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September 14, 2004

**PHASE II SUBSURFACE
INVESTIGATION REPORT**

2744 East 11th Street
Oakland, California 94601

Project No. 9440

Prepared For

Lucasey Manufacturing
2744 East 11th Street
Oakland, California 94601

Prepared By

AEI Consultants
2500 Camino Diablo, Suite 200
Walnut Creek, CA 94597
(925) 283-6000

AEI



September 14, 2004

Mr. Joe Lucasey
Lucasey Manufacturing
2744 East 11th Street
Oakland, California 94601

Subject: Phase II Subsurface Investigation
2744 East 11th Street
Oakland, California 94601
Project No. 9440

Dear Mr. Lucasey:

The following letter report describes the activities and results of the subsurface investigation performed by AEI Consultants at the above referenced property (Figure 1: Site Location Map). The investigation was designed to determine whether a release occurred at the subject property in the area of former heating oil underground storage tanks (USTs), oil rooms, and machine shop areas as identified in a Phase I Environmental Site Assessment (ESA) performed by AEI on August 24, 2004 (AEI Project Number 9293).

I Background

The subject property (hereinafter referred to as the "site" or "property") is located on the northeast side of East 11th Street in a mixed light industrial and residential area of Oakland. The property totals approximately 2.32 acres and is improved with one building totaling approximately 100,000 square feet. The building is occupied by Lucasey Manufacturing, a sheet metal fabricator that specializes in television mounting systems. Operations conducted on-site include fabrication, powder coating, product warehousing, and office administration.

The property was developed with portions of the current building in the 1910s, with the remainder added in the 1920s for use by the California Packing Corporation as a canned goods warehouse.

AEI performed an ESA at the subject property on August 24, 2004. The ESA reviewed Sanborn Fire Insurance Maps for the property to assist in evaluating the historical use of the site. In the 1911 and 1950 Sanborn maps, two features, designated as "oil house" and "oil tank in ground," were noted southwest of the subject property building. These features presumably consisted of oil storage and a UST containing heating oil, which was designated as an energy source for the property. Machine shop areas, which likely utilized various quantities of hazardous materials, were also noted in the vicinity of the USTs.

AEI presumes that the USTs were removed based on the subsequent redevelopment activities, although this can only be confirmed through an additional investigation. Based on the former presence of the USTs and hazardous material storage rooms, AEI recommended a subsurface investigation to determine whether these features adversely impacted the site.

Adjacent Property to the Southeast

As part to the Phase I ESA, AEI also reviewed information pertaining to The Roadway Express, Inc. site at 1125 29th Avenue, the adjacent property to the southeast, currently used as the Oakland Animal Shelter. Reportedly, when the subject property was occupied by California Packing Company, the subject property included this adjacent site, now occupied by the Oakland Animal Shelter. This site was identified by the regulatory database, as a SPILLs site, which are sites listed by the Regional Water Quality Control Board (RWQCB) as sites that have recorded spills, leaks, investigations, and cleanups.

Several environmental investigations conducted at the site prior to a property transaction were reviewed at the Oakland Office of Emergency Services (OOES) by AEI. After the former buildings were demolished, a subsurface investigation was conducted to determine if the previous owner, the California Packing Company that operated a cannery from at least 1920 to 1978, had impacted the site. Twenty-four soil samples and two groundwater samples were collected and analyzed for total petroleum hydrocarbons (TPH) as diesel and gasoline, volatile organic compounds (VOCs), and metals. Soil samples were also analyzed for asbestos and lead. TPH was detected at concentrations up to 81 milligrams per kilogram (mg/kg), acetone was detected at 98 micrograms per liter ($\mu\text{g}/\text{l}$), toluene was detected at 83 $\mu\text{g}/\text{l}$, and lead was detected at 20 mg/kg lead. Tetrachloroethene (PCE) was detected in the groundwater at 9.1 $\mu\text{g}/\text{l}$. No obvious sources of contamination such as maintenance pits, former USTs, or sumps were uncovered during this investigation. After reviewing these results, the Alameda County Environmental Health Department (ACEHD) determined that the concentrations were not considered significant and that further action was not warranted.

II Investigative Efforts

AEI performed a subsurface investigation at the property on August 31, 2004. A total of 5 soil borings (SB-1 through SB-4 and SB-6) were advanced. AEI abandoned SB-5 due to an obstruction approximately 1-foot below ground surface. The locations of the borings were chosen to identify a release, if any, in the areas identified in the Sanborn Maps: former USTs, oil storage areas, and machine shops. The locations of the soil borings are shown on Figure 2.

Soil Sample Collection

The borings were advanced with a GeoProbe direct push drilling rig to a depth of 16 feet bgs. Soil samples were collected at 4-foot intervals.

Significant staining and hydrocarbon odor was observed during the advancement of the soil borings, SB-1, SB-2, SB-4, and SB-6, during the sample collection. The soil staining consisted

of veins of black sludge dispersed throughout the subsurface clays beginning at approximately 12 feet bgs to the bottom of the boring. The soil samples were screened in the field using a Photoionizing Detector (PID). The soil screening data is presented on the borings logs found in Attachment A.

Soil cores were continuously collected in 2" diameter acrylic liners, from which a six-inch sample was chosen at selected depths. The soil samples were sealed with Teflon tape and plastic caps, marked with unique identifiers and placed in a cooler with wet ice to await transportation to the laboratory.

Groundwater Sample Collection

Upon drilling to the target depth, temporary 3/4" diameter slotted PVC casing was inserted into each boring to facilitate collection of groundwater samples. Groundwater was encountered at approximately 13 feet bgs in the soil borings.

The exact depth to groundwater was not measured due to the presence of a thick layer of free product in the borings. Black sludge with a very strong hydrocarbon odor, coated each plastic bailer in SB-1, SB-2, SB-4 and SB-6 as it was lowered to collect groundwater samples. During the groundwater sample collection, the quantity of sludge did not dissipate.

Groundwater samples were collected in 1-liter amber bottles and 40-mL VOA vials. The VOA vial samples were capped so that there was no head space or visible air bubbles within the vials. The samples were then placed in a cooler with wet ice to await transportation to the laboratory.

Following sample collection, the temporary PVC casing was removed and each boring was backfilled with neat cement grout.

Laboratory Analysis

On August 31, 2004, the soil and groundwater samples were transported to McCampbell Analytical Inc. (Department of Health Services Certification #1644) under chain of custody protocol for analysis. Analytical results and chain of custody documents are included as Attachment B.

AEI analyzed the groundwater samples from each of the borings. Groundwater samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline, diesel, and motor oil (EPA Method 8015), and for volatile organic compounds by EPA Method 8260.

The soil samples were placed on hold at the laboratory.

III Findings

The near surface native soil encountered during the boring advancement consisted of sandy clay. Refer to Attachment A for detailed logs of the borings.

