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October 25, 2000

Mr. Don Hwang
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway
Alameda, CA 94502-8577

Soil and Groundwater Investigation Report
Salle's Paint & Body Shop
1049 9th Avenue
Oakland, CA 94606

Dear Mr. Huang:

Mr. Richard Ely, Registered Geologist, has been retained by Mr. Dick Cochran to prepare this Report of a soil and groundwater investigation near the location of a former waste-oil underground storage tank (UST) at 1049 9th Avenue, Oakland, California (site) (Figure 1). The Alameda County Health Care Services Agency (ACHCSA) in a letter to Mr. Cochran dated November 10, 1999 requested this investigation. The work has been done in compliance with the Revised Workplan dated 12/29/99, and with comments in a letter from the ACHCSA dated 3/28/00.

BACKGROUND

The site is owned by C&C Property Management Trust, and has been occupied by Salle's Paint & Body Shop since approximately 1981.

UST Removal Activities

Walker's Hydraulics Inc. of Concord, California removed a 280-gallon UST for waste oil from the site on July 20, 1994. Barney Chan of the ACHCSA witnessed the removal. With the exception of a small parking area on the west, the site is entirely occupied by a large building that fronts on the sidewalks to the east and north, and the property line on the south. The UST was located beneath the sidewalk on the 9th Avenue side of the building. The field activities and analytical results were presented in an Underground Storage Tank Removal Report dated August 3, 1994.

Touchstone Developments of San Francisco, California observed the tank removal and collected two soil samples from the excavation, and a four-fold composite sample from the spoil pile [WSP-1 (A-D)]. The two excavation samples were analyzed for Total Petroleum hydrocarbons as gasoline (TPHg) and TPH as diesel (TPHd) by Method 8015 (Modified); benzene, toluene, ethylbenzene and total-xylenes (BTEX) by Method 8020; Oil & Grease (O&G) by Methods 5520F; Semivolatile Organics (SVOCs) by method 8270; Halogenated Volatile Organics (HVOCs) by Methods 5030/8010; and Cd, Cr, Ni, Pb, and Zn by Method 6010.

Soil sample WO-1-8.5' was collected from 8.5-feet (ft) below ground surface (bgs) at the bottom of the excavation, approximately 2-ft below the former UST bottom. Soil sample RF-3' was collected from 3-ft bgs on the building side of the excavation, approximately 2-ft below the remote-fill piping that extended from inside the building to the UST. The analytical results are compiled in Table 1 (attached).

SCOPE OF WORK

The scope of work was designed to investigate shallow soil and ground water conditions near the former waste-oil UST. On September 8, 2000, three soil borings were constructed and converted into monitoring wells to assess the groundwater gradient and the impact to the shallow ground water. The soil borings were be drilled to approximately 20 feet depth. Figure 2 shows the locations of the soil borings. Prior to beginning the field investigation, a well permit was acquired from the Alameda County Water District, and an encroachment permit was acquired from the City of Oakland Public Works Agency.

Soil Borings & Monitoring Well Construction

Soil Borings

Before drilling commenced, Underground Service Alert was notified so that all buried utilities near the proposed boring locations were located. The soil borings were drilled with a truck mounted drill rig using an 8-inch outside diameter hollow stem auger. Augers and other drill tools had been steam cleaned before drilling to minimize the possibility of cross-contamination. The sampler was decontaminated between each sample drive. Relatively undisturbed soil samples were collected at approximately 5-ft intervals and at the saturated zone with a modified California split tube sampler fitted with three internal 2-inch diameter by 6-inch-long clean brass liners. When a boring reached the desired sampling depth, the sampler was lowered through the augers to the bottom of the hole. A 140-pound, rig-operated hammer was used to drive the sampler 1.5 feet ahead of the auger.

One soil sample from each interval was collected for laboratory analysis, sealed and capped with Teflon and plastic end caps, labeled, logged on a chain-custody form, and placed in a cold ice chest for transport to a state-certified laboratory. Logs were maintained to describe the subsurface conditions encountered during drilling. Subsoil conditions were classified using the Unified Soil Classification System and the Munsell Soil Color Charts.

All drill cuttings from the soil borings were stored onsite in DOT 17H 55-gallon drums and labeled as to content. Equipment decontamination wash/rinse water were stored on site in DOT 17H 55-gallon drums and labeled as to content.

Well Construction

The wells were screened to monitor the first water-bearing zone encountered. Fifteen feet of well screen was used in the wells, with approximately 4.8-ft of blank casing on top. The wells were constructed with flush-threaded, 2-inch diameter Schedule 40 PVC blank casing with 0.010-inch factory-milled screen size. Number #2/12 RMC sand was used in the annular space around the well screen to approximately one foot above the top of the screen. One foot of bentonite pellets was used to separate the sand from the sanitary surface seal (grout).

The grout (Portland cement with approximately three to five percent bentonite powder) was poured into the annular space above the bentonite pellets. The resulting seal was checked for shrinkage during well development.

The monitoring wells were locked with a cap and covered with a traffic-rated vault. The well ID was clearly marked on the cap and vault.

Well Development

The ground water monitoring wells were developed on September 12, four days after placement of the surface seal (grouting). Well development consisted of several cycles of surging (using a vented surge block) and over pumping of the well.

Prior to development, the depth to water and the total depth of the well were measured. Development continued until the turbidity of the water was less than five NTUs, or when ten well volumes had been removed, whichever occurred first.

The groundwater removed from the wells during development was stored on-site in DOT 17H 55-gallon drums. The drums were sealed and labeled with the contents and date.

Well Sampling

The wells were sampled by Environmental Sampling Services on September 29, 2000. Prior to sampling, each well was checked for the presence of free-phase hydrocarbons using an interface probe, clear bailer, or tape with product detection paste. Water level measurements were made using an electronic water level meter and noted on the sampling form (Appendix A).

Prior to sampling, each well was purged of a minimum of five well-casing volumes of water using a pre-cleaned sampling pump. Temperature, pH and electrical conductivity were measured at least three times during purging. Purging continued until these parameters had stabilized (i.e., changes in temperature, pH or conductivity did not exceed ±0.5 F, 0.1 or 5 percent, respectively).

The purge water was stored temporarily on-site in DOT 17H 55-gallon drums pending analytic results. The drums were labeled with the date, contents, and the field personnel initials, and telephone number.

Groundwater samples were collected from the wells with new disposable PVC bailers. For samples to be analyzed for VOCs a bottom emptying device was used to minimize loss of volatile components. The samples were labeled to include sample ID, date, preservative, and the

field technician's initials. The samples were placed in polyethylene bags and in a chilled ice chest for transport under chain-of-custody to the laboratory.

Laboratory Analysis
Analytical Sciences, of Petaluma, California, a state-certified laboratory analyzed the samples using methods approved by the California Regional Water Quality Control Board (CRWQCB) and the Environmental Protection Agency (EPA). Soil samples from 5-, 10- and 15-ft bgs in each boring were submitted for analysis. The laboratory analyzed the soil and water samples for TPHg (EPA Method 8015 Modified); TPHd (EPA Method 8015 Modified); Oil & Grease (EPA Method 418.1); BTEX compounds and methyl-tert-butyl-ether (MTBE) (EPA Method 8020); Halogenated Volatile Organic Compounds (EPA Method 8010); and Semi-Volatile Organic Compounds (EPA Method 8270).

Site Survey
On September 22, 2000, Andreas Deak, a licensed land surveyor, surveyed the top-casing elevations and the elevations of the vault rims to Mean Sea Level with an accuracy of 0.001 foot. Nearby cultural features were included in the survey. A copy of the surveyor's report is included in Appendix B.

Disposal of Wastewater & Soil
Soil from the borings and water from equipment decontamination and well sampling was stored in DOT 17-H 55-gallon drums. The soil and water will be disposed of in accordance with State and local regulations.

HYDROGEOLOGY

The site is situated at an elevation of 18-feet (ft) above Mean Sea Level in an area of apartment buildings and small businesses. The Oakland Inner Harbor (part of San Francisco Bay) lies 1100 feet to the south. Late Pleistocene age alluvial fan deposits of the Temescal Formation underlie the site. These materials have moderate permeability and consist primarily of interfingering lenses of clayey gravel, sandy silty clay, and sand-silt-clay mixtures.

Groundwater
On September 29, 2000, the depth to static groundwater ranged from 10.92 to 12.07 ft (Table 2). The water table gradient and flow direction were 0.033 ft/ft and S30°E, respectively (Figure 3).

Subsurface Geology
Subsurface geology of the site is depicted on the logs of the three soil borings drilled to date (Appendix D).

Sandy clay was present in all three borings from the bottom of the fill beneath the sidewalk/road base to about 8.5- to 10.5-ft bgs. In MW-1, grayish-green discoloration from 6.0- to 10.5-ft bgs probably reflects a smear zone within the fluctuation range of the water table in the past when product was present. A faint product odor was observed when the soil samples were collected.

A medium-grained sand bed was present at around 11-ft bgs in all three borings. This bed varied in thickness from about 3 ft in MW-1 and MW-2, to 5-ft in MW-3. This sand bed constitutes a groundwater pathway during times when the water table is high.

Fine grained alluvium (clay, silt, and clayey to silty sand) underlies the medium-grained sand bed in all of the borings.

ANALYTICAL RESULTS

Laboratory analytical data sheets are included in Appendix C.

Soil
No gasoline-range compounds, diesel-range compounds, Oil & Grease, BTEX compounds, MTBE, halogenated volatile organic compounds (Method 8010), or semi-volatile compounds (Method 8270) were detected in the soil samples (Table 3).

Groundwater
No diesel-range compounds, Oil & Grease, MTBE, toluene, or semi-volatile compounds (Method 8270) were detected in the groundwater samples (Table 4).

In monitoring well MW-1, positive detections were reported for chlorobenzene (1.1 µg/l), TPH-gasoline (280 µg/l), benzene (1.4 µg/l), ethyl benzene (2.5 µg/l), and xylenes (4.5 µg/l).

No positive detections were reported from wells MW-2 and MW-3. Well MW-3 is located directly down gradient from the former UST location.

RECOMMENDATION

Because no Method 8270 compounds were detected in any soil or water sample collected for this investigation, we recommend that analyses by this method be discontinued.

SCHEDULE

The next groundwater-monitoring event will take place in January 2001.

