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Revised Soil Excavation Report:

Former Gas Station 2547 East 27th Street Oakland, California

> <u>Date:</u> August 31, 2007

Prepared for:

Tomorrow Development 1305 Franklin Street, Suite 500 Oakland, California

Submitted to:

Jerry Wickham
Alameda County Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway
Alameda, California

Prepared by:

Ceres Associates 424 First Street Benicia, California 94510 Tel. (707) 748-3170 Fax. (707) 748-3171



August 31, 2007

Alameda County Health Care Services Agency (ACHCSA) Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Subject:

Revised Soil Excavation Report, Former Gas Station, 2547 East 27th Street, Oakland,

California (File No. 0396)

Dear Mr. Wickham:

Ceres has prepared this revised Soil Excavation Report to address the comments provided by the ACHCSA agency in a letter dated April 26, 2007 for the site located at 2547 East 27th Street, Oakland, California ("Property").

In December 2006 and January 2007, Ceres Associates supervised the excavation and removal of approximately 200 cubic yards of impacted soil from the Property, followed by backfilling of the excavation pit. Additionally, two rounds of confirmation sampling was conducting, including samples collected in December 2006 and June 2007.

It appears that the majority of the petroleum impacted "source material" has been removed from the Property and that the risk to future occupants of the Property from this residual contamination is minimal. Further, it does not appear that the Property is a significant contributor to groundwater contamination off the Property. However, Ceres Associates recommended continuing quarterly groundwater sampling at the Property to assess the effectiveness of the soil remediation.

Tomorrow Development and Ceres Associates request that the ACHCSA review and approve the enclosed Revised Soil Excavation Report. If you have any questions or comments, please contact Ryan Meyer at (707) 748-3170 or via email at ryanmeyer@ceresassociates.com.

Sincerely,

Ceres Associates

Ryan Meyer, R.E.A. Project Manager Kin & Branch

Kimberly A. Brandt, R.G., C.HG. Senior Associate Hydrogeologist

cc: Ted Dang

Tomorrow Development 1305 Franklin Boulevard Oakland, California





Statement of Qualifications

The Project Manager for this report was Ryan Meyer. Mr. Meyer assisted in field work, report preparation, and overall project management. Mr. Meyer is a Registered Environmental Assessor (No. 07936), has a B.S. in Environmental Resource Science, as well as is HAZWOPR 40-hr certified. Mr. Meyer has also participated in UC Extension programs covering such topics as Risk Assessments, Work Plans, and other Corrective Action implementation.

The Senior Associate Hydrogeologist, and supervising Geologist, for this report was Kimberly Brandt. Ms. Brandt assisted in report preparation, data analysis, and overall conclusions and recommendations contained herein. Ms. Brandt is a Professional Geologist (No. 6658) and a Certified Hydrogeologist (No. 555). Ms. Brandt has evaluated, selected, and implemented appropriate investigation and remediation methods at various environmental sites located throughout the Bay Area, Northern and Southern California, and in Oregon.

Perjury Statement

I declare, under penalty of perjury, that the information and/or recommendations contained in the	16
attached document or report is true and correct to the best of my knowledge.	

Ted Dang, President

Date

Table of Contents

1.0	INTRODUCTION	1
2.0	SITE CHARACTERISTICS	2
2.1	Geologic/Hydrogeologic Setting	2
2.2	Soil	2
2.3	Groundwater	2
3.0	PREVIOUS PROPERTY INVESTIGATIONS	3
3.1	Previous Soil and Groundwater Sampling	3
3.2	September 1994 Aqua Science Engineers – Tank Removal Report	3
3.3	May 2001 M.L. River Group – Phase I ESA	4
3.4	August 2002 Kleinfelder- Soil and Groundwater Sampling	4
3.5	January 2005 Ceres Associates – Soil and Groundwater Sampling	5
3.6	February 2006 Ceres Associates – Soil and Groundwater Sampling	6
3.7	May 2006 Ceres Associates - Well Survey	8
3.8	October 2006 Ceres Associates - Deeper Groundwater Sampling	8
3.9	August 2006 to April 2007 Ceres Associates - Quarterly Groundwater Monitoring Results	9
3.10	Summary of Identified Contaminants and Concentrations	10
4.0	SOIL EXCAVATION AND CONFIRMATION SAMPLING	11
4.1	Excavation	11
4.2	Excavation Limitations	13
4.3	Stockpiled Soil	13
4.4	Soil Backfilling and Off Haul	14
4.5	Initial Confirmation Sampling	14
4.6	Subsequent Soil Sampling	16
5.0	SUMMARY AND CONCLUSIONS	18
6.0	RECOMMENDATIONS	21
7.0	PROPERTY RE-USE	22
8.0	LIMITATIONS	23

Figures

Figure 1 – Topographic Map

Figure 2 – Previous USTs and Developments

Figure 3 – Boring Location Map

Figure 4 – Monitoring Well Location Map

Figure 5 - Planned Excavation Map

Figure 6 – Actual Excavation Map

Tables

Table 1: Soil Sampling during UST Removal - August 1994

Table 2: Kleinfelder Soil and Groundwater Sampling - June 2002

Table 3: Ceres Associates Soil and Groundwater Sampling – January 2005

Table 4: Ceres Associates Soil and Groundwater Sampling – February 2006

Table 5: Ceres Associates Deeper Groundwater Sampling – September 2006

Table 6: Ceres Associates Quarterly Groundwater Monitoring – August 2006 to April 2007

Table 7: Ceres Associates Initial PID readings during Excavation – December 2006

Table 8: Ceres Associates Initial Confirmation Soil Sampling – December 2006

Table 9: Ceres Associates Additional Soil Sampling PID readings – June 2005

Table 10: Ceres Associates Additional Soil Sampling - June 2007

Appendices

Soil Logs Non-hazardous Waste Manifests Laboratory Data Sheets Photographs Correspondence

1.0 INTRODUCTION

The Property is located at 2547 East 27th Street, Oakland in Alameda County, California (*refer to Figure 1 – Topographic Map*). The Property was formerly occupied by a fuel and service station between 1927 and 1994. In 1994 the fuel and service station was demolished and the Property is currently unoccupied. A chain-link fence is present at the perimeter to secure the Property. The Property is periodically used for storage of building materials for nearby construction sites. The Property is located amongst single-and multiple- family residences.

In 1994, one 100-gallon waste oil underground storage tank (UST) and four 500-gallon gasoline USTs were excavated and removed from the Property. The 500-gallon USTs reportedly contained gas and diesel. After the USTs were removed, the excavation pits were lined with visqueen plastic and backfilled with the excavated material.

This report summarizes the activities conducted at the Property to date and presents the results of the soil excavation activities conducted in December 2006 and January 2007, following an ACHCSA approved Corrective Action Plan (CAP), dated June 28, 2006.

The regulatory risk criteria utilized in this report are Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control Board (RWQCB) for residential sites where groundwater IS a potential or current drinking water source.



2.0 SITE CHARACTERISTICS

2.1 Geologic/Hydrogeologic Setting

Based upon geologic maps, the Property is underlain by Pleistocene alluvial fan deposits (Helley & Graymer, 1997). The Property lies at approximately 115 feet above mean sea level. The local topography slopes to the south, southeast.

2.2 Soil

The soils on the Property consist of generally sandy gravel fill from the surface to four (4) feet below ground surface (bgs). From four (4) feet to twelve (12) feet bgs the soil appears to consist of silty clays. Between twelve (12) feet and fifteen (15) feet bgs the soil is generally gravel and sand with some clay. At depths greater than fifteen (15) feet to a depth of twenty-seven (27) feet bgs, the soils are primarily clay with some silts, sands, and gravels. Off-site soils are generally consistent with on-site soils.

2.3 Groundwater

Groundwater has been encountered on the Property between approximately three (3) and fourteen (14) feet bgs. Groundwater elevations are generally within three (3) to five (5) feet of the ground surface. The variable groundwater elevations across the Property suggest the possibility of a perched groundwater lenses.

The groundwater flow direction, based upon historic quarterly monitoring events by Ceres Associates, ranges from east-northeast to south-southeast, with an overall trend toward the southeast, with a gradient of 0.006 ft/ft.



3.0 PREVIOUS PROPERTY INVESTIGATIONS

Several investigations and remedial actions have been conducted at the Property. The following section summarizes those investigations and actions.

3.1 Previous Soil and Groundwater Sampling

Soil and groundwater contamination at the Property appears to have originated from historic uses of underground storage tanks for the purposes of storing gasoline and diesel fuel and waste oil *(refer to Figure 2 – Previous USTs and Developments)*. The Property has been the subject of several previous assessments, including:

- Tank Removal Report, September 1994, Aqua Science Engineers
- Phase I ESA, May 2001, M.L. River Group
- Soil and Groundwater Sampling, August 2002, Kleinfelder
- Soil and Groundwater Sampling, January 2005, Ceres Associates
- Soil and Groundwater Sampling and Monitoring Well Installation, February 2006, Ceres Associates
- Well Survey, May 2006, Ceres Associates
- Deeper Groundwater Sampling, October 2006, Ceres Associates
- Quarterly Groundwater Monitoring, 2006 2007, Ceres Associates

Based upon previous soil and groundwater sampling events at the Property, the following target compounds have been identified:

Compound	Abbreviation	
Total Petroleum Hydrocarbons as Gasoline	TPHg	
Total Petroleum Hydrocarbons as Diesel	TPHd	
Total Petroleum Hydrocarbons as Motor	TPHmo/ho	
Oil/Hydraulic Oil		
Benzene		
Toluene	Callactivaly DTEV	
Ethylbenzene	Collectively, BTEX	
Xylenes		

3.2 September 1994 Aqua Science Engineers - Tank Removal Report

An Underground Storage Tank Removal Report, dated September 15, 1994, was prepared for the Property by Aqua Science Engineers, Inc. According to the report four 500-gallon and one 100-gallon steel underground storage tanks were removed form the Property on August 30 and 31, 1994 (refer to Figure 2 – Previous USTs and Developments. All four of the 500-gallon tanks were reported to have contained gasoline; the 100-gallon tank was reported to have contained waste oil.



Soil Sample Results

Soil samples collected from the bottom of the excavations indicated detectable concentrations of TPHg and BTEX (refer to Table 1: Soil Sampling during UST Removal – August 1994). Detectable concentrations of oil and grease were identified in the soil directly beneath the former waste oil tank. Concentrations ranged from a low of 0.2 mg/Kg to a high of 930 mg/Kg TPHg beneath the four former gasoline USTs. There were no detectable concentrations of petroleum hydrocarbons found beneath the former pump islands.

Upon completion of the soil sample collection, the excavations were lined with visqueen plastic and backfilled immediately with the stockpiled material. According to the report, this re-filling was meant only as a temporary measure and this plan was verbally discussed at the time and approved by Barney Chan of the ACHCSA.

Recommendations

Aqua Science Engineers, Inc. recommendationed removal and stockpiling of the material that had been placed back into the excavations as temporary backfill; collecting samples and analyzing for profiling and acceptance into an off-site recycling facility, then off-hauling; over-excavating, stockpiling and sampling the residual contaminated soil; backfilling the excavation with clean, imported, compactable material to grade; and, conducting subsurface soil and groundwater investigations proscribed by local the regulatory agency.

3.3 May 2001 M.L. River Group - Phase I ESA

A Phase I ESA report, dated May 10, 2001, was conducted for the Property by M.L. River Group Environmental Consultants. According to the report, the Property was first developed sometime between 1900 and 1920, and was operated as a gasoline and/or garage from 1927 through 1994. At the time of the report, the Property was vacant and no structures or building materials remained on the site.

Neither hazardous materials nor electrical transformers were observed on the Property. However, the report did summarize the above referenced UST Removal Report, noting that soil sampling conducting during the UST removal indicated subsurface contamination.

No further site study or remediation had been done at the Property between the time of the tank removal and the preparation of this Phase I ESA Report. The case had been referred to the Alameda County District Attorney's Office shortly before the Phase I ESA's publication. Prior to granting closure for the site, the ACHCSA reportedly required remediation of the contaminated soil and additional studies of the soil and groundwater. The Phase I ESA report concluded that "soil remediation and subsurface investigation of the Subject Site must be performed before redeveloping the Property".

3.4 August 2002 Kleinfelder- Soil and Groundwater Sampling

A Soil and Groundwater Sampling report, dated August 2, 2002, was prepared for the Property by Kleinfelder. The report cited the Phase I history noted above. Kleinfelder advanced three soil borings (EB-1, EB-2 and EB-3) on the Property on June 19, 2002 (refer to Figure 3 – Boring Location Map). At that time, monitoring wells were installed in each of the three borings. According to the boring logs



(refer to Appendix for a copy of the boring logs), between two and five feet of screen was inserted into the borings and the remainder of the borings were backfilled with grout. These wells are no longer operational.

Soil Sample Results

According to the report, reported concentrations of TPHg, TPHd, TPHmo and BTEX compounds were detected in at least one of the soil samples collected from each soil boring exceeding regulatory action limits (refer to Table 2: Kleinfelder Soil and Groundwater Sampling - June 2002). TPHg was detected at 1,200 mg/Kg in EB-1 and 1,800 mg/Kg in EB-2. TPHd was detected at 650 mg/Kg in a soil sample collected from EB-1 and 1,500 mg/Kg in a soil sample collected from EB-2. TPHmo was detected in concentrations above laboratory reporting limits only in the soil sample from boring EB-1 at 14 mg/Kg. Further, the laboratory described the detected TPHg as strongly aged gasoline, and the TPHd was described as Stoddard solvent. A soil sample collected from EB-1 had reported concentrations of ethylbenzene at 1.6 mg/Kg, toluene at 0.62 mg/Kg, and xylenes of 3.3 mg/Kg. A soil sample collected from EB-2 had reported concentrations of ethylbenzene at 3.1 mg/Kg and xylenes at 4.9 mg/Kg. Concentrations of MTBE were not reported above the method reporting limit for any of the soil samples submitted for analysis.

Groundwater Sample Results

Groundwater samples were collected from each of the three groundwater monitoring wells. The groundwater samples reportedly to contained concentrations of TPH in each of the three groundwater wells. TPHd was reported in monitoring well EB-1 at a concentration of 56 micrograms per liter (μ g/L). The groundwater sample collected from monitoring well EB-2 was reported to contain TPHg at 82 μ g/L, TPHd at 360 μ g/L, and TPHmo at 310 μ g/L. A groundwater sample from monitoring well EB-3 reportedly contained concentrations of TPHd at 270 μ g/L and TPHmo at 540 μ g/L. Only EB-2 had reported concentrations of BTEX compounds. This well had concentrations of benzene at 0.97 μ g/L, toluene at 1.3 μ g/L, and xylenes at 1.3 μ g/L. Ethylbenzene and MTBE were not reported above their laboratory reporting limits.

Recommendations

Kleinfelder recommended conducting further soil and groundwater sampling to determine the extent of soil contamination and to confirm the groundwater results from their initial study. Kleinfelder suggested a program of shallow drilling in a grid pattern in order to help delineate the extent of the impacted soil and that additional groundwater samples be collected to further study the potential impacts to groundwater.

3.5 January 2005 Ceres Associates - Soil and Groundwater Sampling

To further access the extent of soil and groundwater impacts at the Property, Ceres Associates collected soil and groundwater samples on January 7, 2005 (project CA1264-1, dated January 28, 2005) (refer to Figure 3 – Boring Location Map). Ten (10) soil borings were drilled at the Property to a maximum depth of 10 feet bgs (labeled SB-1 through SB-10); soil samples were collected at five and 10 feet bgs from each boring. Additionally, grab groundwater samples were collected from soil borings SB-1 through SB-10, as well as from six hydro-punch® borings (labeled GW-1 through GW-6).

Soil and grab groundwater samples were analyzed for TPHg, TPHd, BTEX, and MTBE (refer to Table 3: Ceres Associates Soil and Groundwater Sampling – January 2005).



Soil Sample Results

The only soil samples from five (5) feet bgs that were reported to contain concentrations of the target analytes above reporting limits were collected from soil boring SB-6, and had reported concentrations of benzene of 0.024 mg/Kg and ethylbenzene of 0.031 mg/Kg; and SB-9 which had reported concentrations of TPHg at 32 mg/Kg, TPHd at 52 mg/Kg, ethylbenzene at 0.017 mg/Kg and xylenes at 0.013 mg/Kg.

The 10 foot bgs samples tended to have higher concentrations of the target analytes, although the 10 foot samples from SB-1, SB-2, and SB-8 were reported by the laboratory to not contain concentrations of the target analytes above their respective reporting limits. The highest concentrations of the target analytes were reported as 61 mg/Kg of TPHg (SB5-10), 46 mg/Kg of TPHd (SB5-10), 0.007 mg/Kg of benzene (SB5-10), 0.045 mg/Kg of ethylbenzene (SB5-10), and 0.027 mg/Kg of xylenes (SB5-10).

The reported concentrations of the target analytes in the soil samples analyzed from soil borings SB-1 through SB-10 did not exceed regulatory action limits.

Groundwater Sample Results

Target analytes were reported above method reporting limits in all but one of the grab groundwater samples. Concentrations of TPHg were as high as 90,000 μ g/L (SB-9); 750,000 μ g/L for TPHd (SB-9); 140 μ g/L for benzene (SB-9); 1.5 μ g/L for toluene (SB-1: note, however, that the result for SB-9 was reported as ND<50); 77 μ g/L for ethylbenzene (SB-9); and 20 μ g/L for xylenes (SB-6: note, however, that the result for SB-9 was reported as ND<50). MTBE was not reported above the method limits in any grab groundwater samples.

Benzene concentrations exceeded the regulatory limit of 1 μ g/L, set by the State of California Department of Health Services (CDHS) Maximum Contaminant Level (MCL). While the CDHS has not created MCLs for TPHg and TPHd, the RWQCB had established an ESL for both TPHg and TPHd of 100 μ g/L.

Recommendations

Based on these results, Ceres Associates recommended the installation of additional monitoring wells both on and off the Property to help define the limits of contamination and to assess groundwater flow direction. This additional work was conducted in February 2006.

3.6 February 2006 Ceres Associates - Soil and Groundwater Sampling

Ceres Associates collected on and off-site soil and groundwater samples on February 16 and 17, 2006 (Ceres Associates Project # CA1264-3, dated February 28, 2006, revised July 2006). A total of 14 borings were advanced on and off the Property in an effort to confirm the concentrations of contaminants on the Property as well as assess off-site migration of target compounds (labeled SB-11 through SB-24). These borings were advanced to between 8 and 20 feet bgs (refer to Figure 3 – Boring Location Map). Soil samples were collected every two feet, and one grab groundwater sample was collected from each boring.

Though all samples were submitted to the laboratory, only three soil samples and the one grab groundwater sample from each boring were analyzed for target compounds. The soil samples were chosen for analysis according to observed field conditions (odors, colorations, capillary fringe location, and PID readings). Samples were analyzed for TPHg, TPHd, TPHmo, TPHho, VOCs, and lead (refer to Table 4: Ceres Associates Soil and Groundwater Sampling – February 2006).



Groundwater Monitoring Well Installation

Additionally, Ceres Associates installed five groundwater monitoring wells (MW-1 through MW-5) and one extraction well that was intended for potential future remediation purposes (EX-1) (refer to Figure 4 – Monitoring Well Location Map). The groundwater monitoring wells were installed to 15 feet bgs, with screened intervals between 5 and 15 feet bgs (except for MW-2: installed to 8 feet bgs, with screened interval between 3 and 8 feet bgs). The extraction well was similarly installed to 15 feet bgs, with a screened interval between 5 and 15 feet bgs.

Soil Sample Results

Laboratory results indicated that target analyte concentrations in soil samples fell below the Residential ESL for TPHg and TPHd in all but two samples: SB12-14 at 250 mg/Kg of TPHg and SB21-12 at 490 mg/Kg of TPHd. Concentrations of TPHg in soil samples ranged from ND to 250 mg/Kg (SB12-14); concentrations of TPHd in soil samples ranged from ND to 490 (SB21-12); and, concentration of TPHho or TPHmo in soil samples ranged from ND to 38 mg/Kg (SB20-12). Concentrations of BTEX compounds were not reported by the laboratory above the method reporting limits, except for one sample (SB14-14) at 0.0074 mg/Kg. Other VOCs were not reported above the method reporting limits for submitted soil samples. Lead concentrations were reported by the laboratory to range from ND to 51 mg/Kg.

Groundwater Sample Results

Grab groundwater sampling results indicated that hydrocarbon affected groundwater was detected offsite, east of the Property, in most of the sample points advanced by Ceres Associates during this sampling event. Concentrations of TPHg above the method reporting limits were only reported in three grab groundwater samples: 1,500 μ g/L in SB-21 (on the Property), 74 μ g/L in SB-14 (east of the Property), and 51 μ g/L in SB-19 (south of the Property). However, points between these sample locations were not reported above ND. The highest concentrations of TPHd were reported off-site: SB-22 at 3,600 μ g/L, immediately south of the Property and SB-13 at 1,300 μ g/L, east of the Property. Onsite TPHd contamination was reported as high as 910 μ g/L at SB-21, located along the southern boundary of the Property. Samples further south and east of SB-21 were also reported above ND at concentrations exceeding the ESL for TPHd. Concentrations of TPHmo (motor oil and hydraulic oil) were detected both on and off-site (SB-13, SB-15, SB-17, SB-20, and SB-22). Concentrations of these target analytes were generally higher than the concentrations reported for TPHg or TPHd, with highest concentrations detected at 28,000 μ g/L of TPHmo in SB-22. Concentration of VOCs were not reported by the laboratory of their respective method reporting limits. Concentrations of lead were reported by the laboratory between ND and 17 μ g/L.

Based on the results it was concluded that on-site contamination of petroleum hydrocarbons in groundwater had migrated off-site, down-gradient of the Property, in a generally easterly direction. Concentrations of petroleum hydrocarbons were reported above the ESL in groundwater samples collected as much as 100 feet down-gradient of the Property. The relatively high concentrations of petroleum hydrocarbons were not accompanied by high concentrations of BTEX compounds or fuel oxygenates. In fact, fuel oxygenates EDB and 1,2-DCA were reported as ND for all grab groundwater and soil samples submitted to the laboratory. Concentrations of BTEX compounds fell below the Maximum Contaminant Levels (MCLs) in all grab groundwater samples collected (SB-11 through SB-24).

Monitoring Well Sample Results

Samples were not collected from the monitoring wells during this sampling event; however, groundwater samples were collected as part of quarterly groundwater monitoring activities (see



Quarterly Groundwater Monitoring Summary below for further information regarding the results of such sampling).

Recommendations

It was recommended that one deeper boring be advanced to 40 feet bgs to assess potential vertical contamination migration, preparing a corrective action plan, and preparing a risk assessment. This work was ultimately completed in October 2006.

3.7 May 2006 Ceres Associates - Well Survey

Ceres Associates prepared a well survey, dated May 15, 2006 (Ceres Associates project CA1264-3). The ACHCSA requested that the well survey be conducted in a letter to Tomorrow Developed, dated October 3, 2005. The survey was conducted to locate groundwater wells within a 2,000-foot radius of the Property. Ceres Associates collected data from the State of California Department of Water Resources, the Alameda County Public Works Agency, and from the City of Oakland Public Works Department.

A total of 19 wells were identified in the search area, generally located between 1,000 and 2,000 feet from the Property. The Property is located to the west of Sousal Creek; however, all of the wells identified within the search radius are located east of Sousal Creek.

The report included figures and supporting documents regarding the identified wells. Recommendations were not made in the report, as the well survey was meant to compliment other on-going investigation reports.

3.8 October 2006 Ceres Associates - Deeper Groundwater Sampling

Ceres Associates advanced one soil boring (SB25) on the Property to 27 feet bgs on September 20, 2006 (refer to Figure 3 – Boring Location Map). SB25 was placed in close proximity to extraction well EX-1. The sampling was done per the request by the ACHCSA in a letter dated May 18, 2006. The purpose of this boring was to assess soil statigraphy beneath the Property and to collect depth-discrete grab groundwater samples.

Although the initial request by ACHCSA was to sample to 40 feet bgs, the Geoprobe® 6600 met with refusal at 27 feet bgs. Other attempts were made in nearby locations (still on the Property) to exceed this depth, however these attempts were unsuccessful and resulted in shallower borings.

Continuous soil cores were collected during the advancement of SB-25 and analyzed in the field for potential depth-discrete groundwater sampling points. Based upon the soil data, depth-discrete sample locations were planned for 13 and 21 feet bgs. A hydro-punch was used to collect grab groundwater samples from these depth-discrete locations.

The groundwater samples collected were submitted to the laboratory for analysis of TPHg, TPHd, TPHmo, MTBE, and BTEX constituents (refer to Table 5: Ceres Associates Deeper Groundwater Sampling – September 2006). Soil samples were not requested in the May 18,2006 letter from ACHCSA, so they were not collected.

Groundwater Sample Results



The results of the groundwater sampling indicated that only one concentration of target analytes was reported above the method reporting limits: 0.84 μ g/L of benzene at 21 feet bgs. This result falls below the Residential ESL of 1 μ g/L for benzene. Other sample analytes at both 13 and 21 feet bgs were not reported above the method reporting limits by the laboratory.

The results of the deeper groundwater sampling were included in the quarterly monitoring report, dated October 27, 2006.

3.9 August 2006 to April 2007 Ceres Associates - Quarterly Groundwater Monitoring Results

Ceres Associates has monitored six groundwater monitoring wells on the Property (five groundwater monitoring and one extraction) since their installation in February 2006. Wells MW-1, MW-2, MW-3, MW-4, MW-5, and EX-1 have been sampled four times: August 2006, November 2006, January 2007, and April 2007 (refer to Figure 3 – Boring Location Map). These wells have been sampled using low-flow purging/sampling methods.

Samples have been analyzed for various fuel and fuel related compounds, including TPHg, TPHd, TPHmo, MTBE, and BTEX using US EPA methods 8015 and 8021 (refer to Table 6: Ceres Associates Quarterly Groundwater Monitoring – August 2006 to April 2007). The ACHCSA requested additional compound analysis for samples collected during the Second Quarter 2007 sampling event (per the April 26, 2007 letter to Tomorrow Development) as follows: 1,2-dibromoethane(EDB), ethylene dichloride (EDC), MTBE, tert-amyl methyl ether (TAME), ethyl tert-butyl ether (ETBE), di-isopropyl ether (DIPE), Tertiary Butanol (TBA), chlorinated hydrocarbons, carbon tetrachloride, ethylene dichloride, methylene chloride, tetrachloroethane, trichloroethylene, and chloroform. These additional analytes were reported as ND by the laboratory for all groundwater samples submitted for analysis. Among the new compounds that were required by the ACHCSA during the Second Quarter 2007, only chloroform was detected above the method reporting limits. The only "new" analytes detected were in MW-2 at a concentration of 23 μ g/L chloroform, 0.51 μ g/L of bromoform, 0.55 μ g/L of dichlorobromomethane, and 1.5 μ g/L of bromochloromethane.

The source of VOCs in MW-2 is not known. MW-1, located between the Property and MW-2, did not have concentrations of these compounds above the method reporting limits. MW-2 is screened between 3 and 8 feet bgs, in an area of the soil horizon dominated by subsurface utility trenches and lines. It is possible that these minor VOC concentrations are a result of small spills and leaks associated with these utility lines, and not that of the Property.

Based upon the four quarters of quarterly groundwater monitoring, elevated concentrations of target compounds in on-site groundwater are generally limited to monitoring well EX-1. Only the two wells closest to the Property, MW-1 and MW-2, have had groundwater sample results reported by the laboratory above the method reporting limits for target analytes TPHg, TPHd, TPHmo, ethylbenzene and xylenes. The highest concentrations of target analytes reported by the laboratory for quarterly groundwater monitoring are in EX-1 at 2,200 μ g/L of TPHg (exceeding the ESL of 100 μ g/L); 800 μ g/L of TPHd (exceeding the ESL of 100 μ g/L); 1.0 μ g/L of benzene; 3.9 μ g/L of ethylbenzene; and 3.2 μ g/L of xylenes. Concentrations of toluene and MTBE have not been reported in groundwater monitoring wells above the method reporting limits. Isoconcentration maps have not been generated for this site because of a lack of data points (no more than two data points are available for any given analyte and date).



3.10 Summary of Identified Contaminants and Concentrations

Based upon the above reported sampling events at the Property, the following maximum compound concentrations have been reported:

Compound	Maximum Soil	Maximum Soil	Maximum	Maximum	April 2007	April 2007
Compound	Concentration	Concentration	Groundwater	Groundwater	Groundwater	Groundwater
	(on-site)	(off-site)	Concentration	Concentration	sample	Sample
			(on-site)	(off-site)	(on-site)	(off-site)
	Milligrams/Kild	ogram (mg/Kg)		Micrograms/	′Liter (μg/L)	
TPHg	1,800	250	90,000/2,200	74/ND	1,000	ND
TPHd	1,500	28	750,000/800	3,600/78	740	60
TPHmo/ho	14	38	ND/270	28,000/280	ND	ND
Benzene	0.024	ND	140/1.0	ND/ND	ND	ND
Toluene	ND	ND	1.5/ND	1.4/ND	ND	ND
Ethylbenzene	0.045	ND	77/3.9	ND/1.0	1.7	ND
Xylenes	0.027	0.0075	20/3.2	1.7/2.0	2.4	ND

90,000/2,200 = Groundwater concentrations are reported as grab groundwater sample/quarterly monitoring sample ND = not detected above the method reporting limits



4.0 SOIL EXCAVATION AND CONFIRMATION SAMPLING

When the former Property USTs were removed in 1994, soil contamination was observed and noted beneath the USTs and the product piping. At the time of the UST removal, soil samples were collected from beneath the former USTs and from the stockpiled soil from the excavation. The laboratory reported concentrations as high as 930 mg/Kg of TPHg, 2.2 mg/Kg of benzene, 2.2 mg/Kg of toluene, 2.7 mg/Kg of ethylbenzene, and 3.3 mg/Kg of xylenes. The stockpiled soil was apparently used as backfill material in the tank pit excavations on a temporary basis to support nearby structures (refer to Figure 5 – Planned Excavation Map, which includes a reference the historic excavation). Those structures have since been removed.

ACHCSA requested that the contaminated backfill material be removed from the Property in a letter dated May 18, 2006. ACHCSA noted that "the purpose of the excavations is to remove residual contamination that poses a long-term potential for exposure and will be a long-term source of groundwater contamination."

Ceres Associates prepared a Corrective Action Plan (CAP), dated June 28, 2006. The CAP noted that the removal of the soil used to backfill UST pits was the first step in remediating the Property. The extent of the excavation was to be assessed by use of a PID (until readings along the walls reached below 1 ppm), vertically by groundwater intrusion (or similar PID analysis), and a buffer of five-feet within monitoring wells. Confirmation sampling was to include two floor samples and one wall sample per excavation area for analysis of TPHg, TPHd, and BTEX compounds. If confirmation samples met Residential ESLs, the excavations were to be backfilled with clean imported soils. The ACHCSA approved the CAP, in a letter dated August 4, 2006, with several comments (refer to Appendix for a copy of the correspondence). With regard to the planned excavations, the ACHCSA requested that the excavation be extended beyond that identified by Ceres Associates to include areas under the 27th Street sidewalk and former pipe runs. Additionally, the agency requested that confirmation samples taken from the former waste oil UST excavation be analyzed for additional analytes [oil & grease, chlorinated hydrocarbons, 1,4-dioxane, EDB, EDC, MTBE, TAME, ETBE, DIPE, TBE, ethanol, LUFT 5 metals (cadmium, chromium, lead, nickel and zinc), polychlorinated biphenyls (PCBs), and polynuclear aromatic hydrocarbons(PNAs)].

4.1 Excavation

On December 1, 2006, excavation activities commenced at the Property. Ceres Associates contracted with ERRG, Inc., for excavation and off-haul services related to the Property. An excavation permit was not required by the City of Oakland, however parking lane closure permits were obtained by ERRG. After lane closure permits were approved, "No Parking" signs were posted along the edge of the Property, in accordance with the permits.

Prior to field work the soil excavation boundaries were marked on the surface using a white, non-toxic paint. More than 48 hours prior to field work, Ceres Associates notified the Underground Service Alert (USA) of our work plans. The excavations were advanced using a small excavator, and was centered around the former USTs and associated piping (refer to Figure 5 – Planned Excavation Map).

The excavations were labeled according to location and were completed to the following parameters (refer to Figure 5 – Planned Excavation Map):



Area	Description
I	Encompassed the northwestern section, adjacent to East 27th Street. The excavation pit is a rectangle approximately 18 feet (parallel to East 27th Street) by approximately eight feet. This excavation is centered on former UST excavation pits that were backfilled. The excavation was extended to 9.5 feet bgs.
II	Encompasses the easternmost area of excavation, adjacent to 26th Ave. This area is a rectangle of approximately 15 feet by 15 feet, extending almost to former boring GW-3. The purpose of this area was to address former pipe runs associated with the former USTs. Additionally, approximately half way between the 26th Avenue and the former boring GW-3, an extension of the pit runs northwest (towards East 27th Street and connecting with Area I) so as to include the former pipe area. The excavation was extended to 9.5 feet bgs.
III	This rectangular pit is located approximately in the middle of the Property. The rectangle measured approximately 10 feet wide and 15 feet in length (long-side paralleled 26 th Avenue). This excavation was centered on former soil boring EB-3. The excavation was extended to 9.5 feet bgs.

Ceres Associates utilized a photo-ionization detector (PID), using a standard headspace method analysis, to assess the effectiveness of affected soil removal along the horizontal and vertical boundaries of the excavation. The excavation was generally continued horizontally until the PID reading was below 1 ppm (refer to Table 7: Ceres Associates Initial PID readings during Excavation – December 2006).

Originally, Area I and Area II were connected by a four foot wide channel, extending to approximately 9 feet bgs. However, the separating wall was removed after preliminary results of initial confirmation sampling indicated elevated hydrocarbon concentrations in the wall. Therefore, the area of sample II-9-W was removed entirely (to a depth of approximately 9.5 feet bgs). Additionally, the northwest corner of Area III was connected with the southwest corner of Area II, because the excavations were so close it made practical sense to remove a barrier (thereby increasing the efficiency of backfilling activities).

By the completion of the excavation, the excavation areas were connected (refer to Figure 6 – Actual Excavation Map). Excavation areas were extended to a depth of approximately 9.5 feet bgs, where PID readings were measured at 0.0 ppm.

A total of approximately 200 cubic yards of contaminated soil was excavated and removed from the Property by ERRG under Ceres Associates supervision (refer to Photographs 1 - 15, located in the Appendix - Property Photographs).

During the excavation process, approximately one 5-foot section of ¾ inch PVC was observed; however, additional well materials or PVC was not encountered. It is likely that the PVC was a remnant of monitoring wells installed by Kleinfelder in 2002; however, other well materials were not observed during the excavation process. According to the boring logs for these wells (EB-1, EB-2, and EB-3) between two and five feet of screen were inserted at the surface with the remainder of each boring being grouted [the logs indicate as much as one foot of sand pack was used]. Therefore, because the



excavations extended to approximately 9.5 feet in these areas and the wells were only as deep as approximately 5 feet, the entirety of the three wells were removed by the excavation process.

4.2 Excavation Limitations

The extent of each excavation was limited by necessary set-backs from adjacent surface features – for safety purposes – and Ceres Associates groundwater monitoring wells, specifically EX-1.

The northeast wall of excavation Area I (represented by sample I-9-W) could not be feasibly excavated further northeast because it is adjacent to the public sidewalk of east 27th Street and several utility lines, and would have caused undermining and threatened the integrity of these adjoining features. PID readings taken of soil on the walls of this excavation were reported as 0 ppm. Ceres Associates had not obtained permission or appropriate permits to remove the public sidewalk to further excavation activities.

The northwest wall of excavation Area I (represented by sample I-9-N) could not feasibly be excavated further northwest due to shallow groundwater intrusion at approximately 9.5 feet bgs, causing destabilization of the excavation wall. PID readings taken of soil on the walls of this excavation were reported as 0 ppm.

4.3 Stockpiled Soil

Soil removed from the excavation pit was placed on the southwest portion of the Property on top of visqueen plastic sheeting. After each day's activities, the stockpiled soil was covered with additional layers of visqueen, in an effort to minimize potential impacts to non-impacted soils. The excavation pit was secured by a chain link fence around the Property.

Ceres Associates collected a composite of the stockpiled soil that was generated during the excavation process to establish a soil profile for disposal.

A total of approximately 396 tons of soil was excavated from the Property by Ceres Associates. Stockpiled soil was removed from the Property on January 22, 2007, and transported, under manifest, as non-hazardous waste to B&J Landfill, Vacaville, California (refer to Appendix for copies of non-hazardous waste manifests).

Ceres Associates collected one four-point composite soil sample (Ceres Associates provided the laboratory with four samples, the laboratory performed the compositing prior to analysis) from the stockpiled soil and submitted the sample to McCampbell Analytical, a state-certified laboratory, for analysis of TPHg, TPHd, TPHmo, and BTEX using US EPA Methods 8015C and 8021B, as well as LUFT 5 metals. The results of that sampling are as follows:

Composite Sample of Stockpiled Soil

(reported in milligrams per kilogram, mg/Kg)

Sample	TPHg	TPHd	TPHmo	Ethylbenzene	Xylenes	Chromium	Lead	Nickel	Zinc
S-1-4	140	33	9.8	0.099	0.27	45	48	51	110

The following analytes were not detected above the method reporting limits: Benzene, Toluene, and Cadmium.



These data were submitted to the B&J Landfill for review. Based upon these data, the soil was accepted into the B&J Landfill in Vacaville, California.

4.4 Soil Backfilling and Off Haul

After the excavation was complete and confirmation soil samples were received, ERRG backfilled the excavation pits. Due to site access restraints this work occurred primarily on December 2 and 4, 2006, but an additional four truckloads were required on January 22, 2007 to complete the backfill work.

The bottom approximately three feet of the fill consisted of quarry fines supplied by Curtner Quarry of Milpitas California. This material is the sifted, primarily mineral component from a rock quarry. According to the Curtner Quarry, the fines have a maximum diameter of 9.50 millimeters (0.375 inch), and have at least 50% under 0.3 millimeters (0.012 inches). The quarry fines were compacted using a back-hoe and a "sheeps-foot" compaction attachment on an excavator. The compacted material was then overlain with Mirafi 140N non-woven, polypropylene, 55 mil thickness, geo-textile fabric. The placement of the fabric creates a barrier so that the fill soil placed on top of will be less likely to subside.

Clean fill soil from undeveloped land was also acquired from Curtner Quarry to fill the remaining portion of the excavation. The fill material was brought onto the Property, then spread out on top of the fabric. At approximately every 18 to 24 inches, the fill material was compacted in the same manner as described above for the quarry fines.

A total of 380 tons of soil and base rock were brought on-site for backfill purposes.

4.5 Initial Confirmation Sampling

Ceres Associates collected confirmation soil samples from the walls of the excavation after the extent of the excavation had been reached on December 2, 2006. In July 2007, Ceres Associates collected additional samples from the area around the excavation areas.

