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Revised Soil Excavation Report:

Former Gas Station
2547 East 27th Street
Oakland, California

Date:

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:

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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

A handwritten signature in green ink, appearing to read "Ryan Meyer", is written over a light blue horizontal line.

Ryan Meyer, R.E.A.
Project Manager

Kimberly Brandt

Kimberly A. Brandt, R.G., C.H.G.
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 attached document or report is true and correct to the best of my knowledge.


Ted Dang, President

7/12/06
Date

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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 Oil/Hydraulic Oil	TPHmo/ho
Benzene	Collectively, BTEX
Toluene	
Ethylbenzene	
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 from 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. recommended 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 conducted 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 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 ($\mu\text{g/L}$). The groundwater sample collected from monitoring well EB-2 was reported to contain TPHg at 82 $\mu\text{g/L}$, TPHd at 360 $\mu\text{g/L}$, and TPHmo at 310 $\mu\text{g/L}$. A groundwater sample from monitoring well EB-3 reportedly contained concentrations of TPHd at 270 $\mu\text{g/L}$ and TPHmo at 540 $\mu\text{g/L}$. Only EB-2 had reported concentrations of BTEX compounds. This well had concentrations of benzene at 0.97 $\mu\text{g/L}$, toluene at 1.3 $\mu\text{g/L}$, and xylenes at 1.3 $\mu\text{g/L}$. 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 assess 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 µg/L (SB-9); 750,000 µg/L for TPHd (SB-9); 140 µg/L for benzene (SB-9); 1.5 µg/L for toluene (SB-1: note, however, that the result for SB-9 was reported as ND<50); 77 µg/L for ethylbenzene (SB-9); and 20 µg/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 µg/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 µg/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 TPHo 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 off-site, 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 µg/L in SB-21 (on the Property), 74 µg/L in SB-14 (east of the Property), and 51 µg/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 µg/L, immediately south of the Property and SB-13 at 1,300 µg/L, east of the Property. On-site TPHd contamination was reported as high as 910 µg/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 µg/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 µg/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 Sausal Creek; however, all of the wells identified within the search radius are located east of Sausal 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 stratigraphy 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 µg/L of benzene at 21 feet bgs. This result falls below the Residential ESL of 1 µg/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 µg/L chloroform, 0.51 µg/L of bromoform, 0.55 µg/L of dichlorobromomethane, and 1.5 µg/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 µg/L of TPHg (*exceeding the ESL of 100 µg/L*); 800 µg/L of TPHd (*exceeding the ESL of 100 µg/L*); 270 µg/L of TPHmo (*exceeding the ESL of 100 µg/L*); 1.0 µg/L of benzene; 3.9 µg/L of ethylbenzene; and 3.2 µg/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 Concentration (on-site)	Maximum Soil Concentration (off-site)	Maximum Groundwater Concentration (on-site)	Maximum Groundwater Concentration (off-site)	April 2007 Groundwater sample (on-site)	April 2007 Groundwater Sample (off-site)
	<i>Milligrams/Kilogram (mg/Kg)</i>		<i>Micrograms/Liter (µg/L)</i>			
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	9	TPHg, TPHd, TPHmo using US EPA Method 8015C BTEX using US EPA Method 8021B
I-9-W		
I-9-S		
I-9-E		
II-9-N		
II-9-W		
II-9-S		
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 Locations: Subsequent Soil Sampling

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



	and 10.0 ft bgs	ft bgs	
CS-5	2.5; 5.0; 7.5; and 10.0 ft bgs	5.0 and 10.0 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 BTEX using US EPA Method 8260B
CS-8	10.0 ft bgs	10.0 ft bgs	

*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.

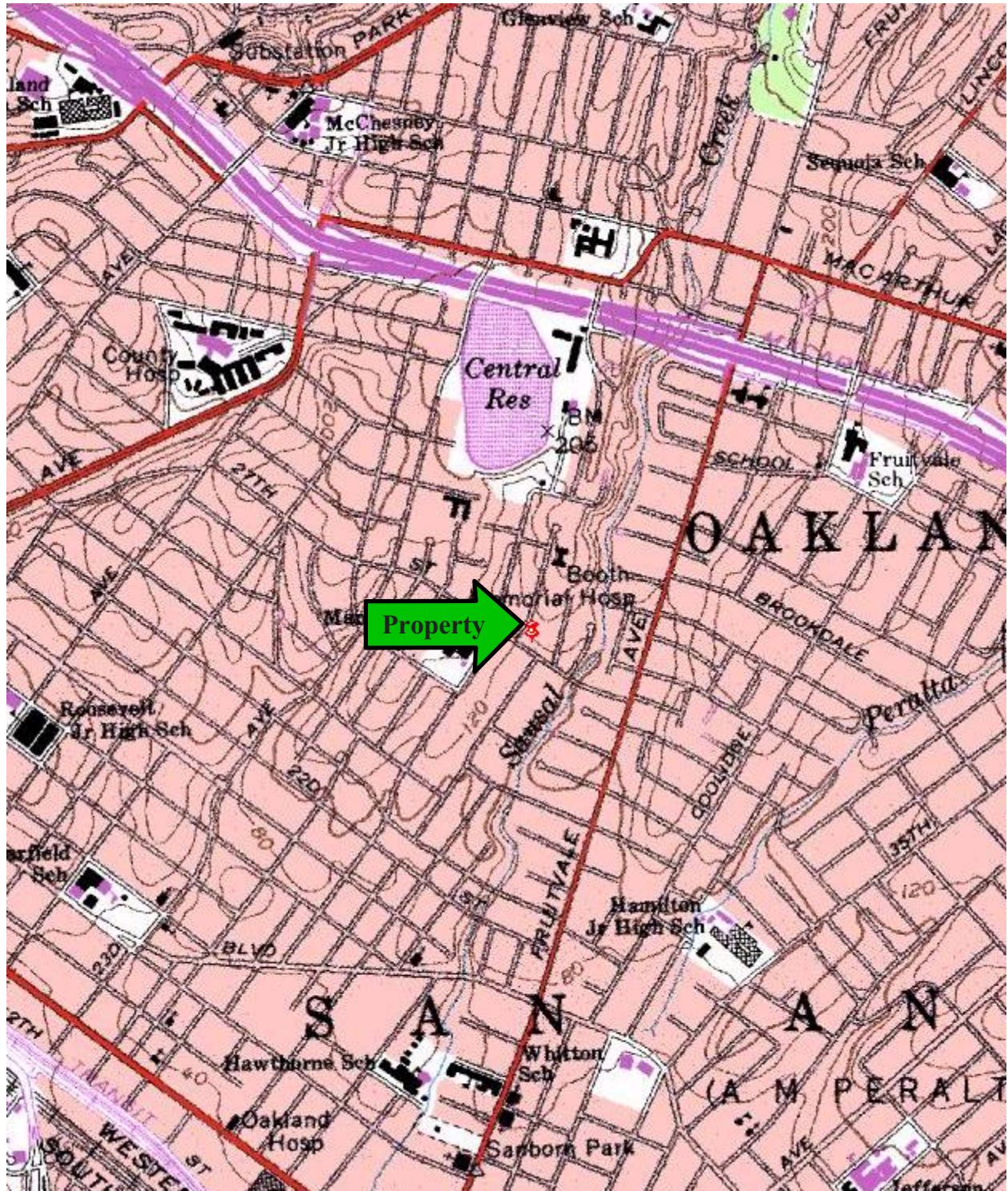
Any potential affected soil that is encountered will be excavated and confirmation soil samples will be collected and analyzed for TPHg, TPHd, TPHmo, and BTEX. The excavation will then be backfilled with clean materials. ACHCSA will be notified of the sampling results prior to backfilling and will be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

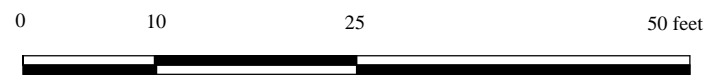
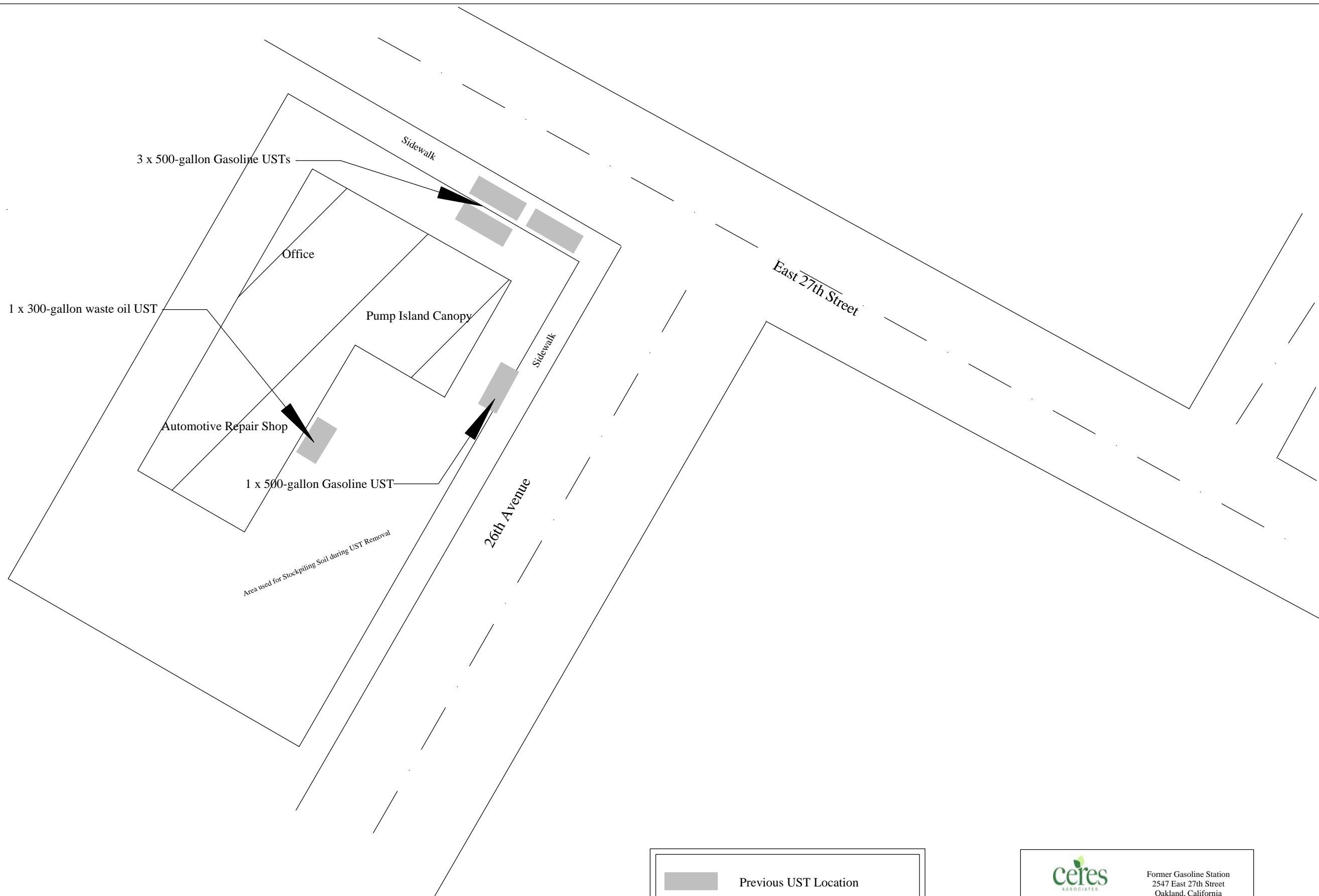




Project CA1264-6


Former Gasoline Station
 2547 East 27th Street
 Oakland, California

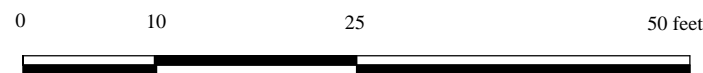
TOPOGRAPHIC MAP

**FIGURE
 1**



	Previous UST Location
	Previous Building Location


 Project CA1264-6	Former Gasoline Station 2547 East 27th Street Oakland, California	
	<table border="1"> <tr> <td> Previous USTs and Developments </td> <td> Figure 2 </td> </tr> </table>	Previous USTs and Developments
Previous USTs and Developments	Figure 2	

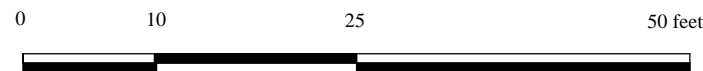
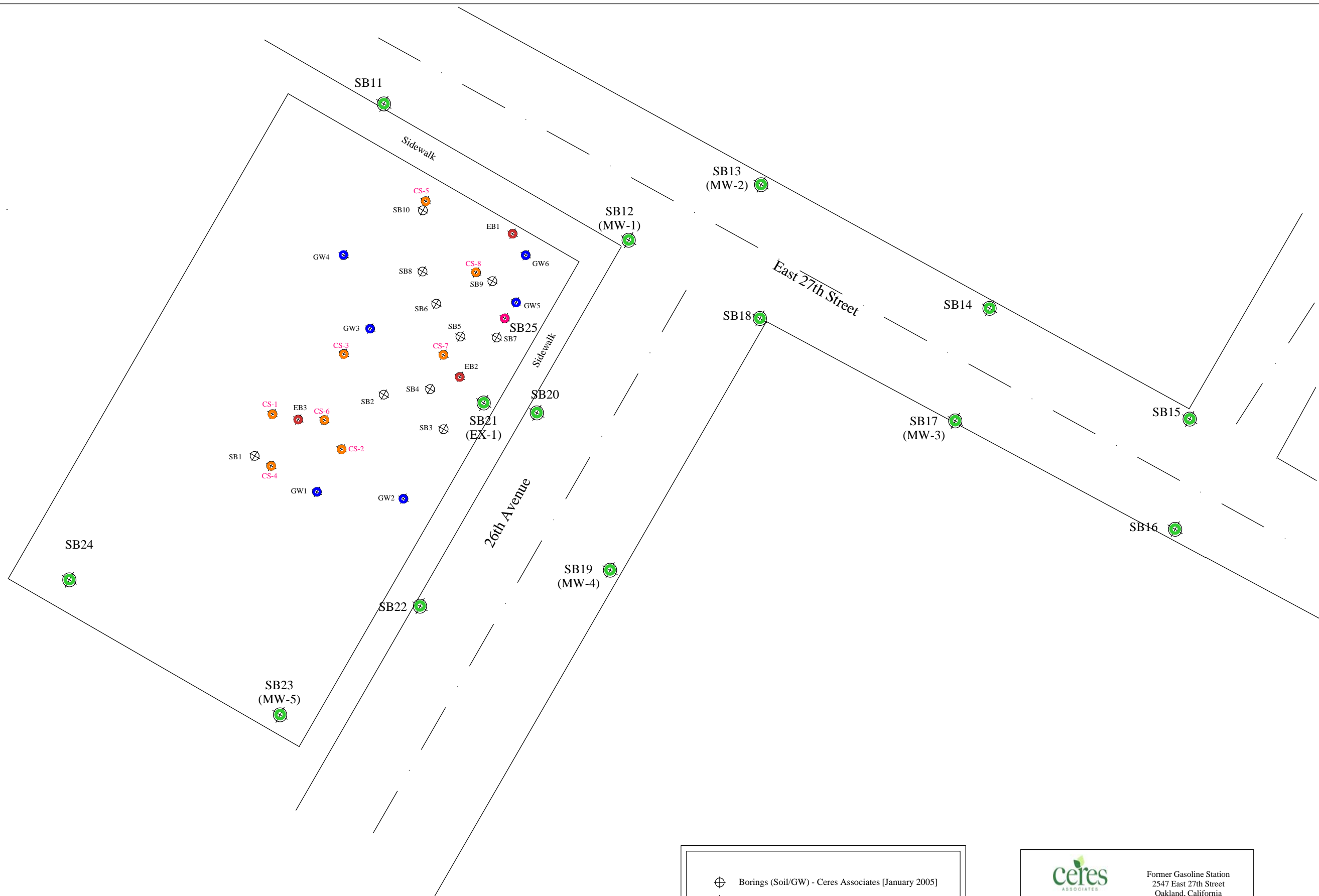