Sincerely,

Richard W. Ely

Richard W. Ely RG #4137
2138 Green Hill Rd.
Sebastopol, CA 95472
707-824-4836

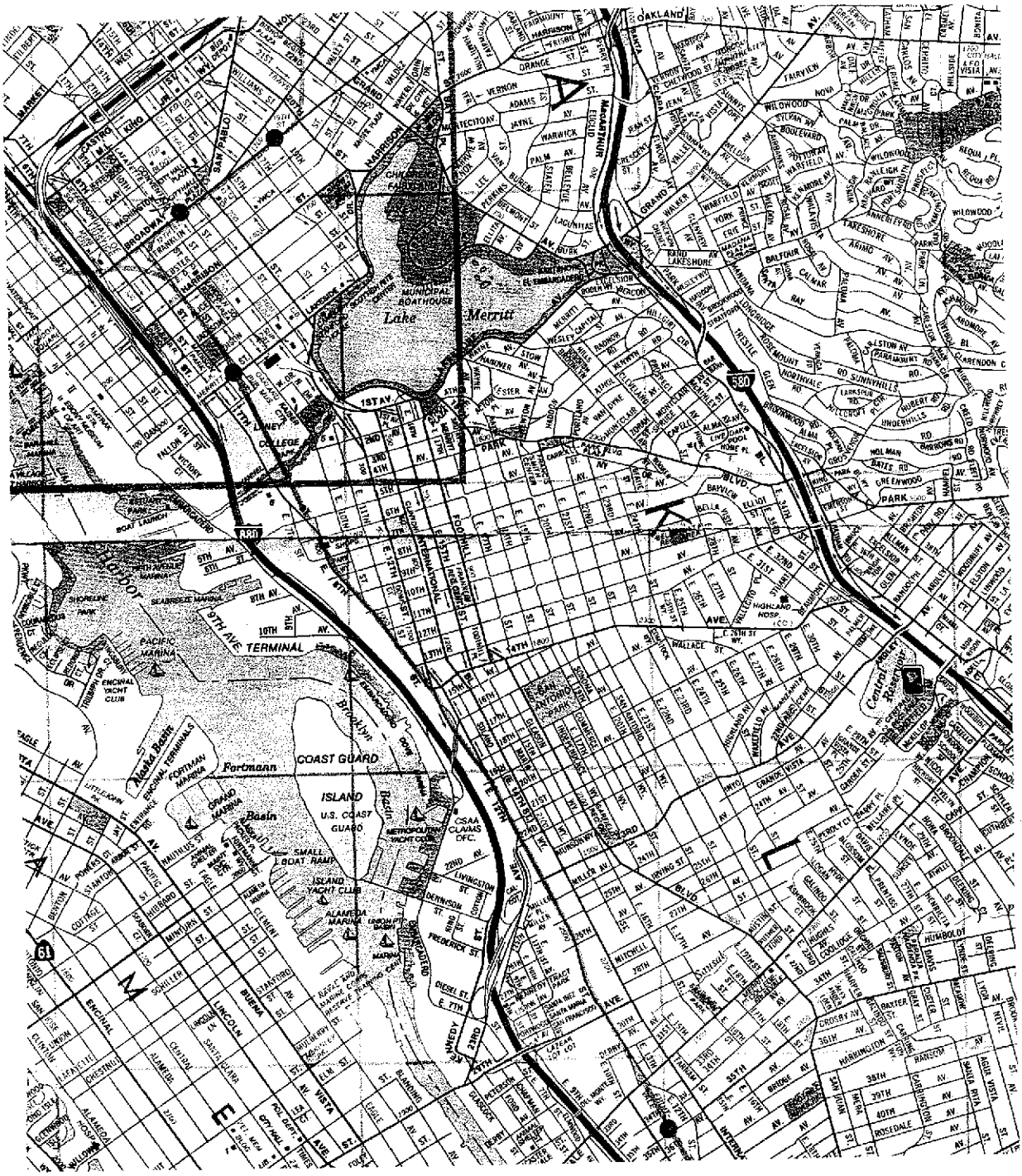
The following Figures, Tables and Appendixes are attached:

Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Groundwater Elevation Map

Table 1.	Excavation Soil Sample Analytical Results
Table 2.	Groundwater Elevations
Table 3.	Monitoring Well Soil Sample Analytical Results
Table 4.	Groundwater Sample Analytical Results

Appendix A	Well Sampling Data Sheets
Appendix B	Surveyor's Report
Appendix C	Laboratory Analytical Data Sheets
Appendix D	Logs of Soil Borings

cc: Dick Cochran



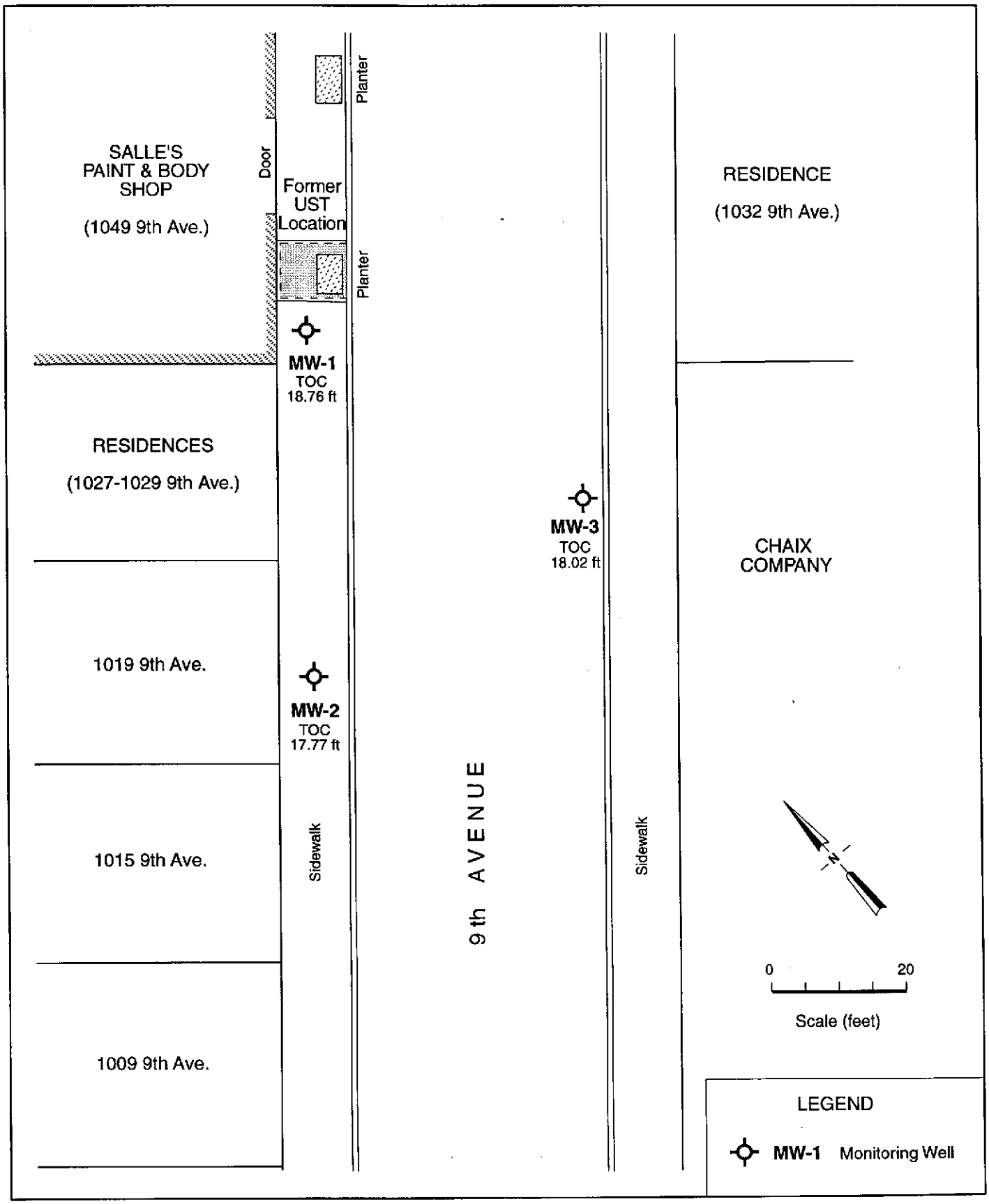
RICHARD ELY
REGISTERED GEOLOGIST

LOCATION MAP
1049 9th Avenue
Oakland, California

FIGURE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
TRACE 165	R. Ely	December 1999	

(TRACE #165/RG/17Dec99)



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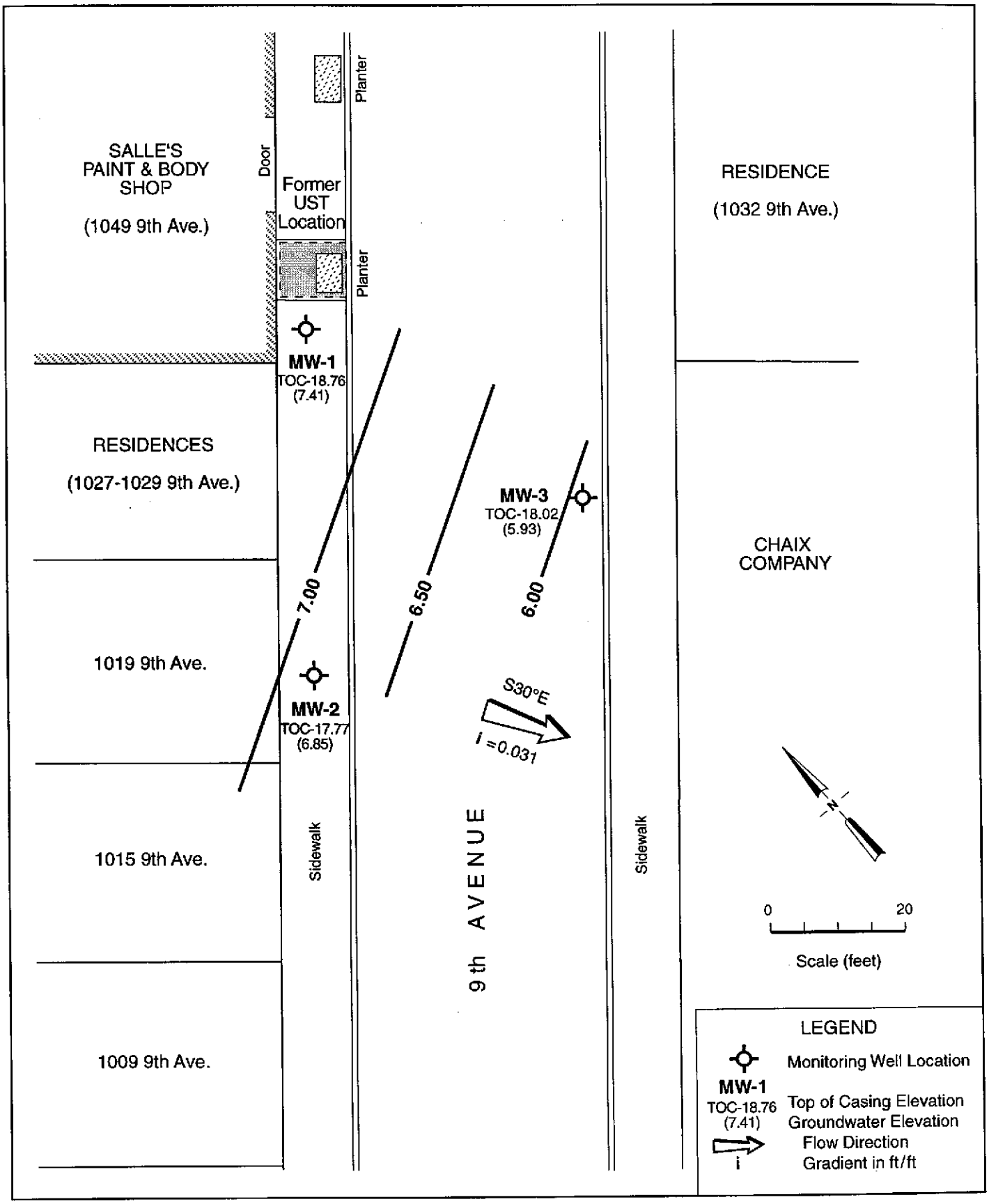
SITE PLAN
1049 9th Avenue
Oakland, California

FIGURE
2

JOB REFERENCE	REVIEWED BY	DATE	REVISED DATE
Salle's Paint & Body Shop	Richard Ely	October 2000	

(TRACE #235/RG/12Oct00)



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GROUNDWATER ELEVATIONS,
29 September 2000
1049 9th Avenue
Oakland, California

FIGURE
3

JOB REFERENCE	REVIEWED BY	DATE	REVISED DATE
Salle's Paint & Body Shop	Richard Ely	October 2000	

(TRACE #235/RG/25Oct00)

TABLE 1.