Soil samples were collected from along each wall of each excavation area by pressing laboratory provided glass jars into the sidewall of the excavation and then they were sealed a Teflon-lined cap and were labeled with a unique identification (refer to Figure 6 - Actual Excavation Map). Samples were placed on ice, pending delivery to McCampbell Analytical, a state-certified laboratory, as follows:



Laboratory Analysis Matrix: Initial Confirmation Sampling

Sample	Depth Taken (ft bgs)	Laboratory Analyses
I-9-N		
I-9-W		
I-9-S		
I-9-E		
II-9-N		
II-9-W	9	TPHg, TPHd, TPHmo using US EPA Method 8015C
II-9-S	9	BTEX using US EPA Method 8021B
II-9-E		
III-9-N		
III-9-W		
III-9-S		
III-9-E		

Rationale for sample submittal

Ceres Associates continued the excavations horizontally until contaminated soils were no longer observed and the PID readings were below 1 mg/Kg. Samples were collected near the base of each wall near the mid-point of the length of the wall. The following table notes the PID readings recorded in the field at the full extent of the excavation (refer to Table 7: Ceres Associates Initial PID readings during Excavation – December 2006).

PID readings were not reported above 0 ppm, except for two sample locations: the bottom of Excavation I at six feet bgs (227 ppm) and then again at eight feet bgs (114 ppm). This excavation was extended to nine and one-half feet bgs, where the PID ultimately read 0 ppm.

Soil Sample Results

Concentrations of TPHmo, MTBE, benzene, toluene, and ethylbenzene were reported as ND for all 12 samples submitted for analysis (refer to Table 8: Ceres Associates Initial Confirmation Soil Sampling – December 2006). Further, concentrations of TPHg, TPHd, and xylenes were reported as ND in those samples from excavation II and III, except for one sample in excavation II (sample II-9-W, discussed below).

Those concentrations above the method reporting limits did not exceed the Residential ESL for TPHg and TPHd (no sample exceeded the ESL for xylenes) in samples I-9-E and I-9-S. Three samples did exceed the ESL for TPHg and TPHd: I-9-W, I-9-N, and II-9-W. In these samples, concentrations of TPHg ranged from 400 to 600 mg/Kg and concentrations of TPHd ranged from 81 to 420 mg/Kg.

The area of sample II-9-W was excavated – after the sample was collected – as part of the final excavation activities associated with the removal of historically impacted soils.



4.6 Subsequent Soil Sampling

After initial confirmation sample results were received, the excavations were backfilled. However, the scope of confirmation sampling did not comply with the CAP. In a letter dated April 26, 2007, from ACHCSA, additional soil sampling was requested. The following summarizes the scope and results of the additional soil sampling.

To address ACHCSA concerns, additional soil samples were collected using a direct-push sampling rig (Geoprobe®) on June 25th, 2007 (refer to Figure 6 – Actual Excavation Map). Ceres Associates advanced a total of eight soil borings to a total depth of approximately 10 feet below ground surface (labeled CS-1 through CS-8). The locations of the borings are described below (refer to Appendix for copies of boring logs):

Boring	Location
CS-1	Outside northwest wall of excavation Area III
CS-2	Outside southeast wall of excavation Area III
CS-3	Outside northeast wall of excavation Area III
CS-4	Outside southwest wall of excavation Area III
CS-5	Adjacent to northwest wall of excavation Area I
CS-6	Near center of Excavation Area III
CS-7	Near center of Excavation Area II
CS-8	Near center of Excavation Area I

Soil borings were not advanced into the sidewalk because the City of Oakland does not permit such borings. Further, borings were not advanced into the street, because prior boring locations in the street were sufficient for contamination delineation purposes.

Soil samples were then collected in acetate sample tubes installed inside the sample sleeve. After the rod assembly was hydraulically extended to the target sample depth, the sample sleeve was retrieved to ground surface and the acetate sample tube containing soil from the appropriate sample interval was capped with Teflon®-lined plastic end caps, labeled, placed in a Ziplock® bag, and stored in a chest cooled with crushed ice. Samples were placed on ice, pending delivery to McCampbell Analytical, a state-certified laboratory, for analysis as requested by the ACHCSA in their April 26, 2007 letter:

Laboratory Analysis Matrix: Subsequent Soil Sampling

Boring	Samples	Samples	Laboratory Analyses
	Collected	Submitted	
		for Analysis	
CS-1	2.5; 5.0; 7.5;	5.0 and 10.0	TPHg, TPHd, TPHmo using US EPA Method 8015C
	and 10.0 ft bgs	ft bgs	Total Petroleum Oil & Grease using US EPA Method 9071B
CS-2	2.5; 5.0; 7.5;	5.0 and 10.0	PCBs using US EPA Method 8082A
	and 10.0 ft bgs	ft bgs	PNAs/PAHs using US EPA Method 8270C
CS-3	2.5; 5.0; 7.5;	5.0 and 10.0	VOCs using US EPA Method 8260B
	and 10.0 ft bgs	ft bgs	LUFT 5 Metals using US EPA Method 6010C
CS-4	2.5; 5.0; 7.5;	5.0 and 10.0	1,4-dioxane using US EPA Method 8260B



	and 10.0 ft bgs	ft bgs	
CS-5	2.5; 5.0; 7.5;	5.0 and 10.0	
	and 10.0 ft bgs	ft bgs	
CS-6	10.0 ft bgs	10.0 ft bgs	
CS-7	10.0 ft bgs	10.0 ft bgs	TPHg, TPHd, TPHmo using US EPA Method 8015C
CS-8	10.0 ft bgs	10.0 ft bgs	BTEX using US EPA Method 8260B

^{*}Samples were not saturated.

Field Screening

In addition to collecting samples for analysis, small amounts of each sample depth were placed into a Ziplock® bag and allowed to heat in the sun to encourage volatilization. Using a standard headspace method, Ceres Associates used a Thermo 580 PID to record volatile organic compound concentrations in each bag (refer to Table 9: Ceres Associates Additional Soil Sampling PID readings – June 2005).

Rational for sample submittal

Ceres Associates submitted the 5 and 10 foot samples from the outer walls/bottom of excavation Area III and outer wall of excavation Area I for analysis. Although varying PID readings were measured across the sample range, PID readings associated with sample collection were not significantly differentiated; therefore, PID readings were not used to determining sample submittal. This schematic provided two vertical data points per wall boring, including a sample that would have been at the deepest extent of the borings near 10 feet bgs, and one near the mid-point of excavation at 5 feet bgs.

Additionally, Ceres Associates collected a sample from approximately 10 feet bgs from excavation Areas I and II, to further assess soil conditions below the depths of the excavation.

Soil Sample Results

Concentrations of TPHg, TPHd, and BTEX were reported as ND for all samples submitted for analysis (refer to Table 10: Ceres Associates Additional Soil Sampling – June 2007). Additionally, concentrations of PCBs, PNAs, PAHs, 1,4-Dioxane, cadmium, and total oil and grease were not detected in any of the soil samples submitted for analysis. Concentrations of TPHmo were only reported in one sample – CS4-5 – at 5.9 mg/Kg. Concentrations of TPHmo and LUFT 5 metals were reported below the Residential ESL.



5.0 SUMMARY AND CONCLUSIONS

Four USTs were removed from the Property in 1994, and at that time contaminated soil was placed back into the excavation as backfill material. Additional subsurface investigations revealed impacted soil and groundwater. At the direction of the ACHCSA, a CAP was prepared to remove the contaminated soil and replace with imported fill materials. Excavation activities to remove the contaminated backfill materials were completed on December 1 and 2, 2006.

A total of approximately 200 cubic yards of contaminated soil was excavated and removed from the Property. This soil was considered a source of contamination at the Property due to the presence of petroleum hydrocarbons.

The excavation removed affected soils in all three excavations, with the exception of two sidewalls in excavation I. Laboratory sample results from the excavations were reported below the ESL for target compounds in those remaining sidewalls of excavation area II and III.

Two confirmation samples indicated concentrations of target compounds above the ESLs remain in place (an additional soil sample was reported above the ESL – II-9-W – however, this sample area was removed as part of ongoing excavation activities on December 2, 2006). Concentrations of TPHg were reported at 450 mg/Kg in sample I-9-W, at 600 mg/Kg in sample I-9-N, and at 400 mg/Kg in sample II-9-W. Further, concentrations of TPHd were reported at 420 mg/Kg in sample I-9-N and at 180 mg/Kg in sample II-9-W. These concentrations exceed the ESL of 100 mg/Kg. Other samples and/or analytes were not reported above the ESL.

Further excavation at the Property was not feasible given site constraints. The sidewall area of sample I-9-W could not feasibly be excavated further because it is adjacent to the public sidewalk of east 27th Street, and would have caused undermining; and, the sidewall area of sample I-9-N could not feasibly be excavated further due to shallow groundwater intrusion issues and stabilization of the excavation wall.

Horizontal Delineation Sampling

Residual contamination beneath the sidewalk, in the area of I-9-W, is not anticipated to further impact the Property. Additionally, residual contamination identified in sample I-9-N, from the northwest edge of excavation Area I, is limited. While the ACHCSA was not notified of the limitation on the extent of this portion of the excavation, it is not anticipated that this residual material will pose a significant health risk.

Historical sampling along with more current confirmation sampling did not indicate significant residual contaminant concentrations in this area. Soil boring SB-10, advanced in January 2005, was located in close proximity to the northwest edge of the Excavation Area I and is representative of the soils in the area of sample I-9-N. The sample collected at five feet bgs and the sample collected at 10 feet bgs from SB-10 were reported by the laboratory as ND for TPHg, TPHd, and BTEX. Further, Ceres Associates advanced one soil boring, CS-5, near to the excavation wall associated with sample I-9-N. The sample collected at five feet bgs and the sample collected at 10 feet bgs from CS5 were reported by the laboratory as ND for TPHg, TPHd, TPHmo, and BTEX constituents.

Concentrations of target compounds were reported as ND in the groundwater sample collected from MW-2 (located down-gradient of this area) during the April 2007 quarterly groundwater monitoring sampling event.



It appears that the extent of excavation Area I was sufficient to effectively remove the affected material.

Vertical Delineation Sampling

Each excavation was extended to between 9.5 feet bgs. For each excavation area, one confirmation soil sample (conducted as part of the subsequent soil sampling) was collected at approximately 10 feet bgs from near the center of each excavation, in undisturbed soil (not imported fill materials). These samples were meant to reflect the "floor" of the December 2006 excavations. According to the laboratory, target analytes [TPHg, TPHd, TPHmo, and BTEX] were not reported above the method reporting limits for these samples. It would appear that the vertical extent the excavations was sufficient for effective source removal.

The concern of the ACHCSA in reviewing the contamination at the site appeared to center around the contaminated soil from historic backfilling. It appears that the majority of that contaminated soil was removed and off-hauled during the excavation. Soil sampling indicates that affected soil remains in the northern portion of the Property. The extent of this affected soil appears to be limited and will not significantly impact groundwater beneath the site. As indicated in the April 26, 2007 letter from the ACHCSA, removal of this soil is not required at this time.

Former Waste Oil Area

In complying with the ACHCSA requests for sampling parameters of the outer walls of the excavation Area III, the laboratory analyzed the samples submitted from CS1 through CS4 (the 5 and 10-foot sample for each boring) for oil and grease, chlorinated hydrocarbons, 1,4-dioxane, EDB, EDC, MTBE, TAME, ETBE, DIPE, TBE, ethanol, LUFT 5 metals, PCBs, and PNAs. The laboratory did not report concentrations above the method reporting limits for the specified analytes, except for 5.9 mg/Kg of TPHmo at 5 feet bgs in CS-4 (the southwest wall of excavation Area III). This concentration is below the Residential ESL of 500 mg/Kg for TPHmo.

It would appear that the removal of source material in this area was effective and sufficient.

Residual Contamination

Concentrations of BTEX compounds were not reported above the method reporting limits during initial confirmation sampling, except for xylenes at a maximum concentration of 1.1 mg/Kg. This concentration falls below the ESL of 2.3 mg/Kg. Petroleum hydrocarbons were limited to TPHg and TPHd. Although two samples were identified above the ESL of 100 mg/Kg during initial confirmation sampling, the maximum concentrations reported were 600 mg/Kg for TPHg (I-9-N) and 420 mg/Kg of TPHd (I-9-W). Further, additional confirmation sampling as well as prior sampling in the area of one of these samples (I-9-N) did not indicate these target analytes above the method reporting limits. The area of I-9-W is adjacent to an impervious surface in the form of a sidewalk and roadway.

Although petroleum hydrocarbons were identified at slightly elevated concentrations, the more volatile compounds (BTEX compounds) were not identified above the ESLs. Further concentrations of target compounds are not thought to pose a significant soil vapor intrusion risk to future buildings on the Property, based upon a comparison of soil and groundwater concentrations reported on-site to published screening levels (see Appendix for Regulatory Risk Criteria).

It is also anticipated that any residual contaminants will naturally attenuate over time to concentrations below the ESLs. Concentrations of target analytes in groundwater monitoring wells are anticipated to



decrease because of the removal of this source material and because of on-going natural attenuation. Continued groundwater monitoring will provide concentrations of contaminants in groundwater.

A well survey already completed for the Property did not identify nearby sensitive site receptors that would be thought to have been impacted by the Property (refer to Well Survey, 2547 East 27th Street, Oakland, California, May 17, 2006). It is anticipated that the area of affected groundwater from the Property will stabilize and recede as natural attenuation processes reduce residual contaminants.



6.0 RECOMMENDATIONS

Ceres Associates recommends continuing quarterly groundwater sampling at the Property to assess the effectiveness of the remediation.



7.0 PROPERTY RE-USE

Regarding site use, although the TPHg and TPHd concentrations exceed the ESL in two of the samples (450 and 81 mg/Kg in I-9-W and 600 and 420 mg/Kg in I-9-N, respectively), the other nine samples from around the remainder of the site were all below the ESL (with seven of those being below the detection limits). Further, subsequent soil sampling across the Property did not reveal residual contamination (samples from CS1 through CS8) above the ESLs.

The planned construction is residential, slab-on-grade with no basement or below grade enclosed parking structure In addition to the over-excavation and placement of clean fill, this should provide sufficient separation from the little residual hydrocarbons remaining in the soil. The only two samples exhibiting volatile organic hydrocarbons contained only xylenes; the concentrations in both samples were below the ESL for xylenes. Upward migration of volatile vapors from these very low concentrations, with the sub-grade soils and planned building construction discussed above, is unlikely to produce detectable concentrations in the structures

Based upon a preliminary layout for the two single family residences planned for the site (refer to Appendix for copy of Preliminary Site Map), it appears that both EX-1 and MW-5 will be accessible after construction. The construction of the buildings are anticipated to include a 10 foot set back on all sites of the Property, which will be used for landscaping, driveways, and sidewalks.

Any potential affected soil that is encountered will be excavated and confirmation soil samples will be collected and analyzed for TPHg, TPHd, TPHmo, and BTEX. The excavation will then be backfilled with clean materials. ACHCSA will be notified of the sampling results prior to backfilling and will be apprised of the development schedule of the Property.



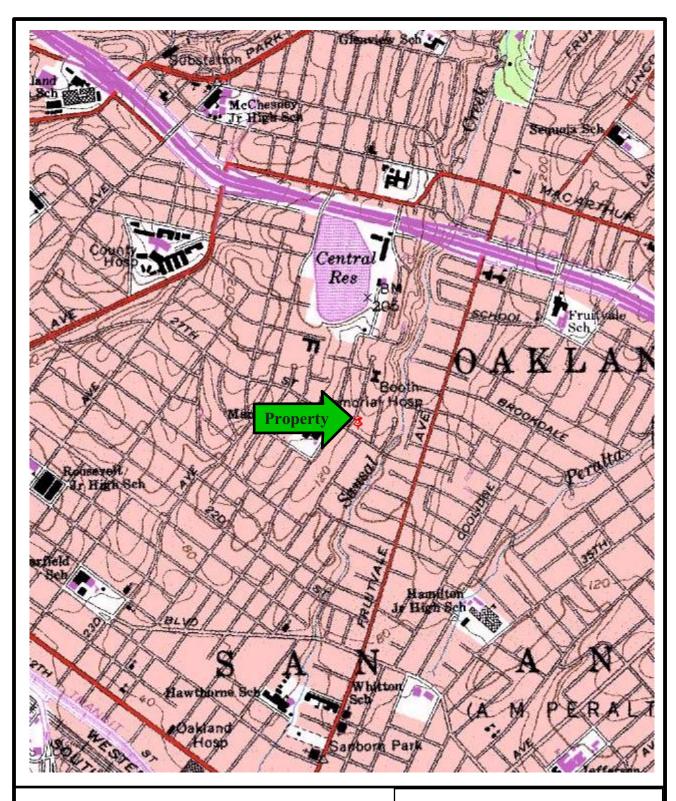
8.0 LIMITATIONS

This investigation was conducted according to accepted industry standards and guidelines for similar investigations conducted in this geographic region at this time.

In today's technology, no amount of assessment can certify that the Property is completely free of environmental concern. It is possible undocumented or concealed conditions of the Property could exist beyond what was found during this investigation. This report does not cover any Property conditions beyond the date the work was conducted.



Figures	





1 inch equals 2000 feet

Map Taken From:

United States Geological Survey 7.5 Minute Topographic Series Oakland East, California Quadrangle

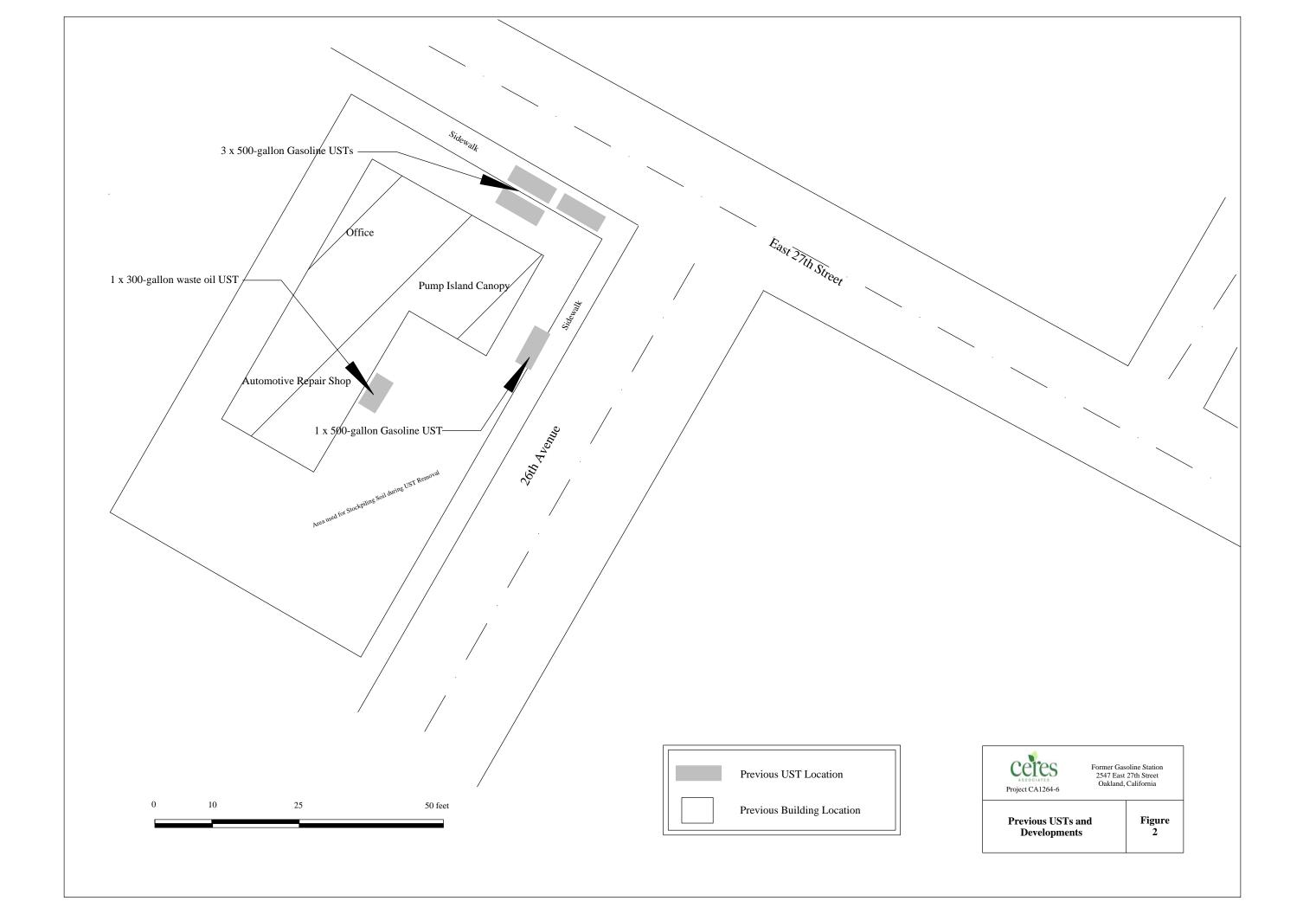


Former Gasoline Station 2547 East 27th Street Oakland, California

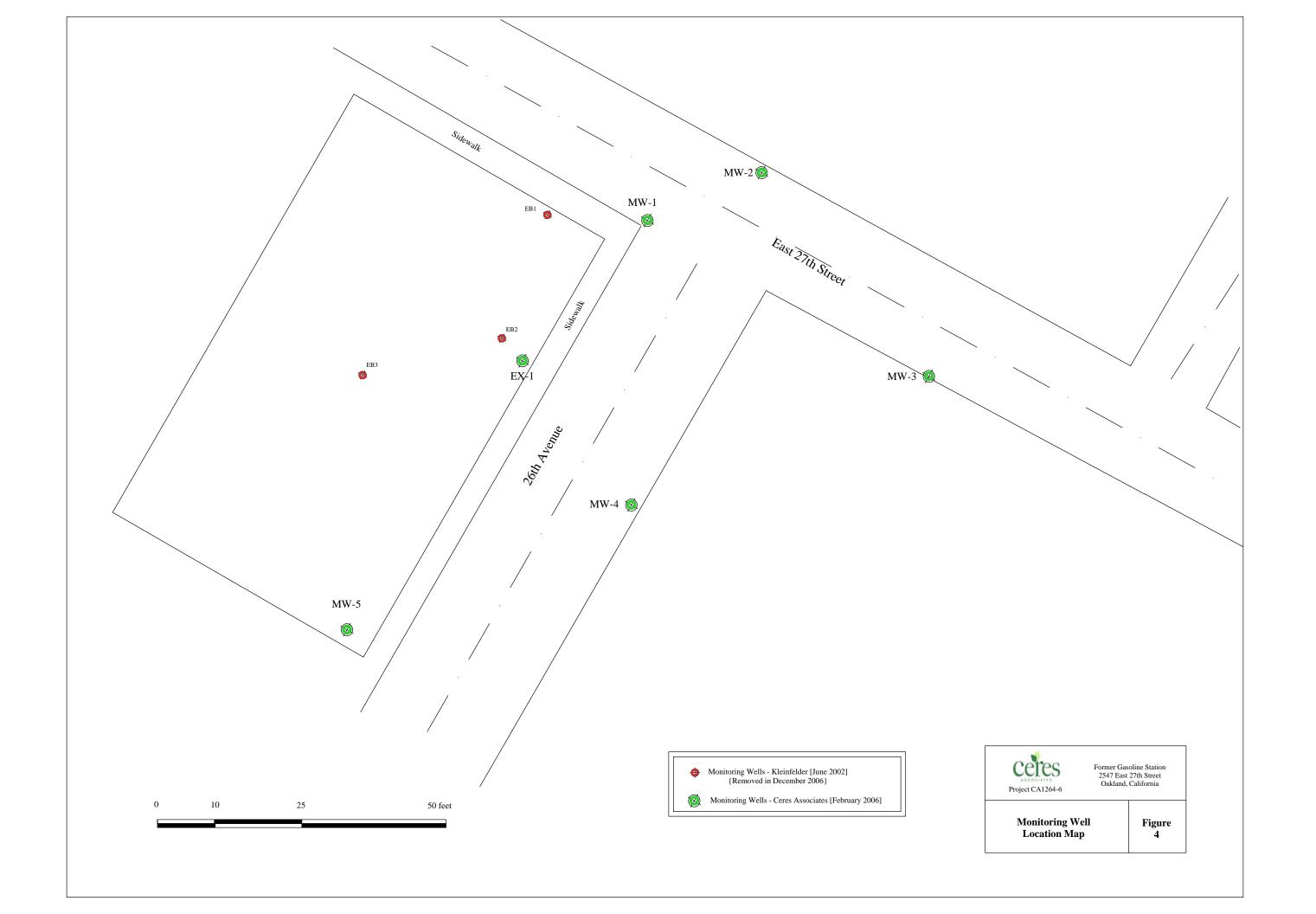
TOPOGRAPHIC MAP

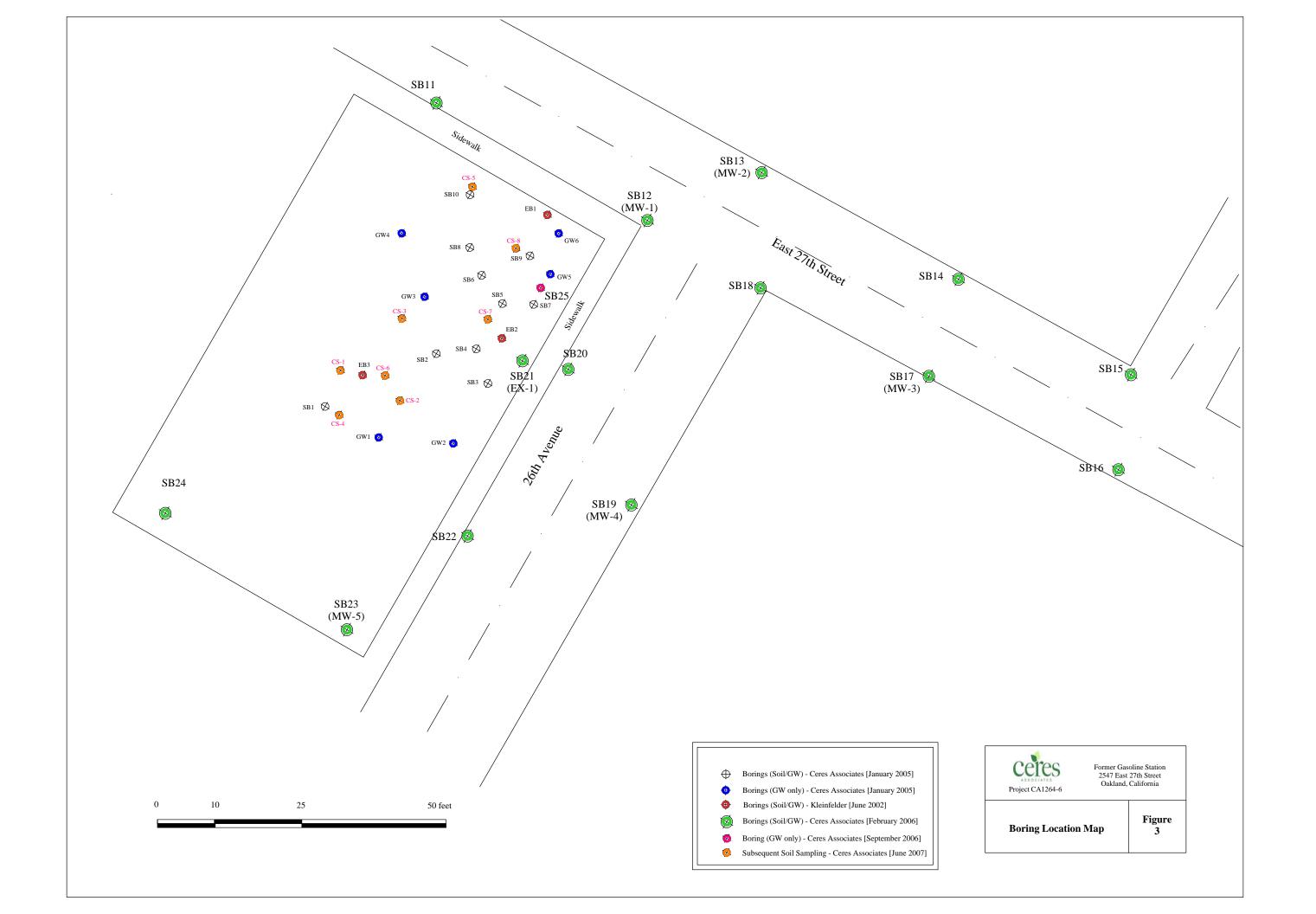
FIGURE

1









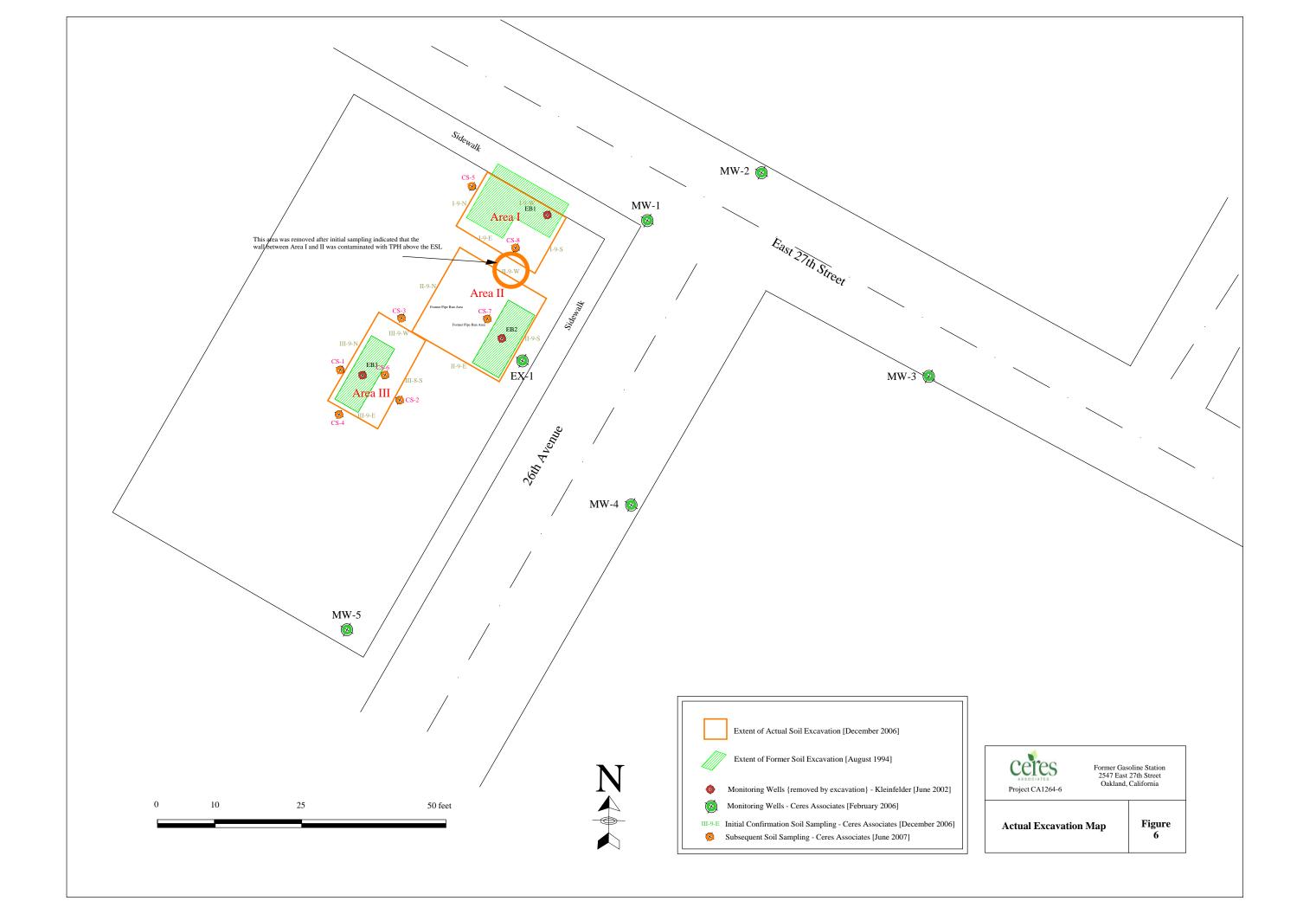




Table 1: Soil Sampling During UST Removal - August 1994

Sampling Dates: August 30 and 31, 1994

Soil Sample Results

		TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Xylenes	Oil & Grease
ESL (Table A-1): Residential Site, shallow soils, where Groundwater IS a current or potential source of drinking water		100	100	0.044	2.9	3.3	2.3	500
Sample	Sample Location*		conce	entrations are rep	oorted in milligr	ams per kilogram,	mg/Kg	
1	Fill end of UST-A	390		0.17	0.35	0.63	0.76	
2	Between UST-A and UST-B	5.4		0.03	0.01	0.03	0.02	
3	Fill end of UST-B	930		2.2	2.2	2.7	3.3	
4	Fill end of UST-C	0.2	NA	ND<0.005	ND<0.005	ND<0.005	ND<0.005	NA
5	Fill end of UST-D	ND<0.2		ND<0.005	ND<0.005	ND<0.005	ND<0.005	
6	Beneath South Pump Island	1		ND<0.1	ND<0.1	ND<0.1	ND<0.1	
7	Beneath North Pump Island	110		ND<0.005	ND<0.005	ND<0.005	ND<0.005	
8	Fill end of UST-E	1.1	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.005	170
STKP-East	Stockpiled soil	750	NIA	0.36	0.66	1.4	1.8	NA
STKP-West	Stockpiled soil	860	NA	ND<0.005	0.72	1.9	2.1	INA

Abbreviations and Notes

TPHg total petroleum hydrocarbons as gasoline using US EPA method 8015C total petroleum hydrocarbons as diesel using US EPA method 8015C

* Sample locations provided by UST Removal report, dated September 1994, by Aqua Science Engineers

ESL Environmental Screening Limit, published by San Francisco Bay Regional Water Quality Control Board (Feb. 2005)

ND not detected below the method reporting limit

ND < X not detected below an increased method reporting limit (see lab sheets for further details)

NA not analyzed

Table 2: Kleinfelder Soil and Groundwater Sampling - June 2002

Sampling Dates: June 19, 2002

Soil Sample Results

	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead
ESL (Table A-1): Residential Site, shallow soils, where Groundwater IS a current or potential source of drinking water	100	100	500	0.044	2.9	3.3	2.3	0.023	150
Boring			concen	trations repo	orted as mil	ligrams per kilograi	m, mg/Kg		
EB-1 @ 4.5 ft bgs	1200	650	14	, ND<0.5	0.62	1.6	3.3	ND<5.0	24
EB-2 @ 5.5 ft bgs	1800	1500	ND<500	ND<1	ND<1	3.1	4.9	ND<10	4.4
EB-3 @ 4 ft bgs	ND	ND	ND	ND	0.0054	ND	ND	ND	3.8
						ample Results			
	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead
ESL (Table F-1a): Groundwater IS a current or potential source of drinking water	100	100	100	1	40	30	20	5	2.5
ESL (Table E-1a): Potential Vapor Intrusion; High Permeability Soils, Residential Use	use soil gas	use soil gas	use soil gas	540	380,000	170,000	160,000	24,000	NE
Boring			conce	entrations re	eported as r	nicrograms per lite	r, μg/L		
EB-1	ND	56	ND	ND	ND	ND	ND	ND	ND
EB-2	82	360	310	0.97	1.3	ND	1.3	ND	ND
LD Z	02	300	310	0.97	1.3	ND	1.3	ND	IND

Abbreviations and Notes

TPHg total petroleum hydrocarbons as gasoline using US EPA method 8015C
TPHd total petroleum hydrocarbons as diesel using US EPA method 8015C
TPHmo total petroleum hydrocarbons as motor oil using US EPA method 8015C
MTBE methyl tertiary butyl ether using US EPA method 8260B and/or 8021B

ESL Environmental Screening Limit, published by San Francisco Bay Regional Water Quality Control Board (Feb. 2005)

NA not analyzed

ND not detected below the method reporting limit

ND < X not detected below an increased method reporting limit (see lab sheets for further details)

NE no established value

Table 3: Ceres Associates Soil and Groundwater Sampling - January 2005

Sampling Dates: January 7, 2005

Soil Sample Results

	TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
ESL (Table A-1): Residential Site,							
shallow soils, where Groundwater IS	100	100	0.044	2.9	3.3	2.3	0.023
a current or potential source of	100	100	0.044	2.3	5.5	2.5	0.023
drinking water							
Sample		conc	entrations report	ed as milligra	ms per kilogram, mg	g/Kg	
SB1-5	ND	ND	ND	ND	ND	ND	ND
SB1-10	ND	ND	ND	ND	ND	ND	ND
SB2-5	ND	ND	ND	ND	ND	ND	ND
SB2-10	ND	ND	ND	ND	ND	ND	ND
SB3-5	1.5	ND	ND	ND	ND	ND	ND
SB3-10	3.8	2.3	ND	ND	ND	ND	ND
SB4-5	ND	ND	ND	ND	ND	ND	ND
SB4-8	32	10	ND	ND	0.034	0.011	ND
SB5-5	ND	ND	ND	ND	ND	ND	ND
SB5-10	61	46	0.007	ND	0.045	0.027	ND
SB6-5	ND	ND	ND	ND	ND	ND	ND
SB6-10	41	35	0.024	ND	0.031	ND	ND<0.10
SB7-5	ND	ND	ND	ND	ND	ND	ND
SB7-10	2.3	1.5	ND	ND	ND	ND	ND
SB8-5	ND	ND	ND	ND	ND	ND	ND
SB8-10	ND	ND	ND	ND	ND	ND	ND
SB9-5	32	52	ND	ND	0.017	0.013	ND
SB9-10	1.5	6.6	ND	ND	ND	ND	ND
SB10-5	ND	ND	ND	ND	ND	ND	ND
SB10-10	ND	ND	ND	ND	ND	ND	ND

Groundwater Sample Results

	TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
ESL (Table F-1a): Groundwater IS a							
current or potential source of	100	100	1	40	30	20	5
drinking water							
ESL (Table E-1a): Potential Vapor							
Intrusion; High Permeability Soils,	use soil gas	use soil gas	540	380,000	170,000	160,000	24,000
Residential Use							
Sample					ograms per liter, μg		
SB1 GW	ND	ND	1.3	1.5	ND	0.69	ND
SB2 GW	ND	ND	ND	ND	ND	ND	ND
SB3 GW	11,000	42,000	ND<5.0	ND<5.0	8.2	ND<5.0	ND<50
SB4 GW	4,600	24,000	ND<2.5	ND<2.5	4.1	3.8	ND<25
SB5 GW	6,000	12,000	6.8	ND<2.5	4.2	5.8	ND<25
SB6 GW	35,000	560,000	83	ND<10	34	20	ND<100
SB7 GW	21,000	250,000	21	ND<10	19	ND<10	ND<100
SB8 GW	1,000	3,900	ND	ND	ND	1.1	ND
SB9 GW	90,000	750,000	140	ND<50	77	ND<50	ND<500
SB10 GW	600	1,300	ND	ND	ND	0.7	ND
GW1	1,600	2,500	ND	ND	0.95	0.81	ND
GW2	830	620	ND	ND	0.72	ND	ND
GW3	ND	NA	1	0.51	ND	ND	ND
GW4	ND	ND	0.66	ND	ND	ND	ND
GW5	1,900	2,300	4.3	ND	1.7	1.3	ND
GW6	3,900	7,600	1.2	ND	2.3	2.6	ND

