage, Preservation and Handling*.

4.0 INTERFERENCES AND POTENTIAL PROBLEMS

There are two primary potential problems associated with soil sampling - cross contamination of samples and improper sample collection. Cross contamination problems can be eliminated or minimized through the use of dedicated sampling equipment. If this is not possible or practical, then decontamination of sampling equipment is necessary. Improper sample collection can involve using contaminated equipment, disturbance of the matrix resulting in compaction of the sample, or inadequate homogenization of the samples where required, resulting in variable, non-representative results.

5.0 EQUIPMENT



STANDARD OPERATING PROCEDURES

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SOIL SAMPLING

Soil sampling equipment includes the following:

- Maps/plot plan
- Safety equipment, as specified in the site-specific Health and Safety Plan
- Survey equipment or global positioning system (GPS) to locate sampling points
- Tape measure
- Survey stakes or flags
- Camera and film
- Stainless steel, plastic, or other appropriate homogenization bucket, bowl or pan
- Appropriate size sample containers
- Ziplock plastic bags
- Logbook
- Labels
- Chain of Custody records and custody seals
- Field data sheets and sample labels
- Cooler(s)
- Ice
- Vermiculite
- Decontamination supplies/equipment
- Canvas or plastic sheet
- Spade or shovel
- Spatula
- Scoop
- Plastic or stainless steel spoons
- Trowel(s)
- Continuous flight (screw) auger
- Bucket auger
- Post hole auger
- Extension rods
- T-handle
- Sampling trier
- Thin wall tube sampler
- Split spoons
- Vehimeyer soil sampler outfit
 - Tubes
 - Points
 - Drive head
 - Drop hammer
 - Puller jack and grip
- Backhoe



STANDARD OPERATING PROCEDURES

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SOIL SAMPLING

Reagents are not used for the preservation of soil samples. Decontamination solutions are specified in ERT/REAC SOP #2006 Rev. 0.0 08/11/94, *Sampling Equipment Decontamination*, and the site specific work plan.

7.0 PROCEDURES

7.1 Preparation

- 1. Determine the extent of the sampling effort, the sampling methods to be employed, and the types and amounts of equipment and supplies required.
- 2. Obtain necessary sampling and monitoring equipment.
- 3. Decontaminate or pre-clean equipment, and ensure that it is in working order.
- 4. Prepare schedules and coordinate with staff, client, and regulatory agencies, if appropriate.
- 5. Perform a general site survey prior to site entry in accordance with the site specific Health and Safety Plan.
- 6. Use stakes, flagging, or buoys to identify and mark all sampling locations. Specific site factors, including extent and nature of contaminant, should be considered when selecting sample location. If required, the proposed locations may be adjusted based on site access, property boundaries, and surface obstructions. All staked locations should be utility-cleared by the property owner or the On-Scene-Coordinator (OSC) prior to soil sampling; and utility clearance should always be confirmed before beginning work.

7.2 Sample Collection

7.2.1 Surface Soil Samples

Collection of samples from near-surface soil can be accomplished with tools such as spades, shovels, trowels, and scoops. Surface material is removed to the required depth and a stainless steel or plastic scoop is then used to collect the sample.

This method can be used in most soil types but is limited to sampling at or near the ground surface. Accurate, representative samples can be collected with this procedure depending on the care and precision demonstrated by the sample team member. A flat, pointed mason trowel to cut a block of the desired soil is helpful when undisturbed profiles are required. Tools plated with chrome or other materials should not be used. Plating is particularly common with garden implements such as potting trowels.

The following procedure is used to collect surface soil samples:



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SOIL SAMPLING

- 1. Carefully remove the top layer of soil or debris to the desired sample depth with a pre-cleaned spade.
- 2. Using a pre-cleaned, stainless steel scoop, plastic spoon, or trowel, remove and discard a thin layer of soil from the area which came in contact with the spade.
- 3. If volatile organic analysis is to be performed, transfer the sample directly into an appropriate, labeled sample container with a stainless steel lab spoon, or equivalent and secure the cap tightly. Place the remainder of the sample into a stainless steel, plastic, or other appropriate homogenization container, and mix thoroughly to obtain a homogenous sample representative of the entire sampling interval. Then, either place the sample into appropriate, labeled containers and secure the caps tightly; or, if composite samples are to be collected, place a sample from another sampling interval or location into the homogenization container and mix thoroughly. When compositing is complete, place the sample into appropriate, labeled containers and secure the caps tightly.