	Monitoring Wells - Kleinfelder [June 2002]
	Monitoring Wells - Ceres Associates [February 2006]
	Extent of Planned Soil Excavation
	Extent of Former Soil Excavation [August 1994]


 Former Gasoline Station 2547 East 27th Street Oakland, California Project CA1264-6	Figure 5

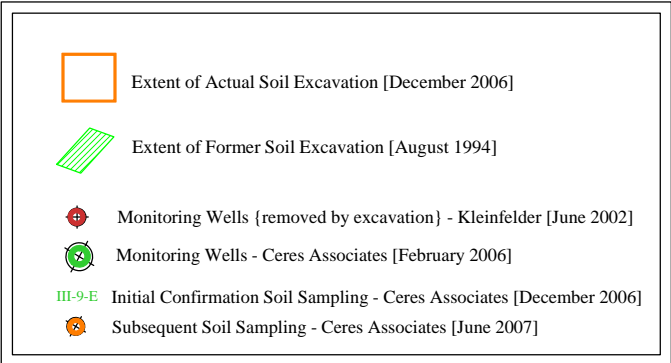
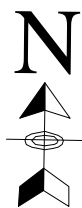
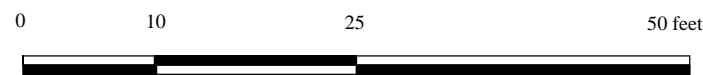
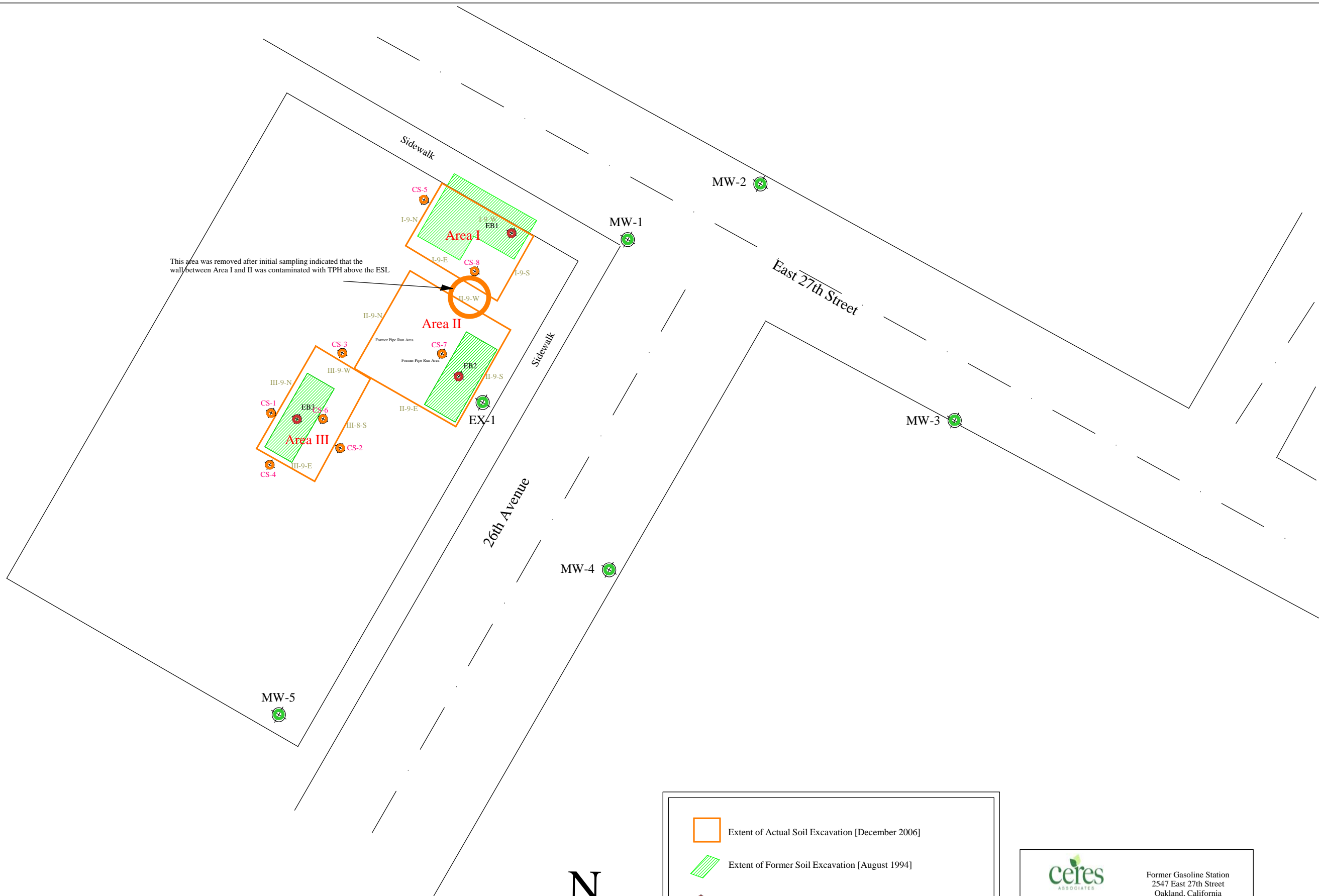


 Former Gasoline Station 2547 East 27th Street Oakland, California Project CA1264-6	Monitoring Well Location Map
	Figure 4



- ⊕ Borings (Soil/GW) - Ceres Associates [January 2005]
- ⊕ Borings (GW only) - Ceres Associates [January 2005]
- ⊕ Borings (Soil/GW) - Kleinfelder [June 2002]
- ⊕ Borings (Soil/GW) - Ceres Associates [February 2006]
- ⊕ Boring (GW only) - Ceres Associates [September 2006]
- ⊕ Subsequent Soil Sampling - Ceres Associates [June 2007]

 Former Gasoline Station 2547 East 27th Street Oakland, California Project CA1264-6	Boring Location Map
	Figure 3



 Former Gasoline Station 2547 East 27th Street Oakland, California Project CA1264-6	Actual Excavation Map
	Figure 6

Tables

Table 1: Soil Sampling During UST Removal - August 1994

Site: 2547 East 27th Street, Oakland, California
Sampling Dates: August 30 and 31, 1994

Soil Sample Results

		TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Xylenes	Oil & Grease
<i>ESL (Table A-1): Residential Site, shallow soils, where Groundwater IS a current or potential source of drinking water</i>		100	100	0.044	2.9	3.3	2.3	500
		<i>concentrations are reported in milligrams per kilogram, mg/Kg</i>						
Sample	Sample Location*							
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		0.36	0.66	1.4	1.8	
STKP-West	Stockpiled soil	860	NA	ND<0.005	0.72	1.9	2.1	NA

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

* 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

Site: 2547 East 27th Street, Oakland, California
Sampling Dates: June 19, 2002

Soil Sample Results

	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead
<i>ESL (Table A-1): Residential Site, shallow soils, where Groundwater IS a current or potential source of drinking water</i>	100	100	500	0.044	2.9	3.3	2.3	0.023	150
Boring	<i>concentrations reported as milligrams per kilogram, mg/Kg</i>								
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

Groundwater Sample Results

	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead
<i>ESL (Table F-1a): Groundwater IS a current or potential source of drinking water</i>	100	100	100	1	40	30	20	5	2.5
<i>ESL (Table E-1a): Potential Vapor Intrusion; High Permeability Soils, Residential Use</i>	<i>use soil gas</i>	<i>use soil gas</i>	<i>use soil gas</i>	540	380,000	170,000	160,000	24,000	NE
Boring	<i>concentrations reported as micrograms per liter, µg/L</i>								
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
EB-3	ND	270	540	ND	ND	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)
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

Site: 2547 East 27th Street, Oakland, California
Sampling Dates: January 7, 2005

Soil Sample Results

	TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
<i>ESL (Table A-1): Residential Site, shallow soils, where Groundwater IS a current or potential source of drinking water</i>	100	100	0.044	2.9	3.3	2.3	0.023
Sample	<i>concentrations reported as milligrams per kilogram, mg/Kg</i>						
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
<i>ESL (Table F-1a): Groundwater IS a current or potential source of drinking water</i>	100	100	1	40	30	20	5
<i>ESL (Table E-1a): Potential Vapor Intrusion; High Permeability Soils, Residential Use</i>	<i>use soil gas</i>	<i>use soil gas</i>	540	380,000	170,000	160,000	24,000
Sample	<i>concentrations reported as micrograms per liter, µg/L</i>						
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

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

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

Groundwater Sample Results

	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	EDB	1,2-DCA	Lead
<i>ESL (Table F-1a): Groundwater IS a current or potential source of drinking water</i>	100	100	100	1	40	30	20	0.05	0.5	2.5

<i>ESL (Table E-1a): Potential Vapor Intrusion; High Permeability Soils, Residential Use</i>	<i>use soil gas</i>	<i>use soil gas</i>	<i>use soil gas</i>	540	380,000	170,000	160,000	150	200	NE
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Sample	<i>concentrations reported in micrograms per liter, µg/L</i>										
SB11-GW	ND	150	730	ND	ND	ND	ND	ND	ND	ND	29
SB12-GW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB13-GW	ND	1300	7900	ND	ND	ND	ND	ND	ND	ND	ND
SB14-GW	74	190	400	ND	ND	ND	1.7	ND	ND	ND	19
SB15-GW	ND	790	4900	ND	ND	ND	ND	ND	ND	ND	19
SB16-GW	ND	ND	310	ND	ND	ND	ND	ND	ND	ND	ND
SB17-GW	ND	ND	ND	ND	1.4	ND	0.51	ND	ND	ND	2.4
SB18-GW	ND	470	2300	ND	ND	ND	ND	ND	ND	ND	17
SB19-GW	51	89	ND	ND	ND	ND	ND	ND	ND	ND	2.5
SB20-GW	ND	280	2200	ND	ND	ND	ND	ND	ND	ND	18
SB21-GW	1500	910	ND	ND	ND	1.3	1.8	ND	ND	ND	16
SB22-GW	ND	3600	28000	ND	ND	ND	ND	ND	ND	ND	19
SB23-GW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13
SB24-GW	ND	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

Site: 2547 East 27th Street, Oakland, California
Sampling Dates: September 20, 2006

	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
<i>ESL (Table F-1a): Groundwater IS a current or potential source of drinking water</i>	100	100	100	1	40	30	20	5
<i>ESL (Table E-1a): Potential Vapor Intrusion; High Permeability Soils, Residential Use</i>	<i>use soil gas</i>	<i>use soil gas</i>	<i>use soil gas</i>	540	380,000	170,000	160,000	24,000
Target Depth	<i>Concentrations reported as micrograms per liter, $\mu\text{g/L}$</i>							
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

Site: 2547 East 27th Street, Oakland, California
Sampling Dates: Multiple (see below)

Well	(TOC)	Sample Date	Depth to Groundwater (ft)	Groundwater Elevation (ft amsl)	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
<i>Concentrations reported as micrograms per Liter (µg/L)</i>												
<i>ESL (Table F-1a): Groundwater IS a current or potential source of drinking water</i>					100	100	100	1	40	30	20	5
<i>ESL (Table E-1a): Potential Vapor Intrusion; High Permeability Soils, Residential Use</i>					use soil gas	use soil gas	use soil gas	540	380,000	170,000	160,000	24,000
MW-1		8/24/2006	4.63	104.12	ND	ND	NA	ND	ND	ND	ND	ND
108.75		11/17/2006	4.50	104.25	ND	ND	ND	ND	ND	ND	ND	ND
		1/30/2007	4.14	104.61	ND	78	280	ND	ND	ND	ND	ND
		4/30/2007	4.04	104.71	ND	ND	ND	ND	ND	ND	ND	ND
MW-2		8/24/2006	4.26	105.29	ND	78	NA	ND	ND	0.65	1.5	ND
109.55		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
MW-3		8/24/2006	4.40	104.00	ND	ND	NA	ND	ND	ND	ND	ND
108.4		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
MW-4		8/24/2006	4.87	103.02	ND	ND	NA	ND	ND	ND	ND	ND
107.89		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
MW-5		8/24/2006	5.00	103.65	ND	ND	NA	ND	ND	ND	ND	ND
108.65		11/17/2006	3.30	105.35	ND	ND	ND	ND	ND	ND	ND	ND
		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
EX-1		8/24/2006	4.84	104.62	460	220	NA	ND	ND	ND	ND	ND
109.46		11/17/2006	4.38	105.08	270	130	ND	ND	ND	ND	1.9	ND
		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

Site: 2547 East 27th Street, Oakland, California
Sampling Dates: December 1 and 2, 2006

PID readings taken of sidewalls and floor during excavation process

Excavation / PID sample location	2 ft bgs	4 ft bgs	6 ft bgs	8 ft bgs	9.5 ft bgs
	<i>(reported as parts per million, ppm)</i>				
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
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

Site: 2547 East 27th Street, Oakland, California
Sampling Dates: December 1 and 2, 2006

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

Key

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

Site: 2547 East 27th Street, Oakland, California
Sampling Dates: June 25, 2007

Sample	PID Reading (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

*Note: Background PID readings during sampling were between 1.0 and 3

Table 10: Ceres Associates Additional Soil Sampling - June 2007

Site: 2547 East 27th Street, Oakland, California
Sampling Dates: June 25, 2007

Sample	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	Chromium	Lead	Nickel	Zinc
<i>Concentrations reported in milligrams per kilogram, mg/Kg</i>											
<i>ESL (Table A-1): Residential Site, shallow soils, where Groundwater IS a current or potential source of drinking water</i>	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								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								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

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

Key

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

Appendix

Property Photographs



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.