Abbreviations and Notes

total petroleum hydrocarbons as gasoline using US EPA method 8015C total petroleum hydrocarbons as diesel using US EPA method 8015C methyl tertiary butyl ether using US EPA method 8021B TPHg TPHd MTBE

Environmental Screening Limit, published by San Francisco Bay Regional Water Quality Control Board (Feb. 2005) ESL

NA

not analyzed not detected below the method reporting limit ND

not detected below an increased method reporting limit (see lab sheets for further details) ND < X

Table 4: Ceres Associates Soil and Groundwater Sampling - February 2006

2547 East 27th Street, Oakland, California February 16 and 17, 2006 Site:

Sampling Dates:

Soil Sample Results

	our dample results									
	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	EDB	1,2-DCA	Lead
ESL (Table A-1):										
Residential Site, shallow										
soils, where Groundwater	100	100	500	0.044	2.9	3.3	2.3	0.00033	0.0045	150
IS a current or potential										
source of drinking water										
Sample				aanaan	trationa rapartas	d in milligrams per kilog	rom ma/Ka			
SB11-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.6
SB11-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.0
SB11-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.9
SB12-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.8
SB12-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB12-14	250	28	ND	ND<0.025	ND<0.025	ND<0.025	ND<0.025		ND<0.025	6.2
SB13-04	ND	1.1	ND	ND	ND	ND	ND	ND	ND	7.1
SB13-06	ND	1.3	5.1	ND	ND	ND	ND	ND	ND	6.3
SB13-08	ND	4.2	16	ND	ND	ND	ND	ND	ND	16
SB14-06	ND	1.2	ND	ND	ND	ND	ND	ND	ND	10
SB14-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
SB14-14	ND	2.1	ND	ND	ND	ND	0.0075	ND	ND	9.1
SB15-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.9
SB15-12	ND	3.1	17	ND	ND	ND	ND	ND	ND	7.5
SB15-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
SB16-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
SB16-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.7
SB16-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.8
SB17-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.2
SB17-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.8
SB17-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.9
SB18-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	14
SB18-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.5
SB18-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB19-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.6
SB19-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.6
SB19-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
SB20-02	ND	1.1	ND	ND	ND	ND	ND	ND	ND	12
SB20-08	3.6	14	ND	ND	ND	ND	ND	ND	ND	7
SB20-12	5.1	12	38	ND	ND	ND	ND	ND	ND	ND
SB20-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	11
SB21-02	ND	1.4	ND	ND	ND	ND	ND	ND	ND	51
SB21-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	16
SB21-08	ND	1.4	ND	ND	ND	ND	ND	ND	ND	5.9
SB21-10	ND	ND	ND	ND ND	ND	ND	ND	ND	ND ND 0.40	6.5
SB21-12	18	490	ND	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	5.5
SB21-14	ND	2.1	ND	ND	ND	ND	ND	ND	ND	12
SB22-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.6
SB22-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.2

SB22-14	ND	
SB23-08	ND	
SB23-12	ND	17
SB23-14	ND	8.1
SB24-08	ND	9.1
SB24-12	ND	5.1
SB24-14	ND	6.1

Groundwater Sample Results

	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	EDB	1,2-DCA	Lead
ESL (Table F-1a): Groundwater IS a current or potential source of drinking water	100	100	100	1	40	30	20	0.05	0.5	2.5
ESL (Table E-1a): Potential Vapor Intrusion; High Permeability Soils, Residential Use	use soil gas	use soil gas	use soil gas	540	380,000	170,000	160,000	150	200	NE
Sample				conce	entrations repor	ted in micrograms per l	iter, μg/L			
SB11-GW	ND	150	730	ND	ND	ND	ND	ND	ND	29
SB12-GW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB13-GW	ND	1300	7900	ND	ND	ND	ND	ND	ND	ND
SB14-GW	74	190	400	ND	ND	ND	1.7	ND	ND	19
SB15-GW	ND	790	4900	ND	ND	ND	ND	ND	ND	19
SB16-GW	ND	ND	310	ND	ND	ND	ND	ND	ND	ND
SB17-GW	ND	ND	ND	ND	1.4	ND	0.51	ND	ND	2.4
SB18-GW	ND	470	2300	ND	ND	ND	ND	ND	ND	17
SB19-GW	51	89	ND	ND	ND	ND	ND	ND	ND	2.5
SB20-GW	ND	280	2200	ND	ND	ND	ND	ND	ND	18
SB21-GW	1500	910	ND	ND	ND	1.3	1.8	ND	ND	16
SB22-GW	ND	3600	28000	ND	ND	ND	ND	ND	ND	19
SB23-GW	ND	ND	ND	ND	ND	ND	ND	ND	ND	13
SB24-GW	ND	ND	ND	ND	ND	ND	ND	ND	ND	10

Abbreviations and Notes

TPHg total petroleum hydrocarbons as gasoline using US EPA method 8015C
TPHd total petroleum hydrocarbons as diesel using US EPA method 8015C
TPHmo total petroleum hydrocarbons as motor oil using US EPA method 8015C
MTBE methyl tertiary butyl ether using US EPA method 8260B and/or 8021B

TPH hydraulic oil was reported as the same as TPHmo, therefore only TPHmo is reported here

ESL Environmental Screening Limit, published by San Francisco Bay Regional Water Quality Control Board (Feb. 2005)

NA not analyzed

ND not detected below the method reporting limit

ND < X not detected below an increased method reporting limit (see lab sheets for further details)

NE not established

Table 5: Ceres Associates Deeper Groundwater Sampling - September 2006

Sampling Dates: September 20, 2006

	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
ESL (Table F-1a): Groundwater IS a current or potential source of drinking water	100	100	100	1	40	30	20	5
ESL (Table E-1a): Potential Vapor Intrusion; High Permeability Soils, Residential Use	use soil gas	use soil gas	use soil gas	540	380,000	170,000	160,000	24,000
Target Depth			Concent	rations repor	ted as microg	rams per liter, μg/L		
13 ft bgs	ND	ND	ND	ND	ND	ND	ND	ND
21 ft bgs	ND	ND	ND	0.84	ND	ND	ND	ND

Abbreviations and Notes

TPHg total petroleum hydrocarbons as gasoline using US EPA method 8015C
TPHd total petroleum hydrocarbons as diesel using US EPA method 8015C
TPHmo total petroleum hydrocarbons as motor oil using US EPA method 8015C
MTBE methyl tertiary butyl ether using US EPA method 8260B and/or 8021B

ESL Environmental Screening Limit, published by San Francisco Bay Regional Water Quality Control Board (Feb. 2005)

ND not detected below the method reporting limit

Table 6: Ceres Associates Quarterly Groundwater Monitoring - August 2006 to April 2007

Sampling Dates: Multiple (see below)

Well	(тос)	Sample Date	Depth to Groundwater (ft)	Groundwater Elevation (ft amsl)	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
			(it)	(it airisi)		Cond	centrations repo	rted as microg	rams per Liter	· (µq/L)		
SL (Table	F-1a): Gro	oundwater IS a cu	irrent or potential s	ource of drinking			•		•	,, ,		
vater	-,		, , , , , , , , , , , , , , , , , , , ,	<u> </u>	100	100	100	1	40	30	20	5
ESL (Table	E-1a): Pot	ential Vapor Intru	ısion; High Permea	bility Soils,								
Residential	l Use [°]	<u> </u>			use soil gas	use soil gas	use soil gas	540	380,000	170,000	160,000	24,000
	N/ 4	0/04/0000	4.00	101.10	ND	ND	N1.0	ND	ND	ND	ND	ND
MV		8/24/2006	4.63	104.12	ND	ND	NA	ND	ND	ND	ND	ND
108	3.75	11/17/2006	4.50	104.25	ND	ND	ND	ND	ND	ND	ND	ND
		1/30/2007	4.14	104.61	ND	78 ND	280	ND	ND	ND	ND	ND
		4/30/2007	4.04	104.71	ND	ND	ND	ND	ND	ND	ND	ND
MV	V-2	8/24/2006	4.26	105.29	ND	78	NA	ND	ND	0.65	1.5	ND
109	9.55	11/17/2006	4.16	105.39	ND	ND	ND	ND	ND	0.8	1.8	ND
		1/30/2007	4.29	105.26	ND	ND	ND	ND	ND	1	2	ND
		4/30/2007	4.53	105.02	ND	60	ND	ND	ND	ND	ND	ND
MV	V-3	8/24/2006	4.40	104.00	ND	ND	NA	ND	ND	ND	ND	ND
	8.4	11/17/2006	3.92	104.48	ND	ND	ND	ND	ND	ND	ND	ND
		1/30/2007	4.30	104.10	ND	ND	ND	ND	ND	ND	ND	ND
		4/30/2007	4.22	104.18	ND	ND	ND	ND	ND	ND	ND	ND
MV	V-4	8/24/2006	4.87	103.02	ND	ND	NA	ND	ND	ND	ND	ND
	7.89	11/17/2006	3.75	104.14	ND	ND	ND	ND	ND	ND	ND	ND
		1/30/2007	3.82	104.07	ND	ND	ND	ND	ND	ND	ND	ND
		4/30/2007	4.50	103.39	ND	ND	ND	ND	ND	ND	ND	ND
MV	V-5	8/24/2006	5.00	103.65	ND	ND	NA	ND	ND	ND	ND	ND
	3.65	11/17/2006	3.30	105.35	ND	ND	ND	ND	ND	ND	ND	ND
, 00	.	1/30/2007	3.22	105.43	ND	ND	ND	ND	ND	ND	ND	ND
		4/30/2007	3.20	105.45	ND	ND	ND	ND	ND	ND	ND	ND
F	K-1	8/24/2006	4.84	104.62	460	220	NA	ND	ND	ND	ND	ND
	9.46	11/17/2006	4.38	105.08	270	130	ND	ND	ND	ND	1.9	ND
,00	-	1/30/2007	4.00	105.46	2,200	800	270	1	ND	3.9	3.2	ND<10
		4/30/2007	4.20	105.26	1,000	740	ND	ND	ND	1.7	2.4	ND

Abbreviations and Notes

μg/L	micrograms per Liter

TOC elevation of well at the top of the casing, in feet above mean sea level

TPHg total petroleum hydrocarbons as gasoline using US EPA method 8015C
TPHd total petroleum hydrocarbons as diesel using US EPA method 8015C
TPHmo total petroleum hydrocarbons as motor oil using US EPA method 8015C
MTBE methyl tertiary butyl ether using US EPA method 8260B and/or 8021B

* benzene, toluene, ethylbenzene, and xylenes were analyzed by US EPA method 8021B and 8260B (only the highest concentration was reported here)

ESL Environmental Screening Limit, published by San Francisco Bay Regional Water Quality Control Board (Feb. 2005)

NA not analyzed

ND not detected below the method reporting limit

ND < X not detected below an increased method reporting limit (see lab sheets for further details)

NE not yet an established value

Table 7: Ceres Associates Initial PID readings during Excavation - December 2006

Sampling Dates: December 1 and 2, 2006

PID readings taken of sidewalls and floor during excavation process

Excavation / PID	2 ft bgs	_	6 ft bgs	_	9.5 ft bgs
sample location		reported as	s parts per i	million, ppm	1)
I-bottom	0	0	227	114	0
I-east	0	0	0	0	0
I-west	0	0	0	0	0
I-north	0	0	0	0	0
I-south	0	0	0	0	0
II-bottom	0	0	0	0	0
II-east	0	0	0	0	0
II-west	0	0	0	0	0
II-north	0	0	0	0	0
II-south	0	0	0	0	0
III-bottom	0	0	0	0	0
	0	0	0	0	0
III-east	0	0	0	0	0
III-west	0	0	0	0	0
III-north	0	0	0	0	0
III-south	0	0	0	0	0

Sample	PID Reading	Depth of Sample (ft bgs)
I-9-W	0	9
I-9-E	0	9
I-9-N	0	9
I-9-S	0	9
II-9-W	0	9
II-9-E	0	9
II-9-N	0	9
II-9-S	0	9
III-9-W	0	9
III-8-E	0	9
III-9-N	0	9
III-9-S	0	9

Table 8: Ceres Associates Initial Confirmation Soil Sampling - December 2006

Sampling Dates: December 1 and 2, 2006

Sample	TPHg	TPHd	TPHmo/ho concentrations re	MTBE eported in l			Ethylbenzene mg/Kg	Xylenes
ESL (Table A-1): Residential Site, shallow soils, where Groundwater IS a current or potential source of drinking	100	100	500	0.023	0.044	2.9	3.3	2.3
water I-9-W I-9-E I-9-N I-9-S II-9-W*	450 1.7 600 7 400	81 ND 420 1.2 180						ND ND 1.1 0.016 1
II-9-E II-9-N II-9-S III-9-W III-8-E III-9-N III-9-S	ND	ND	ND	ND	ND	ND	ND	ND

<u>Key</u>

ESL Environmental Screening Limit, published by San Francisco Bay Regional Water Quality Control Board (Feb. 2005)

ND Not detected above the method reporting limit

TPHg Total petroleum hydrocarbons as gasoline
TPHd Total petroleum hydrocarbons as diesel
TPHmo Total petroleum hydrocarbons as motor oil

Table 9: Ceres Associates Additional Soil Sampling PID readings - June 2005

Sampling Dates: June 25, 2007

	PID Reading
Sample	(ppm)*
CS1-2.5	4
CS1-5	1
CS1-7.5	1
CS2-2.5	3
CS2-5	1
CS2-7.5	2
CS2-10	1
CS3-2.5	2
CS3-5	3
CS3-7.5	1
CS3-10	3
CS4-2.5	9
CS4-5	1
CS4-7.5	1
CS4-10	1
CS5-2.5	7
CS5-5	1
CS5-7.5	2
CS5-10	1
CS6-10	1
CS7-10	1
CS8-10	1
Background PID rea	adings during sampling

^{*}Note: Background PID readings during sampling were between 1.0 and 3 $\,$

Table 10: Ceres Associates Additional Soil Sampling - June 2007

Sampling Dates: June 25, 2007

Sample	TPHg	TPHd	TPHmo	Benzene	Toluene Concentration	Ethylbenzene ns reported in milli	Xylenes igrams per kilog	Chromium gram, mg/Kg	Lead	Nickel	Zinc
ESL (Table A-1): Residential Site, shallow soils, where Groundwater IS a current or potential source of drinking water	100	100	500	0.044	2.9	3.3	2.3	58	150	150	600
CS1-5								52	ND	40	42
CS1-10								31	ND	22	18
CS2-5			ND					33	ND	25	18
CS2-10			ND					46	6.9	55	38
CS3-5								30	ND	19	16
CS3-10								49	9.6	72	53
CS4-5	ND	ND	5.9	ND	ND	ND	ND	40	6.8	26	21
CS4-10								38	5.6	33	22
CS5-5								28	ND	19	13
CS5-10			ND					51	ND	35	30
CS6-10*			ND					36	ND	32	26
CS7-10 CS8-10									NA		

Analytes that were reported as ND, but not listed here: PCBs, PNAs, PAHs, 1,4 Dioxane, Cadmium, and Total Oil and Grease

<u>Key</u>

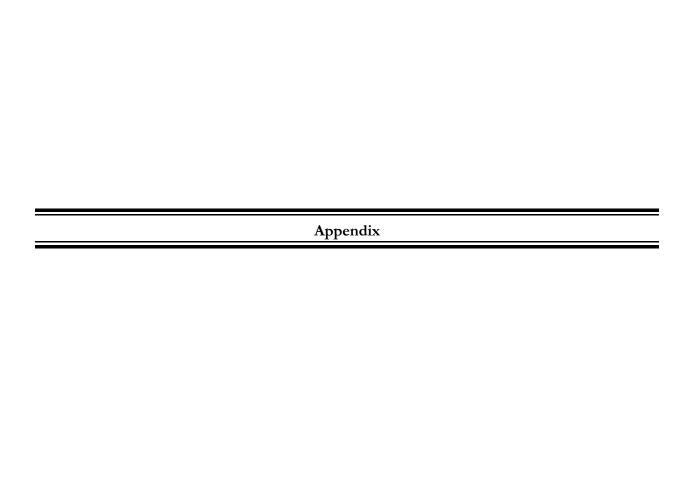
ESL Environmental Screening Limit, published by San Francisco Bay Regional Water Quality Control Board (Feb. 2005)

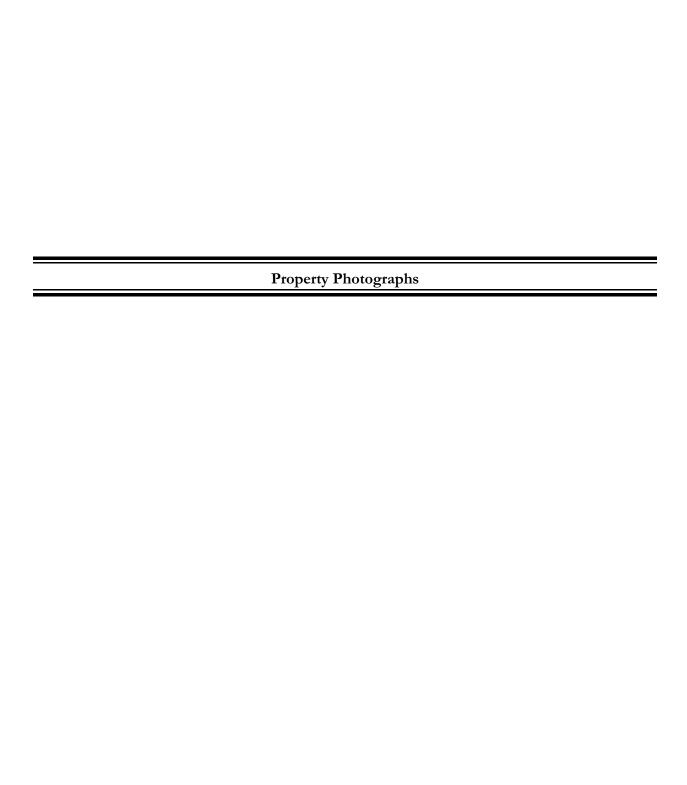
ND Not detected above the method reporting limit

NA Not analyzed

TPHg Total petroleum hydrocarbons as gasoline
TPHd Total petroleum hydrocarbons as diesel
TPHmo Total petroleum hydrocarbons as motor oil

^{*} Sample 6-10 was analyzed one day outside of the hold time for volatile organic compounds (BTEX was within time frame)







Photograph 1 - Excavation outlines, Areas I and II.



Photograph 2 - Excavation outlines, Areas II and III.



Photograph 3 - Excavation outlines, Area III.



Photograph 4 -Excavation of Area II, in progress.



Photograph 5 - Excavation of Area II, in progress. Note stained soil being removed.



Photograph 6 - View of excavation pits, Areas I, II, and III are now connected. The excavator is working on Area III.



Photograph 7 - View of the extent of excavation of Area I and II.



Photograph 8 - View of initial backfilling of Area III.



Photograph 9 - Backfilling with quarry materials.



Photograph 10 - Barrier roll.



Photograph 11 - Barrier roll..



Photograph 12 - Backfill of imported fill material



Photograph 13 - View of partially backfilled excavation.



Photograph 14 - View of backfilling and compacting work.



Photograph 15 - View of compacting work.



Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
424 First Street		Date Received: 06/25/07
Benicia, CA 94510	Client Contact: Ryan Meyer	Date Reported: 07/03/07
Beineta, err 71310	Client P.O.:	Date Completed: 07/24/07

WorkOrder: 0706632

July 24, 2007

Dear Ryan:

Enclosed are:

- 1). the results of 1 analyzed sample from your #CA1264-6 project,
- 2). a QC report for the above sample
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Best regards,

Angela Rydelius, Lab Manager

we Tel	bsite: www.m								CHAIN OF CUSTODY RECORD TURN AROUND TIME RUSH 24 HR 48 HR 72 HR 5 DAY GeoTracker EDF Excel Write On (DW) Check if sample is effluent and "J" flag is required Analysis Request Other Comments									d															
Tele: (10)	Onlyland,	CA 9"	510 I	ax: (Mail: ryanmeyer@ceresassocialen.com ax: (707) 748-3171 roject Name: CA 1264-6				com	§602 / 8021 + 8015) / MTBE	Xxxx o.	Grease (1864 (5830 E-B&F)	arbons (418.1) 5/	8021 (HVOCs) 407 (EPA 602 / 8021)	Pesticides)	EPA 608 / 8082 PCB's ONLY; A octors / Congeners	ticides)	CI Herbicides)	VOCs)	\$vocs)	AHRENAS	200.8 / 6010 / 6020)	200.8 / 6010 / 6020)	0 / 6020)	e 5x 8370M	PART/PNA, LOCS	c ach	Filter Samples for Meta analysis Yes / No	als			
SAMPLE ID	LOCATION/ Field Point Name	SAMI Date	Time	# Containers	Type Containers	Water	Air			RES	HOO SON	ED	BTEX & TPH as Gas 16	TPH as Diesel (8015)	Total Petroleum Oil & C	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's O	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624/8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHK PNAS)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (\$00.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	1.4 dioxam	POZI PCPS,	who was the	1/12/12 A	
(54-7.5 (54-10		Glasso7		1			1		X				X	×	X		-4	0 0	b	χ			X		X		X		X	4			
(55-2.5 (55-7.5 (55-7.5			_									-	X	X	X	rol		10	4	X			X		X		X		X				
(56-10													XX	X	X					X			X)	X	رسد	X		X	×	-		
C58-10 (58-10		4		\$		4	>		4				X	X									2	3	5	(#	-X	0	nly				
								1	V	A	CL.	3	Je	A	4		_																
Relinquished By: Relinquished By: ONURO-FECH SO	Ish wices 6	Date:	Time:	GNT	ceived By: ceived By:					ICE/t ^p COMMENTS: GOOD CONDITION HEAD SPACE ABSENT DECHLORINATED IN LAB APPROPRIATE CONTAINERS																							
Relinquished By:	Datey Time: Received By:					PR	ESEI	RVE	D IN	VO	3		G	MET		8 (тн	ER															

McCampbell Analytical, Inc.

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

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 070663 A ClientID: CAB

✓ EDF Excel Fax ✓ Email HardCopy ThirdParty

Report to:

Ryan Meyer Ceres Associates 424 First Street Benicia, CA 94510 Email: TEL:

ryanmeyer@ceresassociates.com (707) 748-317

FAX: (707) 748-317

ProjectNo: #CA1264-6

PO:

Bill t

Chwania Mejia Ceres Associates 424 First Street Benicia, CA 94510

cmejia@ceresassociates.com

Requested TA 5 days Date Receive 06/25/2007

Date Add-On: 07/12/2007

Date Printed: 07/13/2007

					Requested Tests (See legend below)											
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
0706632-021	CS6-10	Soil	06/25/07		В	В	В	В	В	В						

Test Legend:

1	1,4-DIOXANE_S	2 8082A_PC	B_S 3	8260B_S	4	8270D-PNA_S	5	9071B_S
6	LUFT_S	7	8		9		10	
11		12						

Prepared by: Melissa Valles

9071, PCBs1 PAH/PNAs-8270, VOCs, Luft, 1-4 Dioxane added 7/12/07 per email, std tat-RV **Comments:**

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

Ceres Associates	Client Project ID:	#CA1264-6 Date Sampled: 06/25/07
424 First Street		Date Received: 06/25/07
Benicia, CA 94510	Client Contact: Ry	yan Meyer Date Extracted: 07/13/07
20110111, 0117 1010	Client P O :	Date Analyzed 07/16/07

1,4-Dioxane by P&T and GC/MS SIM Mode*

Extraction method SW5030B Analytical methods SW8260B Work Order: 0706632

Extraction method SW5	030B	Analytical methods	SW8260B	Work Order: 07	06632
Lab ID	Client ID	Matrix	1,4-Dioxane	DF	% SS
021B	CS6-10	S	ND	1	93
Reporti	ng Limit for DF =1;	W	NA		IA
	ins not detected at or	vv .	INA	I I	1A

375		1111	1111
ND means not detected at or	C	0.02	Л
above the reporting limit	2	0.02	mg/kg
usove the reporting mint			
*	J / 1: J	1 : 1:: 1 1:: 1 1:: 1	TCID & CDID

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

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



Ceres Associates		Client Project ID: #CA1264-6 Date Sample					06/25/07		
424 First Street						Date Received:	06/25/07		
Benicia, CA 94510			Client C	ontact: Ryan Me	yer	Date Extracted:	07/13/07		
Беней, СП 94310			Client P.	O.:		Date Analyzed	07/14/07		
	Po	olychlori							
Extraction Method: SW3550C			Analytical Method: SW8082A W						
	Lab ID		32-021B						
	Client ID	CS	6-10				Reporting DF	Limit for =1	
	Matrix	;	S						
	DF		1				S	W	
Compound				Conce	entration		mg/kg	ug/L	
Aroclor1016		N	ID				0.025	NA	
Aroclor1221		N	ID				0.025	NA	
Aroclor1232		N	ID				0.025	NA	
Aroclor1242		N	ID				0.025	NA	
Aroclor1248		N	ID				0.025	NA	
Aroclor1254		N	ID				0.025	NA	
Aroclor1260		N	ID				0.025	NA	
PCBs, total		ND						NA	
			Surr	ogate Recoveries	s (%)				
%SS:		1	13						
Comments									

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

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

(h) a lighter than water immiscible sheen/product is present; (i) liquid sample that contains >~1 vol. % sediment; (j) sample diluted due to high organic content/matrix interference; (k) p,p,- is the same as 4,4,-; (l) florisil (EPA 3620) cleanup; (m) silica-gel (EPA 3630) cleanup; (n) elemental sulfur (EPA 3660) cleanup; (o) sulfuric acid permanganate (EPA 3665) cleanup; (p) see attached narrative; q) reporting limit raised due to insufficient sample amount; (r) results are reported on a dry weight basis;



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

Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
424 First Street		Date Received: 06/25/07
424 Phst Succi	Client Contact: Ryan Meyer	Date Extracted: 07/13/07
Benicia, CA 94510	Client P.O.:	Date Analyzed 07/14/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0706632

Lab ID	0706632-021B	
Client ID	CS6-10	
Matrix	Soil	

Matrix				Soil			
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinvl Chloride	ND	1.0	0.005	Xvlenes	ND	1.0	0.005
		Surr	ogate Re	ecoveries (%)			
1	i			1	1		

%SS1: 98 %SS2: %SS3: 96

Comments

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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

Ceres Associates	Client Pro	oject ID: #CA120	64-6	Date Sampled:	06/25/07	
424 First Street				Date Received:	06/25/07	
Denisia CA 04510	Client Co	ontact: Ryan Me	yer	Date Extracted:	07/13/07	
Benicia, CA 94510	Client P.0	O.:		Date Analyzed:	07/22/07	
Polynuclear A	romatic Hydroca	rbons (PAHs / PN	NAs) using SIM N	Iode by GC/MS*	:	
Extraction Method: SW3550C	•	ytical Method: SW827		•	Work Order:	0706632
Lab ID	0706632-021B					
Client ID	CS6-10				Reporting DF	
Matrix	S					
DF	1				S	W
Compound		Conce	entration		mg/kg	ug/L
Acenaphthene	ND				0.005	NA
Acenaphthylene	ND				0.005	NA
Anthracene	ND				0.005	NA
Benzo(a)anthracene	ND				0.005	NA
Benzo(a)pyrene	ND				0.005	NA
Benzo(b)fluoranthene	ND				0.005	NA
Benzo(g,h,i)perylene	ND				0.005	NA
Benzo(k)fluoranthene	ND				0.005	NA
Chrysene	ND				0.005	NA
Dibenzo(a,h)anthracene	ND				0.005	NA
Fluoranthene	ND				0.005	NA
Fluorene	ND				0.005	NA
Indeno (1,2,3-cd) pyrene	ND				0.005	NA
1-Methylnaphthalene	ND				0.005	NA
2-Methylnaphthalene	ND				0.005	NA
Naphthalene	ND				0.005	NA
Phenanthrene	ND				0.005	NA
Pyrene	ND				0.005	NA
	Surre	ogate Recoveries	s (%)			
%SS1	70					
%SS2	79					
Comments						

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; p) see attached narrative; r) results are reported on a dry weight basis.



^{*} water samples 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 are reported in mg/L.

Ceres Associat	tes	Client Pro	ject ID: 4	#CA1264-6	Date Sampled: 06/25/	07	
424 First Street	İ		Date Received: 06/25/	07			
Hexan Manalytical methods: SW9071B Lab ID Client ID	510	Client Co	ntact: Ry	yan Meyer	Date Extracted: 07/13/	07	
Defficia, CA 94.	310	Client P.C).:		Date Analyzed 07/16/	07	
	Hexane Ex	xtractable 1	Material v	without Silica Gel Treat	ment*		
Analytical methods:	SW9071B		1 1		Work Ore	der: 070	06632
Lab ID	Client ID		Matrix	HI	EM	DF	% SS
0706632-021B	CS6-10		S	N	ID	1	N/A
F	Reporting Limit for DF =1;		W	N	JA	N	A
	ID means not detected at or above the reporting limit		S		50		/Kg

DF = dilution factor (may be raised to dilute target analyte or matrix interference).

surrogate diluted out of range or not applicable to this sample.

g) sample extract repeatedly cleaned up with silica gel until constant IR result achieved; h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) results are reported on a dry weight basis.



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

Zemvin, erry iere	Client P.O.:	Date Analyzed: 07/23/07
Benicia, CA 94510	Client Contact: Ryan Meyer	Date Extracted: 07/13/07
424 First Street		Date Received: 06/25/07
Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07

LUFT 5 Metals*

				LUFT 5	Metals*					
Extraction m	nethod SW3050B			Analytical method	ls 6010C			Work Order:	0706632	
Lab ID	Client ID	Matrix	Extraction Type	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS
021B	CS6-10	S	TOTAL^	ND	36	ND	32	26	1	102
	ng Limit for DF =1;	W	TOTAL^	NA	NA	NA	NA	NA	N	A
	ns not detected at or the reporting limit	S	TOTAL^	1.5	1.5	5.0	1.5	5.0	mg	/Kg

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

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

 $TOTAL^{\wedge} = acid digestion.$

WET = Waste Extraction Test (STLC).

DI WET = Waste Extraction Test using de-ionized water.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TOTAL^ metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

QC SUMMARY REPORT FOR SW9071B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0706632

EPA Method SW9071B	Extraction SM5520DF_S				BatchID: 29299 S			Sp	oiked Sample ID: 0707252-009A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
7 tildiyto	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
HEMSGT	ND	1000	108	111	1.92	95.7	94	1.79	70 - 130	30	70 - 130	30

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

BATCH 29299 SUMMARY

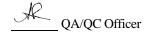
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0706632-021B	06/25/07	07/13/07	07/16/07 5:30 PM				

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.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0706632

EPA Method SW8260B Extraction SW5030B					BatchID: 29305 Spiked Sample ID: N/A				N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	1
Analyte	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
1,4-Dioxane	N/A	0.10	N/A	N/A	N/A	110	110	0	N/A	N/A	70 - 130	30
%SS1:	N/A	0.050	N/A	N/A	N/A	96	95	1.31	N/A	N/A	70 - 130	20

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

BATCH 29305 SUMMARY

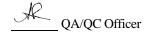
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0706632-021B	06/25/0	7 07/13/07	07/16/07 7:19 PM				

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.



1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com

Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8082A

QC Matrix: Soil WorkOrder 0706632 W.O. Sample Matrix: Soil

EPA Method SW8082A Extraction SW3550C					BatchID: 29229			Spiked Sample ID: 0707181-034A				4A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%))
, undiffe	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	ND	0.075	74.3	75.5	1.58	91.2	91.5	0.303	70 - 130	20	70 - 130	20
%SS:	124	0.050	123	123	0	127	127	0	70 - 130	20	70 - 130	20

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

BATCH 29229 SUMMARY

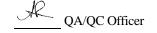
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0706632-021B	06/25/07	7 07/13/07	07/14/07 6:32 PM				

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.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0706632

EPA Method SW8260B	Extra	Extraction SW5030B				BatchID: 29231			Spiked Sample ID: 0707181-036A			
Analyte	Sample Spiked		MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%))
, mary to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	86.3	88.2	2.16	83.7	86.8	3.64	70 - 130	30	70 - 130	30
Benzene	ND	0.050	107	104	2.72	104	102	1.79	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	95.9	93.9	2.09	94.8	94.1	0.711	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	106	108	1.83	109	108	1.06	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	82.6	85.2	3.04	85.6	85.4	0.197	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	105	102	3.31	99.4	101	1.36	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	119	114	4.18	116	118	1.72	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	108	106	1.71	108	105	2.34	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	91.2	91.1	0.121	90	89.4	0.730	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	84	83.6	0.561	82.4	83.2	0.956	70 - 130	30	70 - 130	30
Toluene	ND	0.050	104	106	2.56	110	107	3.52	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	86.4	84.1	2.67	84.6	84.2	0.399	70 - 130	30	70 - 130	30
%SS1:	101	0.050	119	114	4.53	114	112	1.39	70 - 130	30	70 - 130	30
%SS2:	96	0.050	101	102	0.906	105	102	2.91	70 - 130	30	70 - 130	30
%SS3:	98	0.050	114	118	3.05	125	118	5.97	70 - 130	30	70 - 130	30

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

NONE

BATCH 29231 SUMMARY

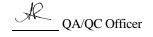
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0706632-021B	06/25/07	7 07/13/07	07/14/07 7:22 AM				

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.

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



QC SUMMARY REPORT FOR SW8270C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0706632

EPA Method SW8270C	Extraction SW3550C				BatchID: 29292 Sp				piked Sample ID: 0707246-006A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD LCS		LCSD	LCS-LCSD	.CS-LCSD Acceptance Criteria (%			
radyte	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Benzo(a)pyrene	1.6	0.10	NR	NR	NR	108	107	1.03	30 - 130	30	30 - 130	30
Chrysene	1.1	0.10	NR	NR	NR	90.7	91.6	0.938	30 - 130	30	30 - 130	30
1-Methylnaphthalene	ND<0.10	0.10	99	102	3.18	98.7	95.3	3.42	30 - 130	30	30 - 130	30
2-Methylnaphthalene	ND<0.10	0.10	100	105	4.35	93.9	91.9	2.19	30 - 130	30	30 - 130	30
Phenanthrene	1.3	0.10	NR	NR	NR	81.7	80.3	1.82	30 - 130	30	30 - 130	30
Pyrene	4.2	0.10	NR	NR	NR	84.8	82.9	2.29	30 - 130	30	30 - 130	30
%SS1:	#	0.050	#	#	#	76	75	0.970	30 - 130	30	30 - 130	30
%SS2:	#	0.050	#	#	#	79	78	0.660	30 - 130	30	30 - 130	30

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

BATCH 29292 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0706632-021B	06/25/0	7 07/13/07	07/22/07 9:35 PM				

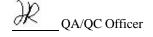
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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.



NONE

QC SUMMARY REPORT FOR 6010C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0706632

EPA Method 6010C				Extraction SW3050B				BatchID: 29275			Spiked Sample ID 0707226-007A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	CSD Acceptance Criter			·)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
Cadmium	100	50	83	92.8	3.37	10	97.6	100	2.38	75 - 125	20	80 - 120	20	
Chromium	84	50	94.2	95.1	0.342	10	97.9	92.5	5.67	75 - 125	20	80 - 120	20	
Lead	1900	50	NR	NR	NR	10	84.2	96.5	13.5	75 - 125	20	80 - 120	20	
Nickel	82	50	74.6, F1	85.4	4.46	10	101	96.8	3.95	75 - 125	20	80 - 120	20	
Zinc	280,000	500	NR	NR	NR	100	102	104	1.85	75 - 125	20	80 - 120	20	
%SS:	103	250	107	108	0.279	250	102	102	0	70 - 130	20	70 - 130	20	

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

F1 = MS / MSD exceed acceptance criteria. LCS - LCSD validate prep batch.

BATCH 29275 SUMMARY

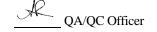
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0706632-021B	06/25/0	07/13/07	07/23/07 6:45 PM				

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 applicable to this method.



Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
424 First Street		Date Received: 06/25/07
Benicia, CA 94510	Client Contact: Ryan Meyer	Date Reported: 07/03/07
Beineta, err 71310	Client P.O.:	Date Completed: 07/03/07

WorkOrder: 0706632

July 03, 2007

Dear Ryan:

Enclosed are:

- 1). the results of 13 analyzed samples from your #CA1264-6 project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Best regards,

Angela Rydelius, Lab Manager

We Tel	bsite: www.mo ephone: (877	1534 WII PITTSBU ccampbel () 252-92	LLOW PARG, CA 94 Lcom En	SS RO. 1565-17	AD 701 nain@ Fax:	mec:	ampt 5) 25	ell.c 2-9	om								AR	OU	DE	T	IM C	E PD Ch	F,	RUS	SH Ex	24 xcel	HR) 1	48 I Wri	IR ite C nd "J	72 I On (I	is i	5 DAY cequired
Tele: (767) 74 Project #: 4 12 Project Location:	16-3170 64-6 Outland, U	4.94510	F	Z-Mai Tax: (Projec	707) >				iet	5. U	z M		/8021 + 8015) / MTBE	Leder 01	ase (1664 <u>, 5630 E/B&E</u>)	bons (418.1) 2 90	21 (HVOCs)	A 602 / 8021)	sticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	ides)	Herbicides)	(S)	OCs)	Hs (PNAs)	0.8 / 6010 / 6020)	.8 / 6010 / 6020)	6020)	A 6380M		1	Filter Samples for Metals analysis: Yes / No
Sampler Signatur	e: 47711	1	PLING		LS	1	MAT	RE	K		MET ESE			ins (602	5) +	II & Gre	ydrocar	010 / 80	LY (EP	1 (CI Pe	B's ON	P Pestic	cidic Cl	260 (VC	270 (SV	310 (PA	00.7 / 20	0.7 / 200	/ 60109 /	3			
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	Sludge	Other	ICE		HNO,	Other	BTEX & TPH as G	TPH as Diesel (801	Total Petroleum Oil & Grease (1664	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PC	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs (PNAS)	CAM 17 Metals (200.7 / 200.8 / 6010	(LUFT 5 Metals (300.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	1.4 diex			
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152-5														X	X	X					X			X		X		X		X			
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Tele: (707)	148-3120		F		707								8015) / MTBE	6	663	2		=		rs/C		_			1	6020	6020)		6288		for Metals analysis:
	1264-6				t Nan								+	X	1	418.1	200/	/ 802	3	roclo		cides	Λ	(NA	/010	/01		×		Yes / No
Project Location		CA ,											8021	1	Grease (1864-18639 E/B&T)	ons (€	602	icide	13	(s)	E E	(3)	00	Â	9/8	9/8	020)	2		
Sampler Signatu	re: Por	2/							_				1209	X	Grea	carb	802	(EPA	Pest	ONE	sticie	5	S	(SVC	PAH	/ 200	200.	9/01	9		
	1	SAMP	PLING	2500	S.	M	ATI	RIX	P	ME'	THO ERV	ED	(S)	10	8	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	524.2 / 624/8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	8270 SIM / 8310 (PAHs(PNAS)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	TUFT 5 Metals (\$00.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	3		
926 (1920)	LOCATION/			Containers	Type Containers		Т		1				TPH as	TPH as Diesel (8015)	Total Petroleum Oil	H	8/10	хох	808	1	100	51 (2	25/8	M/8	als (2	\$\ \\	200.8	XO		
SAMPLE ID	Field Point			tain	ont			d)					₽/	Diese	ling	trole	2/6	BTE	/ 608	/ 808	81	- 8	2/6	2/6	10 SI	Met	Mets	0.77	9		
	Name	Date	Time	lo.	be C	Water		Sludge	Other	HCL	HNO3	Other	BTEX	1	al Pe	al Pe	1 502	BE/	1 505	809 \	1 507	1515	1 524	1 525	82	M 17	1.5	d (20	-		
				#	Ty	Wat	Air	Slu		E	E	ŏ	BT	TPI	\\E	Tot	EP/	MT	EP/	EP/	EP/	E	EPA	EP/	EPA	C	4	2	-		
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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

ClientID: CAB WorkOrder: 0706632

				✓ EDF		Excel		Fax	[✓ Email		Hard	Сору	Thi	dParty		
Report to: Ryan Meyer Ceres Associates 424 First Street		Email: TEL: ProjectNo:	17	Ce 42	wania l res Ass 4 First S	sociate Street				Dat	te Rec	d TAT:	06/25/				
Benicia, CA 94510		PO:						nicia, C ejia@c		0 sociate	s.com		Dat	te Prii	nted:	06/25/	2007
Sample ID	ClientSampID		Matrix	Collection Date	Hold	1	2	3	Req	uested 5	Tests 6	(See leg	gend be	elow)	10	11	12
	- Cilonicampia				11010	•	_					<u> </u>					
0706632-002	CS1-5		Soil	6/25/07		Α	Α	Α	Α	Α	Α	Α		Α	<u> </u>	<u> </u>	
0706632-004	CS1-10		Soil	6/25/07		Α	Α	Α	Α	Α	Α	Α			↓	↓	
0706632-006	CS2-5		Soil	6/25/07		Α	Α	Α	Α	Α	Α	Α			<u> </u>	<u> </u>	<u> </u>
0706632-008	CS2-10		Soil	6/25/07		Α	Α	Α	Α	Α	Α	Α			↓	↓	
0706632-010	CS3-5		Soil	6/25/07		Α	Α	Α	Α	Α	Α	Α			↓	↓	
0706632-012	CS3-10		Soil	6/25/07		Α	Α	Α	Α	Α	Α	Α			↓	↓	
0706632-014	CS4-5		Soil	6/25/07		Α	Α	Α	Α	Α	Α	Α			<u> </u>	<u> </u>	
0706632-016	CS4-10		Soil	6/25/07		Α	Α	Α	Α	Α	Α	Α			<u> </u>	<u> </u>	
0706632-018	CS5-5		Soil	6/25/07		Α	Α	Α	Α	Α	Α	Α			<u> </u>	<u> </u>	
0706632-020	CS5-10		Soil	6/25/07		Α	Α	Α	Α	Α	Α	Α			<u> </u>	<u> </u>	
0706632-021	CS6-10		Soil	6/25/07							Α		Α				
0706632-022	CS7-10		Soil	6/25/07							Α		Α				
0706632-023	CS8-10		Soil	6/25/07							Α		Α				
Test Legend: 1 1,4-DIOXANE_S 6 G-MBTEX_S 11	2 7 7 12	8082A_F LUFT			8260B ГЕХ-82	_S 60B_S		9	1	8270D- PREDF F		-		5 10	9071	B_SG_S	<u>}</u>
The following SampIDs: 002	A, 004A, 006A, 008	A, 010A, 012	2A, 014A, 016A,	018A, 020A, 021A,	022A,	023A c	ontain t	estgroup	D.				Prepa	red by:	: Melis	sa Vall	es

Comments:

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

Sample Receipt Checklist

Client Name:	Ceres Associate	es			Date a	nd Time Received:	6/25/07 3:	52:26 PM
Project Name:	#CA1264-6				Checkl	list completed and r	eviewed by:	Melissa Valles
WorkOrder N°:	0706632	Matrix <u>Soil</u>			Carrier	: Rob Pringle (M	IAI Courier)	
		Chai	n of Cu	stody (C	OC) Informa	<u>tion</u>		
Chain of custody	y present?		Yes	V	No 🗆			
Chain of custody	/ signed when relinqu	ished and received?	Yes	V	No 🗆			
Chain of custody	agrees with sample	labels?	Yes	✓	No 🗌			
Sample IDs noted	d by Client on COC?		Yes	V	No 🗆			
Date and Time of	f collection noted by Cl	ient on COC?	Yes	✓	No \square			
Sampler's name i	noted on COC?		Yes	✓	No 🗆			
		<u> </u>	Sample	Receipt	Information			
Custody seals in	tact on shippping con	tainer/cooler?	Yes		No 🗆		NA 🗹	
Shipping contain	er/cooler in good cond	dition?	Yes	V	No 🗆			
Samples in prope	er containers/bottles?		Yes	~	No 🗆			
Sample containe	ers intact?		Yes	✓	No \square			
Sufficient sample	e volume for indicated	test?	Yes	✓	No 🗌			
		Sample Prese	rvatio	n and Ho	old Time (HT)	Information		
All samples recei	ived within holding tim	ne?	Yes	✓	No 🗌			
Container/Temp I	Blank temperature		Coole	er Temp:	6.2°C		NA \square	
Water - VOA via	ls have zero headspa	ice / no bubbles?	Yes		No \square	No VOA vials subm	itted 🗹	
Sample labels ch	hecked for correct pre	servation?	Yes	~	No 🗌			
TTLC Metal - pH	acceptable upon rece	ipt (pH<2)?	Yes		No 🗆		NA 🗹	
=====	======	=====		===:	====		====	======
Client contacted:		Date contact	cted:			Contacted	by:	
Comments:								

"When Ouality Counts'

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
424 First Street		Date Received: 06/25/07
Benicia, CA 94510	Client Contact: Ryan Meyer	Date Extracted: 06/26/07
Belleta, C.17 le 10	Client P.O.:	Date Analyzed 06/26/07-06/27/07

1,4-Dioxane by P&T and GC/MS SIM Mode*

Extraction method SW5030B Analytical methods SW8260B Work Order: 0706632

Extraction method SW5	5030B	Analytical metho	ds SW8260B	Work Order: 07	06632
Lab ID	Client ID	Matrix	1,4-Dioxane	DF	% SS
002A	CS1-5	S	ND	1	78
004A	CS1-10	S	ND	1	79
006A	CS2-5	S	ND	1	78
008A	CS2-10	S	ND	1	78
010A	CS3-5	S	ND	1	77
012A	CS3-10	S	ND	1	76
014A	CS4-5	S	ND	1	76
016A	CS4-10	S	ND	1	77
018A	CS5-5	S	ND	1	75
020A	CS5-10	S	ND	1	75
	ing Limit for DF =1;	W	NA	N	ΙA
ND mea	ans not detected at or	S	0.02	****	x/lza

ND means not detected at or above the reporting limit	S	0.02	mg/kg
* water and vapor samples are reported in ug/L soil/sluc	dge/solid samp	ules in mg/kg_product/oil/non-aqueous liquid samples and al	1 TCI P & SPI P

extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



1534 Willow Pass Road, Pittsburg, CA 94565-1701 Telephone: 877-252-9262 Fax: 925-252-9269

Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
424 First Street		Date Received: 06/25/07
Benicia, CA 94510	Client Contact: Ryan Meyer	Date Extracted: 06/25/07
20.10.11, 0.12, 10.20	Client P.O.:	Date Analyzed: 06/26/07-06/27/07

Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*

Extraction Method: SW3550C	An	alytical Method: SW808	2A		Work Order:	0706632
Lab	ID 0706632-002A	0706632-004A	0706632-006A	0706632-008A		
Client	ID CS1-5	CS1-10	CS2-5	CS2-10	Reporting DF	
Ma	rix S	S	S	S		
	DF 1	1	1	1	S	W
Compound		Conce	entration		mg/kg	ug/L
Aroclor1016	ND	ND	ND	ND	0.025	NA
Aroclor1221	ND	ND	ND	ND	0.025	NA
Aroclor1232	ND	ND	ND	ND	0.025	NA
Aroclor1242	ND	ND	ND	ND	0.025	NA
Aroclor1248	ND	ND	ND	ND	0.025	NA
Aroclor1254	ND	ND	ND	ND	0.025	NA
Aroclor1260	ND	ND	ND	ND	0.025	NA
PCBs, total	ND	ND	ND	ND	0.025	NA
	Sur	rogate Recoverie	s (%)			
%SS:	107	107	107	108		
Comments						

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

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

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

(h) a lighter than water immiscible sheen/product is present; (i) liquid sample that contains >~1 vol. % sediment; (j) sample diluted due to high organic content/matrix interference; (k) p,p,- is the same as 4,4,-; (l) florisil (EPA 3620) cleanup; (m) silica-gel (EPA 3630) cleanup; (n) elemental sulfur (EPA 3660) cleanup; (o) sulfuric acid permanganate (EPA 3665) cleanup; (p) see attached narrative; q) reporting limit raised due to insufficient sample amount; (r) results are reported on a dry weight basis;



Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
424 First Street		Date Received: 06/25/07
Benicia, CA 94510	Client Contact: Ryan Meyer	Date Extracted: 06/25/07
20110111, 0.127 1010	Client P.O.:	Date Analyzed: 06/26/07-06/27/07

Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*

Extraction Method: SW3550C Analytical Method: SW8082A Work Order: 0706632

Extraction Method: SW3550C		Anal	ytical Method: SW808	2A		Work Order:	0706632
	Lab ID	0706632-010A	0706632-012A	0706632-014A	0706632-016A		
	Client ID	CS3-5	CS3-10	CS4-5	CS4-10	Reporting DF	
	Matrix	S	S	S	S		
	DF	1	1	1	1	S	W
Compound			Conce	entration		mg/kg	ug/L
Aroclor1016		ND	ND	ND	ND	0.025	NA
Aroclor1221		ND	ND	ND	ND	0.025	NA
Aroclor1232		ND	ND	ND	ND	0.025	NA
Aroclor1242		ND	ND	ND	ND	0.025	NA
Aroclor1248		ND	ND	ND	ND	0.025	NA
Aroclor1254		ND	ND	ND	ND	0.025	NA
Aroclor1260		ND	ND	ND	ND	0.025	NA
PCBs, total		ND	ND	ND	ND	0.025	NA
		Surr	ogate Recoveries	s (%)			
%SS:		108	107	106	107		
Comments							

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

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

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

(h) a lighter than water immiscible sheen/product is present; (i) liquid sample that contains >~1 vol. % sediment; (j) sample diluted due to high organic content/matrix interference; (k) p,p,- is the same as 4,4,-; (l) florisil (EPA 3620) cleanup; (m) silica-gel (EPA 3630) cleanup; (n) elemental sulfur (EPA 3660) cleanup; (o) sulfuric acid permanganate (EPA 3665) cleanup; (p) see attached narrative; q) reporting limit raised due to insufficient sample amount; (r) results are reported on a dry weight basis;



Ceres Associates		Client Project ID: #CA1264-6			54-6	Date Sampled:	06/25/07	
424 First Street		Date F				Date Received:	06/25/07	
Benicia, CA 94510			Client Co	ontact: Ryan Me	yer	Date Extracted:	06/25/07	
Benicia, CA 94310	Client P.O.:				Date Analyzed:	06/26/07-0	6/27/07	
	Po	olychlor	inated Bi	phenyls (PCBs) A	roclors by GC-E	CD*		
Extraction Method: SW3550C			Anal	ytical Method: SW808	2A		Work Order:	0706632
	Lab ID	070663	32-018A	0706632-020A				
	Client ID	C	S5-5	CS5-10			Reporting DF	
	Matrix		S	S			1	
	DF		1	1			S	W
Compound		Concentration					mg/kg	ug/L
Aroclor1016		1	ND	ND			0.025	NA
Aroclor1221		1	ND	ND			0.025	NA
Aroclor1232		1	ND	ND			0.025	NA
Aroclor1242		1	ND	ND			0.025	NA
Aroclor1248		1	ND	ND			0.025	NA
Aroclor1254		1	ND	ND			0.025	NA
Aroclor1260		1	ND	ND			0.025	NA
PCBs, total		ND		ND			0.025	NA
	Surrogate Recoveries (%)							
%SS:		1	108	110				
Comments								

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

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

(h) a lighter than water immiscible sheen/product is present; (i) liquid sample that contains >~1 vol. % sediment; (j) sample diluted due to high organic content/matrix interference; (k) p,p,- is the same as 4,4,-; (l) florisil (EPA 3620) cleanup; (m) silica-gel (EPA 3630) cleanup; (n) elemental sulfur (EPA 3660) cleanup; (o) sulfuric acid permanganate (EPA 3665) cleanup; (p) see attached narrative; q) reporting limit raised due to insufficient sample amount; (r) results are reported on a dry weight basis;



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

Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
424 First Street		Date Received: 06/25/07
424 Phst Sueet	Client Contact: Ryan Meyer	Date Extracted: 06/25/07
Benicia, CA 94510	Client P.O.:	Date Analyzed 06/27/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0706632

Lab ID	0706632-002A					
Client ID	CS1-5					
Matrix	Soil					
	n :	n d				

Matrix		Soil					
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1.2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1.4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinvl Chloride	ND	1.0	0.005	7-7-	ND	1.0	0.005
		Surre	ogate Re	ecoveries (%)			
Surrogate Recoveries (76)							

 %SS1:
 94
 %SS2:

 %SS3:
 103

Comments

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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

Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
424 First Street		Date Received: 06/25/07
424 Phist Succt	Client Contact: Ryan Meyer	Date Extracted: 06/25/07
Benicia, CA 94510	Client P.O.:	Date Analyzed 06/27/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0706632

Client ID CS1-10	
Matrix Soil	

Matrix				Soil			
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1.2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1.2-Dichlorobenzene	ND	1.0	0.005	1.3-Dichlorobenzene	ND	1.0	0.005
1.4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1.2-Dichloroethene	ND	1.0	0.005	1.2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2.2-Dichloropropane	ND	1.0	0.005
1.1-Dichloropropene	ND	1.0	0.005	cis-1.3-Dichloropropene	ND	1.0	0.005
trans-1.3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1.1.1.2-Tetrachloroethane	ND	1.0	0.005
1.1.2.2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1.1.2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1.2.4-Trimethylbenzene	ND	1.0	0.005	1.3.5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005
		Surr		ecoveries (%)			
		2411	- 5 m - 1 m				

Surrogate Recoveries (%)							
%SS1:	93	%SS2:	97				
%SS3:	102						

Comments

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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

Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
424 First Street		Date Received: 06/25/07
424 Prist Succi	Client Contact: Ryan Meyer	Date Extracted: 06/25/07
Benicia, CA 94510	Client P.O.:	Date Analyzed 06/27/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0706632

Lab ID	0706632-006A					
Client ID	CS2-5					
Matrix	Soil					
	D		D			

Matrix		Soil					
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinvl Chloride	ND	1.0	0.005	Xvlenes	ND	1.0	0.005
		Surr	ogate Re	coveries (%)			

%SS1: 92 %SS2: 98 %SS3: 102

Comments

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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

Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
424 First Street		Date Received: 06/25/07
424 Prist Succi	Client Contact: Ryan Meyer	Date Extracted: 06/25/07
Benicia, CA 94510	Client P.O.:	Date Analyzed 06/27/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0706632

Lab ID	0706632-008A
Client ID	CS2-10
Matrix	Soil

Matrix Soil							
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinvl Chloride	ND	1.0	0.005	7-7-	ND	1.0	0.005
		Surr	ogate Re	ecoveries (%)			
I	1				1		

%SS1: 94 %SS2: 98 %SS3: 104

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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

Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
424 First Street		Date Received: 06/25/07
424 Phst Succi	Client Contact: Ryan Meyer	Date Extracted: 06/25/07
Benicia, CA 94510	Client P.O.:	Date Analyzed 06/27/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0706632

Lab ID	0706632-010A	
Client ID	CS3-5	
Matrix	Soil	
	D	D

Matrix Soil							
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinvl Chloride	ND	1.0	0.005	Xvlenes	ND	1.0	0.005
		Surr	ogate Re	ecoveries (%)			

 %SS1:
 93
 %SS2:
 98

 %SS3:
 104

Comments

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



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

Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
424 First Street		Date Received: 06/25/07
424 Phst Succi	Client Contact: Ryan Meyer	Date Extracted: 06/25/07
Benicia, CA 94510	Client P.O.:	Date Analyzed 06/27/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0706632

Lab ID	0706632-012A
Client ID	CS3-10
Matrix	Soil

11111111			Reporting	501			Reporting
Compound	Concentration *	DF	Limit	Compound	Concentration *	DF	Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinvl Chloride	ND	1.0	0.005	Xvlenes	ND	1.0	0.005
		Surro	gate Re	ecoveries (%)			

%SS1: 91 %SS2: 98 %SS3: 105

Comments

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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

Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
424 First Street		Date Received: 06/25/07
424 Phat Succi	Client Contact: Ryan Meyer	Date Extracted: 06/25/07
Benicia, CA 94510	Client P.O.:	Date Analyzed 06/27/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0706632

Lab ID	0706632-014A					
Client ID	CS4-5					
Matrix	Soil					
	Donomino	Danantina				

Combound Concentration DF	IVIaulix				2011			
Aervlonirile	Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Benzene	Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Bromochloromethane	Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Bromoform	Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
2-Butanone (MEK) ND	Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Butyl benzene	Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
ND 1.0 0.005 Carbon Disulfide ND 1.0 0.005 Carbon Disulfide ND 1.0 0.005 Carbon Tetrachloride ND 1.0 0.005 Chlorobenzene ND 1.0 0.005 Chlorobenzene ND 1.0 0.005 Chlorobenzene ND 1.0 0.005 Chloroform ND 1.0 0.005 Chlorobenzene ND 1.0 0.005 Chloroform ND 1.0 0.005 Chlorobenzene ND 1.	2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
Carbon Tetrachloride	n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
Chloroethane	tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Chloroform	Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
2-Chlorotoluene	Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Dibromochloromethane ND	Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
1,2-Dibromoethane (EDB) ND 1.0 0.005 Dibromomethane ND 1.0 0.005 1,2-Dichlorobenzene ND 1.0 0.005 1.3-Dichlorobenzene ND 1.0 0.005 1,4-Dichlorobenzene ND 1.0 0.005 Dichlorodifluoromethane ND 1.0 0.005 1,1-Dichloroethane ND 1.0 0.005 Dichlorodifluoromethane ND 1.0 0.005 1,1-Dichloroethane ND 1.0 0.005 Dichloroethane (1,2-DCA) ND 1.0 0.005 1,1-Dichloroethene ND 1.0 0.005 Dichloroethane (1,2-DCA) ND 1.0 0.005 1,1-Dichloroethene ND 1.0 0.005 Dischloroptopane ND 1.0 0.005 1,1-Dichloroptopane ND 1.0 0.005 Dischloroptopane ND 1.0 0.005 1,1-Dichloroptopane ND 1.0 0.005 Dischloroptopane ND 1.0 0.005 1,1-Dichloroptopane ND 1.0 0.005 Discopropopane ND 1.0 0.005 1,1-Dichloroptopane	2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
1,2-Dichlorobenzene	Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,4-Dichlorobenzene	1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,1-Dichloroethane	1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,1-Dichloroethene	1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
trans-1,2-Dichloroethene ND 1.0 0.005 1,2-Dichloropropane ND 1.0 0.00 1,3-Dichloropropane ND 1.0 0.005 2,2-Dichloropropane ND 1.0 0.00 1,1-Dichloropropene ND 1.0 0.005 cis-1,3-Dichloropropene ND 1.0 0.00 trans-1,3-Dichloropropene ND 1.0 0.005 Diisopropyl ether (DIPE) ND 1.0 0.00 Ethylbenzene ND 1.0 0.005 Ethyl tert-butyl ether (ETBE) ND 1.0 0.00 Freon 113 ND 1.0 0.01 Hexachlorobutadiene ND 1.0 0.00 Hexachloroethane ND 1.0 0.005 2-Hexanone ND 1.0 0.00 Isopropylbenzene ND 1.0 0.005 4-Isopropyl toluene ND 1.0 0.00 Methyl-t-butyl ether (MTBE) ND 1.0 0.005 Methylene chloride ND 1.0 0.00 Methyl-t-butyl ether (MTBE)	1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,3-Dichloropropane ND 1.0 0.005 2,2-Dichloropropane ND 1.0 0.005 1,1-Dichloropropene ND 1.0 0.005 cis-1,3-Dichloropropene ND 1.0 0.005 Ethylbenzene ND 1.0 0.005 Ethyl tert-butyl ether (ETBE) ND 1.0 0.005 Freon 113 ND 1.0 0.01 Hexachlorobutadiene ND 1.0 0.005 Hexachloropthane ND 1.0 0.005 2-Hexanone ND 1.0 0.005 Isopropylbenzene ND 1.0 0.005 2-Hexanone ND 1.0 0.005 Methyl-t-butyl ether (MTBE) ND 1.0 0.005 Methylene chloride ND 1.0 0.005 4-Methyl-2-pentanone (MIBK) ND 1.0 0.005 Methylene chloride ND 1.0 0.005 Styrene ND 1.0 0.005 Naphthalene ND 1.0 0.005 Styrene ND 1.0 0.	1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
1,1-Dichloropropene	trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
trans-1,3-Dichloropropene ND 1.0 0.005 Diisopropyl ether (DIPE) ND 1.0 0.00 Ethylbenzene ND 1.0 0.005 Ethyl tert-butyl ether (ETBE) ND 1.0 0.00 Freon 113 ND 1.0 0.1 Hexachlorobutadiene ND 1.0 0.00 Hexachloroethane ND 1.0 0.005 2-Hexanone ND 1.0 0.00 Isopropylbenzene ND 1.0 0.005 4-Isopropyl toluene ND 1.0 0.00 Methyl-t-butyl ether (MTBE) ND 1.0 0.005 Methylene chloride ND 1.0 0.00 4-Methyl-2-pentanone (MIBK) ND 1.0 0.005 Naphthalene ND 1.0 0.00 Nitrobenzene ND 1.0 0.005 Naphthalene ND 1.0 0.00 Styrene ND 1.0 0.005 Naphthalene ND 1.0 0.00 1.1,2-Tetrachloroethane ND 1.0 0.	1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
Ethylbenzene ND 1.0 0.005 Ethyl tert-butyl ether (ETBE) ND 1.0 0.00 Freon 113 ND 1.0 0.1 Hexachlorobutadiene ND 1.0 0.00 Hexachloroethane ND 1.0 0.005 2-Hexanone ND 1.0 0.00 Isopropylbenzene ND 1.0 0.005 4-Isopropyl toluene ND 1.0 0.00 Methyl-t-butyl ether (MTBE) ND 1.0 0.005 Methylene chloride ND 1.0 0.00 4-Methyl-2-pentanone (MIBK) ND 1.0 0.005 Naphthalene ND 1.0 0.00 Nitrobenzene ND 1.0 0.005 Naphthalene ND 1.0 0.00 Styrene ND 1.0 0.01 n-Propyl benzene ND 1.0 0.00 1,1,2-Tetrachloroethane ND 1.0 0.005 1,1,1,2-Tetrachloroethane ND 1.0 0.00 1,2,4-Trichloroethane ND 1.0 0	1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
Freon 113 ND 1.0 0.1 Hexachlorobutadiene ND 1.0 0.00 Hexachloroethane ND 1.0 0.005 2-Hexanone ND 1.0 0.00 Isopropylbenzene ND 1.0 0.005 4-Isopropyl toluene ND 1.0 0.00 Methyl-t-butyl ether (MTBE) ND 1.0 0.005 Methylene chloride ND 1.0 0.00 4-Methyl-2-pentanone (MIBK) ND 1.0 0.005 Naphthalene ND 1.0 0.00 Nitrobenzene ND 1.0 0.005 Naphthalene ND 1.0 0.00 Styrene ND 1.0 0.005 Naphthalene ND 1.0 0.00 Styrene ND 1.0 0.005 1,1,1,2-Tetrachloroethane ND 1.0 0.00 1,1,2,2-Tetrachloroethane ND 1.0 0.005 1,2,3-Trichloroethane ND 1.0 0.00 1,2,4-Trichloroethane ND 1.0 0.005	trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Hexachloroethane	Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Isopropylbenzene	Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE) ND 1.0 0.005 Methylene chloride ND 1.0 0.005 4-Methyl-2-pentanone (MIBK) ND 1.0 0.005 Naphthalene ND 1.0 0.005 Nitrobenzene ND 1.0 0.1 n-Propyl benzene ND 1.0 0.005 Styrene ND 1.0 0.005 1,1,1,2-Tetrachloroethane ND 1.0 0.005 1,1,2,2-Tetrachloroethane ND 1.0 0.005 Tetrachloroethene ND 1.0 0.005 Toluene ND 1.0 0.005 1,2,3-Trichlorobenzene ND 1.0 0.005 1,2,4-Trichloroethane ND 1.0 0.005 1,1,1-Trichloroethane ND 1.0 0.005 1,1,2-Trichloroethane ND 1.0 0.005 Trichloroethene ND 1.0 0.005 Trichlorofluoromethane ND 1.0 0.005 1,2,3-Trichloropropane ND 1.0 0.005 1,2,4-Trimethylbenzene ND	Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK) ND 1.0 0.005 Naphthalene ND 1.0 0.005 Nitrobenzene ND 1.0 0.1 n-Propyl benzene ND 1.0 0.005 Styrene ND 1.0 0.005 1,1,1,2-Tetrachloroethane ND 1.0 0.005 1,1,2,2-Tetrachloroethane ND 1.0 0.005 Tetrachloroethane ND 1.0 0.005 Toluene ND 1.0 0.005 1,2,3-Trichlorobenzene ND 1.0 0.005 1,2,4-Trichloroethane ND 1.0 0.005 Trichloroethane ND 1.0 0.005 1,1,2-Trichloroethane ND 1.0 0.005 Trichloroethane ND 1.0 0.005 Trichlorofluoromethane ND 1.0 0.005 1,2,3-Trichloropropane ND 1.0 0.005 1,2,4-Trimethylbenzene ND 1.0 0.005 1,3,5-Trimethylbenzene ND 1.0 0.005 Vinyl Chloride ND <	Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Nitrobenzene ND 1.0 0.1 n-Propyl benzene ND 1.0 0.00 Styrene ND 1.0 0.005 1,1,2-Tetrachloroethane ND 1.0 0.005 1,1,2,2-Tetrachloroethane ND 1.0 0.005 Tetrachloroethene ND 1.0 0.005 Toluene ND 1.0 0.005 1,2,3-Trichlorobenzene ND 1.0 0.005 1,2,4-Trichlorobenzene ND 1.0 0.005 1,1,1-Trichloroethane ND 1.0 0.005 1,1,2-Trichloroethane ND 1.0 0.005 Trichloroethene ND 1.0 0.005 Trichlorofluoromethane ND 1.0 0.005 1,2,3-Trichloropropane ND 1.0 0.005 1,2,4-Trimethylbenzene ND 1.0 0.005 Xylenes ND 1.0 0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
Styrene ND 1.0 0.005 1,1,1,2-Tetrachloroethane ND 1.0 0.005 1,1,2,2-Tetrachloroethane ND 1.0 0.005 Tetrachloroethane ND 1.0 0.005 Toluene ND 1.0 0.005 1,2,3-Trichlorobenzene ND 1.0 0.005 1,2,4-Trichlorobenzene ND 1.0 0.005 1,1,1-Trichloroethane ND 1.0 0.005 1,1,2-Trichloroethane ND 1.0 0.005 Trichloroethane ND 1.0 0.005 Trichlorofluoromethane ND 1.0 0.005 1,2,3-Trichloropropane ND 1.0 0.005 1,2,4-Trimethylbenzene ND 1.0 0.005 Xylenes ND 1.0 0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
Trichlorofluoromethane ND 1.0 0.005 1,2,3-Trichloropropane ND 1.0 0.005 1,2,4-Trimethylbenzene ND 1.0 0.005 1,3,5-Trimethylbenzene ND 1.0 0.005 Vinvl Chloride ND 1.0 0.005 Xvlenes ND 1.0 0.005	1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,2,4-Trimethylbenzene ND 1.0 0.005 1,3,5-Trimethylbenzene ND 1.0 0.005 Vinvl Chloride ND 1.0 0.005 Xvlenes ND 1.0 0.005	1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Vinvl Chloride ND 1.0 0.005 Xvlenes ND 1.0 0.000	Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
	1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Surrogate Recoveries (%)	Vinvl Chloride	ND	1.0	0.005	Xvlenes	ND	1.0	0.005
			Surre	ogate Re	ecoveries (%)			

Surrogate Recoveries (70)							
%SS1:	90	%SS2:	99				
%SS3:	105						

Comments

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



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

Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
424 First Street		Date Received: 06/25/07
424 Phst Succi	Client Contact: Ryan Meyer	Date Extracted: 06/25/07
Benicia, CA 94510	Client P.O.:	Date Analyzed 06/27/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0706632

Lab ID	0706632-016A
Client ID	CS4-10
Matrix	Soil

Matrix		Soil					
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1.2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1.2-Dichlorobenzene	ND	1.0	0.005	1.3-Dichlorobenzene	ND	1.0	0.005
1.4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1.2-Dichloroethene	ND	1.0	0.005	1.2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2.2-Dichloropropane	ND	1.0	0.005
1.1-Dichloropropene	ND	1.0	0.005	cis-1.3-Dichloropropene	ND	1.0	0.005
trans-1.3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1.1.1.2-Tetrachloroethane	ND	1.0	0.005
1.1.2.2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1.1.2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1.2.4-Trimethylbenzene	ND	1.0	0.005	1.3.5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005
		Surr		ecoveries (%)			
		2411	- 5 m - 1 m				

	Surrogate Re	ecoveries (%)	
%SS1:	93	%SS2:	99
%SS3:	104		

Comments

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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

Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
424 First Street		Date Received: 06/25/07
424 Phst Succi	Client Contact: Ryan Meyer	Date Extracted: 06/25/07
Benicia, CA 94510	Client P.O.:	Date Analyzed 06/27/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0706632

Lab ID	0706632-018A	
Client ID	CS5-5	
Matrix	Soil	
		I

Matrix		Soil					
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinvl Chloride	ND	1.0	0.005	Xvlenes	ND	1.0	0.005
		Surr	ogate Re	coveries (%)			

%SS1: 99 %SS2: 100 %SS3: 103

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

Comments

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

Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
424 First Street		Date Received: 06/25/07
424 Phst Succi	Client Contact: Ryan Meyer	Date Extracted: 06/25/07
Benicia, CA 94510	Client P.O.:	Date Analyzed 06/27/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0706632

Lab ID	0706632-020A
Client ID	CS5-10
Matrix	Soil

Matrix	Soil						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinvl Chloride	ND	1.0	0.005	Xvlenes	ND	1.0	0.005
		Surre	ogate Re	ecoveries (%)			

 %SS1:
 87
 %SS2:
 100

 %SS3:
 105

Comments

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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

Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
424 First Street		Date Received: 06/25/07
Benicia, CA 94510	Client Contact: Ryan Meyer	Date Extracted: 06/25/07
	Client P.O.:	Date Analyzed 06/27/07

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS*

Extraction Method: SW3550C	Work Order:	0706632				
Lab II	0706632-002A	0706632-004A	0706632-006A	0706632-008A		
Client II	CS1-5	CS1-10	CS2-5	CS2-10	Reporting Limit for DF =1	
Matri	x S	S	S	S		
D	7 1	1	1	1	S	W
Compound		Conc	entration		mg/kg	ug/L
Acenaphthene	ND	ND	ND	ND	0.005	NA
Acenaphthylene	ND	ND	ND	ND	0.005	NA
Anthracene	ND	ND	ND	ND	0.005	NA
Benzo(a)anthracene	ND	ND	ND	ND	0.005	NA
Benzo(a)pyrene	ND	ND	ND	ND	0.005	NA
Benzo(b)fluoranthene	ND	ND	ND	ND	0.005	NA
Benzo(g,h,i)perylene	ND	ND	ND	ND	0.005	NA
Benzo(k)fluoranthene	ND	ND	ND	ND	0.005	NA
Chrysene	ND	ND	ND	ND	0.005	NA
Dibenzo(a,h)anthracene	ND	ND	ND	ND	0.005	NA
Fluoranthene	ND	ND	ND	ND	0.005	NA
Fluorene	ND	ND	ND	ND	0.005	NA
Indeno (1,2,3-cd) pyrene	ND	ND	ND	ND	0.005	NA
1-Methylnaphthalene	ND	ND	ND	ND	0.005	NA
2-Methylnaphthalene	ND	ND	ND	ND	0.005	NA
Naphthalene	ND	ND	ND	ND	0.005	NA
Phenanthrene	ND	ND	ND	ND	0.005	NA
Pyrene	ND	ND	ND	ND	0.005	NA
	Surr	ogate Recoverie	s (%)			
%SS1	73	72	71	70		
%SS2	97	96	97	95		
Comments						

^{*} water samples 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 are reported in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; p) see attached narrative; r) results are reported on a dry weight basis.



Ceres Associates

Client Project ID: #CA1264-6

Date Sampled: 06/25/07

Date Received: 06/25/07

Client Contact: Ryan Meyer

Date Extracted: 06/25/07

Client P.O.:

Date Analyzed 06/27/07

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS*

Extraction Method: SW3550C	Ana	lytical Method: SW827	Work Order:	0706632			
Lab ID	0706632-010A	0706632-012A	0706632-014A	0706632-016A			
Client ID	CS3-5	CS3-10	CS4-5 CS4-10		Reporting Limit for DF =1		
Matrix	S	S	S	S	7		
DF	1	1	1	1	S	W	
Compound		Conce	entration		mg/kg	ug/L	
Acenaphthene	ND	ND	ND	ND	0.005	NA	
Acenaphthylene	ND	ND	ND	ND	0.005	NA	
Anthracene	ND	ND	ND	ND	0.005	NA	
Benzo(a)anthracene	ND	ND	ND	ND	0.005	NA	
Benzo(a)pyrene	ND	ND	ND	ND	0.005	NA	
Benzo(b)fluoranthene	ND	ND	ND	ND	0.005	NA	
Benzo(g,h,i)perylene	ND	ND	ND	ND	0.005	NA	
Benzo(k)fluoranthene	ND	ND	ND	ND	0.005	NA	
Chrysene	ND	ND	ND	ND	0.005	NA	
Dibenzo(a,h)anthracene	ND	ND	ND	ND	0.005	NA	
Fluoranthene	ND	ND	ND	ND	0.005	NA	
Fluorene	ND	ND	ND	ND	0.005	NA	
Indeno (1,2,3-cd) pyrene	ND	ND	ND	ND	0.005	NA	
1-Methylnaphthalene	ND	ND	ND	ND	0.005	NA	
2-Methylnaphthalene	ND	ND	ND	ND	0.005	NA	
Naphthalene	ND	ND	ND	ND	0.005	NA	
Phenanthrene	ND	ND	ND	ND	0.005	NA	
Pyrene	ND	ND	ND	ND	0.005	NA	
	Surr	ogate Recoverie	s (%)				
%SS1	71	70	71	71			
%SS2	95	89	95	94			
Comments							

^{*} water samples 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 are reported in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; p) see attached narrative; r) results are reported on a dry weight basis.



Extraction Method: SW3550C

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

Work Order: 0706632

Ceres AssociatesClient Project ID: #CA1264-6Date Sampled: 06/25/07424 First StreetDate Received: 06/25/07Benicia, CA 94510Client Contact: Ryan MeyerDate Extracted: 06/25/07Client P.O.:Date Analyzed 06/27/07

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS*

Analytical Method: SW8270C

 Lab ID
 0706632-018A
 0706632-020A
 Reporting Limit for DF =1

 Matrix
 S
 S

DF	1	1		S	W			
Compound		Concentration			ug/L			
Acenaphthene	ND	ND		0.005	NA			
Acenaphthylene	ND	ND		0.005	NA			
Anthracene	ND	ND		0.005	NA			
Benzo(a)anthracene	ND	ND		0.005	NA			
Benzo(a)pyrene	ND	ND		0.005	NA			
Benzo(b)fluoranthene	ND	ND		0.005	NA			
Benzo(g,h,i)perylene	ND	ND		0.005	NA			
Benzo(k)fluoranthene	ND	ND		0.005	NA			
Chrysene	ND	ND		0.005	NA			
Dibenzo(a,h)anthracene	ND	ND		0.005	NA			
Fluoranthene	ND	ND		0.005	NA			
Fluorene	ND	ND		0.005	NA			
Indeno (1,2,3-cd) pyrene	ND	ND		0.005	NA			
1-Methylnaphthalene	ND	ND		0.005	NA			
2-Methylnaphthalene	ND	ND		0.005	NA			
Naphthalene	ND	ND		0.005	NA			
Phenanthrene	ND	ND		0.005	NA			
Pyrene	ND	ND		0.005	NA			
Surrogate Recoveries (%)								

Bullogate Recoveries (70)

%SS1	72	71		
%SS2	95	98		
Comments				

^{*} water samples 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 are reported in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; p) see attached narrative; r) results are reported on a dry weight basis.



1534 Willow Pass Road, Pittsburg, CA 94565-1701 Telephone: 877-252-9262 Fax: 925-252-9269

Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
424 First Street		Date Received: 06/25/07
Benicia, CA 94510	Client Contact: Ryan Meyer	Date Extracted: 06/25/07
Beneuit, erry isre	Client P.O.:	Date Analyzed 06/29/07

Hexane Extractable Material With Silica Gel Treatment*								
Analytical methods: SW90	71B			Work Order: 070)6632			
Lab ID	Client ID	Matrix	HEMSGT	DF	% SS			
0706632-002A	CS1-5	S	ND	1	N/A			
0706632-004A	CS1-10	S	ND	1	N/A			
0706632-006A	CS2-5	S	ND	1	N/A			
0706632-008A	CS2-10	S	ND	1	N/A			
0706632-010A	CS3-5	S	ND	1	N/A			
0706632-012A	CS3-10	S	ND	1	N/A			
0706632-014A	CS4-5	S	ND	1	N/A			
0706632-016A	CS4-10	S	ND	1	N/A			
0706632-018A	CS5-5	S	ND	1	N/A			
0706632-020A	CS5-10	S	ND	1	N/A			
	ng Limit for DF =1;	W	NA	N	ΙA			
	ns not detected at or the reporting limit	S	50	mg	g/Kg			

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

DF = dilution factor (may be raised to dilute target analyte or matrix interference).

surrogate diluted out of range or not applicable to this sample.

g) sample extract repeatedly cleaned up with silica gel until constant IR result achieved; h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) results are reported on a dry weight basis.