Saturated soils were apparent in each of the borings in the range of 13 to 16 feet bgs; however, groundwater was generally measured in the borings at approximately 13 feet bgs.

TPH as gasoline, diesel and motor oil was detected at significant concentrations in 4 of the 5 groundwater samples collected. The petroleum hydrocarbons were not detected above the laboratory detection limits in the groundwater sample from SB-3.

TPH as gasoline was detected at 650 micrograms per liter ($\mu\text{g/l}$), 2,200 $\mu\text{g/l}$, 3,800 $\mu\text{g/l}$, and 130 $\mu\text{g/l}$ in SB-1, SB-2, SB-4, SB-6, respectively. TPH as diesel was detected at 500,000 $\mu\text{g/l}$, 110,000 $\mu\text{g/l}$, 560,000 $\mu\text{g/l}$, and 8,700 $\mu\text{g/l}$ in SB-1, SB-2, SB-4, SB-6, respectively. TPH as motor oil was detected at 520,000 $\mu\text{g/l}$, 89,000 $\mu\text{g/l}$, 410,000 $\mu\text{g/l}$, and 6,900 $\mu\text{g/l}$ in SB-1, SB-2, SB-4, SB-6, respectively.

Volatile organic compounds (VOCs) were also detected in the groundwater samples above the laboratory detection limits in 4 of the samples analyzed: SB-2 through SB-6. Tetrachloroethene (PCE) was detected in SB-3 at 8.8 $\mu\text{g/l}$, cis, 1,2 Dichloroethene was detected at 0.71 $\mu\text{g/l}$ in SB-2, n-Butyl benzene was detected at 1.3 $\mu\text{g/l}$ and 0.7 $\mu\text{g/l}$ in SB-4 and SB-6, respectively. Xylenes were detected at 0.72 $\mu\text{g/l}$ in SB-4, Chloroform was detected in SB-6 at 6.6 $\mu\text{g/l}$, and 1,4 Dichlorobenzene was detected at 0.75 $\mu\text{g/l}$ in SB-6. No other VOCs were detected in the samples analyzed above the laboratory detection limits.

Groundwater sample analytical data is summarized in Table 1.

IV Conclusions and Recommendations

Based on the analytical results of the groundwater samples collected and analyzed during this investigation, a significant release of petroleum hydrocarbons has occurred at the subject property. Based on the presence of petroleum hydrocarbons at concentrations as high as 520,000 $\mu\text{g/l}$ for TPH as motor oil and the presence of black sludge observed during field operations, it is likely that free product is present on the water table. Presumably, the release resulted from the former USTs at the site.

The concentration of PCE detected during this investigation is similar to that identified at the adjacent site, the Oakland Animal Shelter. Although, the ACEHD issued a letter of no further action for the adjacent property, the source of PCE is unknown.

Based on the identification of a significant release, the subject property owner should be aware of their obligation to report these findings to the appropriate regulatory agency. Following a

review of these findings, it is likely that the regulatory agency will require additional investigations at the site to determine the extent of the contamination, groundwater monitoring wells, and a Plan of Action to mitigate the release.

V Report Limitation

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide the required information, but it cannot be assumed that they are representative of areas not sampled. All conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

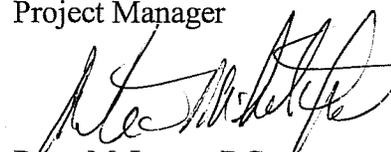
These services were performed in accordance with generally accepted practices, in the environmental engineering and construction field, which existed at the time and location of the work.

If you have any questions regarding our investigation, please do not hesitate to contact me at (925) 283-6000, extension 105.