EXCAVATION SOIL SAMPLE ANALYTICAL RESULTS

SALLE'S PAINT & BODY SHOP

1049 9TH AVENUE, OAKLAND, CALIFORNIA

ANALYETE	WO-1-8.5' (mg/kg)	RF-3' (mg/kg)	WSP-1 (A-D) (mg/kg)
TPHg	590[1]	34[1]	200[1]
TPHd	3400[2]	210[2]	NA
O&G	6000	770	NA
TPH	NA	NA	12,000
Benzene	0.91	ND<0.025	0.08
Toluene	2.8	0.16	0.31
Ethylbenzene	3.0	0.093	0.52
Xylenes	26	1.9	3.9
Napthalene	9	ND<3	NA
2-methyl-napthalene	12	ND<3	NA
Trichloroethene	0.016	ND<0.005	NA
Tetrachloroethene	0.058	ND<0.005	NA
Chlorobenzene	0.48	ND<0.005	NA
Cd	ND<0.5	ND<0.5	ND<0.5
Cr	42	54	34
Ni	37	35	31
Pb	13	16	110
Zn	23	31	58

Notes:
Samples collected on July 20, 1994
mg/kg = Milligrams per kilogram
1 = Does not match typical gasoline pattern. Pattern is typical of mineral spirits.
2 = Does not match typical gasoline pattern. Pattern is typical of a mixture of mineral spirits and motor oil.
NA = Not analyzed.
ND = Not detected above the indicated concentration.

TABLE 2

GROUNDWATER ELEVATIONS

SALLE'S PAINT & BODY SHOP,

1049 9TH AVENUE, OAKLAND, CALIFORNIA

Well ID	Date	Top of Casing Elevation*	Depth to Groundwater	Groundwater Elevation*	Gradient
MW-1	9/29/00	18.76	11.35	7.41	0.033/S30°E
MW-2	9/29/00	17.77	10.92	6.85	0.033/S30°E
MW-3	9/29/00	18.02	12.09	5.93	0.033/S30°E

Note: * = Feet, Mean Sea Level

TABLE 3

MONITORING WELL SOIL SAMPLE ANALYTICAL RESULTS

SALLE'S PAINT & BODY SHOP, 1049 9TH AVENUE, OAKLAND, CALIFORNIA

Sample ID	Date	Oil & Grease	TPH[1] Diesel	TPH Gasoline	BTEX[2] Compounds	MTBE[3]	Chlorinated Solvents[4]	Semi-Volatile Organics[5]
MW-1-6'	9/8/00	<10[6]	<5.0	<1.0	<0.005	<0.025	<1.0	ND
MW-1-11'	9/8/00	<10	<5.0	<1.0	<0.005	<0.025	<1.0	ND
MW-1-16'	9/8/00	<10	<5.0	<1.0	<0.005	<0.025	<1.0	ND
MW-2-6'	9/8/00	<10	<5.0	<1.0	<0.005	<0.025	<1.0	ND
MW-2-11'	9/8/00	<10	<5.0	<1.0	<0.005	<0.025	<1.0	ND
MW-2-16'	9/8/00	<10	<5.0	<1.0	<0.005	<0.025	<1.0	ND
MW-3-6'	9/8/00	<10	<5.0	<1.0	<0.005	<0.025	<1.0	ND
MW-3-11'	9/8/00	<10	<5.0	<1.0	<0.005	<0.025	<1.0	ND
MW-3-16'	9/8/00	<10	<5.0	<1.0	<0.005	<0.025	<1.0	ND

Notes:

1 TPH = Total Petroleum Hydrocarbons
2 BTEX = benzene, toluene, ethyl-benzene and xylenes; reporting limit for xylenes is 0.015 mg/kg.
3 Methyl Tert-Butyl Ether
4 EPA Method 8010
5 EPA method 8270; reporting limits are 0.33 and 1.6 mg/kg
6 All results are in milligrams per kilogram (mg/kg)

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS

SALLE'S PAINT & BODY SHOP, 1049 9TH AVENUE, OAKLAND, CALIFORNIA

Sample ID	Date	Oil & Grease	TPH[1] Diesel	TPH Gasoline	Benzene	Toluene	Ethyl Benzene	Xylenes	MtBE[2]	Chloro-benzene[3]	Semi-Volatile Organics[4]
MW-1	9/29/00	ND[5]<100[6]	ND<100	280	1.4	ND<0.5	2.5	4.5	ND<2.5	1.1	ND
MW-2	9/29/00	ND<100	ND<100	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<2.5	ND<0.5	ND
MW-3	9/29/00	ND<100	ND<100	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<2.5	ND<0.5	ND

Notes:

1. TPH = Total Petroleum Hydrocarbons
2. Methyl tert-Butyl Ether
3. Other EPA Method 8010 Compounds are ND
4. EPA method 8270
5. ND = Not Detected at or above the reporting limit
6. All results in micrograms per liter (µg/l)

APPENDIX A

WATER QUALITY SAMPLE LOG SHEETS

Environmental
Sampling Services

FIELD ACTIVITY REPORT
GROUNDWATER MONITORING
1049-9th AVENUE
OAKLAND, CALIFORNIA
SEPTEMBER 2000

ESS Personnel: Stephen Penman and Jacqueline Lee
Duration of Activities: September 29, 2000

Decontamination Procedures

All downhole equipment was cleaned with a solution of Liqui-Nox® laboratory-grade detergent and potable water, rinsed with potable water, followed by a final rinse with distilled water.

Field Equipment Calibration

All field measurements were performed in accordance with the instruments' calibration and operating procedures. Instrument calibrations were performed on a daily basis. Field measurements included pH, Specific Conductance, Turbidity, and Temperature. Physical characteristics such as Color/Odor were also recorded.

Water Level and Well Depth Measurements

Water level and well depth measurements were performed with a Solinst® electrical water level indicator. All measurements were referenced to a surveyor's mark.

Well Evacuation Procedures

Three monitoring wells were purged using new disposable PVC bailers. After removal of three casing volumes and stabilization of groundwater quality parameters, each monitoring well was sampled for Total Petroleum Hydrocarbon (Gasoline)/BTEX and MTBE (EPA Method 8015/8020 Modified), Halogenated Volatile Organics (EPA 8010), Semi-Volatile Organic Compounds (EPA Method 8270), Total Petroleum Hydrocarbon-Diesel (EPA Method 8015 Modified), and Oil & Grease (EPA Method 418.1).

Sample Handling

Analytical Sciences of Petaluma, California supplied all sample containers and performed required analyses. Samples were relinquished on September 29, 2000.

Five 40-mL clear vials with Hydrochloric Acid were collected for TPH (Gas/BTEX, and MTBE) and Halogenated Volatile Organics.

Four 1-Liter amber glass containers (non-preserved) were collected for Semi-Volatile Organic Compounds, TPH-Diesel, and Oil & Grease.

Environmental
Sampling Services

All samples were placed in bubblewrap protective material, sealed in Ziploc® bags, and stored in a chilled ice chest for shipment.

QA/QC

QA/QC samples were not requested for this project.

Comments

All derived groundwater and decontamination water were composited into an existing 55-gallon drum. Approximately 20 gallons were generated during this sampling event.

Jacqueline Lee
President

Enclosure
Water Sample Log Sheets
Chain of Custody

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: MW-1 DATE: 9/29/00

Project Name: 1049 9th Avenue - Oakland Project Contact: Richard Ely

Weather: Clear Sunny and warm

Well Description (2") 3" 4" 5" 6" Other:____ Well Type: (PVC) Stainless Steel Other:____

Is Well Secured? (Yes) / No Bolt Size 1/2" Type of lock / Lock number: Dolphin

Observations / Comments:____

Purge Method: Teflon (PVC Disposable Bailer) Centrifugal Pump GrundFos Redi-flow Pump Other:____

Pump Lines: (NA) New / Cleaned / Dedicated Bailer Line: NA (New) / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other:____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other:____

Sampling Method: Disp. Teflon Bailer (Disp. PVC Bailer) GrundFos Redi-flow Pump Other:____

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AF) / AE

Date/Time Calibrated: 9/29 11:55 (4) (7) (10) @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other:____

Method to Measure Water Level: Solinst Serial No.: 21752 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 11.35 Water Level Prior To Sampling: 14.01

TD = 19.59 - 11.35 (DTW) = 8.24 (ft.of water) x "K" = 1.84 (Gals./CV) x 3 (No. of CV) = 4.02 (Gals.)

("K"= 0.163(2" well)) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) "k" = 2.61(8" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
9/29/00	11:59	1.0	6.55	22.4	505	762	Lt. Brown	fine sands
	12:01	2.0	6.50	21.4	398.7	949	"	fine sands / odor
	12:03	3.0	6.52	21.0	391.7	1047	"	"
	12:04	4.0	6.53	20.7	399.6	1038	"	"
↓	12:06	5.0	6.55	20.7	410.2	974	"	"

Total Discharge: 5.0 gallons Casing Volumes Removed: 3.73

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other:____

Date/Time Sampled: 9/29/00 @ 12:10 Analysis/No. of Bottles: TPHg, BTEX, MTBE & Halogenated VOC's (5 VOC's w/Hcl) and TPH Diesel/Oil & Grease, Semi-Volitile Organics (4-1 liter glass ambers N/P).

QA/QC: ____ @ ____ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments:____

Sampled By: Jacki Lee and Stephen Penman Signature(s): [signature]

PMB 102 • 6680 Alhambra Ave. • Martinez, CA 94553-6105 • (925) 372-8108 • Fax: (925) 372-6705
www.envsampling.com

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: MW-2 DATE: 9/29/00

Project Name: 1049 9th Avenue - Oakland Project Contact: Richard Ely

Weather: Clear, Sunny and Warm

Well Description: (2") 3" 4" 5" 6" Other: ____ Well Type: (PVC) Stainless Steel Other: ____

Is Well Secured? (Yes) / No Bolt Size 1/2" Type of lock / Lock number: Dolphin

Observations / Comments: ____

Purge Method: Teflon (PVC Disposable Bailer) Centrifugal Pump GrundFos Redi-flow Pump Other: ____

Pump Lines (NA) New / Cleaned / Dedicated Bailer Line: NA (New) / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Sampling Method: Disp. Teflon Bailer (Disp. PVC Bailer) GrundFos Redi-flow Pump Other: ____

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AP) / AE

Date/Time Calibrated: 9/29 @ 11:55 (4) (7) (10) @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other: ____

Method to Measure Water Level: Solinst Serial No.: 21752 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 10.92 Water Level Prior To Sampling: 18.51

TD = 20.17 - 10.92 (DTW) = 9.25 (ft.of water) x "K" = 1.51 (Gals./CV) x 3 (No. of CV) = 4.53 (Gals.)

("K"= 0.163(2" well)) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) "K" = 2.61(8" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
9/29/00	12:55	1.0	7.46	22.2	583	151	Cloudy Lt. Brown	
↓	12:57	2.0	7.32	21.4	589	561	Lt. Brown	Fine Sands
	12:59	3.0	7.24	21.1	528	708	"	
	13:01	4.0	7.27	20.8	529	633	"	
↓	13:03	5.0	7.26	20.6	537	403	"	↓

Total Discharge: 50 gallons Casing Volumes Removed: 3.31

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: ____

Date/Time Sampled: 9/29/00 @ 13:05 Analysis/No. of Bottles: TPHg, BTEX, MTBE & Halogenated VOC's (5 VOC's w/Hcl) and TPH Diesel/Oil & Grease, Semi-Volitile Organics (4-1 liter glass ambers N/P).

QA/QC: ____ @ ____ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: ____

Sampled By: Jacki Lee and Stephen Penman Signature(s): ____

PMB 102 • 6680 Alhambra Ave. • Martinez, CA 94553-6105 • (925) 372-8108 • Fax: (925) 372-6705
www.envsampling.com

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: MW-3 DATE: 9/29/00

Project Name: 1049 9th Avenue - Oakland Project Contact: Richard Ely

Weather: Clear, Sunny and hot.

Well Description: (2") 3" 4" 5" 6" Other: ____ Well Type: (PVC) Stainless Steel Other: ____

Is Well Secured? (Yes) / No Bolt Size 1/2" Type of lock / Lock number: Dolphin

Observations / Comments: ____

Purge Method: Teflon (PVC Disposable Bailer) Centrifugal Pump GrundFos Redi-flow Pump Other: ____

Pump Lines (NA) New / Cleaned / Dedicated Bailer Line: NA (New) / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Sampling Method: Disp. Teflon Bailer (Disp. PVC Bailer) GrundFos Redi-flow Pump Other: ____

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AB) / AE

Date/Time Calibrated: 9/29 11:55 (4) (7) (10) @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other: ____

Method to Measure Water Level: Solinst Serial No.: 21752 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): ~~12.89~~ 12.09 Water Level Prior To Sampling: 18.00

TD = 20.20 - ~~18.98~~ 12.09 (DTW) = 8.11 (ft.of water) x "K" = 1.32 (Gals./CV) x 3 (No. of CV) = 3.96 (Gals.)