Laboratory Data Sheets



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Ceres Associates 424 First Street Benicia, CA 94510	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
		Date Received: 06/25/07
	Client Contact: Ryan Meyer	Date Reported: 07/03/07
	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. McC Campbell 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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CHAIN OF CUSTODY RECORD
TURN AROUND TIME RUSH 24 HR 48 HR 72 HR 5 DAY
 GeoTracker EDF PDF Excel Write On (DW)
 Check if sample is effluent and "J" flag is required

Report To: Ryan Meyer Bill To: Ryan Meyer
 Company: Ceres Associates
424 East St
Danville, CA 94510
 Tele: (907) 248-3170 E-Mail: ryan.meyer@ceresassociates.com
 Project #: LA1264-6 Fax: (907) 248-3171
 Project Location: Oakland, CA Project Name: LA1264-6
 Sampler Signature: [Signature]

Analysis Request Other Comments


SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX				METHOD PRESERVED			Analysis Request	Other	Comments	
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL				HNO ₃
CS4-7.5		6/25/07		1		X				X						
CS4-10																
CS5-2.5																
CS5-5																
CS5-7.5																
CS5-10																
CS6-10																
CS7-10																
CS8-10																
Nothing further																

Analysis Request:
 BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE
 TPH as Diesel (8015)
 Total Petroleum Oil & Grease (TPOG) (8620) (8620)
 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 PCR's ONLY; Aroclors / Congeners
 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) (ENAS)
 CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)
 CUET 5 Metals (800.7 / 200.8 / 6010 / 6020)
 Lead (200.7 / 200.8 / 6010 / 6020)
 1,1-dioxane by 8370M
 9071 PCBs, PAH/PNA, VOCs
 butyl and 1-hexane added
 7/12/07 add to
 Filter Samples for Metals analysis: Yes / No

Relinquished By: John Welsh Date: 6/25/07 Time: 12:47
 Relinquished By: ENVIRO-TECH SERVICES AA Date: 6/25/07 Time: 3:16
 Relinquished By: [Signature] Date: 6/25/07 Time: 3:45

Received By: ENVIRO-TECH SERVICES AA
 Received By: [Signature]
 Received By: John Welsh
 ICE/#
 GOOD CONDITION
 HEAD SPACE ABSENT
 DECHLORINATED IN LAB
 APPROPRIATE CONTAINERS
 PRESERVED IN LAB
 COMMENTS:
 VOAS O&G METALS OTHER
 pH<2

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 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 070663 A **ClientID: CAB**

EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty

Report to:

Ryan Meyer
 Ceres Associates
 424 First Street
 Benicia, CA 94510

Email: ryanmeyer@ceresassociates.com
 TEL: (707) 748-317 FAX: (707) 748-317
 ProjectNo: #CA1264-6
 PO:

Bill to

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

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0706632-021	CS6-10	Soil	06/25/07	<input type="checkbox"/>	B	B	B	B	B	B							

Test Legend:

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

Prepared by: Melissa Valles

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

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.



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

Lab ID	Client ID	Matrix	1,4-Dioxane	DF	% SS
021B	CS6-10	S	ND	1	93

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	0.02	mg/kg

* 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.



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

Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*

Extraction Method: SW3550C

Analytical Method: SW8082A

Work Order: 0706632

Lab ID	0706632-021B			Reporting Limit for DF =1	
Client ID	CS6-10				
Matrix	S				
DF	1				S

Compound	Concentration				mg/kg	ug/L
Aroclor1016	ND				0.025	NA
Aroclor1221	ND				0.025	NA
Aroclor1232	ND				0.025	NA
Aroclor1242	ND				0.025	NA
Aroclor1248	ND				0.025	NA
Aroclor1254	ND				0.025	NA
Aroclor1260	ND				0.025	NA
PCBs, total	ND				0.025	NA

Surrogate Recoveries (%)

%SS:	113			
------	-----	--	--	--

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;



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

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

Surrogate Recoveries (%)

%SS1:	98	%SS2:	94
%SS3:	96		

Comments:

* 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.



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Ceres Associates 424 First Street Benicia, CA 94510	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
		Date Received: 06/25/07
	Client Contact: Ryan Meyer	Date Extracted: 07/13/07
	Client P.O.:	Date Analyzed: 07/22/07

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

Extraction Method: SW3550C

Analytical Method: SW8270C

Work Order: 0706632

Lab ID	0706632-021B			Reporting Limit for DF =1
Client ID	CS6-10			
Matrix	S			
DF	1			

Compound	Concentration			mg/kg	ug/L
	Acenaphthene	ND			0.005
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

Surrogate Recoveries (%)

%SS1	70			
%SS2	79			

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.



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

Hexane Extractable Material without Silica Gel Treatment*

Analytical methods: SW9071B

Work Order: 0706632

Lab ID	Client ID	Matrix	HEM	DF	% SS
0706632-021B	CS6-10	S	ND	1	N/A

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	50	mg/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.



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

LUFT 5 Metals*

Extraction method SW3050B

Analytical methods 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

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL^	NA	NA	NA	NA	NA	NA	NA
	S	TOTAL^	1.5	1.5	5.0	1.5	5.0	mg/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.

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^ = 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 surrogate 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			Spiked Sample ID: 0707252-009A				
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
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.

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 SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0706632

EPA Method SW8260B		Extraction SW5030B			BatchID: 29305			Spiked Sample ID: N/A				
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
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	06/25/07	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.

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 SW8082A

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0706632

EPA Method SW8082A		Extraction SW3550C			BatchID: 29229			Spiked Sample ID: 0707181-034A				
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
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	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.

$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$; $\text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$.

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 SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0706632

EPA Method SW8260B	Extraction SW5030B			BatchID: 29231			Spiked Sample ID: 0707181-036A						
	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
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	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.

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 SW8270C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0706632

EPA Method SW8270C	Extraction SW3550C			BatchID: 29292			Spiked Sample ID: 0707246-006A						
	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
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:
NONE

BATCH 29292 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	07/22/07 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.



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	Acceptance Criteria (%)			
	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	06/25/07	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.

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



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Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Ceres Associates 424 First Street Benicia, CA 94510	Client Project ID: #CA1264-6	Date Sampled: 06/25/07
		Date Received: 06/25/07
	Client Contact: Ryan Meyer	Date Reported: 07/03/07
	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. McC Campbell 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

cab 0706032

1 of 2



McCAMPBELL ANALYTICAL, INC.
 1534 WILLOW PASS ROAD
 PITTSBURG, CA 94565-1701
 Website: www.mccampbell.com Email: main@mccampbell.com
 Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD
 TURN AROUND TIME RUSH 24 HR 48 HR 72 HR 5 DAY
 GeoTracker EDF PDF Excel Write On (DW)
 Check if sample is effluent and "J" flag is required

Report To: Ryan Meyer Bill To: Ryan Meyer
 Company: Ceres Associates
424 First St.
Benicia, CA 94510 E-Mail: ryan.meyer@ceresassociates.com
 Tele: (707) 748-3170 Fax: (707) 748-3171
 Project #: CA1264-6 Project Name:
 Project Location: Oakland, CA
 Sampler Signature: [Signature]

Analysis Request Other Comments

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				Analysis Request	Other	Comments
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other			
CS1-2.5		6/25/07		1		X					X						Filter Samples for Metals analysis: Yes / No 1.4 dioxane by 8260M
CS1-5																	
CS1-7.5																	
CS1-10																	
CS2-2.5																	
CS2-5																	
CS2-7.5																	
CS2-10																	
CS3-2.5																	
CS3-5																	
CS3-7.5																	
CS3-10																	
CS4-2.5																	
CS4-5																	

Analysis Request:
 BTX & TPH as Gas (602 / 8021 + 8015) / MTBE
 TPH as Diesel (8015) + Motor Oil
 Total Petroleum Oil & Grease (1664-6620-68&E)
 Total Petroleum Hydrocarbons (418.1) 9070
 EPA 502.2 / 601 / 8010 / 8021 (HVOCs)
 MTBE / BTEX ONLY (EPA 602 / 8021)
 EPA 505 / 608 / 8081 (CI Pesticides)
 EPA 608 / 8082 (PCB's ONLY; Aroclors / Congeners)
 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 / 6020)
 LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)
 Lead (200.7 / 200.8 / 6010 / 6020)

Relinquished By: John Welch Date: 06/25/07 Time: 12:47
 Relinquished By: Enviro-Tech Services AA Date: 6/25/07 Time: 3:30
 Relinquished By: [Signature] Date: 6/29/07 Time: 3:45
 Received By: ME VALL

COMMENTS:
 ICE/GOOD CONDITION ✓
 HEAD SPACE ABSENT ✓
 DECHLORINATED IN LAB ✓
 APPROPRIATE CONTAINERS ✓
 PRESERVED IN LAB ✓
 Per R.M. 8260 for 1,4 Dioxane
 OK 6/26/07
 VOAS O&G METALS OTHER
 PRESERVATION pH<2



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CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

GeoTracker EDF PDF Excel Write On (DW)

Check if sample is effluent and "J" flag is required

Report To: Ryan Meyer Bill To: Ryan Meyer
Company: Ceres Associates
424 First St
Pleasanton, CA 94510
E-Mail: ryanmeyer@ceresassociates.com
Tele: (907) 248-3170 Fax: (907) 248-3171
Project #: LA1264-6 Project Name: LA1264-6
Project Location: Oakland, CA
Sampler Signature: [Signature]

Analysis Request Other Comments

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				Analysis Request	Other	Comments
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other			
CS4-7.5		6/25/07		1		X					X						Filter Samples for Metals analysis: Yes / No
CS4-10											X	X	X	X	X		
CS5-2.5											X	X	X	X	X		
CS5-5											X	X	X	X	X		
CS5-7.5											X	X	X	X	X		
CS5-10											X	X	X	X	X		
CS6-10											X	X	X	X	X		
CS7-10											X	X	X	X	X		
CS8-10											X	X	X	X	X		
<u>Nothing further</u>																	

Analysis Request

BTEX & TPH as Gas (902 / 8021 + 8015) / MTBE
 TPH as Diesel (8015) X
 Total Petroleum Oil & Grease (1664-1664-1664-1664) X
 Total Petroleum Hydrocarbons (418.1) by 9070
 EPA 502.2 / 601 / 8010 / 8021 (HVOCs)
 MTBE / BTEX ONLY (EPA 602 / 8021)
 EPA 505 / 608 / 8081 (CI Pesticides)
 EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners
 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) (PNA)
 CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)
 CUP 5 Metals (200.7 / 200.8 / 6010 / 6020)
 Lead (200.7 / 200.8 / 6010 / 6020)
1,4 dioxane by 8270M

Relinquished By: John Walsh Date: 6/25/07 Time: 12:47
 Relinquished By: ENVIRO-TECH SERVICES AA Date: 6/25/07 Time: 3:16
 Relinquished By: [Signature] Date: 6/25/07 Time: 3:15

ICE/r* _____
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____
 VOAS O&G METALS OTHER
 PRESERVATION pH<2

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0706632

ClientID: CAB

EDF Excel Fax Email HardCopy ThirdParty

Report to:

Ryan Meyer
Ceres Associates
424 First Street
Benicia, CA 94510

Email: ryanmeyer@ceresassociates.com
TEL: (707) 748-317 FAX: (707) 748-317
ProjectNo: #CA1264-6
PO:

Bill to:

Chwania Mejia
Ceres Associates
424 First Street
Benicia, CA 94510
cmejia@ceresassociates.com

Requested TAT: 5 days

Date Received 06/25/2007

Date Printed: 06/25/2007

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0706632-002	CS1-5	Soil	6/25/07	<input type="checkbox"/>	A	A	A	A	A	A	A	A		A			
0706632-004	CS1-10	Soil	6/25/07	<input type="checkbox"/>	A	A	A	A	A	A	A	A					
0706632-006	CS2-5	Soil	6/25/07	<input type="checkbox"/>	A	A	A	A	A	A	A	A					
0706632-008	CS2-10	Soil	6/25/07	<input type="checkbox"/>	A	A	A	A	A	A	A	A					
0706632-010	CS3-5	Soil	6/25/07	<input type="checkbox"/>	A	A	A	A	A	A	A	A					
0706632-012	CS3-10	Soil	6/25/07	<input type="checkbox"/>	A	A	A	A	A	A	A	A					
0706632-014	CS4-5	Soil	6/25/07	<input type="checkbox"/>	A	A	A	A	A	A	A	A					
0706632-016	CS4-10	Soil	6/25/07	<input type="checkbox"/>	A	A	A	A	A	A	A	A					
0706632-018	CS5-5	Soil	6/25/07	<input type="checkbox"/>	A	A	A	A	A	A	A	A					
0706632-020	CS5-10	Soil	6/25/07	<input type="checkbox"/>	A	A	A	A	A	A	A	A					
0706632-021	CS6-10	Soil	6/25/07	<input type="checkbox"/>							A		A				
0706632-022	CS7-10	Soil	6/25/07	<input type="checkbox"/>							A		A				
0706632-023	CS8-10	Soil	6/25/07	<input type="checkbox"/>							A		A				

Test Legend:

1	1,4-DIOXANE_S	2	8082A_PCB_S	3	8260B_S	4	8270D-PNA_S	5	9071B_SG_S
6	G-MBTEX_S	7	LUFT_S	8	MBTEX-8260B_S	9	PREDF REPORT	10	
11		12							

The following SampIDs: 002A, 004A, 006A, 008A, 010A, 012A, 014A, 016A, 018A, 020A, 021A, 022A, 023A contain testgroup.

Prepared by: Melissa Valles

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 Associates**

Date and Time Received: **6/25/07 3:52:26 PM**

Project Name: **#CA1264-6**

Checklist completed and reviewed by: **Melissa Valles**

WorkOrder N°: **0706632** Matrix Soil

Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Sample IDs noted by Client on COC? Yes No
- Date and Time of collection noted by Client on COC? Yes No
- Sampler's name noted on COC? Yes No

Sample Receipt Information

- Custody seals intact on shipping container/cooler? Yes No NA
- Shipping container/cooler in good condition? Yes No
- Samples in proper containers/bottles? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes No
- Container/Temp Blank temperature Cooler Temp: 6.2°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
- Sample labels checked for correct preservation? Yes No
- TTLC Metal - pH acceptable upon receipt (pH<2)? Yes No NA

Client contacted:

Date contacted:

Contacted by:

Comments:



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Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

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

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

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	0.02	mg/kg

* 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.



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

Ceres Associates 424 First Street Benicia, CA 94510	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: 06/26/07-06/27/07

Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*

Extraction Method: SW3550C

Analytical Method: SW8082A

Work Order: 0706632

Lab ID	0706632-002A	0706632-004A	0706632-006A	0706632-008A	Reporting Limit for DF =1	
Client ID	CS1-5	CS1-10	CS2-5	CS2-10		
Matrix	S	S	S	S		
DF	1	1	1	1		

Compound	Concentration				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

Surrogate Recoveries (%)

%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) florisisil (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;



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Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Ceres Associates 424 First Street Benicia, CA 94510	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: 06/26/07-06/27/07

Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*

Extraction Method: SW3550C

Analytical Method: SW8082A

Work Order: 0706632

Lab ID	0706632-010A	0706632-012A	0706632-014A	0706632-016A	Reporting Limit for DF =1	
Client ID	CS3-5	CS3-10	CS4-5	CS4-10		
Matrix	S	S	S	S		
DF	1	1	1	1		

Compound	Concentration				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

Surrogate Recoveries (%)

%SS:	108	107	106	107	
------	-----	-----	-----	-----	--

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) florisisil (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;



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

Ceres Associates 424 First Street Benicia, CA 94510	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: 06/26/07-06/27/07

Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*

Extraction Method: SW3550C

Analytical Method: SW8082A

Work Order: 0706632

Lab ID	0706632-018A	0706632-020A			Reporting Limit for DF =1	
Client ID	CS5-5	CS5-10				
Matrix	S	S				
DF	1	1				S

Compound	Concentration				mg/kg	ug/L
Aroclor1016	ND	ND			0.025	NA
Aroclor1221	ND	ND			0.025	NA
Aroclor1232	ND	ND			0.025	NA
Aroclor1242	ND	ND			0.025	NA
Aroclor1248	ND	ND			0.025	NA
Aroclor1254	ND	ND			0.025	NA
Aroclor1260	ND	ND			0.025	NA
PCBs, total	ND	ND			0.025	NA

Surrogate Recoveries (%)

%SS:	108	110			
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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) florisisil (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;



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Ceres Associates 424 First Street Benicia, CA 94510	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

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

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

Surrogate Recoveries (%)

%SS1:	94	%SS2:	98
%SS3:	103		

Comments:

* 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.