"When Ouality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07				
424 First Street		Date Received: 06/25/07				
Benicia, CA 94510	Client Contact: Ryan Meyer	Date Extracted: 06/25/07				
25.00.00	Client P.O.:	Date Analyzed 06/26/07-07/02/07				

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline* Extraction method SW5030B Analytical methods SW8015Cm Work Order: 0706632 Lab ID Client ID Matrix TPH(g) DF % SS 002A CS1-5 S ND 1 81 004A CS1-10 S ND 87 006A CS2-5 S ND 74 008A CS2-10 S ND 1 86 010A 1 CS3-5 S ND 73 012A CS3-10 S ND 1 84 014A CS4-5 S ND 1 83 016A CS4-10 S ND 1 88 018A CS5-5 S 1 78 ND 020A CS5-10 S ND 88 1 021A CS6-10 S ND 022A CS7-10 S ND 1 80 023A CS8-10 S ND 1 87

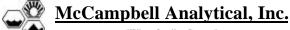
Reporting Limit for DF =1;	W	NA	NA
ND means not detected at or	S	1.0	mg/Kg
above the reporting limit		1.0	mg/Kg

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

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) value derived using a client specified carbon range; o) results are reported on a dry weight basis; p) see attached narrative.



[#] cluttered chromatogram; sample peak coelutes with surrogate peak.



"When Ouality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

20110111, 0117, 1010	Client P.O.:	Date Analyzed: 06/26/07					
Benicia, CA 94510	Client Contact: Ryan Meyer	Date Extracted: 06/25/07					
424 First Street		Date Received: 06/25/07					
Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07					

LUFT 5 Metals*

002A CS1-5 S TTLC ND 52 ND 40 42 1 96 004A CS1-10 S TTLC ND 31 ND 22 18 1 94 006A CS2-5 S TTLC ND 33 ND 25 18 1 94 008A CS2-10 S TTLC ND 46 6.9 55 38 1 97 010A CS3-5 S TTLC ND 30 ND 19 16 1 93 012A CS3-10 S TTLC ND 49 9.6 72 53 1 98 014A CS4-5 S TTLC ND 40 6.8 26 21 1 95 016A CS4-10 S TTLC ND 38 5.6 33 22 1 96 018A CS5-5 S <td< th=""><th></th><th></th><th></th><th></th><th>LUFIS</th><th>victais.</th><th></th><th></th><th></th><th></th><th></th></td<>					LUFIS	victais.					
002A CS1-5 S TTLC ND 52 ND 40 42 1 96 004A CS1-10 S TTLC ND 31 ND 22 18 1 94 006A CS2-5 S TTLC ND 33 ND 25 18 1 94 008A CS2-10 S TTLC ND 46 6.9 55 38 1 97 010A CS3-5 S TTLC ND 30 ND 19 16 1 93 012A CS3-10 S TTLC ND 49 9.6 72 53 1 98 014A CS4-5 S TTLC ND 38 5.6 33 22 1 95 016A CS4-10 S TTLC ND 28 ND 19 13 1 93 020A CS5-10 S <td< th=""><th>Extraction 1</th><th>method SW3050B</th><th></th><th></th><th>Analytical method</th><th>ls 6010C</th><th></th><th></th><th>Work Order:</th><th>0706632</th><th></th></td<>	Extraction 1	method SW3050B			Analytical method	ls 6010C			Work Order:	0706632	
004A CS1-10 S TTLC ND 31 ND 22 18 1 94 006A CS2-5 S TTLC ND 33 ND 25 18 1 94 008A CS2-10 S TTLC ND 46 6.9 55 38 1 97 010A CS3-5 S TTLC ND 30 ND 19 16 1 93 012A CS3-10 S TTLC ND 49 9.6 72 53 1 98 014A CS4-5 S TTLC ND 40 6.8 26 21 1 95 016A CS4-10 S TTLC ND 38 5.6 33 22 1 96 018A CS5-5 S TTLC ND 51 ND 35 30 1 95 020A CS5-10 S <t< th=""><th>Lab ID</th><th>Client ID</th><th>Matrix</th><th>Extraction Type</th><th>Cadmium</th><th>Chromium</th><th>Lead</th><th>Nickel</th><th>Zinc</th><th>DF</th><th>% SS</th></t<>	Lab ID	Client ID	Matrix	Extraction Type	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS
006A CS2-5 S TTLC ND 33 ND 25 18 1 94 008A CS2-10 S TTLC ND 46 6.9 55 38 1 97 010A CS3-5 S TTLC ND 30 ND 19 16 1 93 012A CS3-10 S TTLC ND 49 9.6 72 53 1 98 014A CS4-5 S TTLC ND 40 6.8 26 21 1 95 016A CS4-10 S TTLC ND 38 5.6 33 22 1 96 018A CS5-5 S TTLC ND 28 ND 19 13 1 93 020A CS5-10 S TTLC ND 51 ND 35 30 1 95 15 TTLC NA N	002A	CS1-5	S	TTLC	ND	52	ND	40	42	1	96
008A CS2-10 S TTLC ND 46 6.9 55 38 1 97 010A CS3-5 S TTLC ND 30 ND 19 16 1 93 012A CS3-10 S TTLC ND 49 9.6 72 53 1 98 014A CS4-5 S TTLC ND 40 6.8 26 21 1 95 016A CS4-10 S TTLC ND 38 5.6 33 22 1 96 018A CS5-5 S TTLC ND 28 ND 19 13 1 93 020A CS5-10 S TTLC ND 51 ND 35 30 1 95 0 TTLC ND 51 ND 35 30 1 95 0 TTLC ND ND ND ND	004A	CS1-10	S	TTLC	ND	31	ND	22	18	1	94
010A CS3-5 S TTLC ND 30 ND 19 16 1 93 012A CS3-10 S TTLC ND 49 9.6 72 53 1 98 014A CS4-5 S TTLC ND 40 6.8 26 21 1 95 016A CS4-10 S TTLC ND 38 5.6 33 22 1 96 018A CS5-5 S TTLC ND 28 ND 19 13 1 93 020A CS5-10 S TTLC ND 51 ND 35 30 1 95 1<	006A	CS2-5	S	TTLC	ND	33	ND	25	18	1	94
012A CS3-10 S TTLC ND 49 9.6 72 53 1 98 014A CS4-5 S TTLC ND 40 6.8 26 21 1 95 016A CS4-10 S TTLC ND 38 5.6 33 22 1 96 018A CS5-5 S TTLC ND 28 ND 19 13 1 93 020A CS5-10 S TTLC ND 51 ND 35 30 1 95 1 TTLC ND 51 ND 35 30 1 95 1 TTLC ND 10 ND ND 10 ND 10 ND 10 ND ND ND ND ND ND ND <	008A	CS2-10	S	TTLC	ND	46	6.9	55	38	1	97
014A CS4-5 S TTLC ND 40 6.8 26 21 1 95 016A CS4-10 S TTLC ND 38 5.6 33 22 1 96 018A CS5-5 S TTLC ND 28 ND 19 13 1 93 020A CS5-10 S TTLC ND 51 ND 35 30 1 95 Image: Company of the c	010A	CS3-5	S	TTLC	ND	30	ND	19	16	1	93
016A CS4-10 S TTLC ND 38 5.6 33 22 1 96 018A CS5-5 S TTLC ND 28 ND 19 13 1 93 020A CS5-10 S TTLC ND 51 ND 35 30 1 95 Image: Compact of the compac	012A	CS3-10	S	TTLC	ND	49	9.6	72	53	1	98
018A CS5-5 S TTLC ND 28 ND 19 13 1 93 020A CS5-10 S TTLC ND 51 ND 35 30 1 95	014A	CS4-5	S	TTLC	ND	40	6.8	26	21	1	95
020A CS5-10 S TTLC ND 51 ND 35 30 1 95 Image: Control of the c	016A	CS4-10	S	TTLC	ND	38	5.6	33	22	1	96
Reporting Limit for DF =1; ND means not detected at or S TTLC 15 15 50 mg/Kg	018A	CS5-5	S	TTLC	ND	28	ND	19	13	1	93
ND means not detected at or S TTLC 1.5 1.5 5.0 mg/Kg	020A	CS5-10	S	TTLC	ND	51	ND	35	30	1	95
ND means not detected at or S TTLC 1.5 1.5 5.0 mg/Kg											
ND means not detected at or S TTIC 15 15 50 15 50 mg/Kg											
ND means not detected at or S TTIC 15 15 50 15 50 mg/Kg											
ND means not detected at or S TTIC 15 15 50 15 50 mg/Kg											
ND means not detected at or S TTLC 1.5 1.5 5.0 mg/Kg											
ND means not detected at or S TTLC 1.5 1.5 5.0 mg/Kg											
S TTIC 15 15 50 15 50 mg/Kg			W	TOTAL^	NA	NA	NA	NA	NA	N	ΙA
			S	TTLC	1.5	1.5	5.0	1.5	5.0	mg	g/Kg

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

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.



[#] means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

Client Project ID: #CA1264-6 Ceres Associates Date Sampled: 06/25/07 Date Received: 06/25/07 424 First Street Date Extracted: 06/25/07 Client Contact: Ryan Meyer Benicia, CA 94510 Client P.O.: Date Analyzed: 06/27/07 BTEX by GC/MS* Work Order: 0706632 Extraction Method: SW5030B Analytical Method: SW8260B Lab ID 0706632-021A 0706632-022A 0706632-023A CS6-10 CS7-10 CS8-10 Client ID Reporting Limit for DF =1 Matrix S S S DF 1 1 1 S W Compound Concentration mg/kg ug/L Benzene ND ND ND 0.005 NA Ethylbenzene ND ND ND 0.005 NA Toluene ND ND ND 0.005NA Xylenes ND ND ND 0.005 NA **Surrogate Recoveries (%)** %SS1: 90 89 87 %SS2: 101 101 100 %SS3: 100 100 Comments

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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

Ceres Associates	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
424 First Street		Date Received: 06/25/07
Benicia, CA 94510	Client Contact: Ryan Meyer	Date Extracted: 06/25/07
Zemvin, erry iere	Client P.O.:	Date Analyzed 06/26/07-07/02/07

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil*

Extraction method: SW35	50C		nethods: SW8015C	Wor	k Order: 0	706632
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0706632-002A	CS1-5	S	ND	ND	1	91
0706632-004A	CS1-10	S	ND	ND	1	98
0706632-006A	CS2-5	S	ND	ND	1	100
0706632-008A	CS2-10	S	ND	ND	1	104
0706632-010A	CS3-5	S	ND	ND	1	84
0706632-012A	CS3-10	S	ND	ND	1	101
0706632-014A	CS4-5	S	ND,g	5.9	1	95
0706632-016A	CS4-10	S	ND	ND	1	99
0706632-018A	CS5-5	S	ND	ND	1	87
0706632-020A	CS5-10	S	ND	ND	1	95
0706632-021A	CS6-10	S	ND	ND	1	92
0706632-022A	CS7-10	S	ND	ND	1	90
0706632-023A	CS8-10	S	ND	ND	1	93
Reporting Limit for DF =1;		W	NA	NA	ug	g/L

Reporting Limit for D1 =1,	w	NA	NA	ug/L			
ND means not detected at or	S	1.0	5.0	mg/Kg			
above the reporting limit	ы	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 / SPLP / TCLP extracts are reported in μ g/L.

[#] 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.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel (asphalt?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; o) mineral oil; p) see attached narrative.

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0706632

EPA Method SW8015Cm	Extra	ction SW	5030B		BatchID: 28884 Sp					piked Sample ID: 0706580-007A				
Analyte Sample Spiked MS MSD MS-MSD LCS								LCS-LCSD	.CS-LCSD Acceptance Criteria (%)					
Allalyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD		
TPH(btex [£]	ND	0.60	94.2	99.2	5.15	82.4	94.7	13.9	70 - 130	30	70 - 130	30		
MTBE	ND	0.10	97.8	98.4	0.587	91.3	95.4	4.46	70 - 130	30	70 - 130	30		
Benzene	ND	0.10	88.3	90	1.98	85.8	87.1	1.54	70 - 130	30	70 - 130	30		
Toluene	ND	0.10	78.1	77.9	0.247	80.9	79.2	2.20	70 - 130	30	70 - 130	30		
Ethylbenzene	ND	0.10	93.6	93.8	0.134	90.9	88.1	3.15	70 - 130	30	70 - 130	30		
Xylenes	ND	0.30	86.7	87	0.384	86.3	82.3	4.74	70 - 130	30	70 - 130	30		
%SS:	84	0.10	83	96	15.2	83	92	10.5	70 - 130	30	70 - 130	30		

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

NONE

BATCH 28884 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0706632-002A	06/25/07	06/25/07	06/26/07 5:26 PM	0706632-004A	06/25/07	06/25/07	06/29/07 5:50 PM
0706632-006A	06/25/07	06/25/07	06/28/07 4:29 AM				

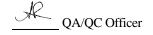
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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.



QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0706632

EPA Method SW8015C Extraction SW3550C						chID: 28	885	Spiked Sample ID: 0706580-023A					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
TPH(d)	85	20	141, F1	128	2.36	111	110	0.253	70 - 130	30	70 - 130	30	
%SS:	109	50	96	93	2.86	84	85	0.105	70 - 130	30	70 - 130	30	

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

F1 = MS / MSD exceed acceptance criteria. LCS - LCSD validate prep batch.

BATCH	28885	SUMMARY

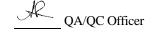
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0706632-002A	06/25/07	06/25/07	06/28/07 8:11 PM	0706632-004A	06/25/07	06/25/07	06/26/07 5:18 PM
0706632-006A	06/25/07	06/25/07	07/02/07 3:46 PM	0706632-008A	06/25/07	06/25/07	06/27/07 1:40 AM
0706632-010A	06/25/07	06/25/07	06/27/07 9:05 AM	0706632-012A	06/25/07	06/25/07	06/27/07 7:11 PM
0706632-014A	06/25/07	06/25/07	06/27/07 6:51 AM	0706632-016A	06/25/07	06/25/07	06/27/07 8:23 PM
0706632-018A	06/25/07	06/25/07	06/26/07 7:44 PM	0706632-020A	06/25/07	06/25/07	06/27/07 7:57 AM
0706632-021A	06/25/07	06/25/07	06/26/07 6:30 PM	0706632-022A	06/25/07	06/25/07	06/26/07 7:39 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.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0706632

EPA Method SW8015Cm	Extra	ction SW		BatchID: 28920 Spiked Sample ID: 0706632-							2A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD LCS LCSD		LCS-LCSD	Acceptance Criteria (%)				
Analyto	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex [£]	ND	0.60	116	101	13.0	107	107	0	70 - 130	30	70 - 130	30
MTBE	ND	0.10	106	95.1	11.1	106	104	1.95	70 - 130	30	70 - 130	30
Benzene	ND	0.10	92.4	90.7	1.76	101	99.7	1.58	70 - 130	30	70 - 130	30
Toluene	ND	0.10	88.1	84.2	4.61	96	94.2	1.93	70 - 130	30	70 - 130	30
Ethylbenzene	ND	0.10	93.4	93.6	0.179	107	105	2.00	70 - 130	30	70 - 130	30
Xylenes	ND	0.30	100	100	0	107	103	3.17	70 - 130	30	70 - 130	30
%SS:	80	0.10	83	81	2.73	94	91	3.33	70 - 130	30	70 - 130	30

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

NONE

BATCH 28920 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0706632-008A	06/25/07	06/25/07	06/27/07 1:06 AM	0706632-010A	06/25/07	06/25/07	06/28/07 5:02 AM
0706632-012A	06/25/07	06/25/07	06/27/07 2:37 AM	0706632-014A	06/25/07	06/25/07	06/28/07 6:41 AM
0706632-016A	06/25/07	06/25/07	06/27/07 5:08 AM	0706632-018A	06/25/07	06/25/07	06/26/07 8:29 PM
0706632-020A	06/25/07	06/25/07	06/26/07 9:03 PM	0706632-021A	06/25/07	06/25/07	06/26/07 10:10 PM
0706632-022A	06/25/07	06/25/07	06/26/07 10:43 PM	0706632-023A	06/25/07	06/25/07	07/02/07 5:53 PM

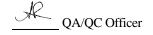
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.



QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0706632

EPA Method SW8015C Extraction SW3550C						chID: 28	922	Spiked Sample ID: 0706632-023A					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	١	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
TPH(d)	ND	20	111	112	0.616	113	110	2.31	70 - 130	30	70 - 130	30	
%SS:	93	50	114	116	1.36	113	110	2.71	70 - 130	30	70 - 130	30	

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

BATCH 28922 SUMMARY

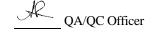
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0706632-023A	06/25/0	7 06/25/07	06/26/07 3:46 PM				

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.



QC SUMMARY REPORT FOR SW8082A

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0706632

EPA Method SW8082A		Bat	chID: 28	Spiked Sample ID: 0706632-020A								
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	1
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	ND	0.075	95.3	95.1	0.239	95.8	95.2	0.624	70 - 130	20	70 - 130	20
%SS:	110	0.050	109	109	0	109	109	0	70 - 130	20	70 - 130	20

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

BATCH 28924 SUMMARY

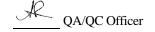
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0706632-002A	06/25/07	06/25/07	06/26/07 8:51 PM	0706632-004A	06/25/07	06/25/07	06/26/07 9:47 PM
0706632-006A	06/25/07	06/25/07	06/26/07 10:44 PM	0706632-008A	06/25/07	06/25/07	06/26/07 11:40 PM
0706632-010A	06/25/07	06/25/07	06/27/07 12:36 AM	0706632-012A	06/25/07	06/25/07	06/27/07 3:24 AM
0706632-014A	06/25/07	06/25/07	06/27/07 4:20 AM	0706632-016A	06/25/07	06/25/07	06/27/07 5:15 AM
0706632-018A	06/25/07	06/25/07	06/27/07 6:10 AM	0706632-020A	06/25/07	06/25/07	06/26/07 6:57 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.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0706632

EPA Method SW8260B Extraction SW5030B						chID: 28	929	Spiked Sample ID: N/A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	١
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
1,4-Dioxane	N/A	0.10	N/A	N/A	N/A	80.8	89.5	10.2	N/A	N/A	70 - 130	30
%SS1:	N/A	0.050	N/A	N/A	N/A	80	80	0	N/A	N/A	70 - 130	20

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

BATCH 28929 SUMMARY

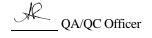
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0706632-002A	06/25/07	06/26/07	06/26/07 5:55 PM	0706632-004A	06/25/07	06/26/07	06/26/07 6:41 PM
0706632-006A	06/25/07	06/26/07	06/26/07 7:25 PM	0706632-008A	06/25/07	06/26/07	06/26/07 8:16 PM
0706632-010A	06/25/07	06/26/07	06/26/07 9:04 PM	0706632-012A	06/25/07	06/26/07	06/26/07 9:50 PM
0706632-014A	06/25/07	06/26/07	06/26/07 10:37 PM	0706632-016A	06/25/07	06/26/07	06/26/07 11:24 PM
0706632-018A	06/25/07	06/26/07	06/27/07 12:16 AM	0706632-020A	06/25/07	06/26/07	06/27/07 1:03 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.

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



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0706632

EPA Method SW8260B	Extraction SW5030B				BatchID: 28901			Sp	Spiked Sample ID: 0706612-013A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	١
7 may to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	103	104	1.53	102	102	0	70 - 130	30	70 - 130	30
Benzene	ND	0.050	114	112	1.93	114	110	3.00	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	92.4	90.2	2.37	98.7	102	2.79	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	99.7	103	2.89	99.8	99.9	0.180	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	101	106	4.21	102	103	1.21	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	103	105	1.36	104	99.8	4.32	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	105	98.8	6.39	112	100	11.5	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	117	118	0.505	116	118	2.10	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	108	110	1.66	107	109	2.04	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	108	111	3.00	106	107	1.09	70 - 130	30	70 - 130	30
Toluene	ND	0.050	102	106	3.22	102	108	6.56	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	99	97.9	1.16	100	98.3	1.68	70 - 130	30	70 - 130	30
%SS1:	97	0.050	102	98	3.95	102	101	0.311	70 - 130	30	70 - 130	30
% SS2:	97	0.050	94	96	2.12	94	100	6.21	70 - 130	30	70 - 130	30
%SS3:	95	0.050	103	107	4.00	102	114	11.6	70 - 130	30	70 - 130	30

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

BATCH 28901 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0706632-002A	06/25/07	06/25/07	06/27/07 3:28 AM	0706632-004A	06/25/07	06/25/07	06/27/07 4:15 AM
0706632-006A	06/25/07	06/25/07	06/27/07 5:03 AM	0706632-008A	06/25/07	06/25/07	06/27/07 5:52 AM
0706632-010A	06/25/07	06/25/07	06/27/07 6:39 AM	0706632-012A	06/25/07	06/25/07	06/27/07 7:25 AM
0706632-014A	06/25/07	06/25/07	06/27/07 1:26 PM	0706632-016A	06/25/07	06/25/07	06/27/07 11:57 AM
0706632-018A	06/25/07	06/25/07	06/27/07 2:54 PM	0706632-020A	06/25/07	06/25/07	06/27/07 2:10 PM

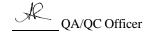
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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.



NONE

QC SUMMARY REPORT FOR SW9071B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0706632

EPA Method SW9071B	Extraction SM5520DF_S				BatchID: 28923			Spiked Sample ID: 0706632-002A				2A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD Acceptance Criteria (Criteria (%)	
, mayto	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
HEMSGT	ND	1000	105	108	2.81	89.5	87.9	1.86	70 - 130	30	70 - 130	30

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

BATCH 28923 SUMMARY

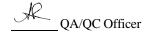
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0706632-002A	06/25/07	06/25/07	06/29/07 6:12 PM	0706632-004A	06/25/07	06/25/07	06/29/07 6:17 PM
0706632-006A	06/25/07	06/25/07	06/29/07 6:22 PM	0706632-008A	06/25/07	06/25/07	06/29/07 6:27 PM
0706632-010A	06/25/07	06/25/07	06/29/07 6:32 PM	0706632-012A	06/25/07	06/25/07	06/29/07 6:37 PM
0706632-014A	06/25/07	06/25/07	06/29/07 6:42 PM	0706632-016A	06/25/07	06/25/07	06/29/07 6:47 PM
0706632-018A	06/25/07	06/25/07	06/29/07 6:52 PM	0706632-020A	06/25/07	06/25/07	06/29/07 6:57 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.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0706632

EPA Method SW8260B Extraction SW5030B						BatchID: 28925			Spiked Sample ID: 0706632-023A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
Allalyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Benzene	ND	0.050	123	118	4.39	117	112	4.43	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	116	118	1.72	111	109	1.65	70 - 130	30	70 - 130	30
Toluene	ND	0.050	119	124	4.22	100	107	6.54	70 - 130	30	70 - 130	30
%SS1:	87	0.050	103	103	0	102	98	3.45	70 - 130	30	70 - 130	30
%SS2:	WAIT	0.050	102	108	6.05	94	98	3.55	70 - 130	30	70 - 130	30
%SS3:	100	0.050	103	116	12.4	102	113	9.61	70 - 130	30	70 - 130	30

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

BATCH 28925 SUMMARY

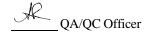
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0706632-021A	06/25/07	06/25/07	06/27/07 1:23 PM	0706632-022A	06/25/07	06/25/07	06/27/07 2:09 PM
0706632-023A	06/25/07	06/25/07	06/27/07 2:55 PM				

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.



QC SUMMARY REPORT FOR SW8270C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0706632

EPA Method SW8270C	Extra	Extraction SW3550C					BatchID: 28926 Sp				iked Sample ID: 0706632-020A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc						
7 mary to	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD			
Benzo(a)pyrene	ND	0.10	90.3	87.1	3.60	90.2	89.6	0.701	30 - 130	30	30 - 130	30			
Chrysene	ND	0.10	84.2	81.9	2.82	85	84.6	0.447	30 - 130	30	30 - 130	30			
1-Methylnaphthalene	ND	0.10	96.1	97.5	1.44	94.6	92.1	2.76	30 - 130	30	30 - 130	30			
2-Methylnaphthalene	ND	0.10	104	106	1.34	102	101	1.16	30 - 130	30	30 - 130	30			
Phenanthrene	ND	0.10	86.5	85	1.78	86.3	86	0.352	30 - 130	30	30 - 130	30			
Pyrene	ND	0.10	87.7	88.1	0.427	89.5	88.5	1.12	30 - 130	30	30 - 130	30			
%SS1:	71	0.050	71	71	0	71	70	0.670	30 - 130	30	30 - 130	30			
%SS2:	98	0.050	95	94	0.955	96	96	0	30 - 130	30	30 - 130	30			

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

BATCH 28926 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0706632-002A	06/25/07	06/25/07	06/27/07 6:34 AM	0706632-004A	06/25/07	06/25/07	06/27/07 7:47 AM
0706632-006A	06/25/07	06/25/07	06/27/07 9:01 AM	0706632-008A	06/25/07	06/25/07	06/27/07 10:16 AM
0706632-010A	06/25/07	06/25/07	06/27/07 11:34 AM	0706632-012A	06/25/07	06/25/07	06/27/07 12:52 PM
0706632-014A	06/25/07	06/25/07	06/27/07 2:10 PM	0706632-016A	06/25/07	06/25/07	06/27/07 3:28 PM
0706632-018A	06/25/07	06/25/07	06/27/07 4:45 PM	0706632-020A	06/25/07	06/25/07	06/27/07 2:54 AM

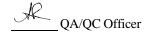
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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.

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.



QC SUMMARY REPORT FOR 6010C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0706632

EPA Method 60	EPA Method 6010C				Extraction SW3050B				BatchID: 28927			Spiked Sample ID 0706632-020A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD LCS-LCSD		Acceptance Criteria (%)					
7 mary to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD		
Cadmium	ND	50	108	102	5.44	10	97.8	111	12.5	75 - 125	20	80 - 120	20		
Chromium	51	50	102	97.5	2.31	10	104	103	1.67	75 - 125	20	80 - 120	20		
Lead	ND	50	124	105	16.5	10	103	102	1.17	75 - 125	20	80 - 120	20		
Nickel	35	50	105	103	1.06	10	100	107	6.26	75 - 125	20	80 - 120	20		
Zinc	30	500	122	115	5.83	100	104	103	0.386	75 - 125	20	80 - 120	20		
%SS:	95	250	94	99	5.42	250	96	101	5.64	70 - 130	20	70 - 130	20		

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

BATCH 28927 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0706632-002A	06/25/0	7 06/25/07	06/26/07 4:00 PM	0706632-004A	06/25/07	06/25/07	06/26/07 4:04 PM
0706632-006A	06/25/0	7 06/25/07	06/26/07 4:09 PM	0706632-008A	06/25/07	06/25/07	06/26/07 4:14 PM
0706632-010A	06/25/0	7 06/25/07	06/26/07 4:18 PM	0706632-012A	06/25/07	06/25/07	06/26/07 4:23 PM
0706632-014A	06/25/0	7 06/25/07	06/26/07 4:28 PM	0706632-016A	06/25/07	06/25/07	06/26/07 4:32 PM
0706632-018A	06/25/0	7 06/25/07	06/26/07 4:37 PM	0706632-020A	06/25/07	06/25/07	06/26/07 3:23 PM

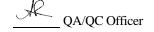
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = <math>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 applicable to this method.

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



Ceres Associates	Excavation	Date Sampled: 11/29/06
424 First Street		Date Received: 11/29/06
Benicia, CA 94510	Client Contact: Ryan Meyer	Date Reported: 12/01/06
Bellicia, CA 94310	Client P.O.:	Date Completed: 12/01/06

WorkOrder: 0611533

December 01, 2006

Dear Ryan:

Enclosed are:

- 1). the results of 6 analyzed samples from your #CA1264; Oakland Excavation project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Best regards,

Angela Rydelius, Lab Manager

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com

CHAIN OF	CUST	ODY	RECO	RD_	
TURN AROUND TIME	Ø	DA .			
	RUSH	24 HR	48 HP	72 HR	STAV

GeoTracker EDF ☑ PDF ☑ Excel □ Write On (DW) □ Telephone: (877) 252-9262 Fax: (925) 252-9269 Check if sample is effluent and "J" flag is required Bill To: Cells Associates Report To: RUAN Meye **Analysis Request** Other Comments Associates Company: Coces EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners Filter Samples E-Mail: TYAHMEYER CERESUSSOCIALES, COM CAM 17 Metals (200.7 / 200.8 / 6010 / 6020) for Metals LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020) Fax: (707) 748 7130 7130 Tele: (7) EPA 502.2 / 601 / 8010 / 8021 (HVOCs) analysis: EPA 515 / 8151 (Acidic Cl Herbicides) Project Name: OAkland Excavation Project #: CA 1264 EPA 505/ 608 / 8081 (Cl Pesticides) Yes / No $Lead \; (200.7 \, / \, 200.8 \, / \, 6010 \, / \, 6020)$ DAKland Di EPA 525.2 / 625 / 8270 (SVOCs) **Project Location:** EPA 507 / 8141 (NP Pesticides) EPA 524.2 / 624 / 8260 (VOCs) Sampler Signature: METHOD **SAMPLING MATRIX** Type Containers TPH as Diesel (8015) PRESERVED # Containers LOCATION/ SAMPLE ID **Field Point** Sludge Water Time Other Name Date HNO3 HCL Soil ICE Air DISAUSG Relinguished By: Date: Time: Received By: ICE/to COMMENTS: GOOD CONDITION 11:00 11-29 HEAD SPACE ABSENT Relinquished By: Date: Time: Received By: DECHLORINATED IN LAB APPROPRIATE CONTAINERS PRESERVED IN LAB Relinquished By: Received By: Date: Time: VOAS O&G METALS OTHER

PRESERVATION

pH<2

McCampbell Analytical, Inc.

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

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Prepared by: Maria Venegas

WorkOrder: 0611533 ClientID: CAB

			□EDF		□Fa	ax	[√ Email		□Н	ardCopy		ThirdF	Party		
Report to: Ryan Meyer Ceres Associa 424 First Stree		Bi Email: ryanmeyer@ceresassociates.com TEL: (707) 748-3170 FAX: (707) 748-3171 ProjectNo: #CA1264; Oakland Excavation						Bill to: Lori Ceres Associates 424 First Street				·	uested i		•	
Benicia, CA 9		PO:	KIAIIU EXCAVALIOII					A 9451	0				e Printe		11/29/	
								Re	quested	l Tests (See lege	nd belo	ow)			
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
0611533-001	III-9-N	Soil	11/29/06		A			Α								
0611533-002	III-9-S	Soil	11/29/06		A			A								
0611533-003	III-8-E	Soil	11/29/06	\Box	A			Α								
0611533-004	III-9-W	Soil	11/29/06		Α			Α								
0611533-005	S-1-4	Soil	11/29/06	Ī	Α	Α	Α	Α								
0611533-006	II-9-N	Soil	11/29/06		Α			Α								
<u>Test Legend</u> :																
1 G-MBTE	X_S 2	LUFT_S	3 РВ	_STLC	Soil		4		TPH(D	MO)_S		:	5			
6	7		8				9					1	10			
11	12															

Comments: 24hr Rush

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

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Telephone: 877-252-9262 Fax: 925-252-9269

Ceres Associates	Client Project ID: #CA1264; Oakland Excavation	Date Sampled:	11/29/06
424 First Street		Date Received:	11/29/06
Benicia, CA 94510	Client Contact: Ryan Meyer	Date Extracted:	11/29/06
20110111, 0117, 1010	Client P.O.:	Date Analyzed	11/29/06-11/30/06

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

	tion method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0611533											
Extraction	method SW5030B		Anal	ytical methods SV	V8021B/8015Cm			Work Order	: 061	1533		
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS		
001A	III-9-N	S	ND	ND	ND	ND	ND	ND	1	99		
002A	III-9-S	S	ND	ND	ND	ND	ND	ND	1	104		
003A	III-8-E	S	ND	ND	ND	ND	ND	ND	1	96		
004A	III-9-W	S	ND	ND	ND	ND	ND	ND	1	106		
005A	S-1-4	S	140,g,m	ND<0.50	ND<0.050	ND<0.050	0.099	0.27	10	106		
006A	II-9-N	S	ND	ND	ND	ND	ND	ND	1	100		
	•	-			ī	· I	1					
_	orting Limit for DF =1;	W	NA	NA	NA	NA	NA	NA	1	ug/L		
	means not detected at or ove the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg		

ND means not detected at or above the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg	
* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in ug/wipe.										

product/oil/non-aqueous liquid samples in mg/L.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) value derived using a client specified carbon range; o) results are reported on a dry weight basis; p) see attached narrative.



[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

Ceres Associates	Excavation		Date Sampled:	11/29/06			
424 First Street	Excavati	on	-	Date Received:	11/29/06		
Benicia, CA 94510	Client C	ontact: Ryan Me	yer	Date Extracted:	11/29/06		
Bellicia, CA 94310	Client P.	Client P.O.: Date Analyzed					
Gasoline Range	(C6-C12) Volatile	e Hydrocarbons a	s Gasoline with I	BTEX and MTBE			
Extraction Method: SW5030B	Anal	lytical Method: SW802	1B/8015Cm		Work Order:	0611533	
Lab ID	0611533-005A						
Client ID	S-1-4				Reporting DF		
Matrix	S						
DF	10				S	W	
Compound Concentration						ug/L	
TPH(g)	140,g,m				1.0	NA	
TPH(g) (C6-C9)	51				1.0	NA	
MTBE	ND<0.50				0.05	NA	
Benzene	ND<0.050				0.005	NA	
Toluene	ND<0.050				0.005	NA	
Ethylbenzene	0.099				0.005	NA	
Xylenes	0.27				0.005	NA	
Surrogate Recoveries (%)							
%SS:	106						
Comments	g,m						

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

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) value derived using a client specified carbon range; o) results are reported on a dry weight basis; p) see attached narrative.

McCampbell Analytical, Inc.

1534 Willow Pass Road, Pittsburg, CA 94565-1701 $Web: www.mccampbell.com \qquad E-mail: main@mccampbell.com\\$ Telephone: 877-252-9262 Fax: 925-252-9269

	LUCT 5 Motole*	
20110111, 0117.010	Client P.O.:	Date Analyzed 11/30/06
Benicia, CA 94510	Client Contact: Ryan Meyer	Date Extracted: 11/29/06
424 First Street	Excavation	Date Received: 11/29/06
Ceres Associates	Client Project ID: #CA1264; Oakland Excavation	Date Sampled: 11/29/06

LUFT 5 Metals*

Analytical methods 6010C Extraction method SW3050B Work Order: 0611533

Extraction inclined 5w3030b Analytical inclined 6010c work office. 001135										
Lab ID	Client ID	Matrix	Extraction	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS
005A	S-1-4	S	TTLC	ND	45	48	51	110	1	103
	ing Limit for DF =1;	W	TTLC	NA	NA	NA	NA	NA	N	A
	the reporting limit	S	TTLC	1.5	1.5	5.0	1.5	5.0	mg	g/Kg

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

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.



[#] means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Telephone: 877-252-9262 Fax: 925-252-9269

Ceres Associates	Client Project ID: #CA1264; Oakland	Date Sampled: 11/29/06
424 First Street	Excavation	Date Received: 11/29/06
Benicia, CA 94510	Client Contact: Ryan Meyer	Date Extracted: 11/29/06-12/01/06
Bolliela, Olivioro	Client P.O.:	Date Analyzed 12/01/06
	Lead by ICP*	

Extraction method CA Title 22 Analytical methods SW6010C Work Order: 0611533

Extraction method CA I	IIIE 22		Alialytical methods 5 w 00 TOC work Ord								
Lab ID	Client ID	Matrix	Extraction	Lead	DF	% SS					
0611533-005A	S-1-4	S	STLC	1.5	1	N/A					

Reporting Limit for DF =1;	W	TTLC	NA	μg/L
ND means not detected at or above the reporting limit	S	STLC	0.2	mg/L

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

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

[#] means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Telephone: 877-252-9262 Fax: 925-252-9269

Ceres Associates	Client Project ID: #CA1264; Oakland Excavation	Date Sampled: 11/29/06
424 First Street	Excavation	Date Received: 11/29/06
Benicia, CA 94510	Client Contact: Ryan Meyer	Date Extracted: 11/29/06
2011011, 0.17 1010	Client P.O.:	Date Analyzed 11/29/06

$Diesel\ (C10\text{-}23)\ and\ Oil\ (C18+)\ Range\ Extractable\ Hydrocarbons\ as\ Diesel\ and\ Motor\ Oil*$

Extraction method: SW35	50C	Analytical me	thods: SW8015C	7	Vork Order: (0611533
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0611533-001A	III-9-N	S	ND	ND	1	111
0611533-002A	III-9-S	S	ND	ND	1	112
0611533-003A	III-8-E	S	ND	ND	1	108
0611533-004A	III-9-W	S	ND	ND	1	103
0611533-005A	S-1-4	S	33,n,g	9.8	1	116
0611533-006A	II-9-N	S	ND	ND	1	111
Reporting	g Limit for DF =1;	W	NA	NA	11:	g/L
ND means	s not detected at or he reporting limit	S	1.0	5.0		g/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.

[#] 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.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel (asphalt?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; o) mineral oil; p) see attached narrative.

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0611533

EPA Method SW8021B/8015	Cm E	extraction	SW503	V5030B BatchID: 24935 Spiked Sample ID: 06115							: 0611516-0	12A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD Acceptance Criteria (%)				%)
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)	ND	0.60	113	110	2.47	113	116	3.18	70 - 130	30	70 - 130	30
MTBE	ND	0.10	80.9	83.2	2.86	88.4	80.9	8.81	70 - 130	30	70 - 130	30
Benzene	ND	0.10	102	118	14.9	102	99	2.47	70 - 130	30	70 - 130	30
Toluene	ND	0.10	95.7	108	12.1	93.9	92.7	1.27	70 - 130	30	70 - 130	30
Ethylbenzene	ND	0.10	103	120	14.7	105	105	0	70 - 130	30	70 - 130	30
Xylenes	ND	0.30	103	113	9.23	100	100	0	70 - 130	30	70 - 130	30
%SS:	95	0.10	104	111	6.51	100	105	4.88	70 - 130	30	70 - 130	30

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

BATCH 24935 SUMMARY

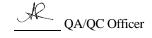
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0611533-001	11/29/06	11/29/06	11/29/06 6:16 PM	0611533-002	11/29/06	11/29/06	11/29/06 7:45 PM
0611533-003	11/29/06	11/29/06	11/29/06 8:44 PM	0611533-004	11/29/06	11/29/06	11/29/06 9:14 PM
0611533-005	11/29/06	11/29/06	1/30/06 11:52 AM	0611533-006	11/29/06	11/29/06	1/29/06 11·12 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.

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



QC SUMMARY REPORT FOR 6010C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0611533

EPA Method 60		Extraction SW3050B				atchID: 2	Spiked Sample ID 0611508-009A						
Analyte	Sample	Spiked	MS	MSD	MSD MS-MSD Spiked		LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
7	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	RPD LCS/LCSD I	
Cadmium	2.2	50	94	92.1	1.90	10	91.5	94.4	3.15	75 - 125	20	80 - 120	20
Chromium	150	50	120	101	4.63	10	90.4	94.1	4.01	75 - 125	20	80 - 120	20
Lead	610	50	NR	NR	NR	10	108	109	0.739	75 - 125	20	80 - 120	20
Nickel	240	50	118	97.2	3.46	10	93.9	96.1	2.26	75 - 125	20	80 - 120	20
Zinc	800	500	113	108	1.77	100	100	103	2.39	75 - 125	20	80 - 120	20
%SS:	101	250	106	104	2.09	250	104	106	1.43	70 - 130	20	70 - 130	20

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

BATCH 24927 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0611533-005A	11/29/0	06 11/29/06 1	1/30/06 10:01 AM				

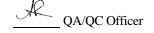
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = <math>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 applicable to this method.