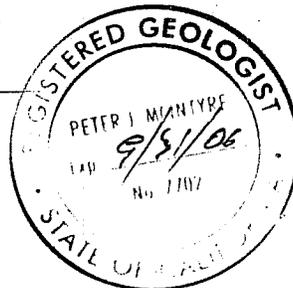
Sincerely,



Lawrence Hollins
Project Manager



Peter McIntyre, RG
Senior Project Geologist



Figures

Figure 1: Site Map

Figure 2: Site Plan

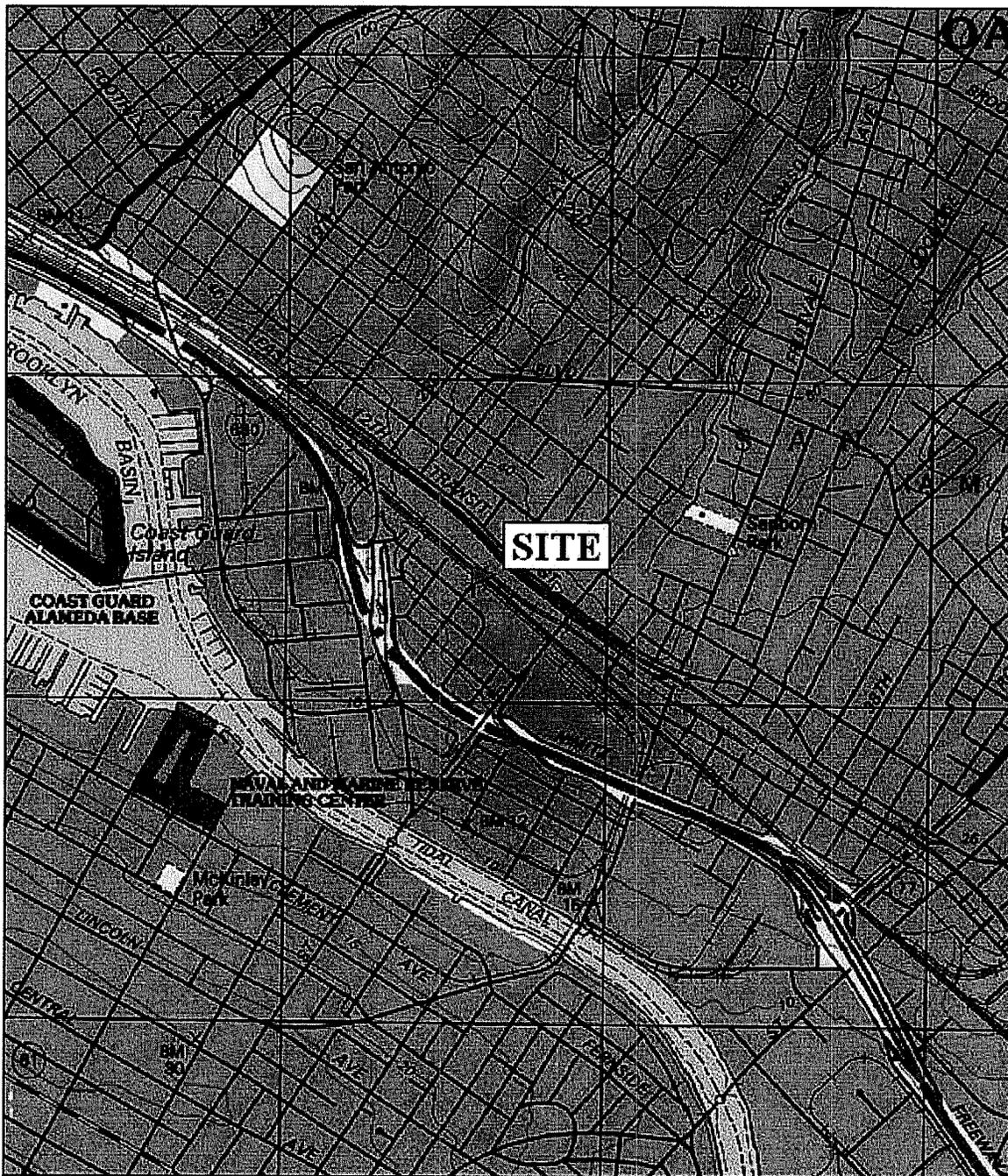
Appendix A

Table 1: Groundwater Sample Analytical Data

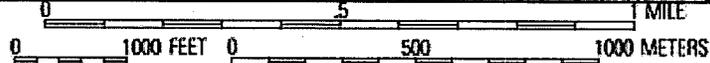
Appendix B

Attachment A: Soil Boring Logs

Attachment B: Sample Analytical Documentation



TN* / MN
15°



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AEI CONSULTANTS	
SITE LOCATION MAP	
2744 EAST 11 TH STREET OAKLAND, CALIFORNIA	FIGURE 1 PROJECT No. 9440

LUCASEY MANUFACTURING

2744 EAST 11TH STREET

OFFICES & MANUFACTURING AREA

LOADING DOCK

FORMER MACHINE SHOP AREA

⊕ SB-3

SB-4

⊕

SB-6

⊕

FORMER UST LOCATION

⊕ SB-2

OIL STORAGE HOUSE AREA

⊕ SB-1

1101 29TH AVENUE

OAKLAND ANIMAL SHELTER

PAVED PARKING AREA

SIDEWALK

ENTRANCE

EAST 11TH STREET

RESIDENCE

RESIDENCE

⊕ SOIL BORINGS 8/31/04

..... FENCE LINE



AEI CONSULTANTS
2500 CAMINO DIABLO, SUITE 200 WALNUT CREEK, CA

SITE PLAN

2774 EAST 11TH STREET
OAKLAND, CA

FIGURE 2
PROJECT No. 9440

Table 1
Groundwater Sample Analytical Data

Sample ID	Sample Date	TPH-g	TPH-d	TPH-mo	PCE	cis, 1,2 DCE	n-Butyl benzene	Xylenes	Chloroform	1,4 Dichlorobenzene	Other VOCs
		$\mu\text{g/l}$ <i>(EPA method 8015M)</i>	$\mu\text{g/l}$	$\mu\text{g/l}$							
SB-1W	8/31/04	650	500,000	520,000	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<MDL
SB-2W	8/31/04	2,200	110,000	89,000	<0.5	0.71	<0.5	<1.0	<0.5	<0.5	<MDL
SB-3 W	8/31/04	<50	<50	<250	8.8	<0.5	<0.5	<1.0	<0.5	<0.5	<MDL
SB-4 W	8/31/04	3,800	560,000	410,000	<0.5	<0.5	1.3	0.72	<0.5	<0.5	<MDL
SB-6 W	8/31/04	130	8,700	6,900	<0.5	<0.5	0.7	<1.0	6.6	0.75	<MDL
MDL		50	50	250	0.5	0.5	0.5	1.0	0.5	0.5	Varies

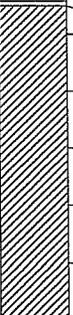
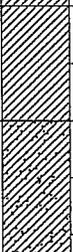
Notes:

- $\mu\text{g/l}$ micrograms per liter
- TPH-g Total petroleum hydrocarbons as gasoline
- TPH-d TPH as diesel
- TPH-mo TPH as motor oil
- cis 1,2 DCE cis 1,2 Dichloroethene
- PCE Tetrachloroethene
- MDL Method detection limit, see Appendix B for MDL for 8260 VOC MDLs
- Sample not analyzed by this method
- * All othe analytes <MDL

Project:
Project Location: 2744 East 11th Street
Project Number: 9440

Log of Boring SB-1
 Sheet 1 of 1

Date(s) Drilled August 31, 2004	Logged By LH	Checked By PM
Drilling Method Direct Push	Drill Bit Size/Type 2 1/4 inch	Total Depth of Borehole 16 feet bgs
Drill Rig Type GeoProbe 5410	Drilling Contractor ECA	Approximate Surface Elevation
Groundwater Level and Date Measured 16 feet ATD, 13 feet after 1 minute	Sampling Method(s) Tube (push)	Well Permit.
Borehole Backfill Cement Slurry	Location	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
0						Concrete		
			SB-1 3.5'	CL		Coarse sandy clay, plastic, hard, dense, slightly moist. 10YR 2/1, black.	<1	
5			SB-1 7'	CL		Sandy clay, clay increases with depth, less moisture, dense. 10YR 4/3, brown.	<1	
				SC		Coarse sand and clay, 10YR 4/6, dark yellowish brown.		
10			SB-1 11'	CL		Sandy clay, soft, moist. 10YR 4/3, brown.	<1	
				CL		Sandy clay, soft and moist. Gley 1 4/10GY, dark greenish gray.		
			SB-1 15'	CL		Coarse sandy clay, dark green, with veins of black sludge with a very strong hydrocarbon odor. Gley 1 4/10GY, very dark greenish gray.	<1	
15						Bottom of Boring at 16 feet bgs		
20								

X:\PROJECTS\CHARACTERIZATION & REMEDIATION\DUPLICATE DIL & MISC\9440 PH II (Lucasey) Oakland - LH\SB-1.bgs (AEI geo probe 20.tpl)

Project:
Project Location: 2744 East 11th Street
Project Number: 9440

Log of Boring SB-3
 Sheet 1 of 1

Date(s) Drilled August 31, 2004	Logged By LH	Checked By PM
Drilling Method Direct Push	Drill Bit Size/Type 2 1/4 inch	Total Depth of Borehole 16 feet bgs
Drill Rig Type GeoProbe 5410	Drilling Contractor ECA	Approximate Surface Elevation
Groundwater Level 16 feet ATD, 13 feet and Date Measured after 1 minute	Sampling Method(s) Tube (push)	Well Permit.
Borehole Backfill Cement Slurry	Location	

X:\PROJECTS\CHARACTERIZATION & REMEDIATION\DUPLICATE DIL & MISC\9440 PH II (Lucasey) Oakland - LH\SB-3.bgs [AE] geoprobe 20.tpi