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Ceres Associates 424 First Street Benicia, CA 94510	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

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0706632

Lab ID	0706632-004A
Client ID	CS1-10
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

Surrogate Recoveries (%)

%SS1:	93	%SS2:	97
%SS3:	102		

Comments:

* 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.



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Ceres Associates 424 First Street Benicia, CA 94510	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

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

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

Surrogate Recoveries (%)

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

Comments:

* 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.



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Ceres Associates 424 First Street Benicia, CA 94510	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

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

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

Surrogate Recoveries (%)

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

Comments:

* 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.



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Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Ceres Associates 424 First Street Benicia, CA 94510	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

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

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

Surrogate Recoveries (%)

%SS1:	93	%SS2:	98
%SS3:	104		

Comments:

* 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.



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Ceres Associates 424 First Street Benicia, CA 94510	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

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

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

Surrogate Recoveries (%)

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

Comments:

* 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.



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Ceres Associates 424 First Street Benicia, CA 94510	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

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

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

Surrogate Recoveries (%)

%SS1:	90	%SS2:	99
%SS3:	105		

Comments:

* 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.



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Ceres Associates 424 First Street Benicia, CA 94510	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

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

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

Surrogate Recoveries (%)

%SS1:	93	%SS2:	99
%SS3:	104		

Comments:

* 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.

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Ceres Associates 424 First Street Benicia, CA 94510	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

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

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

Surrogate Recoveries (%)

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

Comments:

* 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.



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Ceres Associates 424 First Street Benicia, CA 94510	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

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

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

Surrogate Recoveries (%)

%SS1:	87	%SS2:	100
%SS3:	105		

Comments:

* 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.



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Ceres Associates 424 First Street Benicia, CA 94510	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

Analytical Method: SW8270C

Work Order: 0706632

Lab ID	0706632-002A	0706632-004A	0706632-006A	0706632-008A	Reporting Limit for DF =1	
Client ID	CS1-5	CS1-10	CS2-5	CS2-10		
Matrix	S	S	S	S		
DF	1	1	1	1		

Compound	Concentration				mg/kg	ug/L
	Acenaphthene	ND	ND	ND	ND	0.005
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

Surrogate Recoveries (%)

%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.



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		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

Analytical Method: SW8270C

Work Order: 0706632

Lab ID	0706632-010A	0706632-012A	0706632-014A	0706632-016A	Reporting Limit for DF =1	
Client ID	CS3-5	CS3-10	CS4-5	CS4-10		
Matrix	S	S	S	S		
DF	1	1	1	1		

Compound	Concentration				mg/kg	ug/L
	Acenaphthene	ND	ND	ND	ND	0.005
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

Surrogate Recoveries (%)

%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.



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Ceres Associates 424 First Street Benicia, CA 94510	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

Analytical Method: SW8270C

Work Order: 0706632

Lab ID	0706632-018A	0706632-020A			Reporting Limit for DF =1
Client ID	CS5-5	CS5-10			
Matrix	S	S			
DF	1	1			

Compound	Concentration				mg/kg	ug/L
	Acenaphthene	ND	ND			0.005
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 (%)

%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.



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Ceres Associates 424 First Street Benicia, CA 94510	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 06/29/07

Hexane Extractable Material With Silica Gel Treatment*

Analytical methods: SW9071B

Work Order: 0706632

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

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	50	mg/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.



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Ceres Associates 424 First Street Benicia, CA 94510	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 06/26/07-07/02/07

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	1	87
006A	CS2-5	S	ND	1	74
008A	CS2-10	S	ND	1	86
010A	CS3-5	S	ND	1	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	ND	1	78
020A	CS5-10	S	ND	1	88
021A	CS6-10	S	ND	1	84
022A	CS7-10	S	ND	1	80
023A	CS8-10	S	ND	1	87

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell 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.



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		Date Received: 06/25/07
	Client Contact: Ryan Meyer	Date Extracted: 06/25/07
	Client P.O.:	Date Analyzed: 06/26/07

LUFT 5 Metals*

Extraction method SW3050B

Analytical methods 6010C

Work Order: 0706632

Lab ID	Client ID	Matrix	Extraction Type	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS
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	TTLC	ND	28	ND	19	13	1	93
020A	CS5-10	S	TTLC	ND	51	ND	35	30	1	95

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL^	NA	NA	NA	NA	NA	NA	NA
	S	TTLC	1.5	1.5	5.0	1.5	5.0	mg/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.

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

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 surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Ceres Associates 424 First Street Benicia, CA 94510	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

BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0706632

Lab ID	0706632-021A	0706632-022A	0706632-023A		Reporting Limit for DF =1	
Client ID	CS6-10	CS7-10	CS8-10			
Matrix	S	S	S			
DF	1	1	1			

Compound	Concentration				mg/kg	ug/L
	Benzene	ND	ND	ND		0.005
Ethylbenzene	ND	ND	ND		0.005	NA
Toluene	ND	ND	ND		0.005	NA
Xylenes	ND	ND	ND		0.005	NA

Surrogate Recoveries (%)

%SS1:	90	89	87		
%SS2:	101	101	100		
%SS3:	99	100	100		

Comments

* 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.



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Ceres Associates 424 First Street Benicia, CA 94510	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 06/26/07-07/02/07

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

Extraction method: SW3550C

Analytical methods: SW8015C

Work Order: 0706632

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; ND means not detected at or above the reporting limit	W	NA	NA	ug/L
	S	1.0	5.0	mg/Kg

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

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 McC Campbell 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

Analyte	EPA Method SW8015Cm		Extraction SW5030B			BatchID: 28884			Spiked Sample ID: 0706580-007A			
	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	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

Analyte	EPA Method SW8015C		Extraction SW3550C			BatchID: 28885			Spiked Sample ID: 0706580-023A			
	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(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.

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 SW8021B/8015Cm

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0706632

Analyte	EPA Method SW8015Cm		Extraction SW5030B			BatchID: 28920			Spiked Sample ID: 0706632-022A			
	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	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			BatchID: 28922			Spiked Sample ID: 0706632-023A				
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(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	06/25/07	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.

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 SW8082A

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0706632

EPA Method SW8082A	Extraction SW3550C			BatchID: 28924			Spiked Sample ID: 0706632-020A					
	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
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.

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 SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0706632

EPA Method SW8260B		Extraction SW5030B			BatchID: 28929			Spiked Sample ID: N/A				
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
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.

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 SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0706632

EPA Method SW8260B	Extraction SW5030B			BatchID: 28901			Spiked Sample ID: 0706612-013A						
	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
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:

NONE

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.



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				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	Acceptance Criteria (%)				
	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.

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 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	Acceptance Criteria (%)			
	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.

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 SW8270C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0706632

EPA Method SW8270C	Extraction SW3550C			BatchID: 28926			Spiked Sample ID: 0706632-020A					
	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
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 6010C			Extraction SW3050B			BatchID: 28927			Spiked Sample ID 0706632-020A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	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	06/25/07	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	06/25/07	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	06/25/07	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	06/25/07	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	06/25/07	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 = 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



McC Campbell Analytical, Inc.

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

Ceres Associates 424 First Street Benicia, CA 94510	Client Project ID: #CA1264; Oakland Excavation	Date Sampled: 11/29/06
		Date Received: 11/29/06
	Client Contact: Ryan Meyer	Date Reported: 12/01/06
	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. McC Campbell 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

U011533



McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94655-1701

Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

RUSH

GeoTracker EDF PDF Excel Write On (DW)

Check if sample is effluent and "J" flag is required

Report To: Ryan Meyer Bill To: Ceres Associates
 Company: Ceres Associates
 424 1st Street
 Benicia CA 94510 E-Mail: ryanmeyer@ceresassociates.com
 Tele: (707) 748 7130 Fax: (707) 748 7130
 Project #: CA 1264 Project Name: Oakland Excavation
 Project Location: Oakland
 Sampler Signature: [Signature]

Analysis Request Other Comments

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED		Analysis Request	Other	Comments	
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL				HNO ₃
II-9-N				1												Filter Samples for Metals analysis: Yes / No
II-9-S				1												
II-9-E				1												
II-9-W				1												
S-1				1		X				X						4 point compos. ↑ For Disposal
S-2				1												
S-3				1												
S-4				1												
II-9-N											X	X				

BTEX & TPH as Gas (602 / 802 + 8015) / MTBE
 TPH as Diesel (8015) & Methyl
 Total Petroleum Oil & Grease (1664 / 5520 E/B&F)
 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 ONLY; Aroclors / Congeners
 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 / 6020)
 LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)
 Lead (200.7 / 200.8 / 6010 / 6020)
 STLC Pb per R.M.

Relinquished By: [Signature] Date: 11-29 Time: 11:00A Received By: [Signature]
 Relinquished By: Date: Time: Received By:
 Relinquished By: Date: Time: Received By:

ICE/te
 GOOD CONDITION ✓
 HEAD SPACE ABSENT
 DECHLORINATED IN LAB
 APPROPRIATE CONTAINERS ✓
 PRESERVED IN LAB
 VOAS O&G METALS OTHER
 PRESERVATION pH<2

4 point compos. ↑
For Disposal

Nothing Further
14.7

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0611533

ClientID: CAB

EDF

Fax

Email

HardCopy

ThirdParty

Report to:

Ryan Meyer
 Ceres Associates
 424 First Street
 Benicia, CA 94510

Email: ryanmeyer@ceresassociates.com
 TEL: (707) 748-3170 FAX: (707) 748-3171
 ProjectNo: #CA1264; Oakland Excavation
 PO:

Bill to:

Lori
 Ceres Associates
 424 First Street
 Benicia, CA 94510

Requested TAT:

1 day

Date Received: 11/29/2006

Date Printed: 11/29/2006

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0611533-001	III-9-N	Soil	11/29/06	<input type="checkbox"/>	A			A									
0611533-002	III-9-S	Soil	11/29/06	<input type="checkbox"/>	A			A									
0611533-003	III-8-E	Soil	11/29/06	<input type="checkbox"/>	A			A									
0611533-004	III-9-W	Soil	11/29/06	<input type="checkbox"/>	A			A									
0611533-005	S-1-4	Soil	11/29/06	<input type="checkbox"/>	A	A	A	A									
0611533-006	II-9-N	Soil	11/29/06	<input type="checkbox"/>	A			A									

Test Legend:

1	G-MBTX_S	2	LUFT_S	3	PB_STLC_Soil	4	TPH(DMO)_S	5	
6		7		8		9		10	
11		12							

Prepared by: Maria Venegas

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.



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

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

Extraction method SW5030B

Analytical methods SW8021B/8015Cm

Work Order: 0611533

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

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	NA	NA	NA	NA	NA	1	ug/L
	S	1.0	0.05	0.005	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 McC Campbell 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.



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

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

Extraction Method: SW5030B

Analytical Method: SW8021B/8015Cm

Work Order: 0611533

Lab ID	0611533-005A				Reporting Limit for DF =1	
Client ID	S-1-4					
Matrix	S					
DF	10					

Compound	Concentration				mg/Kg	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 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 McC Campbell 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.



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

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

Extraction method: SW3550C

Analytical methods: SW8015C

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

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

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 McC Campbell 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/8015Cm		Extraction SW5030B			BatchID: 24935			Spiked Sample ID: 0611516-012A				
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.



McC Campbell Analytical, Inc.

"When Quality Counts"

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

QC SUMMARY REPORT FOR 6010C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0611533

EPA Method 6010C		Extraction SW3050B				BatchID: 24927			Spiked Sample ID 0611508-009A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
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	11/29/06	11/29/06	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 = 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



QC SUMMARY REPORT FOR SW6010C

W.O. Sample Matrix: Soil

QC Matrix: Solid

WorkOrder: 0611533

EPA Method: SW6010C		Extraction: CA Title 22				BatchID: 24943			Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance 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

Analyte	EPA Method SW8015C			Extraction SW3550C			BatchID: 24933			Spiked Sample ID: 0611515-007A			
	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(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.



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

Ceres Associates 424 First Street Benicia, CA 94510	Client Project ID: #1264; Oakland Excavation	Date Sampled: 11/30/06
		Date Received: 12/01/06
	Client Contact: Ryan Meyer	Date Reported: 12/07/06
	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. McC Campbell 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
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

GeoTracker EDF PDF Excel Write On (DW)
 Check if sample is effluent and "J" flag is required

Report To: Ryan Meyer Bill To: Ceres Associates
Company: Ceres Associates
424 1st Street
Benicia 94510 E-Mail: RYANMEYER@ceresassociates.com
Tele: (707) 748 748 7131 Fax: (707) 748 7131
Project #: 1364 Project Name: Oakland excavation
Project Location: OAKLAND
Sampler Signature: [Signature]

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED		Analysis Request	Other	Comments
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL			
I-9-N				1											Filter Samples for Metals analysis: Yes / No
II-9-W				1											
III-9-W				1											
<i>Nothing Further</i>															

Relinquished By: [Signature] Date: 12/1 Time: 15:24 Received By: ENVIRO-TECH AA 12/01/06
15:24
Relinquished By: [Signature] Date: 12/1 Time: 6:11 Received By: ADIL
Relinquished By: ADIL Date: 12/1 Time: 7:15 Received By: MO VALI

ICE/T° 5.3
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB
VOAS O&G METALS OTHER
PRESERVATION pH<2

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0612024

ClientID: CAB

EDF

Fax

Email

HardCopy

ThirdParty

Report to:

Ryan Meyer
 Ceres Associates
 424 First Street
 Benicia, CA 94510

Email: ryanmeyer@ceresassociates.com
 TEL: (707) 748-3170 FAX: (707) 748-3171
 ProjectNo: #1264; Oakland Excavation
 PO:

Bill to:

Lori
 Ceres Associates
 424 First Street
 Benicia, CA 94510

Requested TAT: 5 days

Date Received: 12/01/2006

Date Printed: 12/01/2006

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0612024-001	I-9-N	Soil	11/30/06	<input type="checkbox"/>	A	A	A										
0612024-002	II-9-W	Soil	11/30/06	<input type="checkbox"/>	A		A										
0612024-003	III-9-W	Soil	11/30/06	<input type="checkbox"/>	A		A										

Test Legend:

1	G-MBTEX_S	2	PREFD REPORT	3	TPH(DMO)_S	4		5	
6		7		8		9		10	
11		12							

Prepared by: Melissa Valles

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.



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

Ceres Associates 424 First Street Benicia, CA 94510	Client Project ID: #1264; Oakland Excavation	Date Sampled: 11/30/06
		Date Received: 12/01/06
	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

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

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	NA	NA	NA	NA	NA	1	ug/L
	S	1.0	0.05	0.005	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 McC Campbell 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.