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



 $1534 \ Willow \ Pass \ Road, \ Pittsburg, \ CA \ \ 94565\text{-}1701$

Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW6010C

QC Matrix: Solid WorkOrder: 0611533 W.O. Sample Matrix: Soil

EPA Method: SW6010C	Е	xtraction:	CA Title	22		BatchID: 24943			piked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	А	cceptan	ce Criteria (%	%)
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Lead	N/A	1	N/A	N/A	N/A	98.6	98	0.671	N/A	N/A	80 - 120	20

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

BATCH 24943 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0611533-005A	11/29/06	11/29/06	12/01/06 3:27 PM				

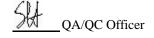
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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 applicable to this method.

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



QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0611533

EPA Method SW8015C	EPA Method SW8015C Extraction SW3550C								BatchID: 24933 Spiked Sample ID: 0611515-					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Ad	cceptan	ce Criteria (º	%)		
, and yes	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD		
TPH(d)	ND	20	102	104	2.03	97.2	95.3	1.99	70 - 130	30	70 - 130	30		
%SS:	106	50	105	107	2.00	101	99	2.24	70 - 130	30	70 - 130	30		

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

BATCH 24933 SUMMARY

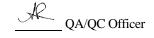
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0611533-001	11/29/06	11/29/06	11/29/06 3:21 PM	0611533-002	11/29/06	11/29/06	11/29/06 2:07 PM
0611533-003	11/29/06	11/29/06	11/29/06 5:44 PM	0611533-004	11/29/06	11/29/06	11/29/06 2:37 PM
0611533-005	11/29/06	11/29/06	11/29/06 7:10 PM	0611533-006	11/29/06	11/29/06	11/29/06 4:36 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.



Ceres Associates	Client Project ID: #1264; Oakland	Date Sampled: 11/30/06
424 First Street	Excavation	Date Received: 12/01/06
Benicia, CA 94510	Client Contact: Ryan Meyer	Date Reported: 12/07/06
Bellion, Cri 7 1510	Client P.O.:	Date Completed: 12/07/06

WorkOrder: 0612024

December 07, 2006

Dear Ryan:

Enclosed are:

- 1). the results of 3 analyzed samples from your #1264; Oakland Excavation project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Best regards,

Angela Rydelius, Lab Manager

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Report To:	an Meger	1	I	Bill To): (<u>'</u>	ew	1 4	130	Cia	14	5_			_	7 marysis request					_	-	Name and Address of the Owner, where the Owner, which is th	T	(Other	+	Comments						
Company: Ce	res Asso Street	ciate	\$										-	呂		(F)					ners												Filter
Benicio	51 (eec)	70		E-Mai	1.11	AN M	FVI	DO	2000	00	a 5 C	200	lar	8015) / MTBE	-	Total Petroleum Oil & Grease (1664) 5520 E/B&F)		-	<u> </u>		EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners			-									Samples
Tele: (707)	748 74			ax: (701	17	497	713	1	E.70	1(1)(10	Con	15)/	01	5520					s/C		_				6020)	020)					for Metals
Project #: 136		0 /(- /		rojec	t Nar	ne:	01	Hal	avel	P	v/a	Val	in	- 80	MUNT	4 3	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)		oclor		EPA 515 / 8151 (Acidic Cl Herbicides)			(SV)	10 / 6	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)					analysis: Yes / No
Project Location:		AND					UV	10 (1	00 + 0		n Cu	1		8021	2	4	ns (4	(HV	602 /	cides	; Ar	(SS	erbic	- F	(\$)	/ PN	09/	/ 601	20)				168/110
Sampler Signatur			~												2	reas	arbo	3021	PA	Pesti	NLY	icide	CI H	,00°	000	AHs	8.003	8.00	09/				
			PLING	T	92		MAI	rpi	v ·		MET			s (602		*	drocs	8/01	.Y (E	EPA 505/ 608 / 8081 (CI Pesticides)	's O	EPA 507 / 8141 (NP Pesticides)	die	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 /	7/2	Lead (200.7 / 200.8 / 6010 / 6020)				
(A) (A) (A)		DANIVE	T	LS	Type Containers	-	VALCE 1		A.	PF	RESI	ERV	ED	ıs Ga	TPH as Diesel (8015)	#	ı Hy	/ 80	ONI	8081	PCB	(NP	(Aci	/ 82	/ 82	/ 831	(200	(200	/8.0				
SAMPLE ID	LOCATION/ Field Point			ine	ntai									ТРН я) les	henn	leun	/ 601	rex	80	3082	8141	8151	/ 624	/ 625	SIM	etals	etals	/ 20				4
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	,			ပီ	ype	Water	Soil	Sludge	Other	ICE	HCL	HNO ₃	Other	BTEX &	ь На	Tar.	otal]	PA 5	TBE	PA 5	PA 6	PA 5	PA 5	PA 5	PA 5	PA 8	AM	UFT) paa				
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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

Prepared by: Melissa Valles

WorkOrder: 0612024 ClientID: CAB

			✓ EDF			-ax		Emai	I	□н	lardCopy	[Third	Party		
Report to: Ryan Meyer			eresassociates.co			Bill to: Lor						Req	uested [·]	TAT:	5	days
Ceres Associates TEL: (707) 748-3170 FAX: (707) 424 First Street ProjectNo: #1264; Oakland Excavation PO:					71	424	res Asso 4 First St nicia, CA	treet					e Recei e Printe			/2006 /2006
									_	1	(See lege				1	
Sample ID ClientSampII)	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
0612024-001 I-9-N		Soil	11/30/06		Α	Α	Α									
0612024-002 II-9-W		Soil	11/30/06		Α		Α									
0612024-003 III-9-W		Soil	11/30/06		Α		Α									
Test Legend:																
1 G-MBTEX_S 2	PREDF RE	EPORT	3 TF	PH(DM	O)_S		4						5			
6 7			8				9					•	10			
11 12																

Comments:

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

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Telephone: 877-252-9262 Fax: 925-252-9269

Ceres Associates	Client Project ID: #1264; Oakland Excavation	Date Sampled: 11/30/06
424 First Street		Date Received: 12/01/06
Benicia, CA 94510	Client Contact: Ryan Meyer	Date Extracted: 12/01/06
	Client P.O.:	Date Analyzed 12/02/06

	Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE* Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0612024													
Extraction	method SW5030B	Work Order	: 061	2024										
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS				
001A	I-9-N	S	ND	ND	ND	ND	ND	ND	1	110				
002A	II-9-W	S	ND	ND	ND	ND	ND	ND	1	104				
003A	III-9-W	S	ND	ND	ND	ND	ND	ND	1	104				
Rep	orting Limit for DF =1;	W	NA	NA	NA	NA	NA	NA	1	ug/L				
ND 1	ND means not detected at or above the reporting limit		1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg				

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

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) value derived using a client specified carbon range; o) results are reported on a dry weight basis; p) see attached narrative.

Ceres Associates	Client Project ID: #1264; Oakland Excavation	Date Sampled: 11/30/06
424 First Street	Excavation	Date Received: 12/01/06
Benicia, CA 94510	Client Contact: Ryan Meyer	Date Extracted: 12/01/06
Zemvin, erry iere	Client P.O.:	Date Analyzed 12/03/06

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil*

Extraction method: SW35	50C	Analytical me	Analytical methods: SW8015C Work Order: 0612024						
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS			
0612024-001A	I-9-N	S	ND	ND	1	105			
0612024-002A	II-9-W	S	ND	ND	1	106			
0612024-003A	III-9-W	S	ND,g	6.4	1	105			
	g Limit for DF =1;	W	NA	NA	ug/L				
ND means	s not detected at or	S	1.0	5.0	mo	r/K or			

^{*} water samples are reported in μ g/L, wipe samples in μ g/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 μ g/L.

1.0

mg/Kg

5.0

above the reporting limit

[#] 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.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel (asphalt?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; o) mineral oil; p) see attached narrative.

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0612024

EPA Method SW8021B/8015	Cm E	xtraction	SW503	0B		BatchII	D: 24989	5	Spiked Sample ID: 0611569-037A					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Ad	cceptan	ce Criteria (º	%)		
, mary to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD		
TPH(btex)	ND	0.60	107	112	4.17	105	110	4.95	70 - 130	30	70 - 130	30		
MTBE	ND	0.10	95.6	94.1	1.59	88.5	91.9	3.73	70 - 130	30	70 - 130	30		
Benzene	ND	0.10	93.1	92.5	0.666	105	90.5	15.1	70 - 130	30	70 - 130	30		
Toluene	ND	0.10	91.6	92.3	0.681	104	89.1	15.0	70 - 130	30	70 - 130	30		
Ethylbenzene	ND	0.10	105	107	1.78	120	103	14.7	70 - 130	30	70 - 130	30		
Xylenes	ND	0.30	103	103	0	117	103	12.1	70 - 130	30	70 - 130	30		
%SS:	104	0.10	97	98	1.03	105	97	7.92	70 - 130	30	70 - 130	30		

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

BATCH 24989 SUMMARY

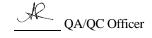
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0612024-001	11/30/06	12/01/06	2/02/06 11:00 AM	0612024-002	11/30/06	12/01/06	12/02/06 9:31 AM
0612024-003	11/30/06	12/01/06	12/02/06 9:02 AM				

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.



QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0612024

EPA Method SW8015C	Е	Extraction SW3550C				BatchI	D: 24997	5	Spiked Sample ID: 0612024-001A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Ad	cceptan	ce Criteria (º	%)	
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
TPH(d)	ND	20	105	105	0	104	107	2.49	70 - 130	30	70 - 130	30	
%SS:	105	50	107	105	1.39	100	102	1.81	70 - 130	30	70 - 130	30	

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

BATCH 24997 SUMMARY

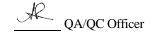
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0612024-001	11/30/06	12/01/06	2/03/06 11:35 AM	0612024-002	11/30/06	12/01/06	2/03/06 12:44 PM
0612024-003	11/30/06	12/01/06	12/03/06 1:52 PM				

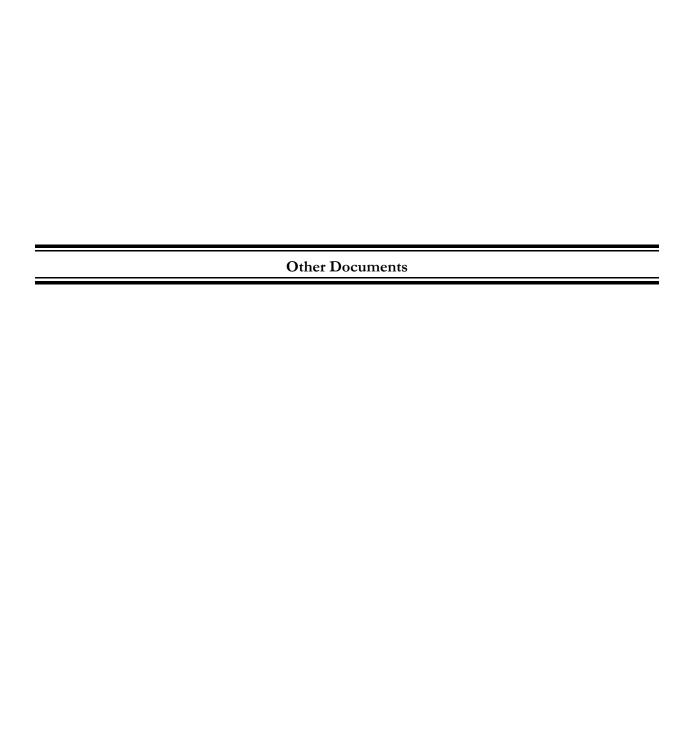
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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.





Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 06/20/2007 By jamesy

Permit Numbers: W2007-0721 Permits Valid from 06/25/2007 to 06/25/2007

Cell: 530-320-4074

Application Id:1182374730867City of Project Site:OaklandSite Location:2547 East 27th Street

Project Start Date: 06/25/2007 Completion Date:06/25/2007

Applicant: Ceres Associates - Ryan Meyer Phone: 707-748-3170

424 First Street, Benicia, CA 94510

Property Owner: Ted Dang Phone: --

1350 Franklin Street, Oakland, CA 94612

Client: ** same as Property Owner **
Contact: Ryan Meyer Phone: 707-748-3170

Total Due: \$200.00
Receipt Number: WR2007-0277 Total Amount Paid: \$200.00

Payer Name : William Kleiner Paid By: MC PAID IN FULL

Works Requesting Permits:

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 5 Boreholes

Driller: Vironex - Lic #: 705927 - Method: DP Work Total: \$200.00

Specifications

Permit Issued Dt Expire Dt # Hole Diam Max Depth

Number Boreholes

W2007- 06/20/2007 09/23/2007 5 2.75 in. 25.00 ft

0721

Specific Work Permit Conditions

- 1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
- 2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
- 3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
- 4. Applicant shall contact James Yoo for an inspection time at 510-670-6633 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
- 5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
- 6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits

Alameda County Public Works Agency - Water Resources Well Permit

required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.



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and a second	7. Transporter 2 Company Name	· winner	OS EFA ID NUITORI	å	b. Hansporter a Friend							
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POP	18. Transporter 2 Acknowledgement of Receipt of M	/aterials			ţ.							
CT-WE	Printed/Typed Name		Signature	- John Marie Comment		and the same of	Month L	Day Yea				
FAC	19. Discrepancy Indication Space			e f								
- J - J - >	20. Facility Owner or Operator: Certification of recei	pt of waste materials covere	d by this manifest except as	noted in Item 19		guarangka salikan mangkangu suwan o mu	g manufundu manunum manunum ga manufundi da di da di da di da di da di manunum manunum manunum manunum manunum	monanta i ancanal ny mananana mpalipi				
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	NON-HAZARDOUS 1. Generator's US EPA ID No. WASTE MANIFEST 1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of	ES)b.	# 38		
-	3. Generator's Name and Mailing Address TUMBYOW DEVELOPMENT 25-47 E37 B C OUNION CA 94 4. Generator's Phone (5) (5) 53 - 5 (8 Z	1612						CONTRACTOR OF THE PROPERTY OF
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			'RES	IDENTIAL (AND USE (mg/l	kg)		
		Gross Contamination			Hu	man Health		Groundwater Protection (Soil Leaching)
		Ceiling Value (Odors, etc.)	Urban Area		ubstitute t Exposure	Direct Exposure	Vapor Intrusion Into Buildings	Drinking Water Resource
CHEMICAL PARAMETER	Final ESL	Table H-2	Ecotoxicity Criteria	Value	Basis	Table K-1	Table E-1b	Table G
ACENAPHTHENE	1.6E+01	1.0E+03	•		Ì	6.0E+02	1.3E+02	1.6E+01
ACENAPHTHYLENE	1.3E+01	5.0E+02	-	4.4E+02	Fluorene	4.4E+02	(Use soil gas)	1.3E+01
ACETONE	5.0E-01	5.0E+02	-			2.7E+03	1.4E+03	5.0E-01
ALDRIN	3.2E-02	1.0E+03	3.5E-01		†	3.2E-02		5.0E+00
ANTHRACENE	2.8E+00	5.0E+02	4.0E+01			3.5E+03	6.1E+00	2.8E+00
ANTIMONY	6.1E+00	1.0E+03	2.0E+01			6.1E+00		
ARSENIC	5.5E+00	1.0E+03	2.0E+01	5.5	Background	5.5E+00		
BARIUM	7.5E+02	1.0E+03	7.5E+02	<u> </u>	<u> </u>	1.0E+03		
BENZENE	4.4E-02	5.0E+02	2.5E+01			1.8E-01	1.8E-01	4.4E-02
BENZO(a)ANTHRACENE	3.8E-01	5.0E+02	4.0E+01			3.8E-01		1.2E+01
BENZO(b)FLUORANTHENE	3.8E-01	5.0E+02	-			3.8E-01		4.6E+01
BENZO(k)FLUORANTHENE	3.8E-01	5.0E+02	4.0E+01			3.8E-01		2.7E+00
BENZO(g,h,i)PERYLENE	2.7E+01	5.0E+02	4.0E+01	4.6E+02	Fluoranthene	4.6E+02		2.7E+01
BENZO(a)PYRENE	3.8E-02	5.0E+02	4.0E+01			3.8E-02		1.3E+02
BERYLLIUM	4.0E+00	1.0E+03	4.0E+00			2.9E+01		
BIPHENYL, 1,1-	6.5E-01	5.0E+02	-			4.9E+02	(Use soil gas)	6.5E-01
BIS(2-CHLOROETHYL)ETHER	1.8E-04	5.0E+02	-			8.5E-02	3.7E-03	1.8E-04
BIS(2-CHLOROISOPROPYL)ETHER	5.4E-03	5.0E+02	-	- · · · · · · · · · · · · · · · · · · ·		2.6E+00	(Use soil gas)	5.4E-03
BIS(2-ETHYLHEXYL)PHTHALATE	6.6E+01	5.0E+02	-			1.6E+02	,	6.6E+01
BORON	1.6E+00	no criteria	1.6E+00			2.4E+03		
BROMODICHLOROMETHANE	1.4E-02	1.0E+03	-	-		3.8E-01	1.4E-02	1.9E+00
BROMOFORM	2.2E+00	5.0E+02	-			6.1E+01		2.2E+00
BROMOMETHANE	2.2E-01	5.0E+02	-			7.5E-01	2.2E-01	3.9E-01
CADMIUM	1.7E+00	1.0E+03	1.2E+01			1.7E+00		
CARBON TETRACHLORIDE	1.2E-02	5.0E+02	-		1	8.9E-02	1.2E-02	1.1E-01
CHLORDANE	4.4E-01	1.0E+03	-		· · · · · · · · · · · · · · · · · · ·	4.4E-01		1.5E+01
CHLOROANILINE, p-	5.3E-02	1.0E+03	-			4.9E+01		5.3E-02
CHLOROBENZENE	1.5E+00	5.0E+02	3.0E+01		h	2.9E+01	2.7E+00	1.5E+00
CHLOROETHANE	6.3E-01	5.0E+02	-		· · · · · · · · · · · · · · · · · · ·	3.0E+00	6.3E-01	8.5E-01
CHLOROFORM	8.8E-01	5.0E+02	-		1	8.8E-01	1.4E+02	2.1E+00
CHLOROMETHANE	7.0E-02	1.0E+02	•			3.0E-01	7.0E-02	2.1E-01
CHLOROPHENOL, 2-	1.2E-02	1.0E+02	1.0E+01			1.2E+01	7.8E-01	1.2E-02
CHROMIUM (Total)	5.8E+01	1.0E+03		58	Background	5.8E+01		
CHROMIUM III	7.5E+02	1.0E+03	7.5E+02			2.3E+04		
CHROMIUM VI	1.8E+00	1.0E+03	8.0E+00			1.8E+00		
CHRYSENE	3.8E+00	1.0E+03	4.0E+01			3.8E+00		1.9E+01
COBALT	1.0E+01	1.0E+03	4.0E+01			1.0E+01		
COPPER	2.3E+02	1.0E+03	2.3E+02			6.1E+02		

TABLE A-1. ¹SHALLOW SOIL SCREENING LEVELS (≤3m bgs) ²RESIDENTIAL LAND USE

			'RES	IDENTIAL L	AND USE (mo	g/kg)		
		Gross Contamination			Н	uman Health		Groundwater Protection (Soil Leaching)
CHENICAL DADAMETER		Ceiling Value (Odors, etc.)	Urban Area		bstitute Exposure	Direct Exposure	Vapor Intrusion Into Buildings	Drinking Water Resource
CHEMICAL PARAMETER	Final ESL	Table H-2	Ecotoxicity Criteria	Value	Basis	Table K-1	Table E-1b	Table G
CYANIDE (Free)	3.6E-03	1.0E+02	•			2.4E+02		3.6E-03
DIBENZO(a,h)ANTHTRACENE	1.1E-01	5.0E+02	-			1.1E-01		9.9E+00
DIBROMOCHLOROMETHANE	1.9E-02	1.0E+02	_			9.4E-01	1.9E-02	8.3E+00
1,2-DIBROMO-3-CHLOROPROPANE	4.5E-03	5.0E+02				2.7E-02	(Use soil gas)	4.5E-03
DIBROMOETHANE, 1,2-	3.3E-04	5.0E+02	-			8.7E-02	7.3E-03	3.3E-04
DICHLOROBENZENE, 1,2-	1.1E+00	6.0E+02	3.0E+01			2.1E+02	8.9E+00	1.1E+00
DICHLOROBENZENE, 1,3-	7.4E+00	1.0E+02	3.0E+01		·	9.9E+01	(Use soil gas)	7.4E+00
DICHLOROBENZENE, 1,4-	4.6E-02	5.0E+02	3.0E+01			2.1E+00	4.6E-02	5.9E-01
DICHLOROBENZIDINE, 3,3-	7.7E-03	5.0E+02	•			4.0E-01		7.7E-03
DICHLORODIPHENYLDICHLOROETHANE (DDD)	2.3E+00	5.0E+02	-		·	2.3E+00		7.5E+02
DICHLORODIPHENYLDICHLOROETHYLENE (DDE)	1.6E+00	5.0E+02	4.0E+00			1.6E+00		1.1E+03
DICHLORODIPHENYLTRICHLOROETHANE (DDT)	1.6E+00	1.0E+03	4.0E+00			1.6E+00		4.3E+00
DICHLOROETHANE, 1,1-	2.0E-01	5.0E+02	-			2.7E+00	3.2E-01	2.0E-01
DICHLOROETHANE, 1,2-	4.5E-03	5.0E+02	6.0E+01			3.4E-01	2.5E-02	4.5E-03
DICHLOROETHYLENE, 1,1-	1.0E+00	5.0E+02	-			2.4E+01	8.9E+00	1.0E+00
DICHLOROETHYLENE, Cis 1,2-	1.9E-01	1.0E+02	-			8.4E+00	1.6E+00	1.9E-01
DICHLOROETHYLENE, Trans 1,2-	6.7E-01	5.0E+02	-			1.4E+01	3.1E+00	6.7E-01
DICHLOROPHENOL, 2,4-	3.0E-01	5.0E+02	1.0E+01			3.7E+01	5.12.55	3.0E-01
DICHLOROPROPANE, 1,2-	5.1E-02	1.0E+02	-			6.3E-01	5.1E-02	1.2E-01
DICHLOROPROPENE, 1,3-	3.3E-02	5.0E+02			-	2.1E-01	3.3E-02	5.9E-02
DIELDRIN	2.3E-03	1.0E+03	4.0E+00			3.4E-02	0.02.02	2.3E-03
DIETHYLPHTHALATE	3.5E-02	5.0E+02	-			9.8E+03		3.5E-02
DIMETHYLPHTHALATE	3.5E-02	5.0E+02	•			1.2E+05		3.5E-02
DIMETHYLPHENOL, 2,4-	6.7E-01	1.0E+02	_			1.4E+02	1.1E+02	6.7E-01
DINITROPHENOL, 2,4-	4.0E-02	5.0E+02	-		-	2.4E+01	1.12.02	4.0E-02
DINITROTOLUENE, 2,4-	8.5E-04	5.0E+02			·	1.6E+00		8.5E-04
1,4 DIOXANE	1.8E-03	5.0E+02				1.8E+01		1.8E-03
DIOXIN (2,3,7,8-TCDD)	4.6E-06	no criteria				4.6E-06		1.0E-03
ENDOSULFAN	4.6E-03	5.0E+02			· · · · · · · · · · · · · · · · · ·	7.3E+01		4.6E-03
ENDRIN	6.5E-04	5.0E+02	6.0E-02			4.1E+00		
ETHANOL	4.5E+01	5.0E+02	0.02.02			4.1E+00	(Lleo soil gas)	6.5E-04
ETHYLBENZENE	3.3E+00	4.0E+02				4.0E+02	(Use soil gas) 3.9E+02	4.5E+01
FLUORANTHENE	4.0E+01	5.0E+02	4.0E+01			4.6E+02	3.95702	3.3E+00
LUORENE	8.9E+00	5.0E+02		 +		4.6E+02 4.4E+02	1.65.02	6.0E+01
HEPTACHLOR	1.4E-02	1.0E+03		+		1.3E-01	1.6E+02	8.9E+00
HEPTACHLOR EPOXIDE	1.5E-02	1.0E+03				1.3E-01 8.8E-02		1.4E-02
HEXACHLOROBENZENE	2.7E-01	5.0E+02	3.0E+01			2.7E-01		1.5E-02
HEXACHLOROBUTADIENE	1.0E+00	5.0E+02	3.02.701			3.7E+00		7.9E+02 1.0E+00

			'RES	IDENTIAL L	AND USE (mg	/kg)		- · · · · · · · · · · · · · · · · · · ·
	,	Gross Contamination			Hu	ıman Health	· · · · · · · · · · · · · · · · · · ·	Groundwater Protection (Soil Leaching)
		Ceiling Value (Odors, etc.)	Urban Area		bstitute t Exposure	Direct Exposure	Vapor Intrusion Into Buildings	Drinking Water Resource
CHEMICAL PARAMETER	Final ESL	Table H-2	Ecotoxicity Criteria	Value Basis		Table K-1 Table E-1b	Table G	
HEXACHLOROCYCLOHEXANE (gamma) LINDANE	4.9E-02	5.0E+02	2.0E+00			5.0E-01		4.9E-02
HEXACHLOROETHANE	2.4E+00	5.0E+02	-			1.2E+01		2.4E+00
INDENO(1,2,3-cd)PYRENE	3.8E-01	5.0E+02	4.0E+01			3.8E-01		7.7E+00
LEAD	1.5E+02	1.0E+03	2.0E+02			1.50E+02		
MERCURY	3.7E+00	5.0E+02	1.0E+01			3.7E+00	(Use soil gas)	
METHOXYCHLOR	1.9E+01	5.0E+02	-			6.9E+01	(000000003007	1.9E+01
METHYLENE CHLORIDE	7.7E-02	5.0E+02	-			4.1E+00	5.2E-01	7.7E-02
METHYL ETHYL KETONE	3.9E+00	5.0E+02	-			1.4E+03	4.9E+02	3.9E+00
METHYL ISOBUTYL KETONE	2.8E+00	1.0E+02			***	1.5E+02	1.2E+02	2.8E+00
METHYL MERCURY	1.2E+00	1.0E+02	1.0E+01			1.2E+00		
METHYLNAPHTHALENE (total 1- & 2-)	2.5E-01	5.0E+02	· -			2.6E+02	1.1E+02	2.5E-01
METHYL TERT BUTYL ETHER	2.3E-02	1.0E+02				3.0E+01	2.0E+00	2.3E-02
MOLYBDENUM	4.0E+01	1.0E+03	4.0E+01			7.6E+01	2.02.00	2.02.02
NAPHTHALENE	4.6E-01	5.0E+02	4.0E+01		**	1.5E+00	4.6E-01	3.4E+00
NICKEL	1.5E+02	1.0E+03	1.5E+02	*		3.1E+02	1.0201	0.42.00
PENTACHLOROPHENOL	4.4E+00	5.0E+02	5.0E+00			4.4E+00		5.3E+00
PERCHLORATE	1.0E-02	1.0E+03	•			1.5E+00		1.0E-02
PHENANTHRENE	1.1E+01	5.0E+02	4.0E+01	4.4E+02	Fluorene	4.4E+02	(Use soil gas)	1.1E+01
PHENOL	7.6E-02	5.0E+02	4.0E+01			3.7E+03	(000 0011 gab)	7.6E-02
POLYCHLORINATED BIPHENYLS (PCBs)	2.2E-01	5.0E+02	-			2.2E-01		6.3E+00
PYRENE	8.5E+01	5.0E+02	-			3.6E+02	8.5E+01	8.5E+01
SELENIUM	1.0E+01	1.0E+03	1.0E+01			7.6E+01	0.0L.01	0.32701
SILVER	2.0E+01	1.0E+03	2.0E+01			7.6E+01		
STYRENE	1.5E+00	5.0E+02	-			8.1E+02	4.5E+02	1.5E+00
tert-BUTYL ALCOHOL	7.3E-02	1.0E+02				5.7E+01	(Use soil gas)	7.3E-02
TETRACHLOROETHANE, 1,1,1,2-	2.4E-02	1.0E+02	-	-		3.0E+00	(Use soil gas)	2.4E-02
TETRACHLOROETHANE, 1,1,2,2-	9.1E-03	5.0E+02	-			3.7E-01	9.1E-03	1.8E-02
TETRACHLOROETHYLENE	8.7E-02	2.3E+02				4.3E-01	8.7E-02	7.0E-01
THALLIUM	1.0E+00	1.0E+03				1.0E+00	0.7L-02	7.0E-01
TOLUENE	2.9E+00	5.0E+02	-			1.0E+02	1.3E+02	2.9E+00
TOXAPHENE	4.2E-04	5.0E+02	-			4.6E-01	1.32.402	4.2E-04
TPH (gasolines)	1.0E+02	1.0E+02	-			4.0E+02	(Use soil gas)	1.0E+02
TPH (middle distillates)	1.0E+02	1.0E+02			_	4.0E+02	(Use soil gas)	1.0E+02
TPH (residual fuels)	5.0E+02	5.0E+02				1.0E+03	(USE SUII gas)	1.0E+02 1.0E+03
FRICHLOROBENZENE, 1,2,4-	3.8E-01	5.0E+02	3.0E+01			1.0E+03	3.8E-01	7.6E+00
FRICHLOROETHANE, 1,1,1-	7.8E+00	5.0E+02	5.5E.101			3.8E+02	9.8E+01	7.8E+00
FRICHLOROETHANE, 1,1,2-	3.2E-02	1.0E+02				6.8E-01	9.8E+01 3.2E-02	7.8E+00 7.0E-02
FRICHLOROETHYLENE	2.6E-01	5.0E+02	6.0E+01			2.9E+00	3.2E-02 2.6E-01	7.0E-02 4.6E-01

(potentially impacted groundwater IS a current or potential drinking water resource)

			²RESI	DENTIAL L	AND USE (mg/	kg)		
		Gross Contamination			Hu	man Health		Groundwater Protection (Soil Leaching)
		Ceiling Value (Odors, etc.)	Urban Area		ibstitute t Exposure	Direct Exposure	Drinking Water Resource	
CHEMICAL PARAMETER	Final ESL Table H-2 Ecotoxicity Criteria Value Basis Table K-1 Table E-1b						Table G	
TRICHLOROPHENOL, 2,4,5-	1.8E-01	1.0E+02	1.0E+01		_	5.0E+02	2.3E+01	1.8E-01
TRICHLOROPHENOL, 2,4,6-	1.7E-01	5.0E+02	1.0E+01			6.9E+00		1.7E-01
VANADIUM	1.1E+02	1.0E+03	2.0E+02			1.1E+02		
VINYL CHLORIDE	6.7E-03	5.0E+02	6.0E+01			2.5E-02	6.7E-03	8.5E-02
XYLENES	2.3E+00	4.2E+02	-		m-xylenes	3.3E+02	3.1E+02	2.3E+00
ZINC	6.0E+02	1.0E+03	6.0E+02			4.6E+03		
Electrical Conductivity (mS/cm, USEPA Method 120.1 MOD)	2.0	<u> </u>	-			-	_	
Sodium Adsorption Ratio	5.0		-			-	-	-

Red: >25% change in comparison to July 2003 ESL. Ethanol added to February 2005 ESLs

Notes:

1. Shallow soils defined as soils situated <3 meters below ground surface.

2. "Residential Land Use" screening levels generally considered adequate for other sensitive uses (e.g., day-care centers, hospitals, etc.).

Final Environmental Screening Level is lowest of ceiling value (nuisance concerns etc.), ecotoxicity, direct-exposure, indoor-air impact, and leaching screening levels.
Assumes soil pH 5.0 to 9.0.

Soil data should be reported on dry-weight basis (see Section 6.2).

TPH -Total Petroleum Hydrocarbons. See text for discussion of different TPH categories.

Background As and total Cr based on mean soil values presented in LBNL 2002 (refer to Section 3.2.4 and Volume 1, Figure 4).

			²RE	SIDENTIAL LA	ND USE (mg/kg)	
		Gross Contamination			uman Health		Groundwater Protection (Soil Leaching)
	ľ	Ceiling Value (Odors, etc.)		ubstitute t Exposure	Direct Exposure	Vapor Intrusion Into Buildings	Drinking Water Resource
CHEMICAL PARAMETER	Final ESL	Table H-3	Value	Basis	Table K-3	Table E-1b	Table G
ACENAPHTHENE	1.6E+01	2.5E+03			2.1E+04	1.3E+02	
ACENAPHTHYLENE	1.3E+01	1.0E+03	1.5E+04	Fluorene	1.5E+04	(Use soil gas)	1.6E+01 1.3E+01
ACETONE	5.0E-01	1.0E+03		1.00.0.0	1.0E+05	1.4E+03	5.0E-01
ALDRIN	1.5E+00	2.5E+03			1.5E+00	1.42103	
ANTHRACENE	2.8E+00	1.0E+03			1.2E+05	6.1E+00	5.0E+00
ANTIMONY	2.8E+02	2.5E+03			2.8E+02	0. IE+00	2.8E+00
ARSENIC	5.5E+00	2.5E+03	5.5E+00	Background	5.5E+00		
BARIUM	2.5E+03	2.5E+03	3.02 00	Daonground	2.5E+03		
BENZENE	4.4E-02	1.0E+03		·	1.6E+01	1.8E-01	4.5.00
BENZO(a)ANTHRACENE	1.2E+01	1.0E+03			1.5E+01	1.0E-U1	4.4E-02
BENZO(b)FLUORANTHENE	1.5E+01	1.0E+03			1.5E+01		1.2E+01
BENZO(k)FLUORANTHENE	2.7E+00	1.0E+03			1.5E+01		4.6E+01
BENZO(g,h,i)PERYLENE	2.7E+01	1.0E+03			1.4E+04		2.7E+00
BENZO(a)PYRENE	1.5E+00	1.0E+03			1.5E+00		2.7E+01
BERYLLIUM	3.6E+01	2.5E+03			3.6E+01		1.3E+02
BIPHENYL, 1,1-	6.5E-01	1.0E+03				(1)	
BIS(2-CHLOROETHYL)ETHER	1.8E-04	1.0E+03			1.7E+04 5.2E+00	(Use soil gas)	6.5E-01
BIS(2-CHLOROISOPROPYL)ETHER	5.4E-03	7.9E+02				3.7E-03	1.8E-04
BIS(2-ETHYLHEXYL)PHTHALATE	6.6E+01	1.0E+03			1.7E+02	(Use soil gas)	5.4E-03
BORON	4.6E+04	no criteria			6.4E+03		6.6E+01
BROMODICHLOROMETHANE	1.4E-02	2.5E+03			4.6E+04		
ROMOFORM	2.2E+00	1.0E+03			3.2E+01	1.4E-02	1.9E+00
ROMOMETHANE	2.2E-01	1.0E+03			2.6E+03		2.2E+00
ADMIUM	3.8E+01	2.5E+03			3.0E+01	2.2E-01	3.9E-01
ARBON TETRACHLORIDE	1.2E-02	1.0E+03			3.8E+01		
CHLORDANE	1.5E+01	2.5E+03			8.2E+00	1.2E-02	1.1E-01
HLOROANILINE, p-	5.3E-02	2.5E+03			2.1E+01		1.5E+01
HLOROBENZENE	1.5E+00	6.8E+02			1.6E+03		5.3E-02
HLOROETHANE	6.3E-01	1.0E+03			6.8E+02	2.7E+00	1.5E+00
HLOROFORM	2.1E+00	1.0E+03			2.8E+02	6.3E-01	8.5E-01
HLOROMETHANE	7.0E-02				7.8E+01	1.4E+02	2.1E+00
HLOROPHENOL, 2-	1.2E-02	5.0E+02	——— <u> </u>		2.8E+01	7.0E-02	2.1E-01
HROMIUM (Total)	5.8E+01	5.0E+02 2.5E+03	 _+		4.7E+02	7.8E-01	1.2E-02
HROMIUM III	2.5E+03		58	Background	5.8E+01		
HROMIUM VI		2.5E+03			1.1E+06		
HRYSENE	1.8E+00	2.5E+03			1.8E+00		
OBALT	1.9E+01	2.5E+03			1.5E+02		1.9E+01
OPPER	1.0E+01	2.5E+03			1.0E+01		
	2.5E+03	2.5E+03	i	T	2.8E+04		

	ĺ		²RES	SIDENTIAL LA	ND USE (mg/kg)		
		Gross Contamination	0		uman Health		Groundwater Protection (Soil Leaching)
		Ceiling Value (Odors, etc.)		bstitute Exposure	Direct Exposure	Vapor Intrusion Into Buildings	Drinking Water Resource
CHEMICAL PARAMETER	Final ESL	Table H-3	Value	Basis	Table K-3	Table E-1b	Table G
CYANIDE (Free)	3.6E-03	5.0E+02	Value	Dasis	8.2E+03	Table C-1b	3.6E-03
DIBENZO(a,h)ANTHTRACENE	4.3E+00	1.0E+03			4.3E+00	 	9.9E+00
DIBROMOCHLOROMETHANE	1.9E-02	5.0E+02			7.3E+01	1.9E-02	8.3E+00
1,2-DIBROMO-3-CHLOROPROPANE	4.5E-02	1.0E+03			1.7E+00	(Use soil gas)	4.5E-03
DIBROMOETHANE, 1,2-	3.3E-04	1.0E+03			4.6E+00	7.3E-03	3.3E-04
DICHLOROBENZENE, 1,2-	1.1E+00	6.0E+02			6.0E+02	8.9E+00	1.1E+00
DICHLOROBENZENE, 1,3-	7.4E+00	6.0E+02	-		6.0E+02	(Use soil gas)	7.4E+00
DICHLOROBENZENE, 1,4-	4.6E-02	1.0E+03			1.9E+02	4.6E-02	5.9E-01
DICHLOROBENZIDINE, 3,3-	7.7E-03	1.0E+03			1.7E+01	4.0L-02	7.7E-03
DICHLORODIPHENYLDICHLOROETHANE (DDD)	1.1E+02	1.0E+03			1.1E+02		7.5E+02
DICHLORODIPHENYLDICHLOROETHYLENE (DDE)	7.6E+01	1.0E+03			7.6E+01		1.1E+03
DICHLORODIPHENYLTRICHLOROETHANE (DDT)	4.3E+00	2.5E+03			7.6E+01		4.3E+00
DICHLOROETHANE, 1,1-	2.0E-01	1.0E+03			2.5E+02	3.2E-01	2.0E-01
DICHLOROETHANE, 1,2-	4.5E-03	1.0E+03			3.1E+01	2.5E-02	4.5E-03
DICHLOROETHYLENE, 1,1-	1.0E+00	1.0E+03			9.8E+02	8.9E+00	1.0E+00
DICHLOROETHYLENE, Cis 1,2-	1.9E-01	5.0E+02			3.4E+02	1.6E+00	1.9E-01
DICHLOROETHYLENE, Trans 1,2-	6.7E-01	1.0E+03			5.5E+02	3.1E+00	6.7E-01
DICHLOROPHENOL, 2,4-	3.0E-01	1.0E+03			1.2E+03		3.0E-01
DICHLOROPROPANE, 1,2-	5.1E-02	5.0E+02			4.5E+01	5.1E-02	1.2E-01
DICHLOROPROPENE, 1,3-	3.3E-02	1.0E+03			1.9E+01	3.3E-02	5.9E-02
DIELDRIN	2.3E-03	2.5E+03			1.6E+00		2.3E-03
DIETHYLPHTHALATE	3.5E-02	1.0E+03			3.2E+05		3.5E-02
DIMETHYLPHTHALATE	3.5E-02	1.0E+03			4.0E+06		3.5E-02
DIMETHYLPHENOL, 2,4-	6.7E-01	5.0E+02			4.9E+03	1.1E+02	6.7E-01
DINITROPHENOL, 2,4-	4.0E-02	1.0E+03			8.0E+02		4.0E-02
DINITROTOLUENE, 2,4-	8.5E-04	1.0E+03			6.4E+01		8.5E-04
1,4 DIOXANE	1.8E-03	1.0E+03			7.4E+02		1.8E-03
DIOXIN (2,3,7,8-TCDD)	2.4E-04	no criteria			2.4E-04		
ENDOSULFAN	4.6E-03	1.0E+03			2.4E+03		4.6E-03
ENDRIN	6.5E-04	1.0E+03			1.6E+02		6.5E-04
ETHANOL	4.5E+01	1.0E+03					4.5E+01
ETHYLBENZENE	3.3E+00	4.0E+02			4.0E+02	3.9E+02	3.3E+00
FLUORANTHENE	6.0E+01	1.0E+03			1.4E+04		6.0E+01
FLUORENE	8.9E+00	1.0E+03			1.5E+04	1.6E+02	8.9E+00
HEPTACHLOR	1.4E-02	2.5E+03			6.3E+00		1.4E-02
HEPTACHLOR EPOXIDE	1.5E-02	2.5E+03			3.6E+00		1.5E-02
HEXACHLOROBENZENE	1.1E+01	1.0E+03			1.1E+01		7.9E+02
HEXACHLOROBUTADIENE	1.0E+00	1.0E+03			1.2E+02		1.0E+00