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
0						Concrete		
				GW		Gravelly sand, loose, slightly moist. 10YR 4/3, dark yellowish brown.		
	4'		SB-3 4'				<1	
5				CL		Sandy clay, dark, dense. 10YR 2/1, black.		
	8'		SB-3 8'	SC		Coarse sand and clay, small sized gravel pieces. 10YR 4/3, brown.	<1	
10				CL		Sandy clay, moist and soft. 10 YR 4/3, brown.	<1	
	12'		SB-3 12'				<1	
	16'		SB-3 16'				<1	
						Bottom of Boring at 16 feet bgs	<1	

(after 1 minute) ▾

(ATD) ▾

Project:
Project Location: 2744 East 11th Street
Project Number: 9440

Log of Boring SB-4
 Sheet 1 of 1

Date(s) Drilled	August 31, 2004	Logged By	LH	Checked By	PM
Drilling Method	Direct Push	Drill Bit Size/Type	2 1/4 inch	Total Depth of Borehole	16 feet bgs
Drill Rig Type	GeoProbe 5410	Drilling Contractor	ECA	Approximate Surface Elevation	
Groundwater Level and Date Measured	16 feet ATD, 13 feet after 1 minute	Sampling Method(s)	Tube (push)	Well Permit.	
Borehole Backfill	Cement Slurry	Location			

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
0						Concrete		
				GW		Sand and gravel, loose, 10YR 4/4, dark yellowish brown.		
			SB-4 4'	CL		Sandy clay, dark, dense, plastic. 10YR 2/1, black.	<1	
				CL		Sandy clay, slightly moist to dry, dense. 10YR 4/3, brown.		
5			SB-4 8'	SC		Coarse sand to gravel with clay mixture. 10YR 4/3 brown.	<1	
			SB-4 12'	CL		Sandy clay, slightly moist, veins of black sludge throughout, strong hydrocarbon odor, green coloration. Gley 1 3/10GY, very dark greenish gray.	23	
						(after 1 minute) ▽		
15			SB-4 16'				25	
						Bottom of Boring at 16 feet bgs	(ATD) ▽	
20								

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Project:
Project Location: 2744 East 11th Street
Project Number: 9440

Log of Boring SB-6
 Sheet 1 of 1

Date(s) Drilled	August 31, 2004	Logged By	LH	Checked By	PM
Drilling Method	Direct Push	Drill Bit Size/Type	2 1/4 inch	Total Depth of Borehole	12 feet bgs
Drill Rig Type	GeoProbe 5410	Drilling Contractor	ECA	Approximate Surface Elevation	
Groundwater Level and Date Measured	12 feet ATD, 11 feet after 1 minute	Sampling Method(s)	Tube (push)	Well Permit.	
Borehole Backfill	Cement Slurry	Location			

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
0						Concrete		
				GM		Sand and gravel, loose, 10YR 4/4, dark yellowish brown.		
			SB-6 4'	CL		Sandy clay, dark, dense, plastic. 10YR 2/1, black.	<1	
			SB-6 8'	CL		Sandy clay, black organic material streaks, no hydrocarbon odor. 10YR 4/3, brown.	<1	
			SB-6 12'	SC		Sandy clay, greenish, plastic, soft and moist. Veins of black sludge throughout. Gley 1 3/10GY, very dark greenish gray. (after 1 minute) ∇		
						Bottom of Boring at 12 feet bgs		(ATD) ∇ 12
15								

X:\PROJECTS\CHARACTERIZATION & REMEDIATION\DUEDIL & MISC\9440 PH II (Lucasey) Oakland - LHSB-6.bgs (AE) geoprobe 20.fpl

 McC Campbell Analytical, Inc.	110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone : 925-798-1620 Fax : 925-798-1622 Website: www.mcccampbell.com E-mail: main@mcccampbell.com
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All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #9440	Date Sampled: 08/31/04
		Date Received: 08/31/04
	Client Contact: Lawrence Hollins	Date Extracted: 08/31/04
	Client P.O.:	Date Analyzed: 08/31/04

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0408441

Lab ID	0408441-021B						
Client ID	SB-1W						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)			
%SS1:	104	%SS2:	91.5
%SS3:	88.0		

Comments: h,i

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

DF = Dilution Factor


 Angela Rydelius, Lab Manager

 McC Campbell Analytical, Inc.	110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone : 925-798-1620 Fax : 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com
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All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #9440	Date Sampled: 08/31/04
		Date Received: 08/31/04
	Client Contact: Lawrence Hollins	Date Extracted: 08/31/04
	Client P.O.:	Date Analyzed: 08/31/04

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0408441

Lab ID	0408441-022B
Client ID	SB-2W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	0.71	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)			
%SS1:	102	%SS2:	96.1
%SS3:	96.8		

Comments: h,i

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

DF = Dilution Factor


 Angela Rydelius, Lab Manager

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All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #9440	Date Sampled: 08/31/04
		Date Received: 08/31/04
	Client Contact: Lawrence Hollins	Date Extracted: 08/31/04
	Client P.O.:	Date Analyzed: 08/31/04

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0408441

Lab ID	0408441-023B
Client ID	SB-3W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	8.8	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	107	%SS2:	98.7
%SS3:	100		

Comments: i

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

DF = Dilution Factor


 Angela Rydelius, Lab Manager

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All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #9440	Date Sampled: 08/31/04
		Date Received: 08/31/04
	Client Contact: Lawrence Hollins	Date Extracted: 08/31/04
	Client P.O.:	Date Analyzed: 08/31/04

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0408441

Lab ID	0408441-024B						
Client ID	SB-4W						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	1.3	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	0.72	1.0	0.5

Surrogate Recoveries (%)

%SS1:	108	%SS2:	99.1
%SS3:	95.6		

Comments: h,i
 * water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil / sludge / solid samples in µg/kg, wipe samples in µg/wipe, product / oil / non-aqueous liquid samples 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) 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.

DF = Dilution Factor


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All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #9440	Date Sampled: 08/31/04
		Date Received: 08/31/04
	Client Contact: Lawrence Hollins	Date Extracted: 08/31/04
	Client P.O.:	Date Analyzed: 08/31/04

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0408441

Lab ID	0408441-025B
Client ID	SB-6W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	0.70	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	6.6	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	0.75	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	109	%SS2:	98.0
%SS3:	98.3		

Comments: h,i

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

DF = Dilution Factor

Angela Rydelius, Lab Manager

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560

Telephone: (925) 798-1620

Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH
 24 HR
 48 HR
 72 HR
 5 DAY

EDF Required? Yes No

Report To: Lawrence Hollins Bill To:
Company: AEI Consultants
2500 Camino Diablo, Suite 200
Walnut Creek, CA 94597 E-Mail:
Tele: (925) 944-2899 Fax: (925) 944-2895
Project #: 9440 Project Name:
Project Location: 2744 F. Hill Street Oakland
Sampler Signature: [Signature]