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

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

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

Extraction method: SW3550C

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

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

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

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 McC Campbell 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/8015Cm		Extraction SW5030B			BatchID: 24989			Spiked Sample ID: 0611569-037A				
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	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	12/02/06 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	Extraction SW3550C			BatchID: 24997			Spiked Sample ID: 0612024-001A					
	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(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.

Other Documents

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

Application Id: 1182374730867
Site Location: 2547 East 27th Street
Project Start Date: 06/25/2007

City of Project Site:Oakland

Completion Date:06/25/2007

Applicant: Ceres Associates - Ryan Meyer
424 First Street, Benicia, CA 94510
Property Owner: Ted Dang
1350 Franklin Street, Oakland, CA 94612
Client: ** same as Property Owner **
Contact: Ryan Meyer

Phone: 707-748-3170

Phone: --

Phone: 707-748-3170
Cell: 530-320-4074

Receipt Number: WR2007-0277 Total Due: \$200.00
Payer Name : William Kleiner Total Amount Paid: \$200.00
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 Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2007-0721	06/20/2007	09/23/2007	5	2.75 in.	25.00 ft

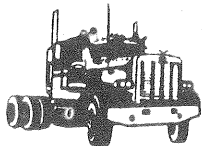
Specific Work Permit Conditions

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.



S&S TRUCKING

P.O. Box 282009
San Francisco, CA 94128
(415) 626-1123
Fax (415) 864-3527

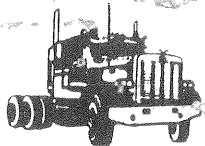
14322

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address		Tomorrow Development 2547 E 27th St		
4. Generator's Phone		(510) 523-8182 Oakland CA 94612		
5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone		
S & S Trucking		510-383-3556		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone		
9. Designated Facility Name and Site Address		10. US EPA ID Number	C. Facility's Phone	
B & J Landfill Hay Rd Vacaville CA		1	707-678-1492	
11. Waste Shipping Name and Description			12. Containers	13. Total Quantity
			No.	Type
a.				
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above			E. Handling Codes for Wastes Listed Above	
			100 S/P AC	
15. Special Handling Instructions and Additional Information				
TPH & Metals Impacted Soils				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name		Signature		Month Day Year
Kate McCallan		Kate McCallan		10 22 07
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
Giovanni De Michino		Giovanni De Michino		10 22 07
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
J Hill		J Hill		10 22 07
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name		Signature		Month Day Year
Terri Wilson		Terri Wilson		1 22 07

GENERATOR

TRANSPORTER

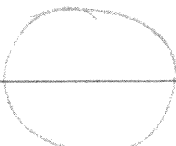



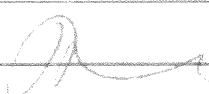

FACILITY



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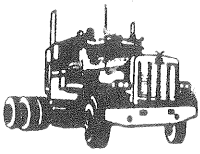
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NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of	Job 3817		
3. Generator's Name and Mailing Address		TOMORROW Development 2547 E 27th St.					
4. Generator's Phone		(510) 523-8182 Oakland CA 94612					
5. Transporter 1 Company Name		6. US EPA ID Number		A. Transporter's Phone			
S+S Trucking				510-383-3556			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		C. Facility's Phone			
B&J Landfill Hay Rd Vacaville CA				707-678-1492			
11. Waste Shipping Name and Description				12. Containers		13. Total Quantity	14. Unit Wt/Vol
a. 2616/93				No. Type			
b.  810  150							
c.							
d.							
D. Additional Descriptions for Materials Listed Above				E. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional information							
TPH & Metals Impacted Soils							
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.							
Printed/Typed Name		Signature		Month		Day	Year
Kathie McWilliam				01		22	07
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name		Signature		Month		Day	Year
Giorganni Demichino				01		22	07
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name		Signature		Month		Day	Year
DASHEN				01		22	07
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name		Signature		Month		Day	Year
Terri Wilso				01		22	07

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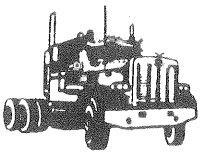
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NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of Job 3817
3. Generator's Name and Mailing Address Tomorrow Development 2547 E 27th St				
4. Generator's Phone 510-523-8182 Oakland CA 94612				
5. Transporter 1 Company Name S+S TRUCKING	6. US EPA ID Number	A. Transporter's Phone 510-383-3556		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone		
9. Designated Facility Name and Site Address BES Landfill Hay Bld Vacaville CA		10. US EPA ID Number	C. Facility's Phone 707-678-1492	
11. Waste Shipping Name and Description		12. Containers	13. Total Quantity	14. Unit Wt/Vol
a.		No.	Type	
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above 03		
15. Special Handling Instructions and Additional Information TPH & Metals Impacted soils				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Katie McCallister		Signature <i>[Signature]</i>		Month Day Year 01 22 07
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name Giovanni DeMichino		Signature <i>[Signature]</i>		Month Day Year 01 22 07
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name [Signature]		Signature <i>[Signature]</i>		Month Day Year 01 22 07
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name Tara Wilson		Signature <i>[Signature]</i>		Month Day Year 11 07 05

GENERATOR

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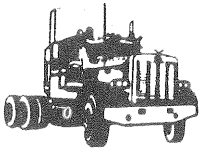
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NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address		Tomorrow Development 2547 E 27th St		
4. Generator's Phone		510-523-8182 Oakland CA 94612		
5. Transporter 1 Company Name		6. US EPA ID Number		A. Transporter's Phone
S+S Trucking				510-383-3556
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Site Address		10. US EPA ID Number		C. Facility's Phone
B+S Landfill Hay Rd Vacaville CA				707-678-1492
11. Waste Shipping Name and Description			12. Containers	13. Total Quantity
			No.	Type
a.				
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above			E. Handling Codes for Wastes Listed Above	
			03	
15. Special Handling Instructions and Additional Information				
TPH & Metals Impacted Soils				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name		Signature		Month Day Year
Katie McAlister		Katie McAlister		01 22 07
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
Giovanni Demichino		Giovanni Demichino		01 22 07
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest, except as noted in item 19.				
Printed/Typed Name		Signature		Month Day Year
Wallace		Wallace		01 22 07

GENERATOR

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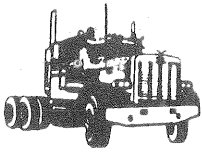
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14324

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NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address		TOMORROW Development 2547 E 27th St		
4. Generator's Phone		(510) 583-8182 Oakland CA 94612		
5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone		
S+S TRUCKING		510-583-3556		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone		
9. Designated Facility Name and Site Address		10. US EPA ID Number	C. Facility's Phone	
B+S Landfill Hay Rd Varnville CA 1			707-678-1492	
11. Waste Shipping Name and Description				12. Containers
				No. Type
a.				
b.				
c.				
d.				
13. Total Quantity				14. Unit Wt/Vol
D. Additional Descriptions for Materials Listed Above				E. Handling Codes for Wastes Listed Above
				03
15. Special Handling Instructions and Additional Information				
TPH & Metals Impacted Soils				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name		Signature		Month Day Year
Kate McCollum		Kate McCollum		11 22 07
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
Giovanni DeMichino		Giovanni DeMichino		01 12 2007
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
Balvir Singh		Balvir Singh		
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name		Signature		Month Day Year
Joseph Syca		Joseph Syca		11 22 07



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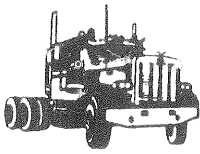
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NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address		Tomorrow Development 25117 E 37th St		
4. Generator's Phone		510 1523-8182 Oakland CA 94612		
5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone		
S&S Trucking		510-383-3556		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone		
9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone		
B & J Land Fill Hay Rd Vacaville CA		707-678-1192		
11. Waste Shipping Name and Description		12. Containers No.	Type	13. Total Quantity
a.				
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
		03		
15. Special Handling Instructions and Additional Information				
TPH & Metals Impacted soils				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name		Signature		Month Day Year
Katie McCulloch		Katie McCulloch		01 23 07
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Month Day Year
Printed/Typed Name		Signature		Month Day Year
Giovanni DeMichino		Giovanni DeMichino		01 22 07
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month Day Year
Printed/Typed Name		Signature		Month Day Year
M. S. J. J. J. J.		M. S. J. J. J. J.		01 22 07
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name		Signature		Month Day Year
Joseph Swan		Joseph Swan		01 22 07

GENERATOR

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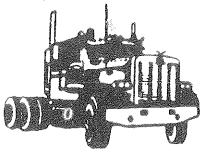
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NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of	JOB 3817		
3. Generator's Name and Mailing Address		TOMORROW Development 2547 E 27th St					
4. Generator's Phone		(510) 523-8182 OAKLAND CA 94612					
5. Transporter 1 Company Name		6. US EPA ID Number		A. Transporter's Phone			
S & S TRUCKING				510-383-3556			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		C. Facility's Phone			
B & J Landfill Hay Rd ROCKVILLE CA		1		707-678-1492			
11. Waste Shipping Name and Description				12. Containers	13. Total Quantity	14. Unit Wt/Vol	
				No.	Type		
a.							
b.							
c.							
d.							
D. Additional Descriptions for Materials Listed Above				E. Handling Codes for Wastes Listed Above			
				03			
15. Special Handling Instructions and Additional Information							
TPH & Metals Impacted soils							
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.							
Printed/Typed Name			Signature		Month Day Year		
Katie McAllister			Katie McAllister		07/22/07		
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name			Signature		Month Day Year		
Giovanni DeMichino			Giovanni DeMichino		01/22/07		
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name			Signature		Month Day Year		
K.S.							
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name			Signature		Month Day Year		
RAMON J. SANCHEZ			RAMON J. SANCHEZ		11/22/07		

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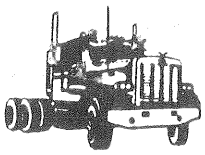
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NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address Tomorrow Development 2547 E 27th St				Job 3817
4. Generator's Phone 510 523-8182 Oakland CA 94612				
5. Transporter 1 Company Name S & S Trucking	6. US EPA ID Number	A. Transporter's Phone 510-383-3556		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone		
9. Designated Facility Name and Site Address BFS landfill Hay Rd. Vacaville CA	10. US EPA ID Number 1	C. Facility's Phone 707-678-1492		
11. Waste Shipping Name and Description		12. Containers No.	Type	13. Total Quantity
a.				
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above 03		
15. Special Handling Instructions and Additional information TPH & Metals Impacted Soils				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Kathleen McCallister		Signature Kathleen McCallister		Month Day Year 01 22 07
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name Giovanni DeMichino		Signature Giovanni DeMichino		Month Day Year 01 22 07
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name JIT S. Smith		Signature JIT S. Smith		Month Day Year 01 22 07
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name Joseph S. Smith		Signature Joseph S. Smith		Month Day Year 11 22 07

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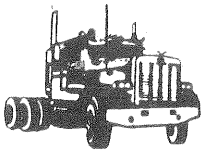
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NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of Job 3817
3. Generator's Name and Mailing Address TOMORROW Development 2517 E 27th St				
4. Generator's Phone (510) 523-3182 Oakland CA 94612				
5. Transporter 1 Company Name S&S Trucking	6. US EPA ID Number	A. Transporter's Phone 510-383-3556		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone		
9. Designated Facility Name and Site Address B&J Landfill Hay Rd Vacaville CA		10. US EPA ID Number	C. Facility's Phone 707-678-1192	
11. Waste Shipping Name and Description		12. Containers	13. Total Quantity	14. Unit Wt/Vol
		No.	Type	
a.				
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above 03		
15. Special Handling Instructions and Additional Information TPH & Metals Impacted Soils				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Kathie McCallister		Signature <i>Kathie McCallister</i>		Month Day Year 01 22 07
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name Giovanni DeMichino		Signature <i>Giovanni DeMichino</i>		Month Day Year 01 22 07
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name Victor C Alvarez		Signature <i>Victor C Alvarez</i>		Month Day Year 01 22 07
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name Josep Suid		Signature <i>Josep Suid</i>		Month Day Year 1 22 07

GENERATOR

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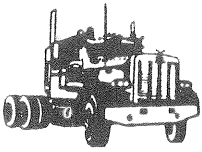
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14331

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NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of	500 # 3817
3. Generator's Name and Mailing Address Tomorrow Development 9547E 27th St Oakland CA 94612		6. US EPA ID Number		A. Transporter's Phone 510-383-3556	
4. Generator's Phone (510) 523-8182		7. Transporter 1 Company Name S&S Trucking		8. US EPA ID Number	
5. Transporter 2 Company Name		9. Designated Facility Name and Site Address B&S Landfill Hay Rd Vacaville		10. US EPA ID Number	
6. Transporter 2 Company Name		11. Waste Shipping Name and Description		12. Containers No. Type	
7. Transporter 2 Company Name		13. Total Quantity		14. Unit Wt/Vol	
8. US EPA ID Number		9. Designated Facility Name and Site Address B&S Landfill Hay Rd Vacaville		10. US EPA ID Number	
9. Designated Facility Name and Site Address B&S Landfill Hay Rd Vacaville		11. Waste Shipping Name and Description		12. Containers No. Type	
10. US EPA ID Number		13. Total Quantity		14. Unit Wt/Vol	
11. Waste Shipping Name and Description		12. Containers No. Type		13. Total Quantity	
12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
13. Total Quantity		14. Unit Wt/Vol		D. Additional Descriptions for Materials Listed Above	
14. Unit Wt/Vol		D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above 03	
15. Special Handling instructions and Additional Information TPH & Metals Impacted Soils 3 hrs S/B CPL 1130					
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Printed/Typed Name Kathie McCallan		Signature Kathie McCallan		Month Day Year 11 27 07	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature Giovanni Demichino		Month Day Year 01 10 2007	
Printed/Typed Name Giovanni Demichino		Signature K. Kumra		Month Day Year 11 22 07	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature K. Kumra		Month Day Year 11 22 07	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name Kumra		Signature Josef Suda		Month Day Year 11 22 07	

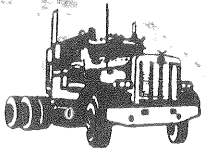


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14330

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of	Job # 3817
3. Generator's Name and Mailing Address Tomorrow Development 2547 E 27th St Oakland CA 94612					
4. Generator's Phone (510) 523-8182					
5. Transporter 1 Company Name S & S Trucking	6. US EPA ID Number	A. Transporter's Phone 510-383-3556			
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone			
9. Designated Facility Name and Site Address B & T Landfill Hay Rd Vacaville CA 1	10. US EPA ID Number	C. Facility's Phone 707-678-1492			
11. Waste Shipping Name and Description			12. Containers	13. Total Quantity	14. Unit Wt/Vol
a.			No.	Type	
b.					
c.					
d.					
D. Additional Descriptions for Materials Listed Above			E. Handling Codes for Wastes Listed Above 03		
15. Special Handling Instructions and Additional Information TPH & Metals 2 lbs Impacted Soils 5/13/07 920-1130					
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Printed/Typed Name Katie McCallio ch		Signature Katie McCallio		Month Day Year 10-1-07	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name Giovanni Demichino		Signature Giovanni Demichino		Month Day Year 01-22-07	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name PRIYANKA KUMAR		Signature Priyanka Kumar		Month Day Year 01-23-07	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name CODY BROWN		Signature Cody Brown		Month Day Year 1-22-07	