1	<u> </u>	²RESIDENTIAL LAND USE (mg/kg)											
		Gross Contamination		Hui	man Health		Groundwater Protection (Soil Leaching)						
		Ceiling Value		bstitute	Direct	Vapor Intrusion	Drinking Water						
		(Odors, etc.)	-	Exposure	Exposure	Into Buildings	Resource						
CHEMICAL PARAMETER	Final ESL	Table H-3	Value	Basis	Table K-3	Table E-1b	Table G						
HEXACHLOROCYCLOHEXANE (gamma) LINDANE	4.9E-02	1.0E+03			2.4E+01		4.9E-02						
HEXACHLOROETHANE	2.4E+00	1.0E+03			4.0E+02		2.4E+00						
INDENO(1,2,3-cd)PYRENE	7.7E+00	1.0E+03			1.5E+01		7.7E+00						
LEAD	7.5E+02	2.5E+03	7.5E+02	occupational	7.5E+02								
MERCURY	9.8E+01	1.0E+03			9.8E+01	(Use soil gas)							
METHOXYCHLOR	1.9E+01	1.0E+03			2.6E+03		1.9E+01						
METHYLENE CHLORIDE	7.7E-02	1.0E+03			3.4E+02	5.2E-01	7.7E-02						
METHYL ETHYL KETONE	3.9E+00	1.0E+03			3.4E+04	4.9E+02	3.9E+00						
METHYL ISOBUTYL KETONE	2.8E+00	5.0E+02			6.0E+03	1.2E+02	2.8E+00						
METHYL MERCURY	4.1E+01	5.0E+02			4.1E+01								
METHYLNAPHTHALENE (total 1- & 2-)	2.5E-01	1.0E+03	9.4E+03	Fluorene	9.4E+03	1.1E+02	2.5E-01						
METHYL TERT BUTYL ETHER	2.3E-02	5.0E+02			2.5E+03	2.0E+00	2.3E-02						
MOLYBDENUM	2.5E+03	2.5E+03			3.6E+03								
NAPHTHALENE	4.6E-01	1.0E+03			9.7E+01	4.6E-01	3.4E+00						
NICKEL	1.0E+03	2.5E+03			1.0E+03								
PENTACHLOROPHENOL	5.3E+00	1.0E+03			1.5E+02		5.3E+00						
PERCHLORATE	1.0E-02	2.5E+03			7.1E+01		1.0E-02						
PHENANTHRENE	1.1E+01	1.0E+03	1.5E+04	Fluorene	1.5E+04	(Use soil gas)	1.1E+01						
PHENOL	7.6E-02	1.0E+03			1.2E+05		7.6E-02						
POLYCHLORINATED BIPHENYLS (PCBs)	6.3E+00	1.0E+03			6.7E+00		6.3E+00						
PYRENE	8.5E+01	1.0E+03			1.2E+04	8.5E+01	8.5E+01						
SELENIUM	2.5E+03	2.5E+03			3.4E+03								
SILVER	2.5E+03	2.5E+03			3.6E+03								
STYRENE	1.5E+00	1.0E+03			1.5E+03	4.5E+02	1.5E+00						
tert-BUTYL ALCOHOL	7.3E-02	5.0E+02			3.7E+03	(Use soil gas)	7.3E-02						
TETRACHLOROETHANE, 1,1,1,2-	2.4E-02	5.0E+02			2.4E+02	(Use soil gas)	2.4E-02						
TETRACHLOROETHANE, 1,1,2,2-	9.1E-03	1.0E+03			2.8E+01	9.1E-03	1.8E-02						
TETRACHLOROETHYLENE	8.7E-02	2.3E+02			2.5E+01	8.7E-02	7.0E-01						
THALLIUM	4.7E+01	2.5E+03			4.7E+01								
TOLUENE	2.9E+00	6.5E+02			6.5E+02	1.3E+02	2.9E+00						
TOXAPHENE	4.2E-04	1.0E+03			2.2E+01		4.2E-04						
TPH (gasolines)	1.0E+02	5.0E+03			6.0E+03	(Use soil gas)	1.0E+02						
TPH (middle distillates)	1.0E+02	5.0E+03			6.0E+03	(Use soil gas)	1.0E+02						
TPH (residual fuels)	1.0E+03	5.0E+03			1.5E+04		1.0E+03						
TRICHLOROBENZENE, 1,2,4-	3.8E-01	1.0E+03			4.8E+02	3.8E-01	7.6E+00						
TRICHLOROETHANE, 1,1,1-	7.8E+00	1.0E+03			1.2E+03	9.8E+01	7.8E+00						
TRICHLOROETHANE, 1,1,2-	3.2E-02	5.0E+02			5.7E+01	3.2E-02	7.0E-02						
TRICHLOROETHYLENE	2.6E-01	1.0E+03			1.2E+02	2.6E-01	4.6E-01						

(potentially impacted groundwater IS a current or potential drinking water resource)

			'RE	SIDENTIAL LAN	D USE (mg/kg)		
		Gross Contamination			man Health		Groundwater Protection (Soil Leaching)
		Ceiling Value (Odors, etc.)	Substitute Direct Exposure		Direct Exposure	Vapor Intrusion Into Buildings	Drinking Water Resource
CHEMICAL PARAMETER	Final ESL	Table H-3	Value	Basis	Table K-3	Table E-1b	Table G
TRICHLOROPHENOL, 2,4,5-	1.8E-01	5.0E+02		 	1.9E+04	2.3E+01	
TRICHLOROPHENOL, 2,4,6-	1.7E-01	1.0E+03		 	2.9E+02	2.35701	1.8E-01
VANADIÚM	2.5E+03	2.5E+03		 	5.0E+03	<u> </u>	1.7E-01
VINYL CHLORIDE	6.7E-03	1.0E+03		 			
XYLENES	2.3E+00	4.2E+02			2.4E+00	6.7E-03	8.5E-02
ZINC				m-xylene RfDs	4.2E+02	3.1E+02	2.3E+00
Electrical Conductivity	2.5E+03	2.5E+03			2.1E+05		
(mS/cm, USEPA Method 120.1 MOD)	not applicable	-					
Sodium Adsorption Ratio Red: >25% change in comparison to July 2003 F	not applcable	-					<u> </u>

Red: >25% change in comparison to July 2003 ESL. Ethanol added to February 2005 ESLs

Notes

- 1. Deep soils defined as soils situated >3 meters below ground surface (or shallower with institutional controls).
- 2. "Residential Land Use" screening levels generally considered adequate for other sensitive uses (e.g., day-care centers, hospitals, etc.).

Final Environmental Screening Level is lowest of ceiling values (nuisance concems etc.), direct-exposure, indoor-air impact, and leaching screening levels.

Assumes soil pH 5.0 to 11.

Soil data should be reported on dry-weight basis (see Section 6.2).

TPH -Total Petroleum Hydrocarbons. See text for discussion of different TPH categories.

Background total Cr based on mean soil values presented in LBNL 2002 (refer to Section 3.2.4 and Volume 1, Figure 4).

		•		idential d Use		al/Industrial d Use
			Vadose-Zo	ne Soil Type	Vadose-Zo	ne Soil Type
	Phy	sical	² High Permeability	³ Low/Moderate Permeability	² High Permeability	Low/Moderate Permeability
CHEMICAL PARAMETER		ate	(ug/L)	(ug/L)	(ug/L)	(ug/L)
#ACENAPHTHENE	V	S	4.2E+03	4.2E+03	4.2E+03	4.2E+03
ACENAPHTHYLENE	V	s	(Use soil gas)	(Use soil gas)	(Use soil gas)	(Use soil gas)
#ACETONE	V	L	5.3E+07	4.6E+07	1.5E+08	1.3E+08
ALDRIN	NV	s				
#ANTHRACENE	V	S	4.3E+01	4.3E+01	4.3E+01	4.3E+01
ANTIMONY	NV	s				
ARSENIC	NV	S				
BARIUM	NV	S				
#BENZENE	V	L	5.4E+02	1.9E+03	1.8E+03	6.4E+03
BENZO(a)ANTHRACENE	NV	S				
BENZO(b)FLUORANTHENE	NV	s				
BENZO(k)FLUORANTHENE	NV	S				
BENZO(g,h,i)PERYLENE	NV	S				
BENZO(a)PYRENE	NV	S				1
BERYLLIUM	NV	S				
BIPHENYL, 1,1-	V	S	(Use soil gas)	(Use soil gas)	(Use soil gas)	(Use soil gas)
BIS(2-CHLOROETHYL)ETHER	V	L	6.5E+01	5.0E+01	2.2E+02	1.7E+02
BIS(2-CHLOROISOPROPYL)ETHER	V	L	(Use soil gas)	(Use soil gas)	(Use soil gas)	(Use soil gas)
BIS(2-ETHYLHEXYL)PHTHALATE	NV	S				ı
BORON	NV	S				
BROMODICHLOROMETHANE	V	L	1.7E+02	3.0E+02	5.6E+02	1.0E+03
BROMOFORM	NV	S				
BROMOMETHANE	V	G	5.8E+02	2.0E+03	1.6E+03	5.6E+03
CADMIUM	NV	S				1
CARBON TETRACHLORIDE	V	L	9.3E+00	3.9E+01	3.1E+01	1.3E+02
CHLORDANE	NV	S				
CHLOROANILINE, p-	NV	S				
CHLOROBENZENE	٧	L	1.3E+04	4.2E+04	3.7E+04	1.2E+05
CHLOROETHANE	V	G	8.2E+02	3.2E+03	2.7E+03	1.1E+04
CHLOROFORM	V	L	3.3E+02	1.1E+03	1.1E+03	3.8E+03
CHLOROMETHANE	V	G	4.1E+01	1.8E+02	1.4E+02	6.0E+02
CHLOROPHENOL, 2-	٧	١	5.3E+03	1.4E+04	1.5E+04	4.0E+04
CHROMIUM (Total)	NV	S				
CHROMIUM III	NV	S				
CHROMIUM VI	NV	S				
CHRYSENE	NV	S	(Use soil gas)	(Use soil gas)	(Use soil gas)	(Use soil gas)
COBALT	NV	S				

			Lan	idential d Use		al/Industrial d Use
			Vadose-Zo	ne Soil Type	Vadose-Zo	ne Soil Type
	Phy	ysical	² High	Low/Moderate Permeability	² High Permeability	*Low/Moderate Permeability
CHEMICAL PARAMETER	s	tate	(ug/L)	(ug/L)	(ug/L)	(ug/L)
COPPER	NV	s		(-0-)	(49-2)	(ug/L)
CYANIDE (Free)	NV	s	(Use soil gas)	(Use soil gas)	(Use soil gas)	(llee sell see)
DIBENZO(a,h)ANTHTRACENE	NV	s	(1111)	(ess con gas)	(Ose son gas)	(Use soil gas)
DIBROMOCHLOROMETHANE	$\overline{}$	s	1.7E+02	3.9E+02	5.7E+02	1.3E+03
1,2-DIBROMO-3-CHLOROPROPANE	$\overline{}$	亡	(Use soil gas)	(Use soil gas)	(Use soil gas)	
DIBROMOETHANE, 1,2-	V	s	1.5E+02	2.3E+02	5.1E+02	(Use soil gas) 7.7E+02
DICHLOROBENZENE, 1,2-	T_{V}	Ī	7.7E+04	1.6E+05	1.6E+05	
DICHLOROBENZENE, 1,3-	$\overline{}$	T	(Use soil gas)	(Use soil gas)		1.6E+05
DICHLOROBENZENE, 1,4-	$\overline{}$	s	3.4E+02	9.5E+02	(Use soil gas) 1.1E+03	(Use soil gas)
DICHLOROBENZIDINE, 3,3-	NV	Š	0.42.02	3.3L+02	1.1E+03	3.2E+03
DICHLORODIPHENYLDICHLOROETHANE (DDD)	NV	İŝ	<u> </u>			
DICHLORODIPHENYLDICHLOROETHYLENE (DDE)	NV	s				
DICHLORODIPHENYLTRICHLOROETHANE (DDT)	NV	s				
DICHLOROETHANE, 1,1-	T V	Ť	1.0E+03	3.5E+03	3.4E+03	105.01
DICHLOROETHANE, 1,2-	V	ΙŤ	2.0E+02	4.9E+02	6.9E+02	1.2E+04
DICHLOROETHYLENE, 1,1-	Τ̈́	ΙŤ	6.3E+03	2.6E+04		1.7E+03
DICHLOROETHYLENE, Cis 1,2-	V	ΙĒ	6.2E+03	1.9E+04	1.8E+04 1.7E+04	7.4E+04
DICHLOROETHYLENE, Trans 1,2-	v	ΗĒ	6.7E+03	2.4E+04		5.4E+04
DICHLOROPHENOL, 2,4-	Ň	s	0.7 £ 700	2.46+04	1.9E+04	6.8E+04
DICHLOROPROPANE, 1,2-	V	Ť	2.8E+02	8.5E+02	0.25.00	
DICHLOROPROPENE, 1,3-	Ϊ́	ī	5.3E+01	2.1E+02	9.3E+02	2.8E+03
DIELDRIN	ŇV	s	3.3E707	2.15702	1.8E+02	7.0E+02
DIETHYLPHTHALATE	NV	s				
DIMETHYLPHTHALATE	NV	s				
#DIMETHYLPHENOL, 2,4-	t∵	s	2.5E+06	2.0E+06	7.45.00	
DINITROPHENOL, 2,4-	ŇV	s	2.52.700	2.05+00	7.1E+06	5.5E+06
DINITROTOLUENE, 2,4-	NV	s				
I,4 DIOXANE	NV	Ť				
DIOXIN (2,3,7,8-TCDD)	NV	s				
NDOSULFAN	ΝV	s				
NDRIN	NV	$\frac{3}{8}$				
THANOL	NV	s	(Use soil gas)	(Upp poil pop)	41	
ETHYLBENZENE	l V	뷥	1.7E+05	(Use soil gas)	(Use soil gas)	(Use soil gas)
LUORANTHENE	ŇV	S	1.7 = 703	1.7E+05	1.7E+05	1.7E+05
FLUORENE	 	s	1.9E+03	4.05.00		
IEPTACHLOR	ŇV	3	1.35703	1.9E+03	1.9E+03	1.9E+03
HEPTACHLOR EPOXIDE	NV	s				

	Ţ			dential I Use		al/Industrial
	ł		Vadose-Zoi	ne Soil Type	Vadose-Zo	ne Soil Type
	1		² High	³ Low/Moderate	² High	³ Low/Moderate
	Physical State		Permeability	Permeability	Permeability	Permeability
CHEMICAL PARAMETER			(ug/L)	(ug/L)	(ug/L)	(ug/L)
HEXACHLOROBENZENE	NV	S				
HEXACHLOROBUTADIENE	NV	S				
HEXACHLOROCYCLOHEXANE (gamma) LINDANE	ΝV	S				
HEXACHLOROETHANE	NV	S				
INDENO(1,2,3-cd)PYRENE	NV	S			<u> </u>	
LEAD	NV	S				
MERCURY	V	s	(Use soil gas)	(Use soil gas)	(Use soil gas)	(Use soil gas)
METHOXYCHLOR	NV	S				
METHYLENE CHLORIDE	V	L	2.4E+03	7.0E+03	8.1E+03	2.4E+04
#METHYL ETHYL KETONE	V	L	2.4E+07	1.9E+07	6.8E+07	5.4E+07
#METHYL ISOBUTYL KETONE	$\overline{}$	L	3.0E+06	2.3E+06	8.4E+06	6.5E+06
METHYL MERCURY	NV	s				
#METHYLNAPHTHALENE (total 1- & 2-)	V	s	2.6E+04	2.6E+04	2.6E+04	2.6E+04
METHYL TERT BUTYL ETHER	V	L	2.4E+04	4.5E+04	8.0E+04	1.5E+05
MOLYBDENUM	NV	s				7.55
#NAPHTHALENE	V	s	3.2E+03	5.0E+03	1.1E+04	1.7E+04
NICKEL	NV	s				
PENTACHLOROPHENOL	NV	s				
PERCHLORATE	NV	s				
PHENANTHRENE	V	s	(Use soil gas)	(Use soil gas)	(Use soil gas)	(Use soil gas)
PHENOL	NV	S				· · · · · · · · · · · · · · · · · · ·
POLYCHLORINATED BIPHENYLS (PCBs)	NV	S				
#PYRENE	V	s	1.4E+02	1.4E+02	1.4E+02	1.4E+02
SELENIUM	NV	S				
SILVER	NV	s				
#STYRENE	V	L	3.1E+05	3.1E+05	3.1E+05	3.1E+05
tert-BUTYL ALCOHOL			(Use soil gas)	(Use soil gas)	(Use soil gas)	(Use soil gas)
TETRACHLOROETHANE, 1,1,1,2-	T v	L	(Use soil gas)	(Use soil gas)	(Use soil gas)	(Use soil gas)
TETRACHLOROETHANE, 1,1,2,2-	 		1.9E+02	2.9E+02	6.4E+02	9.7E+02
TETRACHLOROETHYLENE	V	L	1.2E+02	5.0E+02	4.2E+02	1.7E+03
THALLIUM	NV	s				
#TOLUENE	V	L	3.8E+05	5.3E+05	5.3E+05	5.3E+05
TOXAPHENE	NV	s				
TPH (gasolines)	V	L	(Use soil gas)	(Use soil gas)	(Use soil gas)	(Use soil gas)
TPH (middle distillates)	V	L	(Use soil gas)	(Use soil gas)	(Use soil gas)	(Use soil gas)
TPH (residual fuels)	NV	L/S	y /	, , , , , , , , , , , , , , , , , , ,		<u> </u>
TRICHLOROBENZENE, 1,2,4-	V	ī	2.5E+03	4.5E+03	7.1E+03	1.2E+04

		Ì		dential d Use	Commercial/Industrial Land Use		
		Ī	Vadose-Zo	ne Soil Type	Vadose-Zone Soil Type		
	Phys	ical	² High Permeability	³ Low/Moderate Permeability	² High Permeability	³ Low/Moderate Permeability	
CHEMICAL PARAMETER	Sta	State		(ug/L)	(ug/L) (ug/L)		
TRICHLOROETHANE, 1,1,1-	V	L	1.3E+05	5.2E+05	3.6E+05	1.3E+06	
TRICHLOROETHANE, 1,1,2-	V	L	3.5E+02	7.6E+02	1.2E+03	2.5E+03	
TRICHLOROETHYLENE	V	L	5.3E+02	2.0E+03	1.8E+03	6.9E+03	
TRICHLOROPHENOL, 2,4,5-	V	s	8.3E+05	7.3E+05	1.2E+06	1.2E+06	
TRICHLOROPHENOL, 2,4,6-	NV	s					
VANADIUM	NV	s					
VINYL CHLORIDE	V	G	3.8E+00	1.7E+01	1.3E+01	5.8E+01	
#XYLENES	V	디	1.6E+05	1.6E+05	1.6E+05	1.6E+05	
ZINC	NV	S					

Red: >25% change in comparison to July 2003 ESL. Ethanol added to February 2005 ESLs

Notes:

- "Residential" screening levels generally considered adequate for other sensitive uses (e.g., day-care centers, hospitals, etc.).
- 2. High permeability soil model: One meter dry sandy soil (92% sand, 5% silt, 3% clay) over one meter moist clayey loam (33% sand, 34% silt, 33% clay).
- 3. Low/Moderate permeability soil model: One meter dry loamy sand (83% sand, 11% silt, 6% clay) over one meter moist silt (7% sand, 87% silt, 6% clay).
- 4. For inclusion in Tier 1 screening levels, all groundwater assumed to potentially migrate under a residential area. Screening levels for protection of indoor air under a residential exposure scenario carried forward for use at both residential and commercial/industrial sites (see Table F series).

Screening levels calculated using spreadhseet provided with *User's Guide for the Johnson and Ettinger Indoor Air model (1991) for Subsurface Vapor* Intrusion Into Buildings (USEPA 2003). Assumed vadose-zone thickness/depth to groundwater three meters. See Appendix 1 text for model details. Physical state of chemical at ambient conditions (V - volatile, NV - nonvolatile, S -id, L - liquid, G - gas).

Chemical considered to be "volatile" if Henry's number (atm m3/mole) >0.00001 and molecular weight <200.

Dibromochloromethane, dibromochloropropane and pyrene considered volatile for purposes of modeling (USEPA 2004).

Target cancer risk = 1E-06, Target Hazard Quotient = 0.2

"#": Nonchlorinated VOCs (except MTBE) adjusted upwards by factor of ten to account for assumed biodegradation in vadose-zone prior to emission at surface.

TABLE F-1a. GROUNDWATER SCREENING LEVELS (groundwater IS a current or potential drinking water resource) (ug/l)

	1		Ceiling Value (Taste & Odors,	Drinking Water	Vapor Intrusion	Aquatic Habitat Goal	
	¹ Final		etc.)	(Toxicity)	Into Buildings	(Chronic)	
CHEMICAL PARAMETER	Groundwater Screening Level	Basis	Table I-1	Table F-3	Table E-1a	Table F-4a	
ACENAPHTHENE	2.0E+01	Ceiling Value	2.0E+01	4.2E+02	4.2E+03	2.3E+01	
ACENAPHTHYLENE	3.0E+01	Aquatic Habitat Goal	2.0E+03	2.8E+02	(Use soil gas)	3.0E+01	
ACETONE	1.5E+03	Aquatic Habitat Goal	2.0E+04	6.3E+03	5.3E+07	1.5E+03	
ALDRIN	2.0E-03	Drinking Water Toxicity	8.5E+00	2.0E-03		1.3E-01	
ANTHRACENE	7.3E-01	Aquatic Habitat Goal	2.2E+01	2.1E+03	4.3E+01	7.3E-01	
ANTIMONY	6.0E+00	Drinking Water Toxicity	5.0E+04	6.0E+00		3.0E+01	
ARSENIC	3.6E+01	Aquatic Habitat Goal	5.0E+04	5.0E+01		3.6E+01	
BARIUM	1.0E+03	Drinking Water Toxicity	5.0E+04	1.0E+03		1.0E+03	
BENZENE	1.0E+00	Drinking Water Toxicity	1.7E+02	1.0E+00	5.4E+02	4.6E+01	
BENZO(a)ANTHRACENE	2.7E-02	Aquatic Habitat Goal	5.0E+00	2.9E-02		2.7E-02	
BENZO(b)FLUORANTHENE	2.9E-02	Aquatic Habitat Goal	7.0E+00	2.9E-02		2.9E-02	
BENZO(k)FLUORANTHENE	2.9E-02	Drinking Water Toxicity	4.0E-01	2.9E-02		3.7E+00	
BENZO(g,h,i)PERYLENE	1.0E-01	Aquatic Habitat Goal	1.3E-01	2.8E+02		1.0E-01	
BENZO(a)PYRENE	1.4E-02	Aquatic Habitat Goal	1.9E+00	2.0E-01		1.4E-02	
BERYLLIUM	2.7E+00	Aquatic Habitat Goal	5.0E+04	4.0E+00		2.7E+00	
BIPHENYL, 1,1-	5.0E-01	Ceiling Value	5.0E-01	3.5E+02	(Use soil gas)	1.4E+01	
BIS(2-CHLOROETHYL)ETHER	1.4E-02	Drinking Water Toxicity	3.6E+02	1.4E-02	6.5E+01	6.1E+01	
BIS(2-CHLOROISOPROPYL)ETHER	5.0E-01	Drinking Water Toxicity	3.2E+02	5.0E-01	(Use soil gas)	6.1E+01	
BIS(2-ETHYLHEXYL)PHTHALATE	4.0E+00	Drinking Water Toxicity	6.5E+02	4.0E+00		3.2E+01	
BORON	1.6E+00	Aquatic Habitat Goal	5.0E+04	1.0E+03		1.6E+00	
BROMODICHLOROMETHANE	1.0E+02	Drinking Water Toxicity	5.0E+04	1.0E+02	1.7E+02	3.2E+03	
BROMOFORM	1.0E+02	Drinking Water Toxicity	5.1E+02	1.0E+02		3.2E+03	
BROMOMETHANE	9.8E+00	Drinking Water Toxicity	5.0E+04	9.8E+00	5.8E+02	1.6E+02	
CADMIUM	1.1E+00	Aquatic Habitat Goal	5.0E+04	5.0E+00		1.1E+00	
CARBON TETRACHLORIDE	5.0E-01	Drinking Water Toxicity	5.2E+02	5.0E-01	9.3E+00	9.8E+00	
CHLORDANE	4.0E-03	Aquatic Habitat Goal	2.5E+00	1.0E-01		4.0E-03	
CHLOROANILINE, p-	5.0E+00	Aquatic Habitat Goal	5.0E+04	2.8E+01		5.0E+00	
CHLOROBENZENE	2.5E+01	Aquatic Habitat Goal	5.0E+01	7.0E+01	1.3E+04	2.5E+01	
CHLOROETHANE	1.2E+01	Aquatic Habitat Goal	1.6E+01	1.2E+01	8.2E+02	1.2E+01	
CHLOROFORM	7.0E+01	Drinking Water Toxicity	2.4E+03	7.0E+01	3.3E+02	6.2E+02	
CHLOROMETHANE	1.3E+00	Drinking Water Toxicity	5.0E+04	1.3E+00	4.1E+01	3.2E+03	
CHLOROPHENOL, 2-	1.8E-01	Ceiling Value	1.8E-01	3.5E+01	5.3E+03	4.4E+02	
CHROMIUM (Total)	5.0E+01	Drinking Water Toxicity	5.0E+04	5.0E+01		1.8E+02	
CHROMIUM III	1.8E+02	Aquatic Habitat Goal	5.0E+04	2.0E+05		1.8E+02	
CHROMIUM VI	1.1E+01	Aquatic Habitat Goal	5.0E+04	2.1E+01		1.1E+01	
CHRYSENE	2.9E-01	Drinking Water Toxicity	8.0E-01	2.9E-01	(Use soil gas)	3.5E-01	
COBALT	3.0E+00	Aquatic Habitat Goal	5.0E+04	1.4E+02		3.0E+00	
COPPER	3.1E+00	Aquatic Habitat Goal	1.0E+03	1.3E+03		3.1E+00	

TABLE F-1a. GROUNDWATER SCREENING LEVELS (groundwater IS a current or potential drinking water resource) (ug/I)

	¹ Final Groundwater		Ceiling Value (Taste & Odors, etc.)	Drinking Water (Toxicity)	Vapor Intrusion Into Buildings	Aquatic Habitat Goal (Chronic)	
CHEMICAL PARAMETER	Screening Level	Basis	Table I-1	Table F-3	Table E-1a	Table F-4a	
CYANIDE (Free)	1.0E+00	Aquatic Habitat Goal	1.7E+02	2.0E+02	(Use soil gas)	1.0E+00	
DIBENZO(a,h)ANTHTRACENE	8.5E-03	Drinking Water Toxicity	2.5E-01	8.5E-03		7.5E+00	
DIBROMOCHLOROMETHANE	1.0E+02	Drinking Water Toxicity	5.0E+04	1.0E+02	1.7E+02	3.2E+03	
1,2-DIBROMO-3-CHLOROPROPANE	2.0E-01	Aquatic Habitat Goal	1.0E+01	2.0E-01	(Use soil gas)	2.0E-01	
DIBROMOETHANE, 1,2-	5.0E-02	Drinking Water Toxicity	5.0E+04	5.0E-02	1.5E+02	1.4E+03	
DICHLOROBENZENE, 1,2-	1.0E+01	Ceiling Value	1.0E+01	6.0E+02	7.7E+04	1.4E+01	
DICHLOROBENZENE, 1,3-	6.5E+01	Aquatic Habitat Goal	5.0E+04	2.1E+02	(Use soil gas)	6.5E+01	
DICHLOROBENZENE, 1,4-	5.0E+00	Ceiling Value	5.0E+00	5.0E+00	3.4E+02	1.5E+01	
DICHLOROBENZIDINE, 3,3-	2.9E-02	Drinking Water Toxicity	1.6E+03	2.9E-02		2.5E+02	
DICHLORODIPHENYLDICHLOROETHANE (DDD)	1.0E-03	Aquatic Habitat Goal	8.0E+01	1.5E-01		1.0E-03	
DICHLORODIPHENYLDICHLOROETHYLENE (DDE)	1.0E-03	Aquatic Habitat Goal	2.0E+01	1.0E-01		1.0E-03	
DICHLORODIPHENYLTRICHLOROETHANE (DDT)	1.0E-03	Aquatic Habitat Goal	1.5E+00	1.0E-01		1.0E-03	
DICHLOROETHANE, 1,1-	5.0E+00	Drinking Water Toxicity	5.0E+04	5.0E+00	1.0E+03	4.7E+01	
DICHLOROETHANE, 1,2-	5.0E-01	Drinking Water Toxicity	7.0E+03	5.0E-01	2.0E+02	1.0E+04	
DICHLOROETHYLENE, 1,1-	6.0E+00	Drinking Water Toxicity	1.5E+03	6.0E+00	6.3E+03	2.5E+01	
DICHLOROETHYLENE, Cis 1,2-	6.0E+00	Drinking Water Toxicity	5.0E+04	6.0E+00	6.2E+03	5.9E+02	
DICHLOROETHYLENE, Trans 1,2-	1.0E+01	Drinking Water Toxicity	2.6E+02	1.0E+01	6.7E+03	5.9E+02	
DICHLOROPHENOL, 2,4-	3.0E-01	Ceiling Value	3.0E-01	2.1E+01		1.8E+02	
DICHLOROPROPANE, 1,2-	5.0E+00	Drinking Water Toxicity	1.0E+01	5.0E+00	2.8E+02	1.5E+03	
DICHLOROPROPENE, 1,3-	5.0E-01	Drinking Water Toxicity	5.0E+04	5.0E-01	5.3E+01	1.2E+02	
DIELDRIN	1.9E-03	Aquatic Habitat Goal	4.1E+01	2.2E-03		1.9E-03	
DIETHYLPHTHALATE	1.5E+00	Aquatic Habitat Goal	5.0E+04	5.6E+03		1.5E+00	
DIMETHYLPHTHALATE	1.5E+00	Aquatic Habitat Goal	5.0E+04	7.0E+04		1.5E+00	
DIMETHYLPHENOL, 2,4-	1.0E+02	Drinking Water Toxicity	4.0E+02	1.0E+02	2.5E+06	1.1E+02	
DINITROPHENOL, 2,4-	1.4E+01	Drinking Water Toxicity	5.0E+04	1.4E+01		7.5E+01	
DINITROTOLUENE, 2,4-	1.1E-01	Drinking Water Toxicity	5.0E+04	1.1E-01		1.2E+02	
1,4 DIOXANE	3.0E+00	Drinking Water Toxicity	5.0E+04	3.0E+00		3.4E+05	
DIOXIN (2,3,7,8-TCDD)	5.0E-06	Aquatic Habitat Goal	7.0E+03	3.0E-05		5.0E-06	
ENDOSULFAN	8.7E-03	Aquatic Habitat Goal	7.5E+01	4.2E+01		8.7E-03	
ENDRIN	2.3E-03	Aquatic Habitat Goal	4.1E+01	2.0E+00		2.3E-03	
ETHANOL	5.0E+04	Ceiling Value	5.0E+04				
ETHYLBENZENE	3.0E+01	Ceiling Value	3.0E+01	7.0E+02	1.7E+05	2.9E+02	
FLUORANTHENE	8.0E+00	Aquatic Habitat Goal	1.3E+02	2.8E+02		8.0E+00	
FLUORENE	3.9E+00	Aquatic Habitat Goal	9.5E+02	2.8E+02	1.9E+03	3.9E+00	
HEPTACHLOR	3.8E-03	Aquatic Habitat Goal	2.0E+01	1.0E-02		3.8E-03	
HEPTACHLOR EPOXIDE		Aquatic Habitat Goal	1.8E+02	1.0E-02		3.8E-03	
HEXACHLOROBENZENE		Drinking Water Toxicity	5.5E+01	1.0E+00		3.7E+00	
HEXACHLOROBUTADIENE	2.1E-01	Drinking Water Toxicity	6.0E+00	2.1E-01		4.7E+00	

TABLE F-1a. GROUNDWATER SCREENING LEVELS (groundwater IS a current or potential drinking water resource) (ug/l)

	¹ Final Groundwater		Ceiling Value (Taste & Odors, etc.)	Drinking Water (Toxicity)	Vapor Intrusion Into Buildings	Aquatic Habitat Goal (Chronic)	
CHEMICAL PARAMETER	Screening Level	Basis	Table I-1	Table F-3	Table E-1a	Table F-4a	
HEXACHLOROCYCLOHEXANE (gamma) LINDANE	8.0E-02	Aquatic Habitat Goal	3.5E+03	2.0E-01		8.0E-02	
HEXACHLOROETHANE	7.0E-01	Drinking Water Toxicity	1.0E+01	7.0E-01		1.2E+01	
INDENO(1,2,3-cd)PYRENE	2.9E-02	Aquatic Habitat Goal	2.7E-01	2.9E-02		2.9E-02	
LEAD	2.5E+00	Aquatic Habitat Goal	5.0E+04	1.5E+01		2.5E+00	
MERCURY	1.2E-02	Aquatic Habitat Goal	5.0E+04	2.0E+00	(Use soil gas)	1.2E-02	
METHOXYCHLOR	1.9E-02	Aquatic Habitat Goal	2.0E+01	4.0E+01		1.9E-02	
METHYLENE CHLORIDE	5.0E+00	Drinking Water Toxicity	9.1E+03	5.0E+00	2.4E+03	2.2E+03	
METHYL ETHYL KETONE	4.2E+03	Drinking Water Toxicity	8.4E+03	4.2E+03	2.4E+07	1.4E+04	
METHYL ISOBUTYL KETONE	1.2E+02	Drinking Water Toxicity	1.3E+03	1.2E+02	3.0E+06	1.7E+02	
METHYL MERCURY	3.0E-03	Aquatic Habitat Goal	5.0E+04	7.0E-02		3.0E-03	
METHYLNAPHTHALENE (total 1- & 2-)	2.1E+00	Aquatic Habitat Goal	1.0E+01	2.8E+02	2.6E+04	2.1E+00	
METHYL TERT BUTYL ETHER	5.0E+00	Ceiling Value	5.0E+00	1.3E+01	2.4E+04	8.0E+03	
MOLYBDENUM	3.5E+01	Drinking Water Toxicity	5.0E+04	3.5E+01		2.4E+02	
NAPHTHALENE	1.7E+01	Drinking Water Toxicity	2.1E+01	1.7E+01	3.2E+03	2.4E+01	
NICKEL	8.2E+00	Aquatic Habitat Goal	5.0E+04	1.0E+02		8.2E+00	
PENTACHLOROPHENOL	1.0E+00	Drinking Water Toxicity	3.0E+01	1.0E+00		7.9E+00	
PERCHLORATE	6.0E+00	Drinking Water Toxicity	5.0E+04	6.0E+00		6.0E+02	
PHENANTHRENE	4.6E+00	Aquatic Habitat Goal	4.1E+02	2.8E+02	(Use soil gas)	4.6E+00	
PHENOL	5.0E+00	Ceiling Value	5.0E+00	4.2E+03		1.3E+03	
POLYCHLORINATED BIPHENYLS (PCBs)	1.4E-02	Aquatic Habitat Goal	1.6E+01	5.0E-01		1.4E-02	
PYRENE	2.0E+00	Aquatic Habitat Goal	6.8E+01	2.1E+02	1.4E+02	2.0E+00	
SELENIUM	5.0E+00	Aquatic Habitat Goal	5.0E+04	5.0E+01		5.0E+00	
SILVER	1.9E-01	Aquatic Habitat Goal	1.0E+02	1.0E+02		1.9E-01	
STYRENE	1.0E+01	Ceiling Value	1.0E+01	1.0E+02	3.1E+05	1.0E+02	
tert-BUTYL ALCOHOL	1.2E+01	Drinking Water Toxicity	5.0E+04	1.2E+01	(Use soil gas)	1.8E+04	
TETRACHLOROETHANE, 1,1,1,2-	1.3E+00	Drinking Water Toxicity	5.0E+04	1.3E+00	(Use soil gas)	9.3E+02	
TETRACHLOROETHANE, 1,1,2,2-	1.0E+00	Drinking Water Toxicity	5.0E+02	1.0E+00	1.9E+02	4.2E+02	
TETRACHLOROETHYLENE	5.0E+00	Drinking Water Toxicity	1.7E+02	5.0E+00	1.2E+02	1.2E+02	
THALLIUM	2.0E+00	Drinking Water Toxicity	5.0E+04	2.0E+00		2.0E+01	
TOLUENE	4.0E+01	Ceiling Value	4.0E+01	1.5E+02	3.8E+05	1.3E+02	
TOXAPHENE	2.0E-04	Aquatic Habitat Goal	1.4E+02	3.0E+00		2.0E-04	
TPH (gasolines)	1.0E+02	Ceiling Value	1.0E+02	2.1E+02	(Use soil gas)	5.0E+02	
TPH (middle distillates)	1.0E+02	Ceiling Value	1.0E+02	2.1E+02	(Use soil gas)	6.4E+02	
TPH (residual fuels)	1.0E+02	Ceiling Value	1.0E+02	2.1E+02	·	6.4E+02	
TRICHLOROBENZENE, 1,2,4-	2.5E+01	Aquatic Habitat Goal	3.0E+03	7.0E+01	2.5E+03	2.5E+01	
TRICHLOROETHANE, 1,1,1-	6.2E+01	Aquatic Habitat Goal	9.7E+02	2.0E+02	1.3E+05	6.2E+01	
TRICHLOROETHANE, 1,1,2-	5.0E+00	Drinking Water Toxicity	5.0E+04	5.0E+00	3.5E+02	4.7E+03	
TRICHLOROETHYLENE	5.0E+00	Drinking Water Toxicity	3.1E+02	5.0E+00	5.3E+02	3.6E+02	

TABLE F-1a. GROUNDWATER SCREENING LEVELS

(groundwater IS a current or potential drinking water resource)

(ug/l)

CHEMICAL PARAMETER	¹ Final Groundwater Screening Level	Basis	Ceiling Value (Taste & Odors, etc.) Table I-1	Drinking Water (Toxicity) Table F-3	Vapor Intrusion Into Buildings Table E-1a	Aquatic Habitat Goal (Chronic) Table F-4a
TRICHLOROPHENOL, 2.4.5-		Aquatic Habitat Goal	2.0E+02	7.0E+02	8.3E+05	1.1E+01
TRICHLOROPHENOL, 2,4,6-		Drinking Water Toxicity	1.0E+02	5.0E-01		4.9E+02
VANADIUM	1.5E+01	Drinking Water Toxicity	5.0E+04	1.5E+01		1.9E+01
VINYL CHLORIDE	5.0E-01	Drinking Water Toxicity	3.4E+03	5.0E-01	3.8E+00	7.8E+02
XYLENES	2.0E+01	Ceiling Value	2.0E+01	1.8E+03	1.6E+05	1.0E+02
ZINC	8.1E+01	Aquatic Habitat Goal	5.0E+03	5.0E+03		8.1E+01

Red: >25% change in comparison to July 2003 ESL. Ethanol added to February 2005 ESLs

Notes:

 Lowest of Ceiling Value, Drinking Water (toxicity) goal, Indoor-Air Impact goal and Aquatic Habitat Goal>Used to develop soil leaching levels for protection of groundwater quality.