7.2.2 Sampling at Depth with Augers and Thin Wall Tube Samplers

This system consists of an auger, or a thin-wall tube sampler, a series of extensions, and a "T" handle (Figure 1, Appendix A). The auger is used to bore a hole to a desired sampling depth, and is then withdrawn. The sample may be collected directly from the auger. If a core sample is to be collected, the auger tip is then replaced with a thin wall tube sampler. The system is then lowered down the borehole, and driven into the soil to the completion depth. The system is withdrawn and the core is collected from the thin wall tube sampler.

Several types of augers are available; these include: bucket type, continuous flight (screw), and post-hole augers. Bucket type augers are better for direct sample recovery because they provide a large volume of sample in a short time. When continuous flight augers are used, the sample can be collected directly from the flights. The continuous flight augers are satisfactory when a composite of the complete soil column is desired. Post-hole augers have limited utility for sample collection as they are designed to cut through fibrous, rooted, swampy soil and cannot be used below a depth of approximately three feet.

The following procedure is used for collecting soil samples with the auger:

 Attach the auger bit to a drill rod extension, and attach the "T" handle to the drill rod.



STANDARD OPERATING PROCEDURES

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SOIL SAMPLING

- 2. Clear the area to be sampled of any surface debris (e.g., twigs, rocks, litter). It may be advisable to remove the first three to six inches of surface soil for an area approximately six inches in radius around the drilling location.
- 3. Begin augering, periodically removing and depositing accumulated soils onto a plastic sheet spread near the hole. This prevents accidental brushing of loose material back down the borehole when removing the auger or adding drill rods. It also facilitates refilling the hole, and avoids possible contamination of the surrounding area.
- 4. After reaching the desired depth, slowly and carefully remove the auger from the hole. When sampling directly from the auger, collect the sample after the auger is removed from the hole and proceed to Step 10.
- 5. Remove auger tip from the extension rods and replace with a pre-cleaned thin wall tube sampler. Install the proper cutting tip.
- 6. Carefully lower the tube sampler down the borehole. Gradually force the tube sampler into the soil. Do not scrape the borehole sides. Avoid hammering the rods as the vibrations may cause the boring walls to collapse.
- 7. Remove the tube sampler, and unscrew the drill rods.
- 8. Remove the cutting tip and the core from the device.
- 9. Discard the top of the core (approximately 1 inch), as this possibly represents material collected before penetration of the layer of concern. Place the remaining core into the appropriate labeled sample container. Sample homogenization is not required.
- 10. If volatile organic analysis is to be performed, transfer the sample into an appropriate, labeled sample container with a stainless steel lab spoon, or equivalent and secure the cap tightly. Place the remainder of the sample into a stainless steel, plastic, or other appropriate homogenization container, and mix thoroughly to obtain a homogenous sample representative of the entire sampling interval. Then, either place the sample into appropriate, labeled containers and secure the caps tightly; or, if composite samples are to be collected, place a sample from another sampling interval into the homogenization container and mix thoroughly.

When compositing is complete, place the sample into appropriate, labeled containers and secure the caps tightly.



STANDARD OPERATING PROCEDURES

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SOIL SAMPLING

- 11. If another sample is to be collected in the same hole, but at a greater depth, reattach the auger bit to the drill and assembly, and follow steps 3 through 11, making sure to decontaminate the auger and tube sampler between samples.
- 12. Abandon the hole according to applicable state regulations. Generally, shallow holes can simply be backfilled with the removed soil material.

7.2.3 Sampling with a Trier

The system consists of a trier, and a "T" handle. The auger is driven into the soil to be sampled and used to extract a core sample from the appropriate depth.

The following procedure is used to collect soil samples with a sampling trier:

- 1. Insert the trier (Figure 2, Appendix A) into the material to be sampled at a 0° to 45° angle from horizontal. This orientation minimizes the spillage of sample.
- 2. Rotate the trier once or twice to cut a core of material.
- 3. Slowly withdraw the trier, making sure that the slot is facing upward.
- 4. If volatile organic analyses are required, transfer the sample into an appropriate, labeled sample container with a stainless steel lab spoon, or equivalent and secure the cap tightly. Place the remainder of the sample into a stainless steel, plastic, or other appropriate homogenization container, and mix thoroughly to obtain a homogenous sample representative of the entire sampling interval. Then, either place the sample into appropriate, labeled containers and secure the caps tightly; or, if composite samples are to be collected, place a sample from another sampling interval into the homogenization container and mix thoroughly. When compositing is complete, place the sample into appropriate, labeled containers and secure the caps tightly.