("K"= 0.163(2" well)) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) "k" = 2.61(8" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
9/29/00	13:23	1.0	6.91	21.7	784	138	cloudy Lt. Brown	
↓	13:25	2.0	6.82	21.1	680	168	"	
	13:27	3.0	6.81	20.8	632	170	"	
	13:29	4.0	6.78	20.7	596	177	"	
↓	13:30	5.0	6.78	20.7	605	214	"	

Total Discharge: 5.0 gallons Casing Volumes Removed: 3.78

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: ____

Date/Time Sampled: 9/29/00 @ 13:33 Analysis/No. of Bottles: TPHg, BTEX, MTBE & Halogenated VOC's (5 VOC's w/Hcl) and TPH Diesel/Oil & Grease, Semi-Volitile Organics (4-1 liter glass ambers N/P).

QA/QC: ____ @ ____ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: ____

Sampled By: Jacki Lee and Stephen Penman Signature(s): [signature]

PMB 102 • 6680 Alhambra Ave. • Martinez, CA 94553-6105 • (925) 372-8108 • Fax: (925) 372-6705
www.envsampling.com

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128
Fax (707) 769-8093

CHAIN OF CUSTODY

LAB PROJECT NUMBER:
CLIENT'S PROJECT NAME: 1049 9th Avenue Oakland
CLIENT'S PROJECT NUMBER:

CLIENT INFORMATION

COMPANY NAME: HARRIS & LEE ENVIRONMENTAL SCIENCES
ADDRESS: P.O. Box 5389
SANTA ROSA, CA 95407
CONTACT: RICHARD ELY
PHONE#: (707) 571-8961
FAX #: (707) 571-8568

TURNAROUND TIME (check one)

MOBILE LAB
SAME DAY
24 HOURS
48 HOURS
72 HOURS
5 DAYS
NORMAL X

COOLER TEMBERATURE
ICED °C

COC
PAGE 1 OF 1

ANALYSIS

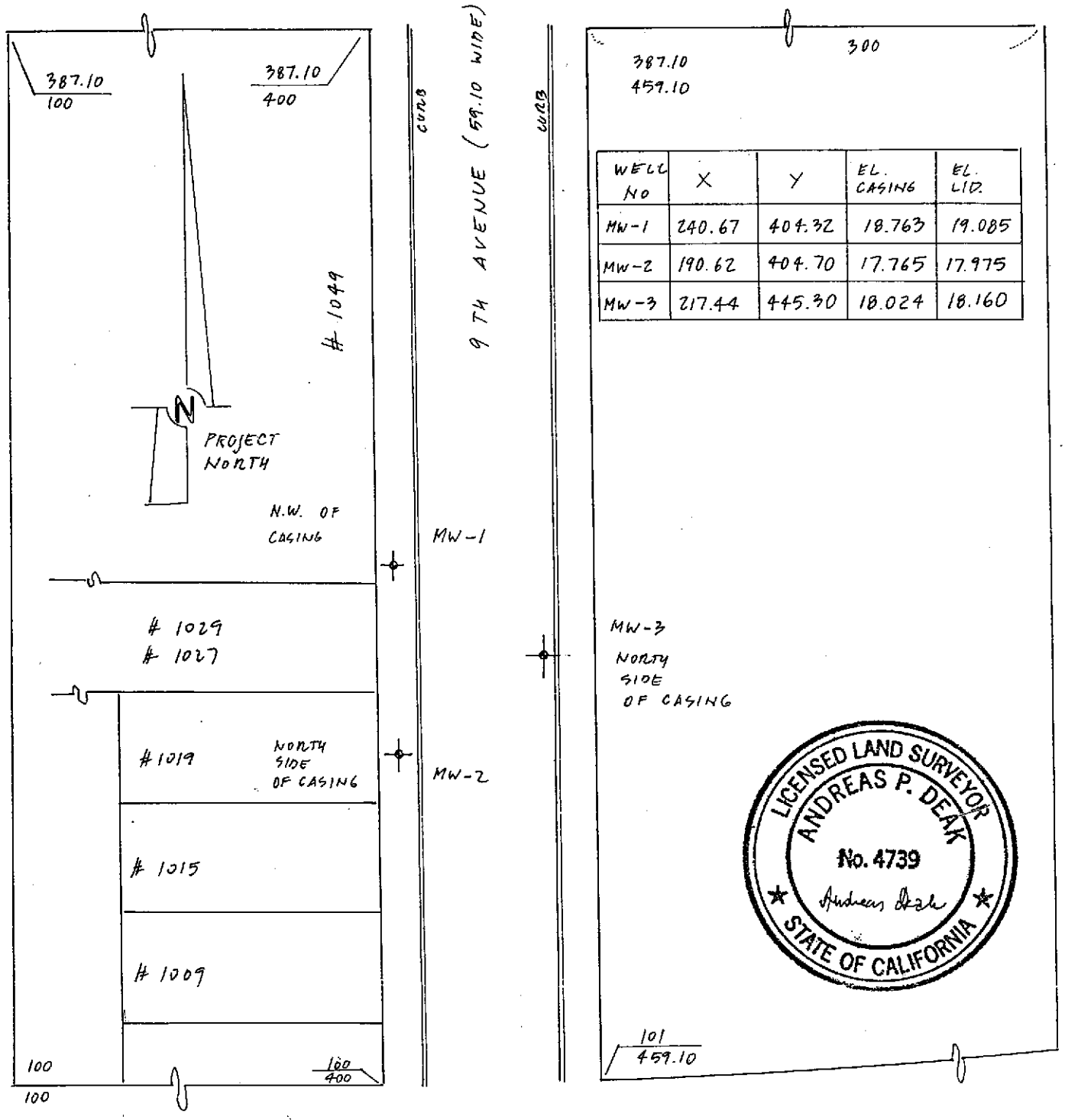
ITEM	CLIENT SAMPLE I.D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	TPH/BTEX & MTBE EPA 8015M/8020	TPH DIESEL EPA 8015M	OXYGENATED FUEL ADDITIVES EPA 8260B	VOLATILE HYDROCARBONS EPA 8260	CHLORINATED SOLVENTS (ENHANCED) EPA 8010	TPPH SM 5520F	SEMI-VOLATILE HYDROCARBONS EPA 8270	TOTAL LEAD	5 LUFT METALS	CAM 17 METALS	OIL & GREASE EPA 413.1			COMMENTS	LAB SAMPLE #
1	MW-1	9/29/00	12:10	water	9	Yes	X	X			X		X				X				
2	MW-2	9/29/00	13:05	water	9	Yes	X	X			X		X				X				
3	MW-3	9/29/00	13:33	water	9	Yes	X	X			X		X				X				
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

SIGNATURES

RELINQUISHED BY: _____ (SIGNATURE) 9/29/00 (DATE) 4:26 pm (TIME)
RECEIVED BY LABORATORY: Mark A. Valentine (SIGNATURE) 9/29/00 (DATE) 9:26 p.m. (TIME)

APPENDIX B

SURVEYOR'S REPORT



WELL NO	X	Y	EL. CASING	EL. LID.
MW-1	240.67	404.32	18.763	19.085
MW-2	190.62	404.70	17.765	17.975
MW-3	217.44	445.30	18.024	18.160

VERTICAL AND HORIZONTAL CONTROL OF MONITORING WELLS. ALL ELEVATIONS ARE BASED ON CITY OF OAKLAND DATUM. TO CONVERT TO MEAN SEA LEVEL ADD 2.99

CLIENT: C & C PROPERTY MANAGEMENT 499 EMBARCADERO OAKLAND CA. 94606-5193

ANDREAS DEAK
LICENSED LAND SURVEYOR
2116 BUENA VISTA AVENUE ALAMEDA CA 94501
PHONE: 865-4289

DATE 9-22-2000
SCALE 1" = 40'
SURVEY DEAK
PLAT DEAK
APN BLOCK 19-19-6
JOB NO.

APPENDIX C

LABORATORY ANALYTICAL DATA SHEETS

Analytical Sciences

Report Date: September 25, 2000

Harris & Lee Environmental Sciences
P.O. Box 8369
Santa Rosa, CA 95407
ATTN: Richard Ely

LABORATORY REPORT

Project Name: **1049 9th Avenue, Oakland**

Lab Project Number: **0090807**

This 21 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.
Laboratory Director

PO Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952
Fax: (707) 769-8093

TPH Gasoline in Soil

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00854	MW-1-6'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 09/08/00 Date Analyzed: 09/18/00 QC Batch #: 1413
Date Received: 09/08/00 Method: EPA 5030/8015M/8020
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00855	MW-1-11'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 09/08/00 Date Analyzed: 09/18/00 QC Batch #: 1413
Date Received: 09/08/00 Method: EPA 5030/8015M/8020
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00856	MW-1-16'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 09/08/00 Date Analyzed: 09/18/00 QC Batch #: 1413
Date Received: 09/08/00 Method: EPA 5030/8015M/8020
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00858	MW-2-6'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 09/08/00 Date Analyzed: 09/19/00 QC Batch #: 1413
Date Received: 09/08/00 Method: EPA 5030/8015M/8020
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00859	MW-2-11'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 09/08/00 Date Analyzed: 09/19/00 QC Batch #: 1413
Date Received: 09/08/00 Method: EPA 5030/8015M/8020
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00860	MW-2-16'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 09/08/00 Date Analyzed: 09/19/00 QC Batch #: 1413
Date Received: 09/08/00 Method: EPA 5030/8015M/8020
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00862	MW-3-6'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 09/08/00 Date Analyzed: 09/20/00 QC Batch #: 1413
Date Received: 09/08/00 Method: EPA 5030/8015M/8020
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00863	MW-3-11'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 09/08/00 Date Analyzed: 09/20/00 QC Batch #: 1413
Date Received: 09/08/00 Method: EPA 5030/8015M/8020
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00864	MW-3-16'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 09/08/00 Date Analyzed: 09/20/00 QC Batch #: 1413
Date Received: 09/08/00 Method: EPA 5030/8015M/8020
Holding Time Met: Yes ✔ No ____

TPH Diesel in Soil

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00854	MW-1-6'	TPH/Diesel	ND	5.0

Date Sampled: 09/08/00 Date Extracted: 09/14/00 QC Batch #: 1402
Date Received: 09/08/00 Date Analyzed: 09/14/00 Method: EPA 3550/8015M
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00855	MW-1-11'	TPH/Diesel	ND	5.0

Date Sampled: 09/08/00 Date Extracted: 09/14/00 QC Batch #: 1402
Date Received: 09/08/00 Date Analyzed: 09/14/00 Method: EPA 3550/8015M
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00856	MW-1-16'	TPH/Diesel	ND	5.0

Date Sampled: 09/08/00 Date Extracted: 09/14/00 QC Batch #: 1402
Date Received: 09/08/00 Date Analyzed: 09/14/00 Method: EPA 3550/8015M
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00858	MW-2-6'	TPH/Diesel	ND	5.0

Date Sampled: 09/08/00 Date Extracted: 09/14/00 QC Batch #: 1402
Date Received: 09/08/00 Date Analyzed: 09/14/00 Method: EPA 3550/8015M
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00859	MW-2-11'	TPH/Diesel	ND	5.0

Date Sampled: 09/08/00 Date Extracted: 09/14/00 QC Batch #: 1402
Date Received: 09/08/00 Date Analyzed: 09/14/00 Method: EPA 3550/8015M
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00860	MW-2-16'	TPH/Diesel	ND	5.0

Date Sampled: 09/08/00 Date Extracted: 09/14/00 QC Batch #: 1402
Date Received: 09/08/00 Date Analyzed: 09/14/00 Method: EPA 3550/8015M
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00862	MW-3-6'	TPH/Diesel	ND	5.0