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED							
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other				
SB-1 3.5'		8/31	8:50															
SB-1 7'			8:55															
SB-1 11'			9:00															
SB-1 15'			9:08															
SB-1 18'			9:22															
SB-2 4'			9:42															
SB-2 8'			9:46															
SB-2 12'			9:50															
SB-2 16'			9:57															
SB-3 4'			10:12															
SB-3 8'			10:34															
SB-3 12'			10:40															
SB-3 16'			10:46															
SB-4 4'			11:09															

Relinquished By: [Signature] Date: 8/31 Time: 2:28 Received By: [Signature]
Relinquished By: Date: Time: Received By:
Relinquished By: Date: Time: Received By:

Analysis Request													Other		Comments
BTEX & TPH as Gas (602/8020 + 8015)/MTBE TPH as Diesel (8015)/TPH-G/TPH-MO Total Petroleum Oil & Grease (5520 E&F/B&F) Total Petroleum Hydrocarbons (418.1) EPA 601 / 8010 BTEX ONLY (EPA 602 / 8020) EPA 608 / 8080 EPA 608 / 8080 PCB's ONLY EPA 624 / 8240 (8260) EPA 625 / 8270 PAH's / PNA's by EPA 625 / 8270 / 8310 CAM-17 Metals LUFT 5 Metals Lead (7240/7421/239.2/6010) RCI															

ICE/° _____ PRESERVATION _____
 GOOD CONDITION _____ APPROPRIATE _____
 HEAD SPACE ABSENT _____ CONTAINERS _____
 DECHLORINATED IN LAB _____ PERSERVED IN LAB _____

VOAS O&G METALS OTHER



Existing building

50603-1 (soil, -16')
TPH-g: 4.8 ppm
TPH-d: 48 ppm
TPH-mo: 46 ppm

SB-3
TPH-g: ND
TPH-d: ND
TPH-mo: ND

PROBABLE PLUME EXTENT

SB-2
TPH-g: 2,200 ppb
TPH-d: 110,000 ppb
TPH-mo: 89,000 ppb

SB-4
TPH-g: 3,800 ppb
TPH-d: 560,000 ppb
TPH-mo: 410,000 ppb

E. 11th Street

SB-6
TPH-g: 130 ppb
TPH-d: 8,700 ppb
TPH-mo: 6,900 ppb

61ft

128ft

50603-3 (soil, -7.5')
TPH-g: 4.7 ppm
TPH-d: 50 ppm
TPH-mo: 79 ppm

50603-2
TPH-g: 310 ppb
TPH-d: 580,000 ppb
TPH-mo: 510,000 ppb

SB-1
TPH-g: 650 ppb
TPH-d: 520,000 ppb
TPH-mo: 530,000 ppb

50603-4
TPH-g: ND
TPH-d: 160,000 ppb
TPH-mo: 150,000 ppb

50603-5
TPH-g: ND
TPH-d: 670 ppb
TPH-mo: 2,800 ppb

50603-6 (soil, -16')
TPH-g: 73 ppm
TPH-d: 1,800 ppm
TPH-mo: 1,700 ppm

2744 e. 11th street
oakland, california

site plan

McC Campbell Analytical, Inc.



110 Second Avenue South, #D7
 Pacheco, CA 94553-5560
 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0507132

ClientID: TFCL

EDF: NO

Report to:

Cabe Silverhame
 Terra Firma Consulting, LLC
 20 Sunnyside Avenue #14-418
 Mill Valley, CA 94941

TEL: (408) 868-0855
 FAX: (415) 868-0858
 ProjectNo: #E50603; Lucasey
 PO:

Bill to

Gabe Silverhame
 Terra Firma Consulting, LLC
 20 Sunnyside Avenue #14-418
 Mill Valley, CA 94941

Requested TAT: 5 days

Date Received: 07/11/2005

Date Printed: 07/18/2005

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0507132-001	50603-1-12	Soil	07/09/2005	<input type="checkbox"/>		A		A												
0507132-002	50603-1-16	Soil	07/09/2005	<input type="checkbox"/>		A		A												
0507132-003	50603-2-12	Soil	07/09/2005	<input type="checkbox"/>		A		A												
0507132-004	50603-2-16	Water	07/09/2005	<input type="checkbox"/>	C			A		B										
0507132-005	50603-3-7.5	Soil	07/09/2005	<input type="checkbox"/>		A		A												
0507132-006	50603-4-12	Soil	07/09/2005	<input type="checkbox"/>		A		A												
0507132-007	50603-4-16	Water	07/09/2005	<input type="checkbox"/>	C			A		B										
0507132-008	50603-6-12	Soil	07/09/2005	<input type="checkbox"/>		A		A												
0507132-009	50603-6-16	Soil	07/09/2005	<input type="checkbox"/>		A		A												
0507132-010	50603-5-20	Water	07/09/2005	<input type="checkbox"/>	C			A		B										

Test Legend:

1	8260B_W	2	G-MBTEX_S	3	G-MBTEX_W	4	TPH(DMO)_S	5	TPH(DMO)_W
6		7		8		9		10	
11		12		13		14		15	

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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Terra Firma Consulting, LLC 20 Sunnyside Avenue #14-418 Mill Valley, CA 94941	Client Project ID: #E50603; Lucasey	Date Sampled: 07/09/05
	Client Contact: Cabe Silverhame	Date Received: 07/11/05
	Client P.O.:	Date Extracted: 07/14/05
		Date Analyzed: 07/14/05

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0507132

Lab ID	0507132-004C
Client ID	50603-2-16
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	1.5	1.0	0.5	sec-Butyl benzene	0.60	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND<1.0	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	0.75	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	0.57	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	0.68	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	0.68	1.0	0.5

Surrogate Recoveries (%)

%SS1:	107	%SS2:	96
%SS3:	87		

Comments: h,i

* 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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 Website: www.mcccampbell.com E-mail: main@mcccampbell.com

Terra Firma Consulting, LLC 20 Sunnyside Avenue #14-418 Mill Valley, CA 94941	Client Project ID: #E50603; Lucasey	Date Sampled: 07/09/05
		Date Received: 07/11/05
	Client Contact: Cabe Silverhame	Date Extracted: 07/14/05
	Client P.O.:	Date Analyzed: 07/14/05

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0507132

Lab ID	0507132-007C
Client ID	50603-4-16
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND<1.0	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	1.4	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	108	%SS2:	93
%SS3:	89		

Comments: h,i

* 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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Terra Firma Consulting, LLC 20 Sunnyside Avenue #14-418 Mill Valley, CA 94941	Client Project ID: #E50603; Lucasey	Date Sampled: 07/09/05
		Date Received: 07/11/05
	Client Contact: Cabe Silverhame	Date Extracted: 07/14/05
	Client P.O.:	Date Analyzed: 07/14/05

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0507132

Lab ID	0507132-010C
Client ID	50603-5-20
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND<1.0	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	103	%SS2:	95
%SS3:	101		

Comments: i

* 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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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0507132

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 17044			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	115	115	0	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	88	90	2.77	N/A	70 - 130

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

BATCH 17044 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507132-004b	7/09/05 3:00 PM	7/11/05	7/12/05 7:46 AM	0507132-007b	7/09/05 3:15 PM	7/11/05	7/12/05 2:42 PM
0507132-010B	7/09/05 3:30 PM	7/11/05	7/14/05 2:29 AM				

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.