7.2.4 Sampling at Depth with a Split Spoon (Barrel) Sampler

Split spoon sampling is generally used to collect undisturbed soil cores of 18 or 24 inches in length. A series of consecutive cores may be extracted with a split spoon sampler to give a complete soil column profile, or an auger may be used to drill down to the desired depth for sampling. The split spoon is then driven to its sampling depth through the bottom of the augured hole and the core extracted.

When split spoon sampling is performed to gain geologic information, all work should



STANDARD OPERATING PROCEDURES

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SOIL SAMPLING

be performed in accordance with ASTM D1586-98, "Standard Test Method for Penetration Test and Split-Barrel Sampling of Soils".

The following procedures are used for collecting soil samples with a split spoon:

- 1. Assemble the sampler by aligning both sides of barrel and then screwing the drive shoe on the bottom and the head piece on top.
- 2. Place the sampler in a perpendicular position on the sample material.
- 3. Using a well ring, drive the tube. Do not drive past the bottom of the head piece or compression of the sample will result.
- 4. Record in the site logbook or on field data sheets the length of the tube used to penetrate the material being sampled, and the number of blows required to obtain this depth.
- 5. Withdraw the sampler, and open by unscrewing the bit and head and splitting the barrel. The amount of recovery and soil type should be recorded on the boring log. If a split sample is desired, a cleaned, stainless steel knife should be used to divide the tube contents in half, longitudinally. This sampler is typically available in 2 and 3 1/2 inch diameters. A larger barrel may be necessary to obtain the required sample volume.
- 6. Without disturbing the core, transfer it to appropriate labeled sample container(s) and seal tightly.

7.2.5 Test Pit/Trench Excavation

A backhoe can be used to remove sections of soil, when detailed examination of soil characteristics are required. This is probably the most expensive sampling method because of the relatively high cost of backhoe operation.

The following procedures are used for collecting soil samples from test pits or trenches:

- 1. Prior to any excavation with a backhoe, it is important to ensure that all sampling locations are clear of overhead and buried utilities.
- Review the site specific Health & Safety plan and ensure that all safety precautions including appropriate monitoring equipment are installed as required.



STANDARD OPERATING PROCEDURES

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SOIL SAMPLING

- 3. Using the backhoe, excavate a trench approximately three feet wide and approximately one foot deep below the cleared sampling location. Place excavated soils on plastic sheets. Trenches greater than five feet deep must be sloped or protected by a shoring system, as required by OSHA regulations.
- 4. A shovel is used to remove a one to two inch layer of soil from the vertical face of the pit where sampling is to be done.
- 5. Samples are taken using a trowel, scoop, or coring device at the desired intervals. Be sure to scrape the vertical face at the point of sampling to remove any soil that may have fallen from above, and to expose fresh soil for sampling. In many instances, samples can be collected directly from the backhoe bucket.
- 6. If volatile organic analyses are required, transfer the sample into an appropriate, labeled sample container with a stainless steel lab spoon, or equivalent and secure the cap tightly. Place the remainder of the sample into a stainless steel, plastic, or other appropriate homogenization container, and mix thoroughly to obtain a homogenous sample representative of the entire sampling interval. Then, either place the sample into appropriate, labeled containers and secure the caps tightly; or, if composite samples are to be collected, place a sample from another sampling interval into the homogenization container and mix thoroughly. When compositing is complete, place the sample into appropriate, labeled containers and secure the caps tightly.
- 7. Abandon the pit or excavation according to applicable state regulations. Generally, shallow excavations can simply be backfilled with the removed soil material.

8.0 CALCULATIONS

This section is not applicable to this SOP.

9.0 QUALITY ASSURANCE/QUALITY CONTROL

There are no specific quality assurance (QA) activities which apply to the implementation of these procedures. However, the following QA procedures apply:

- 1. All data must be documented on field data sheets or within site logbooks.
- 2. All instrumentation must be operated in accordance with operating instructions as supplied by the manufacturer, unless otherwise specified in the work plan. Equipment checkout and calibration



STANDARD OPERATING PROCEDURES

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SOIL SAMPLING

activities must occur prior to sampling/operation, and they must be documented.

10.0 DATA VALIDATION

This section is not applicable to this SOP.

11.0 HEALTH AND SAFETY

When working with potentially hazardous materials, follow U.S. EPA, OHSA and corporate health and safety procedures, in addition to the procedures specified in the site specific Health & Safety Plan..

12.0 REFERENCES

Mason, B.J. 1983. Preparation of Soil Sampling Protocol: Technique and Strategies. EPA-600/4-83-020.