Date Sampled: 09/08/00 Date Extracted: 09/14/00 QC Batch #: 1402
Date Received: 09/08/00 Date Analyzed: 09/14/00 Method: EPA 3550/8015M
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00863	MW-3-11'	TPH/Diesel	ND	5.0

Date Sampled: 09/08/00 Date Extracted: 09/14/00 QC Batch #: 1402
Date Received: 09/08/00 Date Analyzed: 09/14/00 Method: EPA 3550/8015M
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00864	MW-3-16'	TPH/Diesel	ND	5.0

Date Sampled: 09/08/00 Date Extracted: 09/14/00 QC Batch #: 1402
Date Received: 09/08/00 Date Analyzed: 09/14/00 Method: EPA 3550/8015M
Holding Time Met: Yes ✔ No ____

Chlorinated Solvents in Soil

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
00854	MW-1-6'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 09/08/00 Date Analyzed: 09/11/00 QC Batch #: 1404
Date Received: 09/08/00 Method: EPA 5030/8010
Holding Time Met: Yes ✔ No ____

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
00855	MW-1-11'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 09/08/00 Date Analyzed: 09/11/00 QC Batch #: 1404
Date Received: 09/08/00 Method: EPA 5030/8010
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
00856	MW-1-16'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 09/08/00 Date Analyzed: 09/11/00 QC Batch #: 1404
Date Received: 09/08/00 Method: EPA 5030/8010
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
00858	MW-2-6'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 09/08/00 Date Analyzed: 09/11/00 QC Batch #: 1404
Date Received: 09/08/00 Method: EPA 5030/8010
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
00859	MW-2-11'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 09/08/00
Date Received: 09/08/00
Holding Time Met: Yes ✔ No ____

Date Analyzed: 09/11/00
Method: EPA 5030/8010

QC Batch #: 1404

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
00860	MW-2-16'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 09/08/00 Date Analyzed: 09/11/00 QC Batch #: 1404
Date Received: 09/08/00 Method: EPA 5030/8010
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
00862	MW-3-6'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 09/08/00 Date Analyzed: 09/11/00 QC Batch #: 1404
Date Received: 09/08/00 Method: EPA 5030/8010
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
00863	MW-3-11'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 09/08/00 Date Analyzed: 09/11/00 QC Batch #: 1404
Date Received: 09/08/00 Method: EPA 5030/8010
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
00864	MW-3-16'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 09/08/00 Date Analyzed: 09/11/00 QC Batch #: 1404
Date Received: 09/08/00 Method: EPA 5030/8010
Holding Time Met: Yes ✔ No ____

LABORATORY
QUALITY ASSURANCE REPORT

QC Batch #: 1413 **Lab Project #:** 0090807

Sample ID	Compound	Result (mg/kg)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample #	Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
00856	CMS	TPH/Gas		NS	
	CMS	Benzene	0.0216	0.0222	97.1
	CMS	Toluene	0.0244	0.0222	110
	CMS	Ethyl Benzene	0.0223	0.0222	100
	CMS	Xylenes	0.0679	0.0667	102

Sample #	Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
00856	CMSD	TPH/Gas		NS		
	CMSD	Benzene	0.0211	0.0222	97.9	2.3
	CMSD	Toluene	0.0220	0.0222	99.1	10
	CMSD	Ethyl Benzene	0.0217	0.0222	97.5	2.8
	CMSD	Xylenes	0.0653	0.0667	97.9	4.0

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

CA Lab Accreditation #: 2303

QC Batch #: 1402 **Lab Project #:** 0090807

Sample ID	Compound	Result (mg/kg)
MB	TPH/Diesel	ND

Sample #	Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
00856	CMS	TPH/Diesel	243	246	98.8

Sample #	Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
00856	CMSD	TPH/Diesel	254	246	103	3.2

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128
Fax (707) 769-8093

CHAIN OF CUSTODY

LAB PROJECT NUMBER: 0090807
HARRIS & LEE PROJECT NAME: 1049 9th AVE, OAKLAND
HARRIS & LEE PROJECT NUMBER:

CLIENT INFORMATION

COMPANY NAME: HARRIS & LEE ENVIRONMENTAL SCIENCES
ADDRESS: P.O. BOX 8369
SANTA ROSA, CA 95407
CONTACT: ~~JACK LEE / BOB HARRIS~~ RICHARD ELY
PHONE#: (707) 571-8961
FAX #: (707) 571-8688

TURNAROUND TIME (check one)

MOBILE LAB ____ 24 HOURS ____
SAME DAY ____ 72 HOURS ____
48 HOURS ____ NORMAL ✓
5 DAYS ____

COOLER TEMBERATURE
ICE °C

COC
PAGE 1 OF 1

ANALYSIS

ITEM	CLIENT SAMPLE I..D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	TPH/GAS/BTEX & MTBE EPA 8015M/8020	TPH DIESEL EPA 8015M	OXYGENATED FUEL ADDITIVES EPA 8260M	VOLATILE HYDROCARBONS EPA 8260	CHLORINATED SOLVENTS EPA 8010	TRPH SM 5520F	SEMI-VOLATILE HYDROCARBONS EPA 8270	TOTAL LEAD	5 LUFT METALS	CAM 17 METALS				COMMENTS	LAB SAMPLE #
1	MW-1-6'	9/8	9:15	S	1	NO	X	X			X		X								00854
2	MW-1-11'	9/8	9:21	S	1	NO	X	X			X		X							Product odor	00855
3	MW-1-16'	9/8	9:30	S	1	NO	X	X			X		X								00856
4	MW-1-19.5'	9/8	9:34	S	1	NO	WA													HOLD	00857
5	MW-2-6'	9/8	10:57	S	1	NO	X	X			X		X								00858
6	MW-2-11'	9/8	11:03	S	1	NO	X	X			X		X								00859
7	MW-2-16'	9/8	11:09	S	1	NO	X	X			X		X								00860
8	MW-2-19.5'	9/8	11:12	S	1	NO														HOLD	00861
9	MW-3-6'	9/8	12:14	S	1	NO	X	X			X		X								00862
10	MW-3-11'	9/8	12:20	S	1	NO	X	X			X		X								00863
11	MW-3-16'	9/8	12:25	S	1	NO	X	X			X		X								00864
12	MW-3-19.5'	9/8	12:28	S	1	NO														HOLD	00865

RELINQUISHED BY:
Richard W. Ely — SIGNATURE
9/8/00 — DATE
5:05 — TIME

RECEIVED BY LABORATORY:
Mah A. Valentin — SIGNATURE
9/08/00 — DATE
5:05 — TIME

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Analytical Sciences P.O. Box 750336 Petaluma, CA 94975-0336	Client Project ID: #1049 9TH (0090807)	Date Sampled: 09/08/00 Date Received: 09/14/00
	Client Contact: Mark Valentini	Date Extracted: 09/14/00
	Client P.O:	Date Analyzed: 09/18-09/20/00

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	47525
Client ID	MW-1-6' (00854)
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	oncentration	Reporting Limit W	Reporting Limit S
Acenaphthene	ND	10	0.33	Di-n-octyl Phthalate	ND	10	0.33
Acenaphthylene	ND	10	0.33	1,2-Diphenylhydrazine	ND	10	0.33
Anthracene	ND	10	0.33	Fluoranthene	ND	10	0.33
Benzidine	ND	50	1.6	Fluorene	ND	10	0.33
Benzoic Acid	ND	50	1.6	Hexachlorobenzene	ND	10	0.33
Benzo(a)anthracene	ND	10	0.33	Hexachlorobutadiene	ND	10	0.33
Benzo(b)fluoranthene	ND	10	0.33	Hexachlorocyclopentadiene	ND	50	1.6
Benzo(k)fluoranthene	ND	10	0.33	Hexachloroethane	ND	10	0.33
Benzo(g,h,i)perylene	ND	10	0.33	Indeno(1,2,3-cd)pyrene	ND	10	0.33
Benzo(a)pyrene	ND	10	0.33	Isophorone	ND	10	0.33
Benzyl Alcohol	ND	20	0.66	2-Methylnaphthalene	ND	10	0.33
Bis(2-chloroethoxy)methane	ND	10	0.33	2-Methylphenol (o-Cresol)	ND	10	0.33
Bis(2-chloroethyl) Ether	ND	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND	10	0.33
Bis(2-chloroisopropyl)Ether	ND	10	0.33	Naphthalene	ND	10	0.33
Bis(2-ethylhexyl) Phthalate	ND	10	0.33	2-Nitroaniline	ND	50	1.6
4-Bromophenyl Phenyl Ether	ND	10	0.33	3-Nitroaniline	ND	50	1.6
Butylbenzyl Phthalate	ND	10	0.33	4-Nitroaniline	ND	50	1.6
4-Chloroanaline	ND	20	0.66	2-Nitrophenol	ND	50	1.6
4-Chloro-3-methylpheno[	ND	10	0.33	4-Nitrophenol	ND	50	1.6
2-Chloronaphthalene	ND	10	0.33	Nitrobenzene	ND	10	0.33
2-Chlorophenol	ND	10	0.33	N-Nitrosodimethylamine	ND	10	0.33
4-Chlorophenyl Phenyl Ether	ND	10	0.33	N-Nitrosodiphenylamine	ND	10	0.33
Chrysene	ND	10	0.33	N-Nitrosodi-n-propylamine	ND	10	0.33
Dibenzo(a,h)anthracene	ND	10	0.33	Pentachlorophenol	ND	50	1.6
Dibenzofuran	ND	10	0.33	Phenanthrene	ND	10	0.33
Di-n-butyl Phthalate	ND	10	0.33	Phenol	ND	10	0.33
1,2-Dichlorobenzene	ND	10	0.33	Pyrene	ND	10	0.33
1,3-Dichlorobenzene	ND	10	0.33	1,2,4-Trichlorobenzene	ND	10	0.33
1,4-Dichlorobenzene	ND	10	0.33	2,4,5-Trichlorophenol	ND	10	0.33
3,3-Dichlorobenzidine	ND	20	0.66	2,4,6-Trichlorophenol	ND	10	0.33
2,4-Dichlorophenol	ND	10	0.33	Comments:			
Diethyl Phthalate	ND	10	0.33	**Surrogate Recoveries (%)**			
2,4-Dimethylphenol	ND	10	0.33	2-Fluorophenol	120		
Dimethyl Phthalate	ND	10	0.33	Phenol-d5	122		
4,6-Dinitro-2-methylphenol	ND	50	1.6	Nitrobenzene-d5	99		
2,4-Dinitrophenol	ND	50	1.6	2-Fluorobiphenyl	105		
2,4-Dinitrotoluene	ND	10	0.33	2,4,6-Tribromophenol	72		
2,6-Dinitrotoluene	ND	10	0.33	p-Terphenyl-d14	123		

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

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

surrogate diluted out of range

h) lighter than water immiscible sheen is present; i)liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

DHS Certification No. 1644

Edward Hamilton, Lab Director

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http://www.mccampbell.com E-mail: main@mccampbell.com

Analytical Sciences P.O. Box 750336 Petaluma, CA 94975-0336	Client Project ID: #1049 9TH (0090807)	Date Sampled: 09/08/00
		Date Received: 09/14/00
	Client Contact: Mark Valentini	Date Extracted: 09/14/00
	Client P.O:	Date Analyzed: 09/148-09/2000