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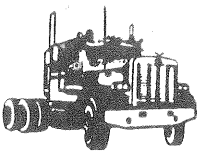
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NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address		TOMORROW'S Development 2547 E 27th St		
4. Generator's Phone		510 1523-8182 Oakland CA 94612		
5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone		
S+S Trucking		510-383-3556		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone		
9. Designated Facility Name and Site Address		10. US EPA ID Number	C. Facility's Phone	
B&J Landfill HAYWARD VACAVILLE CA 1			707-878-1492	
11. Waste Shipping Name and Description			12. Containers	13. Total Quantity
			No.	Type
a.				
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above			E. Handling Codes for Wastes Listed Above	
			03	
15. Special Handling Instructions and Additional Information				
TPN & Metals Impacted soils 3.72 sl/s 8.4.1001				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name		Signature		Month Day Year
Katie McCollock		Katie McCollock		01 22 07
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Month Day Year
Printed/Typed Name		Signature		Month Day Year
Giovanni De Michino		Giovanni De Michino		01 23 07
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month Day Year
Printed/Typed Name		Signature		Month Day Year
Richard Lewis		Richard Lewis		1 23 07
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name		Signature		Month Day Year
MARK T. Hill		Mark T. Hill		01 23 07

GENERATOR

TRANSPORTER

FACILITY



S&S TRUCKING

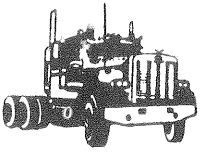
P.O. Box 282009
San Francisco, CA 94128
(415) 626-1123
Fax (415) 864-3527

48

14329

GENERATOR
TRANSPORTER
FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of	Job # 3817	
3. Generator's Name and Mailing Address Tomorrow Development 2547 E 27th St Oakland CA 94612						
4. Generator's Phone (510) 583-8182						
5. Transporter 1 Company Name S & S Trucking		6. US EPA ID Number		A. Transporter's Phone 510-383-3556		
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone		
9. Designated Facility Name and Site Address B & J Landfill Hay Rd Vacaville CA 1		10. US EPA ID Number		C. Facility's Phone 707-678-1492		
11. Waste Shipping Name and Description				12. Containers No.	13. Total Quantity	14. Unit WW/Vol
a.						
b.						
c.						
d.						
D. Additional Descriptions for Materials Listed Above				E. Handling Codes for Wastes Listed Above 03		
15. Special Handling Instructions and Additional Information TPH & Metals Impacted Soils 2.2 S/B 8815-1045						
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Printed/Typed Name Katie McClellan		Signature Katie McClellan		Month Day Year 01 22 07		
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name Giovanni De Michino		Signature Giovanni De Michino		
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name Richard W. Lewis		Signature Richard W. Lewis		
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name Terry Wilso		Signature Terry Wilso		Month Day Year 11 22 07		



S&S TRUCKING

90 90756
 P.O. Box 282009
 San Francisco, CA 94128
 (415) 626-1123
 Fax (415) 864-3527

14328

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address		Tomorrow Development 2547 E 27th St		
4. Generator's Phone		(510) 523-8182 Oakland CA 94612		
5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone		
S+S Trucking		510-383-3556		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone		
9. Designated Facility Name and Site Address		10. US EPA ID Number	C. Facility's Phone	
B & J Landfill Hay Rd Vacaville CA 1			707-678-4492	
11. Waste Shipping Name and Description		12. Containers No.	13. Total Quantity	14. Unit WW/Vol
a.				
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
		03		
15. Special Handling Instructions and Additional Information				
TPH & Metals Impacted Soils				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name		Signature	Month	Day Year
Katie McCallach		Katie McCallach	10	12 2007
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature	Month	Day Year
Printed/Typed Name		Giovanni DeMichino	10	12 2007
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature	Month	Day Year
Printed/Typed Name		Diana Lipe	10	12 2007
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name		Signature	Month	Day Year
Tosha Silva		Tosha Silva	11	22 07

GENERATOR

TRANSPORTER

FACILITY

**TABLE A-1. ¹SHALLOW SOIL SCREENING LEVELS (≤3m bgs)
²RESIDENTIAL LAND USE
(potentially impacted groundwater IS a current or potential drinking water resource)**

CHEMICAL PARAMETER	⁴ RESIDENTIAL LAND USE (mg/kg)							
	Final ESL	Gross Contamination Ceiling Value (Odors, etc.) Table H-2	Urban Area Ecotoxicity Criteria	Human Health				Groundwater Protection (Soil Leaching)
				Substitute Direct Exposure		Direct Exposure	Vapor Intrusion Into Buildings	Drinking Water Resource
				Value	Basis	Table K-1	Table E-1b	Table G
ACENAPHTHENE	1.6E+01	1.0E+03	-			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			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	-			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			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	-			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
(potentially impacted groundwater IS a current or potential drinking water resource)**

CHEMICAL PARAMETER	⁴ RESIDENTIAL LAND USE (mg/kg)							
	Final ESL	Gross Contamination Ceiling Value (Odors, etc.) Table H-2	Urban Area Ecotoxicity Criteria	Human Health			Groundwater Protection (Soil Leaching)	
				Substitute Direct Exposure		Direct Exposure	Vapor Intrusion Into Buildings	Drinking Water Resource
				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
DICHLOROENZIDINE, 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		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		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		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		
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		6.5E-04
ETHANOL	4.5E+01	5.0E+02	-				(Use soil gas)	4.5E+01
ETHYLBENZENE	3.3E+00	4.0E+02	-			4.0E+02	3.9E+02	3.3E+00
FLUORANTHENE	4.0E+01	5.0E+02	4.0E+01			4.6E+02		6.0E+01
FLUORENE	8.9E+00	5.0E+02	-			4.4E+02	1.6E+02	8.9E+00
HEPTACHLOR	1.4E-02	1.0E+03	-			1.3E-01		1.4E-02
HEPTACHLOR EPOXIDE	1.5E-02	1.0E+03	-			8.8E-02		1.5E-02
HEXACHLOROENZIDINE	2.7E-01	5.0E+02	3.0E+01			2.7E-01		7.9E+02
HEXACHLOROBUTADIENE	1.0E+00	5.0E+02	-			3.7E+00		1.0E+00

**TABLE A-1. ¹SHALLOW SOIL SCREENING LEVELS ($\leq 3\text{m}$ bgs)
²RESIDENTIAL LAND USE
(potentially impacted groundwater IS a current or potential drinking water resource)**

CHEMICAL PARAMETER	⁴ RESIDENTIAL LAND USE (mg/kg)							
	Final ESL	Gross Contamination Ceiling Value (Odors, etc.) Table H-2	Urban Area Ecotoxicity Criteria	Human Health			Groundwater Protection (Soil Leaching)	
				Substitute Direct Exposure		Direct Exposure	Vapor Intrusion Into Buildings	Drinking Water Resource
				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		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		
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		
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		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		
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		
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		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		1.0E+03
TRICHLOROENZENE, 1,2,4-	3.8E-01	5.0E+02	3.0E+01			1.2E+01	3.8E-01	7.6E+00
TRICHLOROETHANE, 1,1,1-	7.8E+00	5.0E+02	-			3.8E+02	9.8E+01	7.8E+00
TRICHLOROETHANE, 1,1,2-	3.2E-02	1.0E+02	-			6.8E-01	3.2E-02	7.0E-02
TRICHLOROETHYLENE	2.6E-01	5.0E+02	6.0E+01			2.9E+00	2.6E-01	4.6E-01

**TABLE A-1. ¹SHALLOW SOIL SCREENING LEVELS (<3m bgs)
²RESIDENTIAL LAND USE
(potentially impacted groundwater IS a current or potential drinking water resource)**

CHEMICAL PARAMETER	⁴ RESIDENTIAL LAND USE (mg/kg)							
	Final ESL	Gross Contamination Ceiling Value (Odors, etc.) Table H-2	Urban Area Ecotoxicity Criteria	Human Health				Groundwater Protection (Soil Leaching)
				Substitute Direct Exposure		Direct Exposure	Vapor Intrusion Into Buildings	Drinking Water Resource
				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	-	-			-	-	-
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).

**TABLE C-1. ¹DEEP SOIL SCREENING LEVELS (>3m bgs)
²RESIDENTIAL LAND USE
(potentially impacted groundwater IS a current or potential drinking water resource)**

CHEMICAL PARAMETER	⁴ RESIDENTIAL LAND USE (mg/kg)						
	Final ESL	Gross Contamination Ceiling Value (Odors, etc.) Table H-3	Human Health				Groundwater Protection (Soil Leaching)
			Substitute Direct Exposure		Direct Exposure	Vapor Intrusion Into Buildings	Drinking Water Resource
			Value	Basis	Table K-3	Table E-1b	Table G
ACENAPHTHENE	1.6E+01	2.5E+03			2.1E+04	1.3E+02	1.6E+01
ACENAPHTHYLENE	1.3E+01	1.0E+03	1.5E+04	Fluorene	1.5E+04	(Use soil gas)	1.3E+01
ACETONE	5.0E-01	1.0E+03			1.0E+05	1.4E+03	5.0E-01
ALDRIN	1.5E+00	2.5E+03			1.5E+00		5.0E+00
ANTHRACENE	2.8E+00	1.0E+03			1.2E+05	6.1E+00	2.8E+00
ANTIMONY	2.8E+02	2.5E+03			2.8E+02		
ARSENIC	5.5E+00	2.5E+03	5.5E+00	Background	5.5E+00		
BARIUM	2.5E+03	2.5E+03			2.5E+03		
BENZENE	4.4E-02	1.0E+03			1.6E+01	1.8E-01	4.4E-02
BENZO(a)ANTHRACENE	1.2E+01	1.0E+03			1.5E+01		1.2E+01
BENZO(b)FLUORANTHENE	1.5E+01	1.0E+03			1.5E+01		4.6E+01
BENZO(k)FLUORANTHENE	2.7E+00	1.0E+03			1.5E+01		2.7E+00
BENZO(g,h,i)PERYLENE	2.7E+01	1.0E+03			1.4E+04		2.7E+01
BENZO(a)PYRENE	1.5E+00	1.0E+03			1.5E+00		1.3E+02
BERYLLIUM	3.6E+01	2.5E+03			3.6E+01		
BIPHENYL, 1,1-	6.5E-01	1.0E+03			1.7E+04	(Use soil gas)	6.5E-01
BIS(2-CHLOROETHYL)ETHER	1.8E-04	1.0E+03			5.2E+00	3.7E-03	1.8E-04
BIS(2-CHLOROISOPROPYL)ETHER	5.4E-03	7.9E+02			1.7E+02	(Use soil gas)	5.4E-03
BIS(2-ETHYLHEXYL)PHTHALATE	6.6E+01	1.0E+03			6.4E+03		6.6E+01
BORON	4.6E+04	no criteria			4.6E+04		
BROMODICHLOROMETHANE	1.4E-02	2.5E+03			3.2E+01	1.4E-02	1.9E+00
BROMOFORM	2.2E+00	1.0E+03			2.6E+03		2.2E+00
BROMOMETHANE	2.2E-01	1.0E+03			3.0E+01	2.2E-01	3.9E-01
CADMIUM	3.8E+01	2.5E+03			3.8E+01		
CARBON TETRACHLORIDE	1.2E-02	1.0E+03			8.2E+00	1.2E-02	1.1E-01
CHLORDANE	1.5E+01	2.5E+03			2.1E+01		1.5E+01
CHLOROANILINE, p-	5.3E-02	2.5E+03			1.6E+03		5.3E-02
CHLOROBENZENE	1.5E+00	6.8E+02			6.8E+02	2.7E+00	1.5E+00
CHLOROETHANE	6.3E-01	1.0E+03			2.8E+02	6.3E-01	8.5E-01
CHLOROFORM	2.1E+00	1.0E+03			7.8E+01	1.4E+02	2.1E+00
CHLOROMETHANE	7.0E-02	5.0E+02			2.8E+01	7.0E-02	2.1E-01
CHLOROPHENOL, 2-	1.2E-02	5.0E+02			4.7E+02	7.8E-01	1.2E-02
CHROMIUM (Total)	5.8E+01	2.5E+03	58	Background	5.8E+01		
CHROMIUM III	2.5E+03	2.5E+03			1.1E+06		
CHROMIUM VI	1.8E+00	2.5E+03			1.8E+00		
CHRYSENE	1.9E+01	2.5E+03			1.5E+02		1.9E+01
COBALT	1.0E+01	2.5E+03			1.0E+01		
COPPER	2.5E+03	2.5E+03			2.8E+04		

**TABLE C-1. ¹DEEP SOIL SCREENING LEVELS (>3m bgs)
²RESIDENTIAL LAND USE
(potentially impacted groundwater IS a current or potential drinking water resource)**

CHEMICAL PARAMETER	⁴ RESIDENTIAL LAND USE (mg/kg)						
	Final ESL	Gross Contamination Ceiling Value (Odors, etc.) Table H-3	Human Health				Groundwater Protection (Soil Leaching)
			Substitute Direct Exposure		Direct Exposure	Vapor Intrusion Into Buildings	Drinking Water Resource
			Value	Basis	Table K-3	Table E-1b	Table G
CYANIDE (Free)	3.6E-03	5.0E+02			8.2E+03		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-03	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		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

**TABLE C-1. ¹DEEP SOIL SCREENING LEVELS (>3m bgs)
²RESIDENTIAL LAND USE
(potentially impacted groundwater IS a current or potential drinking water resource)**

CHEMICAL PARAMETER	Final ESL	Gross Contamination Ceiling Value (Odors, etc.) Table H-3	⁴ RESIDENTIAL LAND USE (mg/kg)				Groundwater Protection (Soil Leaching)
			Human Health			Drinking Water Resource	
			Substitute Direct Exposure Value	Direct Exposure Basis	Vapor Intrusion Into Buildings 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
TRICHLOROETHANE, 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

**TABLE C-1. ¹DEEP SOIL SCREENING LEVELS (>3m bgs)
²RESIDENTIAL LAND USE
(potentially impacted groundwater IS a current or potential drinking water resource)**

⁴ RESIDENTIAL LAND USE (mg/kg)							
CHEMICAL PARAMETER	Final ESL	Gross Contamination Ceiling Value (Odors, etc.) Table H-3	Human Health				Groundwater Protection (Soil Leaching)
			Substitute Direct Exposure		Direct Exposure	Vapor Intrusion Into Buildings	Drinking Water Resource
			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	1.8E-01
TRICHLOROPHENOL, 2,4,6-	1.7E-01	1.0E+03			2.9E+02		1.7E-01
VANADIUM	2.5E+03	2.5E+03			5.0E+03		
VINYL CHLORIDE	6.7E-03	1.0E+03			2.4E+00	6.7E-03	8.5E-02
XYLENES	2.3E+00	4.2E+02		m-xylene RfDs	4.2E+02	3.1E+02	2.3E+00
ZINC	2.5E+03	2.5E+03			2.1E+05		
Electrical Conductivity (mS/cm, USEPA Method 120.1 MOD)	not applicable	-			-	-	-
Sodium Adsorption Ratio	not applicable	-			-	-	-

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 concerns 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).