DHS Certification No. 1644

_____ QA/QC Officer



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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0507132

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 17072			Spiked Sample ID: 0507131-010A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) ^E	ND	60	104	106	1.22	104	103	0.347	70 - 130	70 - 130
MTBE	ND	10	96.9	93.9	3.12	108	100	7.51	70 - 130	70 - 130
Benzene	ND	10	98.5	99.8	1.24	107	106	1.72	70 - 130	70 - 130
Toluene	ND	10	103	103	0	104	104	0	70 - 130	70 - 130
Ethylbenzene	ND	10	110	110	0	109	108	1.16	70 - 130	70 - 130
Xylenes	ND	30	96.7	96.7	0	95.7	95.7	0	70 - 130	70 - 130
%SS:	98	10	103	106	3.02	107	105	1.65	70 - 130	70 - 130

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

BATCH 17072 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507132-004A	7/09/05 3:00 PM	7/18/05	7/18/05 12:23 PM	0507132-007A	7/09/05 3:15 PM	7/16/05	7/16/05 8:22 AM
0507132-010A	7/09/05 3:30 PM	7/15/05	7/15/05 1:36 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.
 E TPH(btex) = sum of BTEX areas from the FID.
 # cluttered chromatogram; sample peak coelutes with surrogate peak.
 N/A = not applicable or 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.



McC Campbell Analytical, Inc.

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0507132

Analyte	Extraction: SW5030B		BatchID: 17073			Spiked Sample ID: 0507131-011B			Acceptance Criteria (%)	
	Sample µg/L	Spiked µg/L	MS % Rec.	MSD % Rec.	MS-MSD % RPD	LCS % Rec.	LCSD % Rec.	LCS-LCSD % RPD	MS / MSD	LCS / LCSD
tert-Amyl methyl ether (TAME)	ND	10	109	115	5.82	112	107	4.45	70 - 130	70 - 130
Benzene	ND	10	105	106	0.881	104	104	0	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	50	118	115	2.18	99.7	101	1.34	70 - 130	70 - 130
Chlorobenzene	ND	10	112	115	2.37	107	109	1.61	70 - 130	70 - 130
1,2-Dibromoethane (EDB)	ND	10	108	110	1.81	105	106	1.05	70 - 130	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	116	119	2.41	116	118	1.29	70 - 130	70 - 130
1,1-Dichloroethene	ND	10	92.5	93.8	1.34	94.9	94.7	0.202	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	10	119	119	0	119	119	0	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	108	112	3.13	110	109	0.969	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	106	109	3.21	104	104	0	70 - 130	70 - 130
Toluene	ND	10	103	103	0	99.2	100	1.24	70 - 130	70 - 130
Trichloroethene	ND	10	80.1	80.7	0.800	81.2	80.4	0.976	70 - 130	70 - 130
%SS1:	100	10	93	92	2.01	100	98	2.68	70 - 130	70 - 130
%SS2:	116	10	99	97	2.53	99	98	1.04	70 - 130	70 - 130
%SS3:	115	10	110	115	4.21	109	108	1.30	70 - 130	70 - 130

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

BATCH 17073 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507132-004C	7/09/05 3:00 PM	7/14/05	7/14/05 5:16 PM	0507132-007C	7/09/05 3:15 PM	7/14/05	7/14/05 4:32 PM
0507132-010C	7/09/05 3:30 PM	7/14/05	7/14/05 4:33 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.
 Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0507132

EPA Method: SW8015C		Extraction: SW3550C			BatchID: 17076			Spiked Sample ID: 0507127-001A		
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	LCS / LCSD
TPH(d)	ND	20	103	105	2.27	99.9	101	0.961	70 - 130	70 - 130
%SS:	99	50	94	95	1.15	100	100	0	70 - 130	70 - 130

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

BATCH 17076 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507132-001A	7/09/05	7/11/05	7/13/05 3:59 PM	0507132-002A	7/09/05 8:55 AM	7/11/05	7/13/05 5:36 AM
0507132-003A	7/09/05 9:15 AM	7/11/05	7/12/05 5:30 AM	0507132-005A	7/09/05 10:20 AM	7/11/05	7/13/05 2:36 PM
0507132-006A	7/09/05 12:10 PM	7/11/05	7/12/05 12:26 PM	0507132-008A	7/09/05 1:50 PM	7/11/05	7/13/05 2:36 PM
0507132-009A	7/09/05 2:05 PM	7/11/05	7/12/05 8:29 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.



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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0507132

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 17078			Spiked Sample ID: 0507135-011A		
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	LCS / LCSD
TPH(btex) [£]	ND	0.60	94.6	96.8	2.35	94.7	94.8	0.0541	70 - 130	70 - 130
MTBE	ND	0.10	93.8	102	8.26	106	108	1.73	70 - 130	70 - 130
Benzene	ND	0.10	93.1	91.5	1.78	92.3	93.7	1.54	70 - 130	70 - 130
Toluene	ND	0.10	94.3	92.5	1.89	93.1	95.2	2.16	70 - 130	70 - 130
Ethylbenzene	ND	0.10	97.9	97.1	0.828	97.2	99.2	2.04	70 - 130	70 - 130
Xylenes	ND	0.30	100	99.7	0.334	99.7	100	0.334	70 - 130	70 - 130
%SS:	90	0.10	99	98	0.609	94	98	3.75	70 - 130	70 - 130

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

BATCH 17078 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507132-001A	7/09/05	7/11/05	7/12/05 8:55 AM	0507132-002A	7/09/05 8:55 AM	7/11/05	7/12/05 2:00 AM
0507132-003A	7/09/05 9:15 AM	7/11/05	7/12/05 2:56 AM	0507132-005A	7/09/05 10:20 AM	7/11/05	7/12/05 2:33 AM
0507132-006A	7/09/05 12:10 PM	7/11/05	7/12/05 3:06 AM	0507132-008A	7/09/05 1:50 PM	7/11/05	7/12/05 9:57 PM
0507132-009A	7/09/05 2:05 PM	7/11/05	7/12/05 7:05 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.
 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.