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	47526
Client ID	MW-1-11' (00855)
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	oncentration	Reporting Limit W	Reporting Limit S
Acenaphthene	ND	10	0.33	Di-n-octyl Phthalate	ND	10	0.33
Acenaphthylene	ND	10	0.33	1,2-Diphenylhydrazine	ND	10	0.33
Anthracene	ND	10	0.33	Fluoranthene	ND	10	0.33
Benzidine	ND	50	1.6	Fluorene	ND	10	0.33
Benzoic Acid	ND	50	1.6	Hexachlorobenzene	ND	10	0.33
Benzo(a)anthracene	ND	10	0.33	Hexachlorobutadiene	ND	10	0.33
Benzo(b)fluoranthene	ND	10	0.33	Hexachlorocyclopentadiene	ND	50	1.6
Benzo(k)fluoranthene	ND	10	0.33	Hexachloroethane	ND	10	0.33
Benzo(g,h,i)perylene	ND	10	0.33	Indeno(1,2,3-cd)pyrene	ND	10	0.33
Benzo(a)pyrene	ND	10	0.33	Isophorone	ND	10	0.33
Benzyl Alcohol	ND	20	0.66	2-Methylnaphthalene	ND	10	0.33
Bis(2-chloroethoxy)methane	ND	10	0.33	2-Methylphenol (o-Cresol)	ND	10	0.33
Bis(2-chloroethyl) Ether	ND	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND	10	0.33
Bis(2-chloroisopropyl)Ether	ND	10	0.33	Naphthalene	ND	10	0.33
Bis(2-ethylhexyl) Phthalate	ND	10	0.33	2-Nitroaniline	ND	50	1.6
4-Bromophenyl Phenyl Ether	ND	10	0.33	3-Nitroaniline	ND	50	1.6
Butylbenzyl Phthalate	ND	10	0.33	4-Nitroaniline	ND	50	1.6
4-Chloroanaline	ND	20	0.66	2-Nitrophenol	ND	50	1.6
4-Chloro-3-methylpheno'	ND	10	0.33	4-Nitrophenol	ND	50	1.6
2-Chloronaphthalene	ND	10	0.33	Nitrobenzene	ND	10	0.33
2-Chlorophenol	ND	10	0.33	N-Nitrosodimethylamine	ND	10	0.33
4-Chlorophenyl Phenyl Ether	ND	10	0.33	N-Nitrosodiphenylamine	ND	10	0.33
Chrysene	ND	10	0.33	N-Nitrosodi-n-propylamine	ND	10	0.33
Dibenzo(a,h)anthracene	ND	10	0.33	Pentachlorophenol	ND	50	1.6
Dibenzofuran	ND	10	0.33	Phenanthrene	ND	10	0.33
Di-n-butyl Phthalate	ND	10	0.33	Phenol	ND	10	0.33
1,2-Dichlorobenzene	ND	10	0.33	Pyrene	ND	10	0.33
1,3-Dichlorobenzene	ND	10	0.33	1,2,4-Trichlorobenzene	ND	10	0.33
1,4-Dichlorobenzene	ND	10	0.33	2,4,5-Trichlorophenol	ND	10	0.33
3,3-Dichlorobenzidine	ND	20	0.66	2,4,6-Trichlorophenol	ND	10	0.33
2,4-Dichlorophenol	ND	10	0.33	Comments:			
Diethyl Phthalate	ND	10	0.33	**Surrogate Recoveries (%)**			
2,4-Dimethylphenol	ND	10	0.33	2-Fluorophenol	80		
Dimethyl Phthalate	ND	10	0.33	Phenol-d5	84		
4,6-Dinitro-2-methylphenol	ND	50	1.6	Nitrobenzene-d5	94		
2,4-Dinitrophenol	ND	50	1.6	2-Fluorobiphenyl	92		
2,4-Dinitrotoluene	ND	10	0.33	2,4,6-Tribromophenol	72		
2,6-Dinitrotoluene	ND	10	0.33	p-Terphenyl-d14	72		

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

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

surrogate diluted out of range

h) lighter than water immiscible sheen is present; i)liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

DHS Certification No. 1644

Edward Hamilton, Lab Director

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http://www.mccampbell.com E-mail: main@mccampbell.com

Analytical Sciences P.O. Box 750336 Petaluma, CA 94975-0336	Client Project ID: #1049 9TH (0090807)	Date Sampled: 09/08/00
		Date Received: 09/14/00
	Client Contact: Mark Valentini	Date Extracted: 09/14/00
	Client P.O:	Date Analyzed: 09/18-09/20/00

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	47527
Client ID	MW-1-16' (00856)
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	oncentration	Reporting Limit W	Reporting Limit S
Acenaphthene	ND	10	0.33	Di-n-octyl Phthalate	ND	10	0.33
Acenaphthylene	ND	10	0.33	1,2-Diphenylhydrazine	ND	10	0.33
Anthracene	ND	10	0.33	Fluoranthene	ND	10	0.33
Benzidine	ND	50	1.6	Fluorene	ND	10	0.33
Benzoic Acid	ND	50	1.6	Hexachlorobenzene	ND	10	0.33
Benzo(a)anthracene	ND	10	0.33	Hexachlorobutadiene	ND	10	0.33
Benzo(b)fluoranthene	ND	10	0.33	Hexachlorocyclopentadiene	ND	50	1.6
Benzo(k)fluoranthene	ND	10	0.33	Hexachloroethane	ND	10	0.33
Benzo(g,h,i)perylene	ND	10	0.33	Indeno(1,2,3-cd)pyrene	ND	10	0.33
Benzo(a)pyrene	ND	10	0.33	Isophorone	ND	10	0.33
Benzyl Alcohol	ND	20	0.66	2-Methylnaphthalene	ND	10	0.33
Bis(2-chloroethoxy)methane	ND	10	0.33	2-Methylphenol (o-Cresol)	ND	10	0.33
Bis(2-chloroethyl) Ether	ND	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND	10	0.33
Bis(2-chloroisopropyl)Ether	ND	10	0.33	Naphthalene	ND	10	0.33
Bis(2-ethylhexyl) Phthalate	ND	10	0.33	2-Nitroaniline	ND	50	1.6
4-Bromophenyl Phenyl Ether	ND	10	0.33	3-Nitroaniline	ND	50	1.6
Butylbenzyl Phthalate	ND	10	0.33	4-Nitroaniline	ND	50	1.6
4-Chloroanaline	ND	20	0.66	2-Nitrophenol	ND	50	1.6
4-Chloro-3-methylpheno[	ND	10	0.33	4-Nitrophenol	ND	50	1.6
2-Chloronaphthalene	ND	10	0.33	Nitrobenzene	ND	10	0.33
2-Chlorophenol	ND	10	0.33	N-Nitrosodimethylamine	ND	10	0.33
4-Chlorophenyl Phenyl Ether	ND	10	0.33	N-Nitrosodiphenylamine	ND	10	0.33
Chrysene	ND	10	0.33	N-Nitrosodi-n-propylamine	ND	10	0.33
Dibenzo(a,h)anthracene	ND	10	0.33	Pentachlorophenol	ND	50	1.6
Dibenzofuran	ND	10	0.33	Phenanthrene	ND	10	0.33
Di-n-butyl Phthalate	ND	10	0.33	Phenol	ND	10	0.33
1,2-Dichlorobenzene	ND	10	0.33	Pyrene	ND	10	0.33
1,3-Dichlorobenzene	ND	10	0.33	1,2,4-Trichlorobenzene	ND	10	0.33
1,4-Dichlorobenzene	ND	10	0.33	2,4,5-Trichlorophenol	ND	10	0.33
3,3-Dichlorobenzidine	ND	20	0.66	2,4,6-Trichlorophenol	ND	10	0.33
2,4-Dichlorophenol	ND	10	0.33	Comments:			
Diethyl Phthalate	ND	10	0.33	**Surrogate Recoveries (%)**			
2,4-Dimethylphenol	ND	10	0.33	2-Fluorophenol	106		
Dimethyl Phthalate	ND	10	0.33	Phenol-d5	112		
4,6-Dinitro-2-methylphenol	ND	50	1.6	Nitrobenzene-d5	14		
2,4-Dinitrophenol	ND	50	1.6	2-Fluorobiphenyl	110		
2,4-Dinitrotoluene	ND	10	0.33	2,4,6-Tribromophenol	70		
2,6-Dinitrotoluene	ND	10	0.33	p-Terphenyl-d14	90		

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

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

surrogate diluted out of range

h) lighter than water immiscible sheen is present; i)liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Analytical Sciences	Client Project ID: #1049 9TH (0090807)	Date Sampled: 09/08/00
P.O. Box 750336		Date Received: 09/14/00
Petaluma, CA 94975-0336	Client Contact: Mark Valentini	Date Extracted: 09/14/00
	Client P.O:	Date Analyzed: 09/18-09/20/00

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	47528
Client ID	MW-2-6' (00858)
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	oncentration	Reporting Limit W	Reporting Limit S
Acenaphthene	ND	10	0.33	Di-n-octyl Phthalate	ND	10	0.33
Acenaphthylene	ND	10	0.33	1,2-Diphenylhydrazine	ND	10	0.33
Anthracene	ND	10	0.33	Fluoranthene	ND	10	0.33
Benzidine	ND	50	1.6	Fluorene	ND	10	0.33
Benzoic Acid	ND	50	1.6	Hexachlorobenzene	ND	10	0.33
Benzo(a)anthracene	ND	10	0.33	Hexachlorobutadiene	ND	10	0.33
Benzo(b)fluoranthene	ND	10	0.33	Hexachlorocyclopentadiene	ND	50	1.6
Benzo(k)fluoranthene	ND	10	0.33	Hexachloroethane	ND	10	0.33
Benzo(g,h,i)perylene	ND	10	0.33	Indeno(1,2,3-cd)pyrene	ND	10	0.33
Benzo(a)pyrene	ND	10	0.33	Isophorone	ND	10	0.33
Benzyl Alcohol	ND	20	0.66	2-Methylnaphthalene	ND	10	0.33
Bis(2-chloroethoxy)methane	ND	10	0.33	2-Methylphenol (o-Cresol)	ND	10	0.33
Bis(2-chloroethyl) Ether	ND	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND	10	0.33
Bis(2-chloroisopropyl)Ether	ND	10	0.33	Naphthalene	ND	10	0.33
Bis(2-ethylhexyl) Phthalate	ND	10	0.33	2-Nitroaniline	ND	50	1.6
4-Bromophenyl Phenyl Ether	ND	10	0.33	3-Nitroaniline	ND	50	1.6
Butylbenzyl Phthalate	ND	10	0.33	4-Nitroaniline	ND	50	1.6
4-Chloroanaline	ND	20	0.66	2-Nitrophenol	ND	50	1.6
4-Chloro-3-methylpheno[	ND	10	0.33	4-Nitrophenol	ND	50	1.6
2-Chloronaphthalene	ND	10	0.33	Nitrobenzene	ND	10	0.33
2-Chlorophenol	ND	10	0.33	N-Nitrosodimethylamine	ND	10	0.33
4-Chlorophenyl Phenyl Ether	ND	10	0.33	N-Nitrosodiphenylamine	ND	10	0.33
Chrysene	ND	10	0.33	N-Nitrosodi-n-propylamine	ND	10	0.33
Dibenzo(a,h)anthracene	ND	10	0.33	Pentachlorophenol	ND	50	1.6
Dibenzofuran	ND	10	0.33	Phenanthrene	ND	10	0.33
Di-n-butyl Phthalate	ND	10	0.33	Phenol	ND	10	0.33
1,2-Dichlorobenzene	ND	10	0.33	Pyrene	ND	10	0.33
1,3-Dichlorobenzene	ND	10	0.33	1,2,4-Trichlorobenzene	ND	10	0.33
1,4-Dichlorobenzene	ND	10	0.33	2,4,5-Trichlorophenol	ND	10	0.33
3,3-Dichlorobenzidine	ND	20	0.66	2,4,6-Trichlorophenol	ND	10	0.33
2,4-Dichlorophenol	ND	10	0.33	Comments:			
Diethyl Phthalate	ND	10	0.33	**Surrogate Recoveries (%)**			
2,4-Dimethylphenol	ND	10	0.33	2-Fluorophenol	102		
Dimethyl Phthalate	ND	10	0.33	Phenol-d5	110		
4,6-Dinitro-2-methylphenol	ND	50	1.6	Nitrobenzene-d5	100		
2,4-Dinitrophenol	ND	50	1.6	2-Fluorobiphenyl	110		
2,4-Dinitrotoluene	ND	10	0.33	2,4,6-Tribromophenol	84		
2,6-Dinitrotoluene	ND	10	0.33	p-Terphenyl-d14	96		