TPH -Total Petroleum Hydrocarbons. See text for discussion of different TPH categories.

sol - solubility threshold

Ceiling Level: Odor threshold, 1/2 solubility or 50000 ug/L maximum, whichever is lower. Intended to limit general groundwater resource degradation.

Odor-thresholds assume no dilution.

Human Toxicity: Based on primary maximum concentration levels (MCLs), or equivalent. Considered protective of human health.

Indoor Air Impact: Addresses potential emission of volatile chemicals from groundwater and subsequent impact on indoor air. Value

for very permeable (e.g., sandy vadose-zone soils).

Aquatic Habitat Goal: Addresses potential discharge of groundwater to surface waterbody and subsequent impact on aquatic life;

Potential dilution upon discharge to surface water not considered.

Review of aquatic ecotoxicty data for ethanol underway. Based on preliminary review of available data, chronic toxicity screening levels likely to be

significantly greater than ceiling level of 50,000 ug/L (refer to USEPA 2003b, ECOTOX database).

Method detection limits and background concentrations replace final screening level as appropriate.

Commonwealth Companies Real Estate

1305 Franklin Street, Suite 500 Oakland, CA 94612 Office: (510) 832-2628

Office: (510) 832-2628 Fax: (510) 834-7660

Facsimile transmittal

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ALAMEDA COUNTY

HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

April 26, 2007

Mr. Ted Dang Tomorrow Development Co., Inc. 1305 Franklin Street, #500 Oakland, CA 94612

Mr. John Thorpe 21790 Hesperian Blvd. Hayward, CA 94541-7003

Subject: Fuel Leak Case No. RO0000396 and Geotracker Global ID T0600102124, Former Service Station, 2547 East 27th Street, Oakland, CA 94601

Dear Mr. Dang and Mr. Thorpe:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site, including the reports entitled, "Quarterly Groundwater Monitoring and Deeper Groundwater Sampling," dated October 27, 2006 and "Soil Excavation Report," dated February 13, 2007 and received by ACEH on April 3, 2007. The Soil Excavation Report presents the results from soil excavation, confirmation soil sampling, and soil disposal activities conducted between November 2006 and January 22, 2007. Approximately 200 cubic yards of contaminated soil was excavated and removed from the property. The excavations were reported to extend to depths of 8.5 to 9 feet bgs. Residual soil contamination with concentrations of total petroleum hydrocarbons (TPH) as gasoline that exceeded the target cleanup goal of 100 milligrams per kilogram were left in place along the north and west walls of excavation area 1. The Soil Excavation Report indicated that the excavation could not be extended laterally in these areas due to site constraints. The extent of residual contamination left in place at the base of the excavation was not documented although the collection of confirmation soil samples from the bottom of each excavation was proposed in the revised Interim Corrective Action Plan dated June 28, 2006.

Due to the omissions in reporting and the required revisions, we are rejecting the Soil Excavation Report dated February 13, 2007. In order to address these technical deficiencies and omissions, we request that you address each of the technical comments below and prepare a Revised Soil Excavation Report. Additional soil sampling will be required to address omissions in the confirmation soil sampling. The additional soil sampling results are to be incorporated into the Revised Soil Excavation Report.

We request that you address the following technical comments, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

- 1. Extent of Excavation Northeast of Area 1 (Toward East 27th Street). The Excavation Map shows the "Extent of Former Soil Excavation," extending northeast to the edge of the sidewalk along East 27th Street. However, the revised Interim CAP as well as the Kleinfelder investigation report dated August 22, 2002 and the Aqua Science Engineers report on the tank removal report dated September 15, 1994 show the excavation extending across the sidewalk to East 27th Street. Two of the former tanks are shown in locations beneath the sidewalk along East 27th Street. In Attachment 1 - Revised Soil Excavation Map to ACEH's correspondence dated August 4, 2006, we requested that the Area 1 excavation be extended northeast to East 27th Street. However, Area 1 as shown on the Excavation Map, stops at the sidewalk along East 27th Street. Confirmation soil sample I-9-N, collected from the northeast wall of the Area 1 excavation, had the highest concentration of TPH as gasoline (600 mg/kg) and TPH as diesel (420 mg/kg). Both of these concentrations exceeded the respective target cleanup goals. Due to the apparent limited extent of the residual soil contamination, low potential for exposure, and site constraints, we are not requesting that soil beneath the sidewalk along East 27th Street be excavated at this time. In the Revised Soil Excavation Report requested below, please correct the extent of the 1994 soil excavation to be consistent with the Excavation Area shown in the Kleinfelder investigation report dated August 22, 2002 and the Aqua Science Engineers report on the tank removal report dated September 15, 1994.
 - 2. Extent of Excavation Northwest of Area 1 (Parallel to East 27th Street). Confirmation soil sample 1-9-W, collected from the northwest wall of the Area 1 excavation, had the highest concentration of TPH as gasoline (600 mg/kg) and TPH as diesel (420 mg/kg). Both of these concentrations exceeded the respective target cleanup goals. The Excavation Report indicates that, "The area of sample 1-9-W could not feasibly be excavated further because it is adjacent to the public sidewalk of East 27th Street, and would have caused undermining." It is not clear why the excavation could not be continued to the northwest from the existing excavation in a direction that is parallel to the sidewalk. Please clarify why the excavation could not be continued to the northwest in the Revised Soil Excavation Report requested below. It should also be noted that in our technical comments dated August 4, 2006, we specifically stated, "For any excavation sidewalls where these parameters cannot be achieved due to the presence of surface structures or utilities, ACEH is to be notified and additional confirmation sampling will be required to document the extent of contamination left in place beneath the utility or structure." ACEH was not notified of the excavation and no additional confirmation samples were collected from this area.
 - 3. Observations of Contamination and Depth of Sidewall Samples. As requested in our August 4, 2006 correspondence, sidewall samples were to be collected, "from the depth interval where the highest PID readings, odor, or visual contamination was observed during excavation." We could not find any identification in the Excavation Report of the depth at which the confirmation soil samples were collected nor could we find any discussion or presentation of screening results or observations during excavation. Please address these issues in the Revised Soil Excavation Report requested below.
 - 4. Confirmation Soil Samples from Bottom of Each Excavation. The revised Interim CAP dated June 28, 2006 proposed that one confirmation soil sample would be collected from

each sidewall and two confirmation soil samples would be collected from the bottom of each excavation. No soil samples were apparently collected and analyzed from the base of the excavations, which were apparently limited to approximately 9.0 feet bgs to prevent excessive groundwater intrusion. These confirmation samples were necessary to document the residual contamination left in place that could act as a long-term source of groundwater contamination. Additional investigation could potentially be required due to the lack of these data.



- 5. Laboratory Analyses for Confirmation Soil Samples. In the technical comments on the revised CAP (see attached August 4, 2006 correspondence), we concurred with the proposal to analyze soil samples in the area of the former fuel tanks (Excavation Areas 1 and 2) for TPHg, TPHd, and BTEX. We requested that confirmation soil samples collected in the waste oil excavation (Excavation Area 3) be analyzed for TPHg by EPA Method 8015 or 8260, TPHd by EPA Method 8015, TPHm by EPA Method 8015, oil & grease by FPA Method 9070, BTEX by EPA Method 8260, chlorinated hydrocarbons by EPA Method 8260, 1,4 dioxane by EPA Method 8270M, EDB and EDC by EPA Method 8260, fuel oxygenates (MTBE, TAME, ETBE, DIPE, TBE, and ethanol) by EPA Method 8260, metals (cadmium, chromium, lead, nickel, and zinc) by ICAP or AA, PCBs, and PNAs. The four confirmation soil samples collected from the sidewall of Excavation Area 3 were apparently analyzed only for TPHg, TPHd, and BTEX. Please note that the above requested analytes are minimum verification analyses for waste oil tanks. In order to address this gap in the confirmation soil sampling, we request that you advance four shallow borings outside each sidewall of former Excavation Area 3 to collect confirmation soil samples and analyze the samples for the appropriate analytes described above. The soil borings are to be advanced to the depth at which the maximum contamination was observed during excavation in Area 3 in order to collect the confirmation soil samples. Please present the rationale for the depth of the confirmation sampling in Area 3 in the Revised Soil Excavation Report requested below. document the depth of the soil samples collected in a table and text as well as a boring log that includes a description of the soil types encountered along with screening results.
- 6. Former Monitoring Wells EB-1 through EB-3. The Ceres Associates report entitled, "Soil and Groundwater Sampling Report," and dated January 28, 2005 presents water levels apparently measured in monitoring wells EB-1 through EB-3. These monitoring wells were located within the three excavation areas. However, the Soil Excavation Report indicates that evidence of the wells was not observed during the excavation process. In the Revised Soil Excavation Report requested below, please indicate whether these wells were properly decommissioned.
- 7. Deeper Soil Boring SB-25. The Revised CAP proposed that one soil boring be advanced to a depth of 40 feet bgs to investigate the vertical extent of contamination. Soil boring SB25 was advanced to a depth of 27.5 feet bgs in September 2006. The boring could not be extended deeper due to refusal at 27.5 feet bgs. The soil boring log for SB25 does not record sample intervals for soil or groundwater sampling or screening results. It appears that no soil samples were collected for analysis and no screening results are presented or discussed. We could not locate analytical results for soil boring SB25 in the appendix of laboratory analytical results in the October 27, 2006 Quarterly Monitoring Report or the Soil Excavation Report. Discussion of Boring SB-25 is limited to one paragraph in the text of the

Excavation Report. Please provide proper documentation of the sampling and analytical results for boring SB25 in the Revised Soil Excavation Report requested below.

- 8. Stockpile Soil Sample Results. No discussion or documentation of stockpile soil sampling is presented in the Excavation Report. Please describe the sampling and properly document the results of stockpile soil sampling in the Revised Soil Excavation Report requested below.
- 9. Development Plans for Site. Please clarify whether planned future property will be residential or commercial use. In the Revised Soil Excavation Report requested below, please show the outline of the planned building(s) on the Excavation Map (figure number not specified in report).
- 10. Conclusions and Recommendations. Please revise the Conclusions and Recommendations section of the Soil Excavation Report in accordance with the technical comments above. In addition, please review the text for clarity and technical editing. Examples of statements that require revision include the second sentence in the fourth paragraph of the Risk Analysis and the second sentence in the second paragraph of the Property Re-Use section.
- 11. Groundwater Monitoring. We concur with the proposal to conduct quarterly groundwater monitoring using each of the five existing monitoring wells. The analytical methods used during the August 2006 groundwater sampling event are generally acceptable. However, we note that the analytical method for volatile hydrocarbons as gasoline with BTEX and MTBE is EPA Method SW8021B/8015C but is incorrectly referenced in the text of the October 27, 2006 Quarterly Monitoring Report as EPA Method 8020. In addition to the analyses for TPHg, TPHd, and BTEX, we request that the groundwater samples be analyzed for chlorinated hydrocarbons by EPA Method 8260, EDB and EDC by EPA Method 8260, and fuel oxygenates (MTBE, TAME, ETBE, DIPE, and TBE) during the next groundwater sampling event. Sampling for these additional analytes may be discontinued if the additional analytes are not detected or are detected at concentrations that are not significant. Please present groundwater monitoring results in the Quarterly Groundwater Monitoring Reports requested below.
- 12. Geotracker EDF Submittals. A review of the Geotracker Website indicates that analytical data from the 2006 site investigation and August 2006 groundwater sampling have been submitted but submittal of the required survey data for monitoring wells and complete copies of reports have not been submitted. In addition, the most recent confirmation sampling analytical results and Excavation Report have not been submitted to Geotracker. Pursuant to CCR Sections 2729 and 2729.1, beginning September 1, 2001, all analytical data, including monitoring well samples, submitted in a report to a regulatory agency as part of the LUFT program, must be transmitted electronically to the SWRCB GeoTracker system via the internet. Additionally, beginning January 1, 2002, all permanent monitoring points utilized to collected groundwater samples (i.e. monitoring wells) and submitted in a report to a regulatory agency, must be surveyed (top of casing) to mean sea level and latitude and longitude to sub-meter accuracy, using NAD 83, and transmitted electronically to the SWRCB GeoTracker system via the internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports is also required in Geotracker (in PDF format). Please upload all required items in accordance with the above-cited regulation.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- July 26, 2007 Revised Soil Excavation Report
- August 10, 2007 Quarterly Monitoring Report for Second Quarter 2007
- November 10, 2007 Quarterly Monitoring Report for Third Quarter 2007

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

Submission of reports to the Alameda County ftp site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitor wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic reporting).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791.

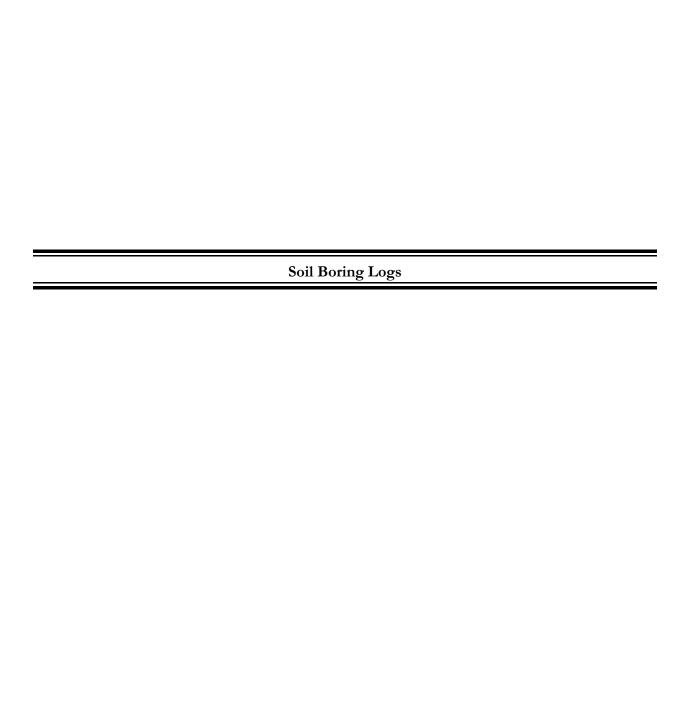
Sincerely,

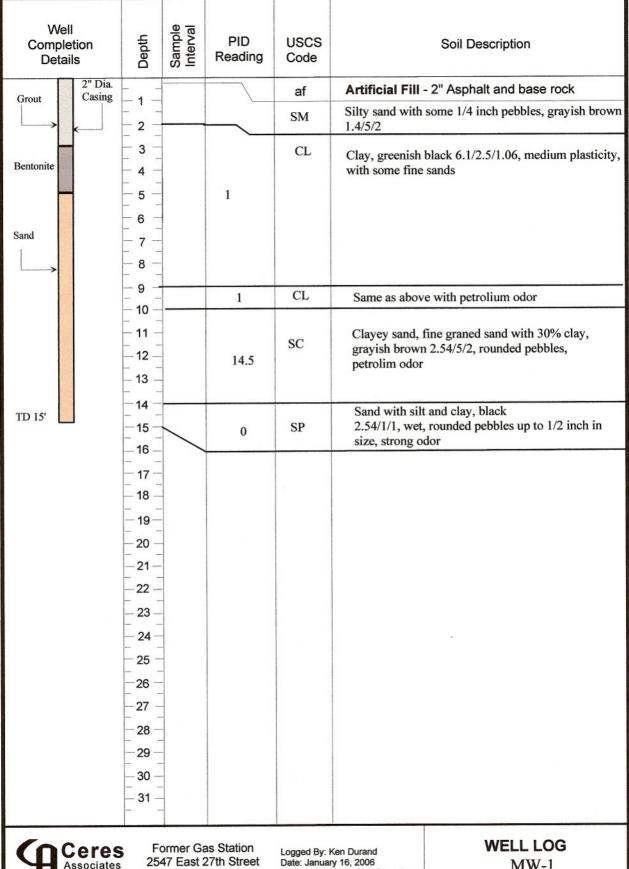
Jerry Wickham

Hazardous Materials Specialist

Attachment: August 4, 2006 ACEH Correspondence

Enclosure: ACEH Electronic Report Upload (ftp) Instructions



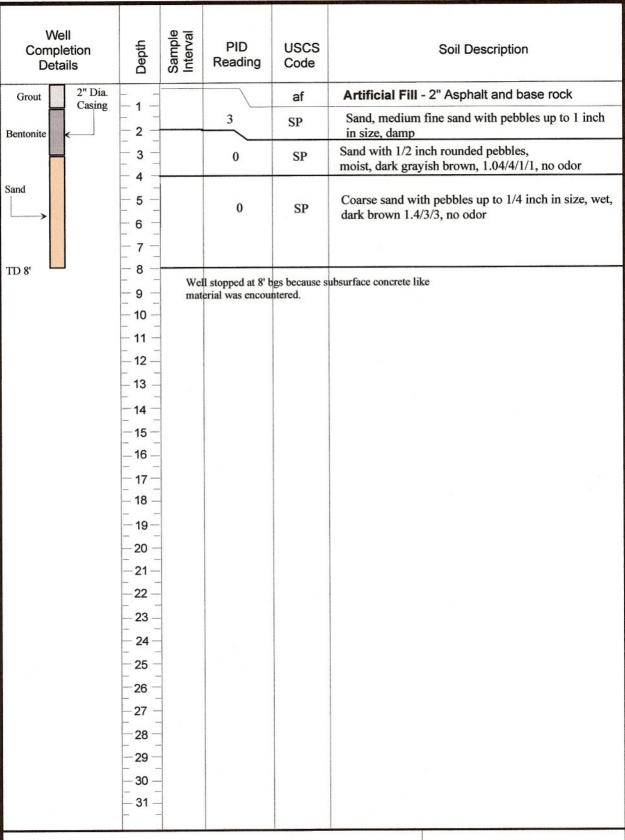


Project CA1264-3

Oakland, California

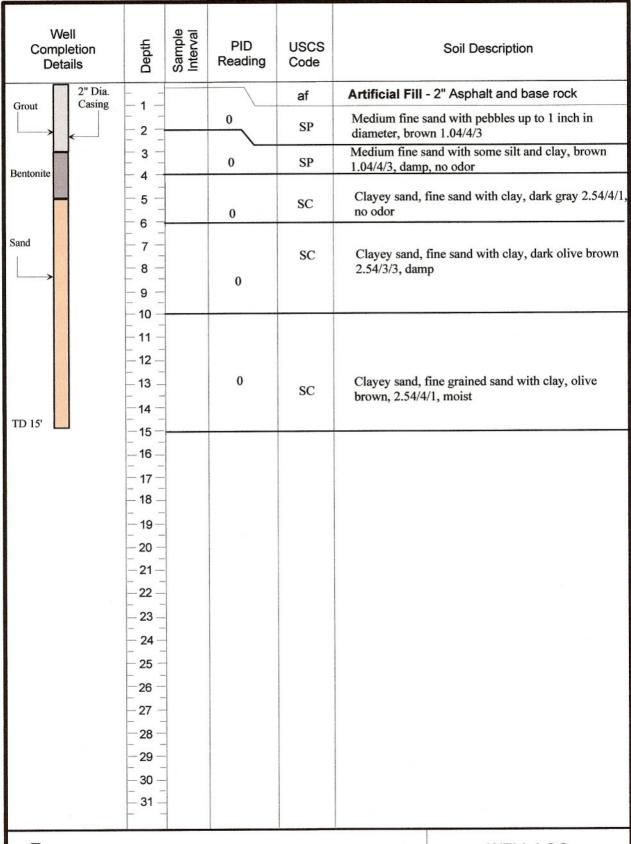
Drilling Method: Hollow Stem Auger

MW-1 SHEET 1 of 1





Former Gas Station 2547 East 27th Street Oakland, California Logged By: Ken Durand Date: January 16, 2006 Drilling Method: Hollow Stem Auger WELL LOG MW-2 SHEET 1 of 1



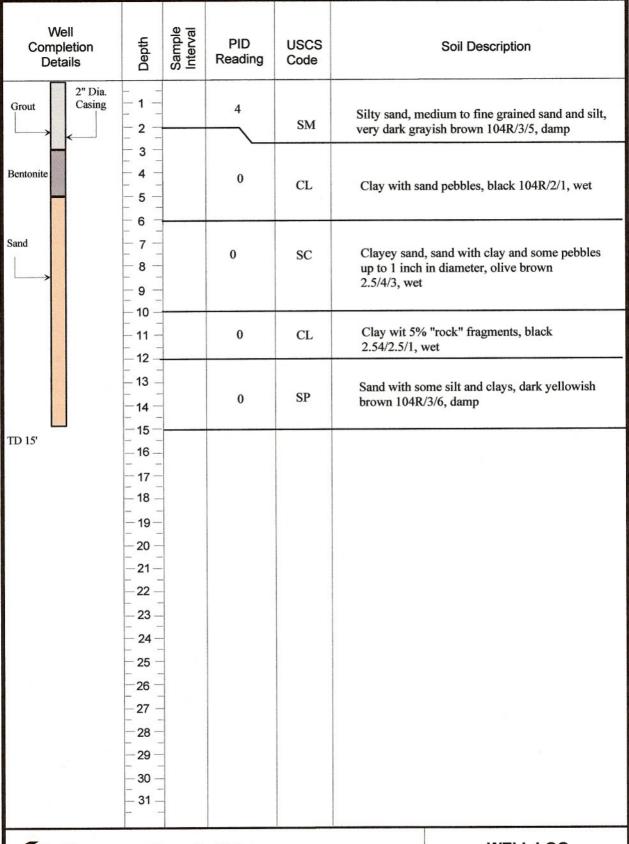


Former Gas Station 2547 East 27th Street Oakland, California Logged By: Ken Durand Date: January 17, 2006 Drilling Method: Hollow Stem Auger WELL LOG MW-3 SHEET 1 of 1

Well Completion Details	Depth	Sample Interval	PID Reading	USCS Code	Soil Description
2" Dia.				af	Artificial Fill - 2" Asphalt and base rock
Grout Casing Bentonite	- 1		2.4	CL	Clay with small layers of fine gravel sand, very dark grayish brown, 2.54/3/2, damp
Sand	- 7 - - 8 -		1.7	CL	Clay with layers of fine gravel sand, dark grayish brown 2.54/3/2, damp
	_ 9 _		2	SC	Clayey sand, fine to medium sand with clay, olive brown 2.54/4/4, moist
	- 10 - - 11 - - 12 - - 13 - - 14 -		2.4	SC	Same as above, wet
TD 15'	15 16 17 18 20 21 22 23 26 27 28 29 30 31				
Ceres Associates	25 C	47 East	as Station 27th Street California	Logged By: k Date: Januar Drilling Metho	

Project CA1264-3

SHEET 1 of 1





Former Gas Station 2547 East 27th Street Oakland, California

Logged By: Ken Durand Date: January 17, 2006 Drilling Method: Hollow Stem Auger WELL LOG MW-5 SHEET 1 of 1

Well Completion Details	Depth	Sample Interval	PID Reading	USCS Code		Soil Description
Grout 4" Dia. Casing Bentonite	- 1 - 2 - 3 - 4 - 5 - 5 - 2		44	CL	Clay with so	ome silt and sand, black 5/2.5/1
Sand	- 6 - - 7 - - 8 -		9	CL	Silty clay w 5/2.5/1, mo	ith some "rock" pebbles, black ist
TD 15'	9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 31 - 10 - 10 - 10 - 10 - 10 - 10		0 107 6	CL	Silty clay 5/5/3	with some silt, moist/wet, olive
Ceres Associates Project CA1264-3	254	47 East 2	27th Street	Logged By: Ke Date: January Drilling Metho	en Durand 17, 2006 d: Hollow Stem Auger	WELL LOG EX-1 SHEET 1 of 1

Soil Boring Completion Details	Depth	USCS Code	PID Reading* (ppm)	Soil Descri	ption
1.5" Dia. Borehole	- 1 - - 1 - - 2 - - 3 -	SC		Sandy loam, light olive	e brown 2.5Y5/4, with small gravel
Portland cement/bentonite	- 4 - - 5 - - 6 - - 7 -				
	- 8 - - 8 - - 9 - 	CL	1	Clay, black 2.5Y2.5/1	, slight petrol odor
TD 10.0'	- 10 - 			Clay, 61ack 2.5 12.5/1	, onghe petior odor
	- 11 - 				
	-12 - 				
	- 13 - 				
	14 				
	15 				
	<u>-16 -</u>			*Background PID read	dings indicated a maximum of 3ppm
	<u>- 17 -</u>			-	
	<u>- 18 - </u>				
	<u>- 19 - </u>				
	_ 20 _				
	21				
	_22 _				
	_ 23 _				
	_ 24 _				
	<u></u>				
	_ 30 _				
	_ 31 _				
Ceres Associates	25	Former Gas St 547 East 27th Oakland, Calif	Street	Logged By: Will Kleiner Date: June, 2007 Drilling Method: Geoprobe 6600	LOG OF SOIL BORING CS-8
Project CA1264-6		zaniana, Cam	orina	· · ·	SHEET 1 of 1

		1			
Soil Boring Completion Details	Depth	USCS Code	PID Reading* (ppm)	Soil Descri	iption
1.5" Dia. Borehole	- 1	SC		Sandy loam, light olive Some inclusions of cla	e brown 2.5Y5/4, with small gravel sy, black 2.5Y2.5/1
Portland	- 6 -				
cement/ bentonite	- 7 - - 7 - - 8 -	GM		Gravel, with some fine	es
	 - 9 -			,	
	- 10 -	SC	1	Very gravelly sandy lo	oam, light olive brown 2.5Y5/4
TD 10.0'	- 11 -				
	 12				
	_ 13 _				
	 -14 -				
	 15				
	 16			*D1 1 DID	1'
	- 17 -			*Background PID read	dings indicated a maximum of 3ppm
	_ 18 _				
	 _ 19 _				
	_ 20 _				
	$\begin{bmatrix} - & - \\ -21 & - \end{bmatrix}$				
		•			
	_ 23 _				
	_ 24 _				
	27 -				
	_ 30 _				
	_ 31 _				
Ceres Associates	25	Former Gas St 547 East 27th Dakland, Calif	Street	Logged By: Will Kleiner Date: June, 2007 Drilling Method: Geoprobe 6600	LOG OF SOIL BORING CS-7
Project CA1264-6		Januara, Cum		-	SHEET 1 of 1

Soil Boring Completion Details	Depth	USCS Code	PID Reading* (ppm)	Soil Descri	iption
1.5" Dia. Borehole	- 1	SC		Sandy loam, light o medium gravel	live brown 2.5Y5/4, with small and
Portland cement/ bentonite	- 5 - - 6 - - 7 - - 8 -	SC		Gravelly sandy loar	m, light olive brown 2.5Y5/4, wet
	_ 9 _ _ 10 _	SC	1		ght olive brown 2.5Y5/4, 5Y4/4) inclusions, moist
TD 10.0'	- 10			*Background PID read	dings indicated a maximum of 3ppm
Ceres Associates Project CA1264-6	25	Former Gas St 547 East 27th Dakland, Calif	Street	Logged By: Will Kleiner Date: June, 2007 Drilling Method: Geoprobe 6600	LOG OF SOIL BORING CS-6

Soil Boring Completion Details	Depth	USCS Code	PID Reading* (ppm)	Soil Description	
1.5" Dia.		GM		Gravel, with some fines	
Borehole	- 1	CL	7	Sandy clay, dark olive grey 5Y3	/2
Portland cement/	- 5 - - 6 - - 7	CL	1	Clay, black 2.5Y2.5/1, moist, m	ild petroleum odor
bentonite	- 7 -		2		
	_ 8 _ _ 9 _ 	CL	1	Sandy clay, dark grey5Y4/1, wit no petroleum odor	th some gleying (5GY6/1),
TD 10.0'	- 10			*Background PID readings indic	cated a maximum of 3ppm
Ceres Associates	23	Former Gas St 547 East 27th	Street	Logged By: Will Kleiner Date: June, 2007 Drilling Method: Geoprobe 6600	G OF SOIL BORING CS-5

Soil Boring Completion Details	Depth	USCS Code	PID Reading* (ppm)	Soil Descri	iption
1.5" Dia. Borehole	- 1 - - 1 - - 2 -	SM		Gravelly sandy loam, o	live brown 2.5Y4/4,
	_ 3 _ _ 3 _ _ 4 _ 	CL		Silty clay, black 5Y2.5/2	, with small gravel and rust color veins
	- 5 -	CL		Clay, black 5Y2.5/1	
Portland cement/	6 -				
bentonite	- 7 - - 8 - - 9 - - 10	CL		Clay, olive brown 2.5Y	4/4, with small gravel, moist
TD 10.0'	- 10			*Background PID re	adings indicated a maximum of 3ppm
Ceres Associates Project CA1264-6	23	Former Gas St 547 East 27th Dakland, Calif	Street	Logged By: Will Kleiner Date: June, 2007 Drilling Method: Geoprobe 6600	LOG OF SOIL BORING CS-4

Soil Boring Completion Details	Depth	USCS Code	PID Reading* (ppm)	Soil Description
1.5" Dia. Borehole	- 1 - - 1 - - 2 - - 3 -	SC	2	Mixed gravel and sandy clay, olive brown 2.5Y4/3, with grey/white fines
	4 -	CL	3	Silty clay, olive brown 2.5Y 4/4
Portland cement/ bentonite	- 5 - - 6 - - 7 -	CL	1	Clay, very dark grey 2.5Y3/1, moist
	- 8 - - 9 - - 10 -	CL	3	Gravelly sandy clay, dark greyish brown 10YR4/2, moist
TD 10.0'	- 10			*Background PID readings indicated a maximum of 3ppm
Ceres		Former Gas St 547 East 27th		Logged By: Will Kleiner Date: June, 2007 LOG OF SOIL BORING CS. 2



Soil B Compl Deta	etion	Depth	USCS Code	PID Reading* (ppm)	Soil Descri	iption
	1.5" Dia.		SM		Mixed gravel and clay	loam, olive brown 2.5Y4/4
	Borehole		SC		Sandy clay, black 2.5Y	2.5/1
		_ 2 _	SC	4	Clay, black 2.5Y2.5/1,	with some small gravel
ш		_ 3 _ _ 4 _ 5	CL	1	Sandy clay, black 2.5Y	72.5/1
Portland cement/bentonite		- 5 - - 6 - - 7 -	CL	2	Clay, black 2.5Y2.5/1,	with small gravel, moist
		_ 8 _ _ 9 _	CL		Silty clay,2.5Y4/4 olive	e brown, moist
TD 1]	_ 10 _	SC	1	Silty clay, olive 5Y5/6,	, with patches of clay, black 2.5Y2.5/1
		- 11			*Background PID readi	ngs indicated a maximum of 3ppm
(A)	Ceres		Former Gas S 547 East 27th		Logged By: Will Kleiner Date: June, 2007	LOG OF SOIL BORING CS-2

Associates Project CA1264-6

2547 East 27th Street Oakland, California

Date: June, 2007 Drilling Method: Geoprobe 6600

CS-2

SHEET 1 of 1

Con	Soil Boring Completion Details		USCS Code	PID Reading*	Soil Descri	ption
D	etaiis	Depth		(ppm)		
	1.5" Dia. Borehole	 - 1 -	GC			d sandy clay, dark olive grey 5Y3/2
	Borenoie	_ 2 _	SC	4		ck 2.5Y2.5/1 with grey/white fines
		_ 3 _	CL		Sandy clay, brow with grey/white	vn (and other colors)10YR4/3, fines
		- 4 - - 5 -	CL	1	Clay, black 2.5Y	Y2.5/1
Portland cement/bentonite		- 6 - - 7 -	CL	1	Silty clay, very of somewhat mois	dark greyish brown 2.5Y3/2,
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	TD 10.0'	_ 8 _ _ 9 _	GC		Mixed gravel v	with some clayey fines, moist
		_ 10	CL		Sandy clay, ol	ive brown 2.5Y4/4, moist
		- 11			*Background PID read	ings indicated a maximum of 3ppm
10	Ceres	F	Former Gas St	tation	Logged By: Will Kleiner	LOG OF SOIL BORING



				I	
Soil Boring Completion Details	Depth	Sample Interval	USCS Code		Soil Description
1.5" Dia. Borehole	 - 1 - - 2 -		GM	Mixed gravel and loan	m, olive brown 2.5Y4/4
Portland cement/	- 3		CL	Clay with some silt and 10YR2/2, medium pla	d sand, very dark greyish brown
bentonite	- / - 8		CL	Clay, dark olive, 5Y3/ some fine sands	2, high plasticity, with
	- 13 - - 13 - - 14 - 15 -		SC		ined sand with 30% clay, moist, 75/4,medium plasticity.
	16 17 18		CL	Sandy clay, with 20% high plasticity	gravel, reddish brown 5YR 4/4,
	- 20 - - 21 - - 22		CL	Sandy clay, with 30% 5YR4/4, high plastic	% gravel,very moist, reddish brown ity
TD 27.5'	22		CL	Clay, with some silt high plasticity	, very dense, black, 2.5Y5/4,
10 21.3	-28 - -29 - -30 - -31 -			Refusal at 27.5'	
Ceres Associates Project CA1264-6	25		as Station 27th Street California	Logged By: Ken Durand Date: September, 2006 Drilling Method: Geoprobe 6600	LOG OF SOIL BORING SB-25 SHEET 1 of 1

	Date Con Logged E Total Dep	Ву:	ed:		6/19/02 G. Knopp 19.0 ft		Sampler: Macro-Core System EC-5 Method: 3" O.D. Sampler Hammer Wt: Vibratory Push Location: northeast corner of property Elevation: approx. 110'	
Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	PID (ppm)	nscs	Description	Remarks
1 2 3 4 5 - 6 7 8 9 10 - 11 12 13 14 15 - 16 17 18 19 20 - 21					37 170 117 75 31 157 19 11 5 6 4 4 2 3 1.2 0.9 0.3 0.4 3 0 0		SANDY GRAVEL (GW), brown, slightly moist, fine to coarse grained gravel, fine grained sand - hand dug to 4' until free hydrocarbon product observed in soil SiLTY CLAY WITH SOME SAND (CL), dark gray-brown to black, moist, very fine grained sand, free hydrocarbon product in soil, highly plastic - no sand, olive-gray to olive-brown - olive-gray - some fine grained sand present, very moist SANDY CLAY (SC), orange-brown, fine to coarse grained sand, wet at 14' - some fine grained angular to subangular chert gravel present, fine to coarse grained sand GRAVELLY SAND WITH CLAY (SW), wet, light brown, fine to coarse	¥
22 23 24 25 PR	OJECT NO			1 N	FEL	DE	R LOG OF BORING NO. EB-1 Tomorrow Development Site 2547 E. 27th Street Oakland, California	PLATE A2

····	Date Com Logged B Total Dep	y :	d: 		6/19/02 G. Knopp 16.0 ft		Sampler: Macro-Core System EC-5 Method: 3" O.D. Sampler Vibratory Push Location: 5' from south perimeter, 27' west of 27th St Elevation: approx. 110'	
Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	PID (ppm)	nscs	Description	Remarks
1 2 3 4 5 6 7 8 9 10-11 12 13 14 15 16 17 18 19 20 21 22 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25					66 162 100 85 52 20 20 0 0 0		- hand dug to 5' SILTY CLAY (CL/CH), very dark gray, moist - gray to orange-brown, trace fine to medium grained sand present SILTY CLAY (CL), orange-brown, moist, increasing sand SANDY CLAY WITH TRACE GRAVEL (SC), light olive-gray with orange-brown mottling, mosit to very moist, fine grained sand GRAVELLY SAND WITH SOME CLAY (SW), orange-brown, wet END OF BORING - 5' of 1" diameter screen inserted Boring backfilled with grout Ground water encountered at 7.5' bgs.	₽
C. GARANDEPPROJECTBI OMORADA LEVEL CIPARENT SCIANOS CONTRACTOR CON				17500	NFEL	DE	R Tomorrow Development Site 2547 E. 27th Street Oakland, California	PLATE A3

		Date Comp	lete	d:		6/19/02			Sampler: Macro-Core System EC-5 Method: 3" O.D. Sampler Hammer Wt: Vibratory Push				
		Logged By	:			G. Кпорр							
								Location: near middle of site Flevation: approx. 110'					
	Total Depth: 11.0 ft 11.0 ft					(mdd) Qid	nocs	Description GRAVELLY SAND (SW), brown, slightly moist SILTY CLAY (CL/CH), red-brown to black, moist - black, very moist - wet 4.5' to 6.5'					Remarks
UKSKNOPPVROJECTSITOMORROW DEVELOPMENTBORINGS.GPJ						0000		SILTY CLAY (CL), orange-brown, moist CLAYEY SAND WITH SOME GRAVEL (SC), orange to orange-brown, moist CLAYEY GRAVEL WITH SAND (GW), orange-brown, wet, fine to coarse grained sand, fine to medium grained angular to subangular chert, sandstone, and claystone gravel END OF BORING - 2' of screen inserted. Boring backfilled with grout. - Ground water encountered at 9' bgs.				/	
RROW DEVEL	24 1 25												
PROJECTSYTOMO			 < L	. E l	N	FEL	DΕ	R	LOG OF E	Developm			PLATE
UNGKNOPPV	PRO	JECT NO.		17	'500				2547 E. 27 Oakland, C			<u></u>	A4