Existing building

SB-3
TPH-g: ND
TPH-d: ND
TPH-mo: ND

50603-1 (soil, -16')
TPH-g: 4.8 ppm
TPH-d: 48 ppm
TPH-mo: 46 ppm

PROBABLE PLUME EXTENT

SB-2
TPH-g: 2,200 ppb
TPH-d: 110,000 ppb
TPH-mo: 89,000 ppb

SB-4
TPH-g: 3,800 ppb
TPH-d: 560,000 ppb
TPH-mo: 410,000 ppb

E. 11th Street

SB-6
TPH-g: 130 ppb
TPH-d: 8,700 ppb
TPH-mo: 6,900 ppb

61ft

128ft

50603-3 (soil, -7.5')
TPH-g: 4.7 ppm
TPH-d: 50 ppm
TPH-mo: 79 ppm

50603-2
TPH-g: 310 ppb
TPH-d: 580,000 ppb
TPH-mo: 510,000 ppb

SB-1
TPH-g: 650 ppb
TPH-d: 520,000 ppb
TPH-mo: 530,000 ppb

50603-4
TPH-g: ND
TPH-d: 160,000 ppb
TPH-mo: 150,000 ppb

50603-5
TPH-g: ND
TPH-d: 670 ppb
TPH-mo: 2,800 ppb

50603-6 (soil, -16')
TPH-g: 73 ppm
TPH-d: 1,800 ppm
TPH-mo: 1,700 ppm

2744 e. 11th street
oakland, california

site plan

McC Campbell Analytical, Inc.



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 Pacheco, CA 94553-5560
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CHAIN-OF-CUSTODY RECORD

WorkOrder: 0507132

ClientID: TFCL

EDF: NO

Report to:

Cabe Silverhame
 Terra Firma Consulting, LLC
 20 Sunnyside Avenue #14-418
 Mill Valley, CA 94941

TEL: (408) 868-0855
 FAX: (415) 868-0858
 ProjectNo: #E50603; Lucasey
 PO:

Bill to

Gabe Silverhame
 Terra Firma Consulting, LLC
 20 Sunnyside Avenue #14-418
 Mill Valley, CA 94941

Requested TAT: 5 days

Date Received: 07/11/2005

Date Printed: 07/18/2005

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0507132-001	50603-1-12	Soil	07/09/2005	<input type="checkbox"/>		A		A												
0507132-002	50603-1-16	Soil	07/09/2005	<input type="checkbox"/>		A		A												
0507132-003	50603-2-12	Soil	07/09/2005	<input type="checkbox"/>		A		A												
0507132-004	50603-2-16	Water	07/09/2005	<input type="checkbox"/>	C			A		B										
0507132-005	50603-3-7.5	Soil	07/09/2005	<input type="checkbox"/>		A		A												
0507132-006	50603-4-12	Soil	07/09/2005	<input type="checkbox"/>		A		A												
0507132-007	50603-4-16	Water	07/09/2005	<input type="checkbox"/>	C			A		B										
0507132-008	50603-6-12	Soil	07/09/2005	<input type="checkbox"/>		A		A												
0507132-009	50603-6-16	Soil	07/09/2005	<input type="checkbox"/>		A		A												
0507132-010	50603-5-20	Water	07/09/2005	<input type="checkbox"/>	C			A		B										

Test Legend:

1	8260B_W	2	G-MBTEX_S	3	G-MBTEX_W	4	TPH(DMO)_S	5	TPH(DMO)_W
6		7		8		9		10	
11		12		13		14		15	

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.



Terra Firma Consulting, LLC 20 Sunnyside Avenue #14-418 Mill Valley, CA 94941	Client Project ID: #E50603; Lucasey	Date Sampled: 07/09/05
		Date Received: 07/11/05
	Client Contact: Cabe Silverhame	Date Extracted: 07/14/05
	Client P.O.:	Date Analyzed: 07/14/05

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0507132

Lab ID	0507132-004C
Client ID	50603-2-16
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	1.5	1.0	0.5	sec-Butyl benzene	0.60	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND<1.0	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	0.75	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	0.57	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	0.68	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	0.68	1.0	0.5

Surrogate Recoveries (%)

%SS1:	107	%SS2:	96
%SS3:	87		

Comments: h,i

* 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 & SPL 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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Terra Firma Consulting, LLC 20 Sunnyside Avenue #14-418 Mill Valley, CA 94941	Client Project ID: #E50603; Lucasey	Date Sampled: 07/09/05
	Client Contact: Cabe Silverhame	Date Received: 07/11/05
	Client P.O.:	Date Extracted: 07/14/05
		Date Analyzed: 07/14/05

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0507132

Lab ID	0507132-007C						
Client ID	50603-4-16						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND<1.0	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	1.4	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	108	%SS2:	93
%SS3:	89		

Comments: h,i

* 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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Terra Firma Consulting, LLC 20 Sunnyside Avenue #14-418 Mill Valley, CA 94941	Client Project ID: #E50603; Lucasey	Date Sampled: 07/09/05
	Client Contact: Cabe Silverhame	Date Received: 07/11/05
	Client P.O.:	Date Extracted: 07/14/05
		Date Analyzed: 07/14/05

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0507132

Lab ID	0507132-010C
Client ID	50603-5-20
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND<1.0	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	103	%SS2:	95
%SS3:	101		

Comments: i

* 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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Terra Firma Consulting, LLC 20 Sunnyside Avenue #14-418 Mill Valley, CA 94941	Client Project ID: #E50603; Lucasey	Date Sampled: 07/09/05
		Date Received: 07/11/05
	Client Contact: Cabe Silverhame	Date Extracted: 07/11/05
	Client P.O.:	Date Analyzed: 07/12/05-07/14/05

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

Extraction method: SW3510C/SW3550C

Analytical methods: SW8015C

Work Order: 0507132

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0507132-001A	50603-1-12	S	22,g,b	83	10	95.0
0507132-002A	50603-1-16	S	48,b,g	46	2	98.0
0507132-003A	50603-2-12	S	8900,b,g	7500	200	---#
0507132-004B	50603-2-16	W	580,000,b,g,h,i	510,000	100	97.0
0507132-005A	50603-3-7.5	S	50,g,b	79	10	105
0507132-006A	50603-4-12	S	2800,g,b	3000	50	101
0507132-007B	50603-4-16	W	160,000,b,g,h,i	150,000	50	95.0
0507132-008A	50603-6-12	S	41,g,b	53	2	103
0507132-009A	50603-6-16	S	1800,b,g	1700	50	100
0507132-010B	50603-5-20	W	670,g,b,i	2800	2	88.0

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

W	50	250	µg/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; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.