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

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

surrogate diluted out of range

h) lighter than water immiscible sheen is present; i)liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

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Analytical Sciences	Client Project ID: #1049 9TH (0090807)	Date Sampled: 09/08/00
P.O. Box 750336		Date Received: 09/14/00
Petaluma, CA 94975-0336	Client Contact: Mark Valentini	Date Extracted: 09/14/00
	Client P.O:	Date Analyzed: 09/18-09/20/00

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	47529
Client ID	MW-2-11' (00859)
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	oncentration	Reporting Limit W	Reporting Limit S
Acenaphthene	ND	10	0.33	Di-n-octyl Phthalate	ND	10	0.33
Acenaphthylene	ND	10	0.33	1,2-Diphenylhydrazine	ND	10	0.33
Anthracene	ND	10	0.33	Fluoranthene	ND	10	0.33
Benzidine	ND	50	1.6	Fluorene	ND	10	0.33
Benzoic Acid	ND	50	1.6	Hexachlorobenzene	ND	10	0.33
Benzo(a)anthracene	ND	10	0.33	Hexachlorobutadiene	ND	10	0.33
Benzo(b)fluoranthene	ND	10	0.33	Hexachlorocyclopentadiene	ND	50	1.6
Benzo(k)fluoranthene	ND	10	0.33	Hexachloroethane	ND	10	0.33
Benzo(g,h,i)perylene	ND	10	0.33	Indeno(1,2,3-cd)pyrene	ND	10	0.33
Benzo(a)pyrene	ND	10	0.33	Isophorone	ND	10	0.33
Benzyl Alcohol	ND	20	0.66	2-Methylnaphthalene	ND	10	0.33
Bis(2-chloroethoxy)methane	ND	10	0.33	2-Methylphenol (o-Cresol)	ND	10	0.33
Bis(2-chloroethyl) Ether	ND	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND	10	0.33
Bis(2-chloroisopropyl)Ether	ND	10	0.33	Naphthalene	ND	10	0.33
Bis(2-ethylhexyl) Phthalate	ND	10	0.33	2-Nitroaniline	ND	50	1.6
4-Bromophenyl Phenyl Ether	ND	10	0.33	3-Nitroaniline	ND	50	1.6
Butylbenzyl Phthalate	ND	10	0.33	4-Nitroaniline	ND	50	1.6
4-Chloroanaline	ND	20	0.66	2-Nitrophenol	ND	50	1.6
4-Chloro-3-methylpheno[	ND	10	0.33	4-Nitrophenol	ND	50	1.6
2-Chloronaphthalene	ND	10	0.33	Nitrobenzene	ND	10	0.33
2-Chlorophenol	ND	10	0.33	N-Nitrosodimethylamine	ND	10	0.33
4-Chlorophenyl Phenyl Ether	ND	10	0.33	N-Nitrosodiphenylamine	ND	10	0.33
Chrysene	ND	10	0.33	N-Nitrosodi-n-propylamine	ND	10	0.33
Dibenzo(a,h)anthracene	ND	10	0.33	Pentachlorophenol	ND	50	1.6
Dibenzofuran	ND	10	0.33	Phenanthrene	ND	10	0.33
Di-n-butyl Phthalate	ND	10	0.33	Phenol	ND	10	0.33
1,2-Dichlorobenzene	ND	10	0.33	Pyrene	ND	10	0.33
1,3-Dichlorobenzene	ND	10	0.33	1,2,4-Trichlorobenzene	ND	10	0.33
1,4-Dichlorobenzene	ND	10	0.33	2,4,5-Trichlorophenol	ND	10	0.33
3,3-Dichlorobenzidine	ND	20	0.66	2,4,6-Trichlorophenol	ND	10	0.33
2,4-Dichlorophenol	ND	10	0.33	Comments:			
Diethyl Phthalate	ND	10	0.33	**Surrogate Recoveries (%)**			
2,4-Dimethylphenol	ND	10	0.33	2-Fluorophenol	114		
Dimethyl Phthalate	ND	10	0.33	Phenol-d5	116		
4,6-Dinitro-2-methylphenol	ND	50	1.6	Nitrobenzene-d5	116		
2,4-Dinitrophenol	ND	50	1.6	2-Fluorobiphenyl	100		
2,4-Dinitrotoluene	ND	10	0.33	2,4,6-Tribromophenol	78		
2,6-Dinitrotoluene	ND	10	0.33	p-Terphenyl-d14	96		

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

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

surrogate diluted out of range

h) lighter than water immiscible sheen is present; i)liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Analytical Sciences P.O. Box 750336 Petaluma, CA 94975-0336	Client Project ID: #1049 9TH (0090807)	Date Sampled: 09/08/00
		Date Received: 09/14/00
	Client Contact: Mark Valentini	Date Extracted: 09/14/00
	Client P.O:	Date Analyzed: 09/18-09/20/00

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	47530
Client ID	MW-2-16' (00860)
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	oncentration	Reporting Limit W	Reporting Limit S
Acenaphthene	ND	10	0.33	Di-n-octyl Phthalate	ND	10	0.33
Acenaphthylene	ND	10	0.33	1,2-Diphenylhydrazine	ND	10	0.33
Anthracene	ND	10	0.33	Fluoranthene	ND	10	0.33
Benzidine	ND	50	1.6	Fluorene	ND	10	0.33
Benzoic Acid	ND	50	1.6	Hexachlorobenzene	ND	10	0.33
Benzo(a)anthracene	ND	10	0.33	Hexachlorobutadiene	ND	10	0.33
Benzo(b)fluoranthene	ND	10	0.33	Hexachlorocyclopentadiene	ND	50	1.6
Benzo(k)fluoranthene	ND	10	0.33	Hexachloroethane	ND	10	0.33
Benzo(g,h,i)perylene	ND	10	0.33	Indeno(1,2,3-cd)pyrene	ND	10	0.33
Benzo(a)pyrene	ND	10	0.33	Isophorone	ND	10	0.33
Benzyl Alcohol	ND	20	0.66	2-Methylnaphthalene	ND	10	0.33
Bis(2-chloroethoxy)methane	ND	10	0.33	2-Methylphenol (o-Cresol)	ND	10	0.33
Bis(2-chloroethyl) Ether	ND	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND	10	0.33
Bis(2-chloroisopropyl)Ether	ND	10	0.33	Naphthalene	ND	10	0.33
Bis(2-ethylhexyl) Phthalate	ND	10	0.33	2-Nitroaniline	ND	50	1.6
4-Bromophenyl Phenyl Ether	ND	10	0.33	3-Nitroaniline	ND	50	1.6
Butylbenzyl Phthalate	ND	10	0.33	4-Nitroaniline	ND	50	1.6
4-Chloroanaline	ND	20	0.66	2-Nitrophenol	ND	50	1.6
4-Chloro-3-methylpheno[l]	ND	10	0.33	4-Nitrophenol	ND	50	1.6
2-Chloronaphthalene	ND	10	0.33	Nitrobenzene	ND	10	0.33
2-Chlorophenol	ND	10	0.33	N-Nitrosodimethylamine	ND	10	0.33
4-Chlorophenyl Phenyl Ether	ND	10	0.33	N-Nitrosodiphenylamine	ND	10	0.33
Chrysene	ND	10	0.33	N-Nitrosodi-n-propylamine	ND	10	0.33
Dibenzo(a,h)anthracene	ND	10	0.33	Pentachlorophenol	ND	50	1.6
Dibenzofuran	ND	10	0.33	Phenanthrene	ND	10	0.33
Di-n-butyl Phthalate	ND	10	0.33	Phenol	ND	10	0.33
1,2-Dichlorobenzene	ND	10	0.33	Pyrene	ND	10	0.33
1,3-Dichlorobenzene	ND	10	0.33	1,2,4-Trichlorobenzene	ND	10	0.33
1,4-Dichlorobenzene	ND	10	0.33	2,4,5-Trichlorophenol	ND	10	0.33
3,3-Dichlorobenzidine	ND	20	0.66	2,4,6-Trichlorophenol	ND	10	0.33
2,4-Dichlorophenol	ND	10	0.33	Comments:			
Diethyl Phthalate	ND	10	0.33	**Surrogate Recoveries (%)**			
2,4-Dimethylphenol	ND	10	0.33	2-Fluorophenol	96		
Dimethyl Phthalate	ND	10	0.33	Phenol-d5	104		
4,6-Dinitro-2-methylphenol	ND	50	1.6	Nitrobenzene-d5	100		
2,4-Dinitrophenol	ND	50	1.6	2-Fluorobiphenyl	88		
2,4-Dinitrotoluene	ND	10	0.33	2,4,6-Tribromophenol	64		
2,6-Dinitrotoluene	ND	10	0.33	p-Terphenyl-d14	84		

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

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

surrogate diluted out of range

h) lighter than water immiscible sheen is present; i)liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

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Analytical Sciences P.O. Box 750336 Petaluma, CA 94975-0336	Client Project ID: #1049 9TH (0090807)	Date Sampled: 09/08/00 Date Received: 09/14/00
	Client Contact: Mark Valentini	Date Extracted: 09/14/00
	Client P.O:	Date Analyzed: 09/18-09/20/00

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	47531
Client ID	MW-3-6' (00862)
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	oncentration	Reporting Limit W	Reporting Limit S
Acenaphthene	ND	10	0.33	Di-n-octyl Phthalate	ND	10	0.33
Acenaphthylene	ND	10	0.33	1,2-Diphenylhydrazine	ND	10	0.33
Anthracene	ND	10	0.33	Fluoranthene	ND	10	0.33
Benzidine	ND	50	1.6	Fluorene	ND	10	0.33
Benzoic Acid	ND	50	1.6	Hexachlorobenzene	ND	10	0.33
Benzo(a)anthracene	ND	10	0.33	Hexachlorobutadiene	ND	10	0.33
Benzo(b)fluoranthene	ND	10	0.33	Hexachlorocyclopentadiene	ND	50	1.6
Benzo(k)fluoranthene	ND	10	0.33	Hexachloroethane	ND	10	0.33
Benzo(g,h,i)perylene	ND	10	0.33	Indeno(1,2,3-cd)pyrene	ND	10	0.33
Benzo(a)pyrene	ND	10	0.33	Isophorone	ND	10	0.33
Benzyl Alcohol	ND	20	0.66	2-Methylnaphthalene	ND	10	0.33
Bis(2-chloroethoxy)methane	ND	10	0.33	2-Methylphenol (o-Cresol)	ND	10	0.33
Bis(2-chloroethyl) Ether	ND	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND	10	0.33
Bis(2-chloroisopropyl)Ether	ND	10	0.33	Naphthalene	ND	10	0.33
Bis(2-ethylhexyl) Phthalate	ND	10	0.33	2-Nitroaniline	ND	50	1.6
4-Bromophenyl Phenyl Ether	ND	10	0.33	3-Nitroaniline	ND	50	1.6
Butylbenzyl Phthalate	ND	10	0.33	4-Nitroaniline	ND	50	1.6
4-Chloroanaline	ND	20	0.66	2-Nitrophenol	ND	50	1.6
4-Chloro-3-methylpheno[	ND	10	0.33	4-Nitrophenol	ND	50	1.6
2-Chloronaphthalene	ND	10	0.33	Nitrobenzene	ND	10	0.33
2-Chlorophenol	ND	10	0.33	N-Nitrosodimethylamine	ND	10	0.33
4-Chlorophenyl Phenyl Ether	ND	10	0.33	N-Nitrosodiphenylamine	ND	10	0.33
Chrysene	ND	10	0.33	N-Nitrosodi-n-propylamine	ND	10	0.33
Dibenzo(a,h)anthracene	ND	10	0.33	Pentachlorophenol	ND	50	1.6
Dibenzofuran	ND	10	0.33	Phenanthrene	ND	10	0.33
Di-n-butyl Phthalate	ND	10	0.33	Phenol	ND	10	0.33
1,2-Dichlorobenzene	ND	10	0.33	Pyrene	ND	10	0.33
1,3-Dichlorobenzene	ND	10	0.33	1,2,4-Trichlorobenzene	ND	10	0.33
1,4-Dichlorobenzene	ND	10	0.33	2,4,5-Trichlorophenol	ND	10	0.33
3,3-Dichlorobenzidine	ND	20	0.66	2,4,6-Trichlorophenol	ND	10	0.33
2,4-Dichlorophenol	ND	10	0.33	Comments:			
Diethyl Phthalate	ND	10	0.33	**Surrogate Recoveries (%)**			
2,4-Dimethylphenol	ND	10	0.33	2-Fluorophenol	104		
Dimethyl Phthalate	ND	10	0.33	Phenol-d5	112		
4,6-Dinitro-2-methylphenol	ND	50	1.6	Nitrobenzene-d5	110		
2,4-Dinitrophenol	ND	50	1.6	2-Fluorobiphenyl	92		
2,4-Dinitrotoluene	ND	10	0.33	2,4,6-Tribromophenol	62		
2,6-Dinitrotoluene	ND	10	0.33	p-Terphenyl-d14	88		