Barth, D.S. and B.J. Mason. 1984. Soil Sampling Quality Assurance User's Guide. EPA-600/4-84-043.

U.S. Environmental Protection Agency. 1984 Characterization of Hazardous Waste Sites - A Methods Manual: Volume II. Available Sampling Methods, Second Edition. EPA-600/4-84-076.

de Vera, E.R., B.P. Simmons, R.D. Stephen, and D.L. Storm. 1980. Samplers and Sampling Procedures for Hazardous Waste Streams. EPA-600/2-80-018.

ASTM D 1586-98, ASTM Committee on Standards, Philadelphia, PA.



STANDARD OPERATING PROCEDURES

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SOIL SAMPLING

APPENDIX A Figures SOP #2012 February 2000



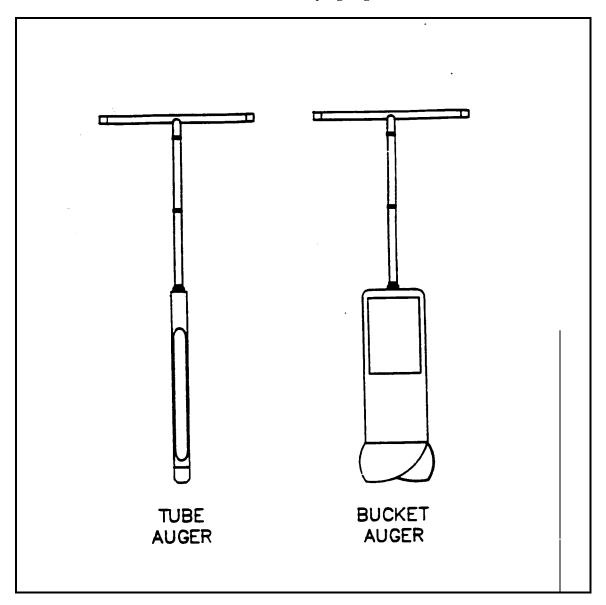
STANDARD OPERATING PROCEDURES

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SOIL SAMPLING

FIGURE 1. Sampling Augers





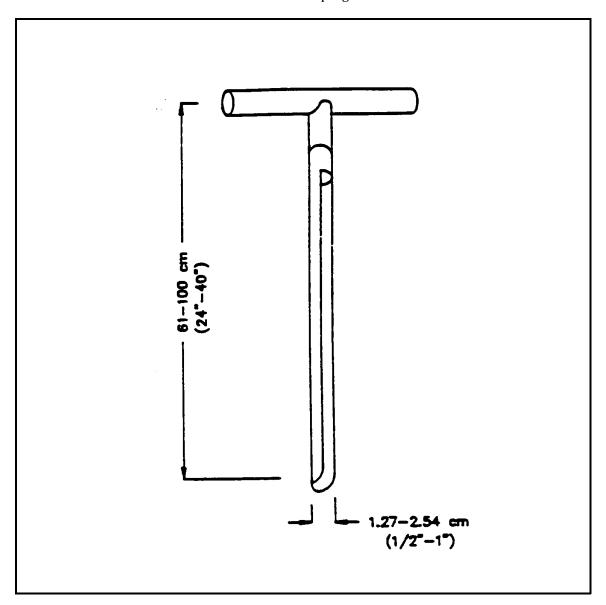
STANDARD OPERATING PROCEDURES

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DATE: 02/18/00

SOIL SAMPLING

FIGURE 2. Sampling Trier



APPENDIX J

Sample Boring Log

| Boring Location: | Cook Environmental Services, Inc. 1485 Treat Blvd., Ste 203A, Walnut Creek, CA 94597, (925) 478-8390 (925) 787-6869 cell, tcook@cookenvironmental.com, www.cookenvironmental.com | | | |
|------------------|--|-----------------------------|-----------------|--|
| | PROJECT: | PROJECT NO. | BORING NO: | |
| | DRILLING CONTRACTOR: | START TIME: FINISH TIME: | DATE: | |
| | DRILLING METHOD: | TOTAL DEPTH: | DEPTH TO WATER: | |
| | SAMPLER: | SCREEN INT.: | CASING: | |
| | HAMMER WEIGHT:: DROP: | FIELD GEOLOGIST: | | |

| DEPTH (FEET) | SAMPLE No | INTERVAL | BLOWS/ 0.5 FOOT | PID [ppm] | BORING/WELL CONSTRUCTION DETAIL | GRAPHIC LOG | LITHOLOGIC DESCRIPTION |
|-----------------|-----------|----------|--------------------|-----------|---------------------------------------|----------------|------------------------|
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