**TABLE E-1a. GROUNDWATER SCREENING LEVELS
FOR EVALUATION OF POTENTIAL VAPOR INTRUSION CONCERNS
(volatile chemicals only)**

CHEMICAL PARAMETER	Physical State		Residential Land Use		Commercial/Industrial Land Use	
			Vadose-Zone Soil Type		Vadose-Zone Soil Type	
			² High Permeability	³ Low/Moderate Permeability	² High Permeability	³ Low/Moderate Permeability
			(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				
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				
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				
CARBON TETRACHLORIDE	V	L	9.3E+00	3.9E+01	3.1E+01	1.3E+02
CHLORDANE	NV	S				
CHLOROANILINE, p-	NV	S				
CHLOROBENZENE	V	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-	V	L	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				

**TABLE E-1a. GROUNDWATER SCREENING LEVELS
FOR EVALUATION OF POTENTIAL VAPOR INTRUSION CONCERNS
(volatile chemicals only)**

CHEMICAL PARAMETER	Physical State		Residential Land Use		Commercial/Industrial Land Use	
			Vadose-Zone Soil Type		Vadose-Zone Soil Type	
			² High Permeability (ug/L)	³ Low/Moderate Permeability (ug/L)	² High Permeability (ug/L)	³ Low/Moderate Permeability (ug/L)
COPPER	NV	S				
CYANIDE (Free)	NV	S	(Use soil gas)	(Use soil gas)	(Use soil gas)	(Use soil gas)
DIBENZO(a,h)ANTHTRACENE	NV	S				
DIBROMOCHLOROMETHANE	V	S	1.7E+02	3.9E+02	5.7E+02	1.3E+03
1,2-DIBROMO-3-CHLOROPROPANE	V	L	(Use soil gas)	(Use soil gas)	(Use soil gas)	(Use soil gas)
DIBROMOETHANE, 1,2-	V	S	1.5E+02	2.3E+02	5.1E+02	7.7E+02
DICHLOROBENZENE, 1,2-	V	L	7.7E+04	1.6E+05	1.6E+05	1.6E+05
DICHLOROBENZENE, 1,3-	V	L	(Use soil gas)	(Use soil gas)	(Use soil gas)	(Use soil gas)
DICHLOROBENZENE, 1,4-	V	S	3.4E+02	9.5E+02	1.1E+03	3.2E+03
DICHLOROBENZIDINE, 3,3-	NV	S				
DICHLORODIPHENYLDICHLOROETHANE (DDD)	NV	S				
DICHLORODIPHENYLDICHLOROETHYLENE (DDE)	NV	S				
DICHLORODIPHENYLTRICHLOROETHANE (DDT)	NV	S				
DICHLOROETHANE, 1,1-	V	L	1.0E+03	3.5E+03	3.4E+03	1.2E+04
DICHLOROETHANE, 1,2-	V	L	2.0E+02	4.9E+02	6.9E+02	1.7E+03
DICHLOROETHYLENE, 1,1-	V	L	6.3E+03	2.6E+04	1.8E+04	7.4E+04
DICHLOROETHYLENE, Cis 1,2-	V	L	6.2E+03	1.9E+04	1.7E+04	5.4E+04
DICHLOROETHYLENE, Trans 1,2-	V	L	6.7E+03	2.4E+04	1.9E+04	6.8E+04
DICHLOROPHENOL, 2,4-	NV	S				
DICHLOROPROPANE, 1,2-	V	L	2.8E+02	8.5E+02	9.3E+02	2.8E+03
DICHLOROPROPENE, 1,3-	V	L	5.3E+01	2.1E+02	1.8E+02	7.0E+02
DIELDRIN	NV	S				
DIETHYLPHTHALATE	NV	S				
DIMETHYLPHTHALATE	NV	S				
#DIMETHYLPHENOL, 2,4-	V	S	2.5E+06	2.0E+06	7.1E+06	5.5E+06
DINITROPHENOL, 2,4-	NV	S				
DINITROTOLUENE, 2,4-	NV	S				
1,4 DIOXANE	NV	L				
DIOXIN (2,3,7,8-TCDD)	NV	S				
ENDOSULFAN	NV	S				
ENDRIN	NV	S				
ETHANOL	NV	S	(Use soil gas)	(Use soil gas)	(Use soil gas)	(Use soil gas)
#ETHYLBENZENE	V	L	1.7E+05	1.7E+05	1.7E+05	1.7E+05
FLUORANTHENE	NV	S				
#FLUORENE	V	S	1.9E+03	1.9E+03	1.9E+03	1.9E+03
HEPTACHLOR	NV	S				
HEPTACHLOR EPOXIDE	NV	S				

**TABLE E-1a. GROUNDWATER SCREENING LEVELS
FOR EVALUATION OF POTENTIAL VAPOR INTRUSION CONCERNS
(volatile chemicals only)**

CHEMICAL PARAMETER	Physical State		Residential Land Use		Commercial/Industrial Land Use	
			Vadose-Zone Soil Type		Vadose-Zone Soil Type	
			¹ High Permeability	² Low/Moderate Permeability	¹ High Permeability	² Low/Moderate Permeability
			(ug/L)	(ug/L)	(ug/L)	(ug/L)
HEXACHLOROBENZENE	NV	S				
HEXACHLOROBUTADIENE	NV	S				
HEXACHLOROCYCLOHEXANE (gamma) LINDANE	NV	S				
HEXACHLOROETHANE	NV	S				
INDENO(1,2,3-cd)PYRENE	NV	S				
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	V	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				
#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-	V	L	(Use soil gas)	(Use soil gas)	(Use soil gas)	(Use soil gas)
TETRACHLOROETHANE, 1,1,2,2-	V	L	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	LS				
TRICHLOROETHYLENE, 1,2,4-	V	L	2.5E+03	4.5E+03	7.1E+03	1.2E+04

**TABLE E-1a. GROUNDWATER SCREENING LEVELS
FOR EVALUATION OF POTENTIAL VAPOR INTRUSION CONCERNS
(volatile chemicals only)**

CHEMICAL PARAMETER	Physical State		Residential Land Use		Commercial/Industrial Land Use	
			Vadose-Zone Soil Type		Vadose-Zone Soil Type	
			² High Permeability	³ Low/Moderate Permeability	² High Permeability	³ Low/Moderate Permeability
			(ug/L)	(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	L	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.).
- 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).
- 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).
- 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 spreadsheet 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 - solid, 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)

CHEMICAL PARAMETER	Final Groundwater Screening Level	Basis	Ceiling Value (Taste & Odors, etc.)	Drinking Water (Toxicity)	Vapor Intrusion Into Buildings	Aquatic Habitat Goal (Chronic)
			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/l)

CHEMICAL PARAMETER	Final Groundwater Screening Level	Basis	Ceiling Value (Taste & Odors, etc.)	Drinking Water (Toxicity)	Vapor Intrusion Into Buildings	Aquatic Habitat Goal (Chronic)
			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	3.8E-03	Aquatic Habitat Goal	1.8E+02	1.0E-02		3.8E-03
HEXACHLOROBENZENE	1.0E+00	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)

CHEMICAL PARAMETER	Final Groundwater Screening Level	Basis	Ceiling Value (Taste & Odors, etc.)	Drinking Water (Toxicity)	Vapor Intrusion Into Buildings	Aquatic Habitat Goal (Chronic)
			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.)	Drinking Water (Toxicity)	Vapor Intrusion Into Buildings	Aquatic Habitat Goal (Chronic)
			Table I-1	Table F-3	Table E-1a	Table F-4a
TRICHLOROPHENOL, 2,4,5-	1.1E+01	Aquatic Habitat Goal	2.0E+02	7.0E+02	8.3E+05	1.1E+01
TRICHLOROPHENOL, 2,4,6-	5.0E-01	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:

1. 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 ecotoxicity 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
 Fax: (510) 834-7660

Facsimile transmittal

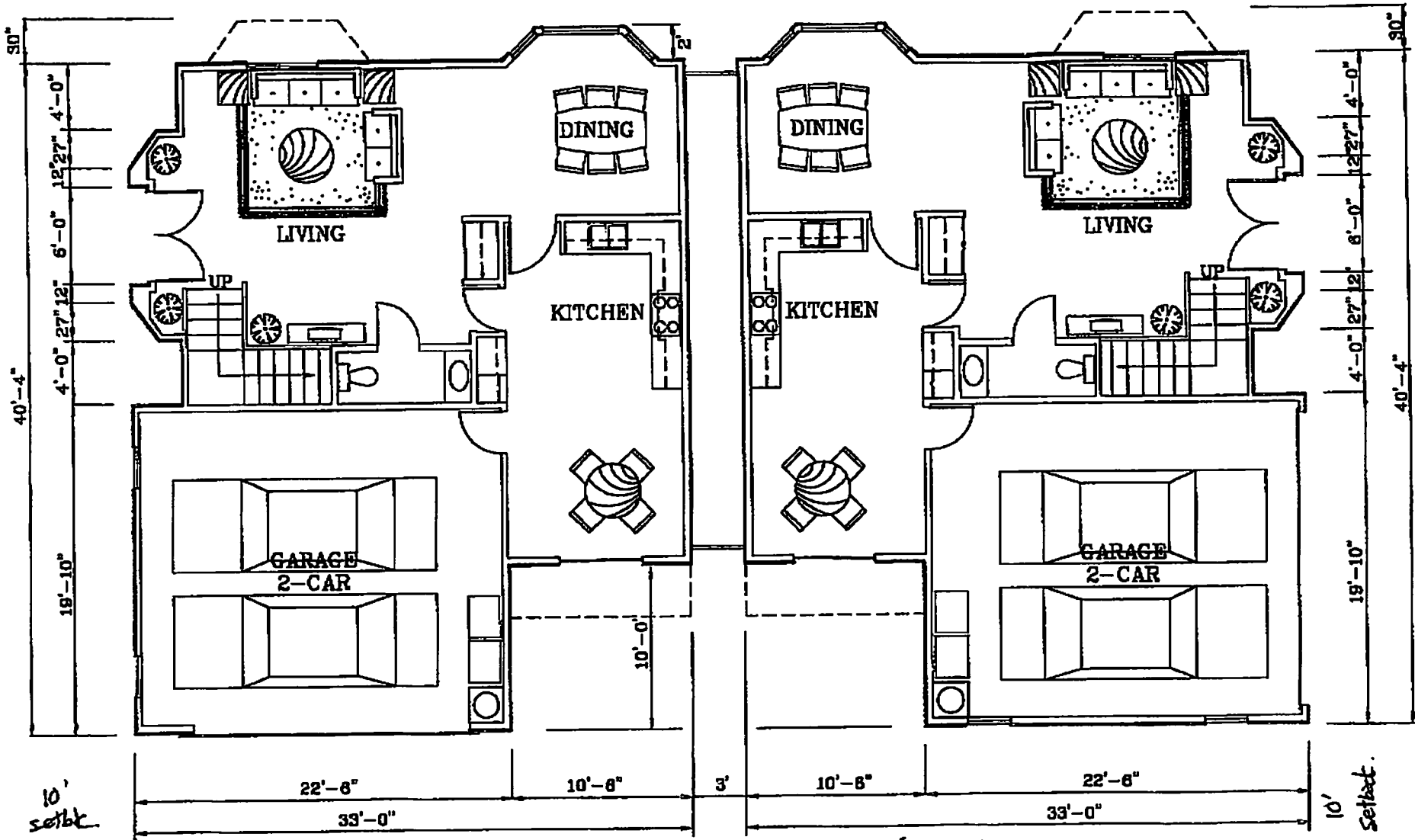
To: Ryan Meyer Fax: 707-748-3171
 From: Ced Dang Date: 6/20/07
 Re: 2547 E27th St Pages (including this page): 2

If you do not receive all pages, please contact sender at (510) 832-2628 ext. 222

Urgent For Review Please Comment Please Reply Please Recycle

Attached is a preliminary layout for 2 SFAs
 on the subject property.

There are 10' setbacks on all sides of
 the 50' x 50' lot.



26th Ave (89')
FIRST FLOOR

(B)

(A)

(60') E 27th ST.

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 I-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 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." 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

Sample I-9-W
I-9-W

→ make PID table

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 EPA 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. Please 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. *↳ Nope, Water levels taken @ head, no data below.*
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 collect 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.

Ted Dang
John Thorpe
April 26, 2007
Page 6

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

Soil Boring Logs

Well Completion Details	Depth	Sample Interval	PID Reading	USCS Code	Soil Description	
<p>Grout</p> <p>2" Dia. Casing</p> <p>Bentonite</p> <p>Sand</p> <p>TD 15'</p>	1			af	Artificial Fill - 2" Asphalt and base rock	
	2			SM	Silty sand with some 1/4 inch pebbles, grayish brown 1.4/5/2	
	3			CL	Clay, greenish black 6.1/2.5/1.06, medium plasticity, with some fine sands	
	4					
	5		1			
	6					
	7					
	8					
	9					
	10			1	CL	Same as above with petroleum odor
	11					
	12			14.5	SC	Clayey sand, fine grained sand with 30% clay, grayish brown 2.54/5/2, rounded pebbles, petroleum odor
	13					
	14					
	15			0	SP	Sand with silt and clay, black 2.54/1/1, wet, rounded pebbles up to 1/2 inch in size, strong odor
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

Well Completion Details	Depth	Sample Interval	PID Reading	USCS Code	Soil Description
Grout 2" Dia. Casing	1			af	Artificial Fill - 2" Asphalt and base rock
Bentonite	2		3	SP	Sand, medium fine sand with pebbles up to 1 inch in size, damp
	3		0	SP	Sand with 1/2 inch rounded pebbles, moist, dark grayish brown, 1.04/4/1/1, no odor
Sand	4				
	5		0	SP	Coarse sand with pebbles up to 1/4 inch in size, wet, dark brown 1.4/3/3, no odor
TD 8'	6				
	7				
	8				
	9				Well stopped at 8' bgs because subsurface concrete like material was encountered.
	10				
	11				
	12				
	13				
	14				
	15				
	16				
	17				
	18				
	19				
	20				
	21				
	22				
	23				
	24				
	25				
	26				
	27				
	28				
	29				
	30				
	31				