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Terra Firma Consulting, LLC 20 Sunnyside Avenue #14-418 Mill Valley, CA 94941	Client Project ID: #E50603; Lucasey	Date Sampled: 07/09/05
		Date Received: 07/11/05
	Client Contact: Cabe Silverhame	Date Extracted: 07/11/05-07/18/05
	Client P.O.:	Date Analyzed: 07/12/05-07/18/05

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0507132

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	50603-1-12	S	ND	ND	ND	ND	ND	ND	1	97
002A	50603-1-16	S	4.8,g	ND	ND	ND	ND	ND	1	83
003A	50603-2-12	S	700,g	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	100	103
004A	50603-2-16	W	310,g,h,i	ND	ND	ND	ND	ND	1	97
005A	50603-3-7.5	S	4.7,g	ND	ND	ND	ND	ND	1	91
006A	50603-4-12	S	89,g	ND<2.0	ND<0.20	ND<0.20	ND<0.20	0.23	40	87
007A	50603-4-16	W	ND,h,i	ND	ND	ND	ND	ND	1	104
008A	50603-6-12	S	ND	ND	ND	ND	ND	ND	1	88
009A	50603-6-16	S	73,g	ND<0.50	ND<0.050	ND<0.050	ND<0.050	ND<0.050	10	83
010A	50603-5-20	W	ND,i	ND	ND	ND	ND	ND	1	99

Reporting Limit for DF=1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in 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) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0507132

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 17044			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	115	115	0	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	88	90	2.77	N/A	70 - 130

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

BATCH 17044 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507132-004b	7/09/05 3:00 PM	7/11/05	7/12/05 7:46 AM	0507132-007b	7/09/05 3:15 PM	7/11/05	7/12/05 2:42 PM
0507132-010B	7/09/05 3:30 PM	7/11/05	7/14/05 2:29 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.

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.



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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0507132

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 17072			Spiked Sample ID: 0507131-010A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) [£]	ND	60	104	106	1.22	104	103	0.347	70 - 130	70 - 130
MTBE	ND	10	96.9	93.9	3.12	108	100	7.51	70 - 130	70 - 130
Benzene	ND	10	98.5	99.8	1.24	107	106	1.72	70 - 130	70 - 130
Toluene	ND	10	103	103	0	104	104	0	70 - 130	70 - 130
Ethylbenzene	ND	10	110	110	0	109	108	1.16	70 - 130	70 - 130
Xylenes	ND	30	96.7	96.7	0	95.7	95.7	0	70 - 130	70 - 130
%SS:	98	10	103	106	3.02	107	105	1.65	70 - 130	70 - 130

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

BATCH 17072 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507132-004A	7/09/05 3:00 PM	7/18/05	7/18/05 12:23 PM	0507132-007A	7/09/05 3:15 PM	7/16/05	7/16/05 8:22 AM
0507132-010A	7/09/05 3:30 PM	7/15/05	7/15/05 1:36 AM				

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or 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.



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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0507132

EPA Method: SW8260B		Extraction: SW5030B			BatchID: 17073			Spiked Sample ID: 0507131-011B		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
tert-Amyl methyl ether (TAME)	ND	10	109	115	5.82	112	107	4.45	70 - 130	70 - 130
Benzene	ND	10	105	106	0.881	104	104	0	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	50	118	115	2.18	99.7	101	1.34	70 - 130	70 - 130
Chlorobenzene	ND	10	112	115	2.37	107	109	1.61	70 - 130	70 - 130
1,2-Dibromoethane (EDB)	ND	10	108	110	1.81	105	106	1.05	70 - 130	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	116	119	2.41	116	118	1.29	70 - 130	70 - 130
1,1-Dichloroethene	ND	10	92.5	93.8	1.34	94.9	94.7	0.202	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	10	119	119	0	119	119	0	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	108	112	3.13	110	109	0.969	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	106	109	3.21	104	104	0	70 - 130	70 - 130
Toluene	ND	10	103	103	0	99.2	100	1.24	70 - 130	70 - 130
Trichloroethene	ND	10	80.1	80.7	0.800	81.2	80.4	0.976	70 - 130	70 - 130
%SS1:	100	10	93	92	2.01	100	98	2.68	70 - 130	70 - 130
%SS2:	116	10	99	97	2.53	99	98	1.04	70 - 130	70 - 130
%SS3:	115	10	110	115	4.21	109	108	1.30	70 - 130	70 - 130

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

BATCH 17073 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507132-004C	7/09/05 3:00 PM	7/14/05	7/14/05 5:16 PM	0507132-007C	7/09/05 3:15 PM	7/14/05	7/14/05 4:32 PM
0507132-010C	7/09/05 3:30 PM	7/14/05	7/14/05 4:33 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.

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



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0507132

EPA Method: SW8015C		Extraction: SW3550C			BatchID: 17076			Spiked Sample ID: 0507127-001A		
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	LCS / LCSD
TPII(d)	ND	20	103	105	2.27	99.9	101	0.961	70 - 130	70 - 130
%SS:	99	50	94	95	1.15	100	100	0	70 - 130	70 - 130

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

BATCH 17076 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507132-001A	7/09/05	7/11/05	7/13/05 3:59 PM	0507132-002A	7/09/05 8:55 AM	7/11/05	7/13/05 5:36 AM
0507132-003A	7/09/05 9:15 AM	7/11/05	7/12/05 5:30 AM	0507132-005A	7/09/05 10:20 AM	7/11/05	7/13/05 2:36 PM
0507132-006A	7/09/05 12:10 PM	7/11/05	7/12/05 12:26 PM	0507132-008A	7/09/05 1:50 PM	7/11/05	7/13/05 2:36 PM
0507132-009A	7/09/05 2:05 PM	7/11/05	7/12/05 8:29 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.



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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0507132

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 17078			Spiked Sample ID: 0507135-011A		
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	LCS / LCSD
TPH(btex) [£]	ND	0.60	94.6	96.8	2.35	94.7	94.8	0.0541	70 - 130	70 - 130
MTBE	ND	0.10	93.8	102	8.26	106	108	1.73	70 - 130	70 - 130
Benzene	ND	0.10	93.1	91.5	1.78	92.3	93.7	1.54	70 - 130	70 - 130
Toluene	ND	0.10	94.3	92.5	1.89	93.1	95.2	2.16	70 - 130	70 - 130
Ethylbenzene	ND	0.10	97.9	97.1	0.828	97.2	99.2	2.04	70 - 130	70 - 130
Xylenes	ND	0.30	100	99.7	0.334	99.7	100	0.334	70 - 130	70 - 130
%SS:	90	0.10	99	98	0.609	94	98	3.75	70 - 130	70 - 130

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

BATCH 17078 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507132-001A	7/09/05	7/11/05	7/12/05 8:55 AM	0507132-002A	7/09/05 8:55 AM	7/11/05	7/12/05 2:00 AM
0507132-003A	7/09/05 9:15 AM	7/11/05	7/12/05 2:56 AM	0507132-005A	7/09/05 10:20 AM	7/11/05	7/12/05 2:33 AM
0507132-006A	7/09/05 12:10 PM	7/11/05	7/12/05 3:06 AM	0507132-008A	7/09/05 1:50 PM	7/11/05	7/12/05 9:57 PM
0507132-009A	7/09/05 2:05 PM	7/11/05	7/12/05 7:05 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.

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.