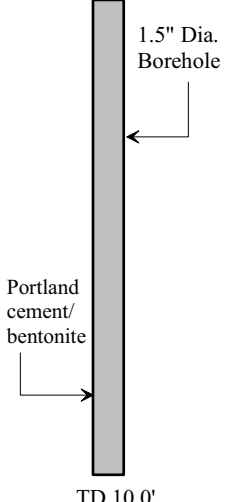
Well Completion Details		Depth	Sample Interval	PID Reading	USCS Code	Soil Description
<p>2" Dia. Casing</p> <p>Grout</p> <p>Bentonite</p> <p>Sand</p> <p>TD 15'</p>	1				af	Artificial Fill - 2" Asphalt and base rock
	2			0	SP	Medium fine sand with pebbles up to 1 inch in diameter, brown 1.04/4/3
	3			0	SP	Medium fine sand with some silt and clay, brown 1.04/4/3, damp, no odor
	4					
	5			0	SC	Clayey sand, fine sand with clay, dark gray 2.54/4/1, no odor
	6					
	7					
	8				SC	Clayey sand, fine sand with clay, dark olive brown 2.54/3/3, damp
	9			0		
	10					
	11					
	12					
	13			0	SC	Clayey sand, fine grained sand with clay, olive brown, 2.54/4/1, moist
	14					
	15					
16						
17						
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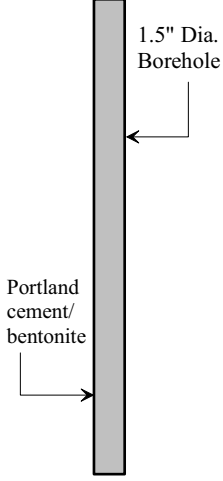
Well Completion Details	Depth	Sample Interval	PID Reading	USCS Code	Soil Description
	1			af	Artificial Fill - 2" Asphalt and base rock
	2				
	3				
	4		2.4	CL	Clay with small layers of fine gravel sand, very dark grayish brown, 2.54/3/2, damp
	5				
	6				
	7		1.7	CL	Clay with layers of fine gravel sand, dark grayish brown 2.54/3/2, damp
	8				
	9		2	SC	Clayey sand, fine to medium sand with clay, olive brown 2.54/4/4, moist
	10				
	11				
	12		2.4	SC	Same as above, wet
	13				
	14				
	15				
16					
17					
18					
19					
20					
21					
22					
23					
24					
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26					
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28					
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30					
31					

TD 15'

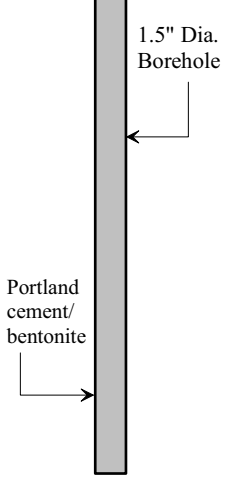
Well Completion Details	Depth	Sample Interval	PID Reading	USCS Code	Soil Description
<p>2" Dia. Casing</p> <p>Grout</p> <p>Bentonite</p> <p>Sand</p> <p>TD 15'</p>	1		4		
	2			SM	Silty sand, medium to fine grained sand and silt, very dark grayish brown 104R/3/5, damp
	3				
	4		0	CL	Clay with sand pebbles, black 104R/2/1, wet
	5				
	6				
	7		0	SC	Clayey sand, sand with clay and some pebbles up to 1 inch in diameter, olive brown 2.5/4/3, wet
	8				
	9				
	10		0	CL	Clay wit 5% "rock" fragments, black 2.54/2.5/1, wet
	11				
	12		0	SP	Sand with some silt and clays, dark yellowish brown 104R/3/6, damp
	13				
	14				
	15				
16					
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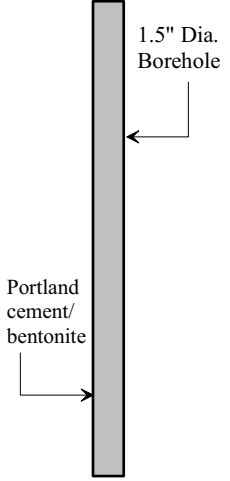
Well Completion Details	Depth	Sample Interval	PID Reading	USCS Code	Soil Description
<p>4" Dia. Casing</p> <p>Grout</p> <p>Bentonite</p> <p>Sand</p> <p>TD 15'</p>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31		44 9 0 107 6	CL CL CL	Clay with some silt and sand, black 5/2.5/1 Silty clay with some "rock" pebbles, black 5/2.5/1, moist Silty clay with some silt, moist/wet, olive 5/5/3

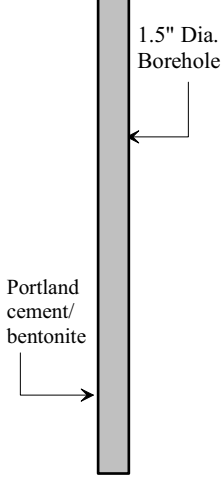
Soil Boring Completion Details	Depth	USCS Code	PID Reading* (ppm)	Soil Description	
	1	SC		Sandy loam, light olive brown 2.5Y5/4, with small gravel Some inclusions of clay, black 2.5Y2.5/1	
	2				
	3				
	4				
	5	GM		Gravel, with some fines	
	6				
	7				
	8	SC	1	Very gravelly sandy loam, light olive brown 2.5Y5/4	
	9				*Background PID readings indicated a maximum of 3ppm
	10				
11					
12					
13					
14					
15					
16					
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28					
29					
30					
31					

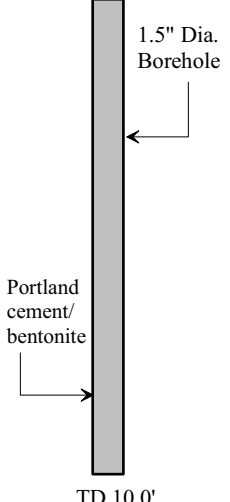
Soil Boring Completion Details	Depth	USCS Code	PID Reading* (ppm)	Soil Description
	1			
	2	SC		Sandy loam, light olive brown 2.5Y5/4, with small and medium gravel
	3			
	4			
	5			
	6			
	7	SC		Gravelly sandy loam, light olive brown 2.5Y5/4, wet
	8			
	9	SC	1	Sandy clay loam, light olive brown 2.5Y5/4, with sandy clay (2.5Y4/4) inclusions, moist
	10			
11				
12				
13				
14				
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29				
30				
31				

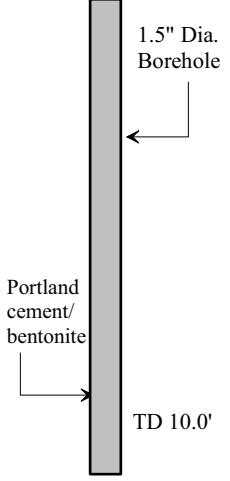
*Background PID readings indicated a maximum of 3ppm

Soil Boring Completion Details	Depth	USCS Code	PID Reading* (ppm)	Soil Description
 <p>1.5" Dia. Borehole</p> <p>Portland cement/bentonite</p> <p>TD 10.0'</p>	1	GM		Gravel, with some fines
	2	CL	7	Sandy clay, dark olive grey 5Y3/2
	3			
	4			
	5	CL	1	Clay, black 2.5Y2.5/1, moist, mild petroleum odor
	6			
	7	CL	2	Sandy clay, dark grey 5Y4/1, with some gleying (5GY6/1), no petroleum odor
	8		1	
	9			
		10		
	11			
	12			
	13			
	14			
	15			
	16			*Background PID readings indicated a maximum of 3ppm
	17			
	18			
	19			
	20			
	21			
	22			
	23			
	24			
	25			
	26			
	27			
	28			
	29			
	30			
	31			

Soil Boring Completion Details	Depth	USCS Code	PID Reading* (ppm)	Soil Description
 <p>1.5" Dia. Borehole</p> <p>Portland cement/bentonite</p> <p>TD 10.0'</p>	1	SM		Gravelly sandy loam, olive brown 2.5Y4/4,
	2			
	3	CL		Silty clay, black 5Y2.5/2, with small gravel and rust color veins
	4			
	5	CL		Clay, black 5Y2.5/1
	6			
	7			
	8	CL		Clay, olive brown 2.5Y4/4, with small gravel, moist
	9			
	10			
	11			
	12			
	13			
	14			
	15			
	16			
	17			
	18			
	19			
	20			
	21			
	22			
	23			
	24			
	25			
	26			
	27			
	28			
	29			
	30			
	31			
				*Background PID readings indicated a maximum of 3ppm

Soil Boring Completion Details	Depth	USCS Code	PID Reading* (ppm)	Soil Description
 <p>1.5" Dia. Borehole</p> <p>Portland cement/bentonite</p> <p>TD 10.0'</p>	1 2 3	SC	2	Mixed gravel and sandy clay, olive brown 2.5Y4/3, with grey/white fines
	4 5	CL	3	Silty clay, olive brown 2.5Y 4/4
	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
	11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31			<p>*Background PID readings indicated a maximum of 3ppm</p>

Soil Boring Completion Details	Depth	USCS Code	PID Reading* (ppm)	Soil Description
	1	SM		Mixed gravel and clay loam, olive brown 2.5Y4/4
	2	SC		Sandy clay, black 2.5Y2.5/1
	3	SC	4	Clay, black 2.5Y2.5/1, with some small gravel
	4	CL	1	Sandy clay, black 2.5Y2.5/1
	5			
	6	CL	2	Clay, black 2.5Y2.5/1, with small gravel, moist
	7			
	8	CL		Silty clay, 2.5Y4/4 olive brown, moist
	9			
	10	SC	1	Silty clay, olive 5Y5/6, with patches of clay, black 2.5Y2.5/1
	11			
	12			
	13			
	14			
	15			
	16			
	17			
	18			
	19			
	20			
	21			
	22			
	23			
	24			
	25			
	26			
	27			
	28			
	29			
	30			
	31			
				*Background PID readings indicated a maximum of 3ppm

Soil Boring Completion Details	Depth	USCS Code	PID Reading* (ppm)	Soil Description
 <p>1.5" Dia. Borehole</p> <p>Portland cement/bentonite</p> <p>TD 10.0'</p>	1	GC		Mixed gravel and sandy clay, dark olive grey 5Y3/2
	2	SC	4	Sandy clay, black 2.5Y2.5/1 with grey/white fines
	3	CL		Sandy clay, brown (and other colors) 10YR4/3, with grey/white fines
	4	CL	1	Clay, black 2.5Y2.5/1
	5			
	6	CL	1	Silty clay, very dark greyish brown 2.5Y3/2, somewhat moist
	7			
	8	GC		Mixed gravel with some clayey fines, moist
	9			
	10	CL		Sandy clay, olive brown 2.5Y4/4, moist
	11			<p>*Background PID readings indicated a maximum of 3ppm</p>
	12			
	13			
	14			
	15			
	16			
	17			
	18			
	19			
	20			
	21			
	22			
	23			
	24			
	25			
	26			
	27			
	28			
	29			
	30			
	31			

Soil Boring Completion Details	Depth	Sample Interval	USCS Code	Soil Description
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">1.5" Dia. Borehole</div> <div style="margin-bottom: 20px;">Portland cement/bentonite</div> <div style="margin-bottom: 20px;">▼</div> <div style="margin-bottom: 20px;">▼</div> <div style="margin-bottom: 20px;">TD 27.5'</div> </div>	1		GM	Mixed gravel and loam, olive brown 2.5Y4/4
	2			
	3		CL	Clay with some silt and sand, very dark greyish brown 10YR2/2, medium plasticity.
	4			
	5			
	6			
	7		CL	Clay, dark olive, 5Y3/2, high plasticity, with some fine sands
	8			
	9			
	10			
	11			
	12			
	13		SC	Clayey sand, fine grained sand with 30% clay, moist, wet, olive brown 2.5Y5/4, medium plasticity.
	14			
	15			
	16			
	17		CL	Sandy clay, with 20% gravel, reddish brown 5YR 4/4, high plasticity
	18			
	19			
	20		CL	Sandy clay, with 30% gravel, very moist, reddish brown 5YR4/4, high plasticity
	21			
	22			
	23			
	24		CL	Clay, with some silt, very dense, black, 2.5Y5/4, high plasticity
	25			
	26			
	27			
	28			
	29			Refusal at 27.5'
	30			
	31			

Date Completed: 6/19/02
 Logged By: G. Knopp
 Total Depth: 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)	USCS	Description	Remarks
1							SANDY GRAVEL (GW), brown, slightly moist, fine to coarse grained gravel, fine grained sand	
2								
3								
4					37		- hand dug to 4' until free hydrocarbon product observed in soil	▼
5					170		SILTY CLAY WITH SOME SAND (CL), dark gray-brown to black, moist, very fine grained sand, free hydrocarbon product in soil, highly plastic	
6					117			
7					75			
8					31		- no sand, olive-gray to olive-brown	
9					157			
10					19		- olive-gray	
11					11			
12					5			
13					6		- some fine grained sand present, very moist	
14					4		SANDY CLAY (SC), orange-brown, fine to coarse grained sand, wet at 14'	
15					4			
16					4		- some fine grained angular to subangular chert gravel present, fine to coarse grained sand	
17					2			
18					3		GRAVELLY SAND WITH CLAY (SW), wet, light brown, fine to coarse grained sand and gravel, gravel is angular to subangular chert	
19					1.2			
20					0.9		END OF BORING	
21					0.3		- 5' of 1" diameter screen inserted, 1' sand pack, 2' bentonite chips, remainder backfilled with grout.	
22					0.4			
23					3			
24					0			
25					0			

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PROJECT NO. 17500

LOG OF BORING NO. EB-1

Tomorrow Development Site
 2547 E. 27th Street
 Oakland, California

PLATE

A2

Date Completed: 6/19/02
 Logged By: G. Knopp
 Total Depth: 16.0 ft

Sampler: Macro-Core System EC-5
 Method: 3" O.D. Sampler
 Hammer Wt: 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)	USCS	Description	Remarks
1							SANDY GRAVEL (SW), dark brown, slightly moist	
2								
3								
4							- hand dug to 5'	
5					66		SILTY CLAY (CL/CH), very dark gray, moist	
6					162			
7					100			
8					85			
9					55			
10					25		- gray to orange-brown, trace fine to medium grained sand present	
11					29			
12					20		SILTY CLAY (CL), orange-brown, moist, increasing sand	
13					2.1			
14					0		SANDY CLAY WITH TRACE GRAVEL (SC), light olive-gray with orange-brown mottling, moist to very moist, fine grained sand	
15					0		GRAVELLY SAND WITH SOME CLAY (SW), orange-brown, wet	
16					0			
17					0		END OF BORING	
18					0		- 5' of 1" diameter screen inserted.	
19					0		- Boring backfilled with grout.	
20					0		- Ground water encountered at 7.5' bgs.	
21								
22								
23								
24								
25								

▽

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PROJECT NO. 17500

LOG OF BORING NO. EB-2

Tomorrow Development Site
 2547 E. 27th Street
 Oakland, California

PLATE

A3

Date Completed: 6/19/02
 Logged By: G. Knopp
 Total Depth: 11.0 ft

Sampler: Macro-Core System EC-5
 Method: 3" O.D. Sampler
 Hammer Wt: Vibratory Push
 Location: near middle of site
 Elevation: approx. 110'

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	PID (ppm)	USCS	Description	Remarks
1							GRAVELLY SAND (SW), brown, slightly moist	
2							SILTY CLAY (CL/CH), red-brown to black, moist	
3							- black, very moist	
4					0.9		- wet 4.5' to 6.5'	▼
5					0		SANDY CLAY (SC), light orange-brown, moist	
6					0			
7					0		SILTY CLAY (CL), orange-brown, moist	
8					0			
9					0			
10					0		CLAYEY SAND WITH SOME GRAVEL (SC), orange to orange-brown, moist	
11					0		CLAYEY GRAVEL WITH SAND (GW), orange-brown, wet, fine to coarse grained sand, fine to medium grained angular chert, sandstone, and claystone gravel	
12							END OF BORING	
13							- 2' of screen inserted.	
14							- Boring backfilled with grout.	
15							- Ground water encountered at 9' bgs.	
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

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PROJECT NO. 17500

LOG OF BORING NO. EB-3

Tomorrow Development Site
 2547 E. 27th Street
 Oakland, California

PLATE

A4