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

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

surrogate diluted out of range

h) lighter than water immiscible sheen is present; i)liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

DHS Certification No. 1644

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Analytical Sciences P.O. Box 750336 Petaluma, CA 94975-0336	Client Project ID: #1049 9TH (0090807)	Date Sampled: 09/08/00 Date Received: 09/14/00
	Client Contact: Mark Valentini	Date Extracted: 09/14/00
	Client P.O:	Date Analyzed: 09/18-09/20/00

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	47532
Client ID	MW-3-11' (00863)
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	oncentration	Reporting Limit W	Reporting Limit S
Acenaphthene	ND	10	0.33	Di-n-octyl Phthalate	ND	10	0.33
Acenaphthylene	ND	10	0.33	1,2-Diphenylhydrazine	ND	10	0.33
Anthracene	ND	10	0.33	Fluoranthene	ND	10	0.33
Benzidine	ND	50	1.6	Fluorene	ND	10	0.33
Benzoic Acid	ND	50	1.6	Hexachlorobenzene	ND	10	0.33
Benzo(a)anthracene	ND	10	0.33	Hexachlorobutadiene	ND	10	0.33
Benzo(b)fluoranthene	ND	10	0.33	Hexachlorocyclopentadiene	ND	50	1.6
Benzo(k)fluoranthene	ND	10	0.33	Hexachloroethane	ND	10	0.33
Benzo(g,h,i)perylene	ND	10	0.33	Indeno(1,2,3-cd)pyrene	ND	10	0.33
Benzo(a)pyrene	ND	10	0.33	Isophorone	ND	10	0.33
Benzyl Alcohol	ND	20	0.66	2-Methylnaphthalene	ND	10	0.33
Bis(2-chloroethoxy)methane	ND	10	0.33	2-Methylphenol (o-Cresol)	ND	10	0.33
Bis(2-chloroethyl) Ether	ND	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND	10	0.33
Bis(2-chloroisopropyl)Ether	ND	10	0.33	Naphthalene	ND	10	0.33
Bis(2-ethylhexyl) Phthalate	ND	10	0.33	2-Nitroaniline	ND	50	1.6
4-Bromophenyl Phenyl Ether	ND	10	0.33	3-Nitroaniline	ND	50	1.6
Butylbenzyl Phthalate	ND	10	0.33	4-Nitroaniline	ND	50	1.6
4-Chloroanaline	ND	20	0.66	2-Nitrophenol	ND	50	1.6
4-Chloro-3-methylpheno[1]	ND	10	0.33	4-Nitrophenol	ND	50	1.6
2-Chloronaphthalene	ND	10	0.33	Nitrobenzene	ND	10	0.33
2-Chlorophenol	ND	10	0.33	N-Nitrosodimethylamine	ND	10	0.33
4-Chlorophenyl Phenyl Ether	ND	10	0.33	N-Nitrosodiphenylamine	ND	10	0.33
Chrysene	ND	10	0.33	N-Nitrosodi-n-propylamine	ND	10	0.33
Dibenzo(a,h)anthracene	ND	10	0.33	Pentachlorophenol	ND	50	1.6
Dibenzofuran	ND	10	0.33	Phenanthrene	ND	10	0.33
Di-n-butyl Phthalate	ND	10	0.33	Phenol	ND	10	0.33
1,2-Dichlorobenzene	ND	10	0.33	Pyrene	ND	10	0.33
1,3-Dichlorobenzene	ND	10	0.33	1,2,4-Trichlorobenzene	ND	10	0.33
1,4-Dichlorobenzene	ND	10	0.33	2,4,5-Trichlorophenol	ND	10	0.33
3,3-Dichlorobenzidine	ND	20	0.66	2,4,6-Trichlorophenol	ND	10	0.33
2,4-Dichlorophenol	ND	10	0.33	Comments:			
Diethyl Phthalate	ND	10	0.33	**Surrogate Recoveries (%)**			
2,4-Dimethylphenol	ND	10	0.33	2-Fluorophenol	94		
Dimethyl Phthalate	ND	10	0.33	Phenol-d5	106		
4,6-Dinitro-2-methylphenol	ND	50	1.6	Nitrobenzene-d5	104		
2,4-Dinitrophenol	ND	50	1.6	2-Fluorobiphenyl	90		
2,4-Dinitrotoluene	ND	10	0.33	2,4,6-Tribromophenol	68		
2,6-Dinitrotoluene	ND	10	0.33	p-Terphenyl-d14	88		

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

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

[#] surrogate diluted out of range

h) lighter than water immiscible sheen is present; i)liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Analytical Sciences P.O. Box 750336 Petaluma, CA 94975-0336	Client Project ID: #1049 9TH (0090807)	Date Sampled: 09/08/00
		Date Received: 09/14/00
	Client Contact: Mark Valentini	Date Extracted: 09/14/00
	Client P.O:	Date Analyzed: 09/18-09/24/00

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	47533
Client ID	MW-3-16' (00864)
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acenaphthene	ND	10	0.33	Di-n-octyl Phthalate	ND	10	0.33
Acenaphthylene	ND	10	0.33	1,2-Diphenylhydrazine	ND	10	0.33
Anthracene	ND	10	0.33	Fluoranthene	ND	10	0.33
Benzidine	ND	50	1.6	Fluorene	ND	10	0.33
Benzoic Acid	ND	50	1.6	Hexachlorobenzene	ND	10	0.33
Benzo(a)anthracene	ND	10	0.33	Hexachlorobutadiene	ND	10	0.33
Benzo(b)fluoranthene	ND	10	0.33	Hexachlorocyclopentadiene	ND	50	1.6
Benzo(k)fluoranthene	ND	10	0.33	Hexachloroethane	ND	10	0.33
Benzo(g,h,i)perylene	ND	10	0.33	Indeno(1,2,3-cd)pyrene	ND	10	0.33
Benzo(a)pyrene	ND	10	0.33	Isophorone	ND	10	0.33
Benzyl Alcohol	ND	20	0.66	2-Methylnaphthalene	ND	10	0.33
Bis(2-chloroethoxy)methane	ND	10	0.33	2-Methylphenol (o-Cresol)	ND	10	0.33
Bis(2-chloroethyl) Ether	ND	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND	10	0.33
Bis(2-chloroisopropyl)Ether	ND	10	0.33	Naphthalene	ND	10	0.33
Bis(2-ethylhexyl) Phthalate	ND	10	0.33	2-Nitroaniline	ND	50	1.6
4-Bromophenyl Phenyl Ether	ND	10	0.33	3-Nitroaniline	ND	50	1.6
Butylbenzyl Phthalate	ND	10	0.33	4-Nitroaniline	ND	50	1.6
4-Chloroanaline	ND	20	0.66	2-Nitrophenol	ND	50	1.6
4-Chloro-3-methylpheno[1]	ND	10	0.33	4-Nitrophenol	ND	50	1.6
2-Chloronaphthalene	ND	10	0.33	Nitrobenzene	ND	10	0.33
2-Chlorophenol	ND	10	0.33	N-Nitrosodimethylamine	ND	10	0.33
4-Chlorophenyl Phenyl Ether	ND	10	0.33	N-Nitrosodiphenylamine	ND	10	0.33
Chrysene	ND	10	0.33	N-Nitrosodi-n-propylamine	ND	10	0.33
Dibenzo(a,h)anthracene	ND	10	0.33	Pentachlorophenol	ND	50	1.6
Dibenzofuran	ND	10	0.33	Phenanthrene	ND	10	0.33
Di-n-butyl Phthalate	ND	10	0.33	Phenol	ND	10	0.33
1,2-Dichlorobenzene	ND	10	0.33	Pyrene	ND	10	0.33
1,3-Dichlorobenzene	ND	10	0.33	1,2,4-Trichlorobenzene	ND	10	0.33
1,4-Dichlorobenzene	ND	10	0.33	2,4,5-Trichlorophenol	ND	10	0.33
3,3-Dichlorobenzidine	ND	20	0.66	2,4,6-Trichlorophenol	ND	10	0.33
2,4-Dichlorophenol	ND	10	0.33	Comments:			
Diethyl Phthalate	ND	10	0.33	**Surrogate Recoveries (%)**			
2,4-Dimethylphenol	ND	10	0.33	2-Fluorophenol	110		
Dimethyl Phthalate	ND	10	0.33	Phenol-d5	108		
4,6-Dinitro-2-methylphenol	ND	50	1.6	Nitrobenzene-d5	104		
2,4-Dinitrophenol	ND	50	1.6	2-Fluorobiphenyl	92		
2,4-Dinitrotoluene	ND	10	0.33	2,4,6-Tribromophenol	90		
2,6-Dinitrotoluene	ND	10	0.33	p-Terphenyl-d14	90		

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

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

surrogate diluted out of range

h) lighter than water immiscible sheen is present; i)liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

QC REPORT

SVOCs (EPA 8270/625/525)

Date: 09/18/00-09/19/00 Matrix: Soil

Extraction: N/A

Compound	Concentration: ug/kg				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	
SampleID: 33291					Instrument: GC-8		
Surrogate1	0.000	890.0	850.0	1000.00	89	85	4.6
Pyrene	0.000	770.0	740.0	1000.00	77	74	4.0
Pentachlorophenol	0.000	450.0	430.0	1000.00	45	43	4.5
2,4-Dinitrotoluene	0.000	440.0	420.0	1000.00	44	42	4.7
Acenaphtene	0.000	550.0	510.0	1000.00	55	51	7.5
4-Nitrophenol	0.000	790.0	740.0	1000.00	79	74	6.5
4-Chloro-3-metylphenol	0.000	600.0	570.0	1000.00	60	57	5.1
1,2,4-trichlorobenzene	0.000	830.0	800.0	1000.00	83	80	3.7
N-nitroso-di-n-propyl	0.000	380.0	380.0	1000.00	38	38	0.0
1,4-Dichlorobenzene	0.000	920.0	900.0	1000.00	92	90	2.2
2-Chlorophenol	0.000	730.0	710.0	1000.00	73	71	2.8
Phenol	0.000	710.0	650.0	1000.00	71	65	8.8

$$\%\ \text{Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$\text{RPD} = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

Analytical Sciences
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110 Liberty Street, Petaluma, CA 94952
(707) 769-3128
Fax (707) 769-8093

21971
ZA579

CHAIN OF CUSTODY

LAB PROJECT NUMBER:
CLIENT'S PROJECT NAME: 1049 9TH (0090807)
CLIENT'S PROJECT NUMBER:

CLIENT INFORMATION

COMPANY NAME: ANALYTICAL SCIENCES
ADDRESS: P.O. BOX 750336
PETALUMA, CA 94975-0336
CONTACT: MARK VALENTINI
PHONE#: (707) 769-3128
FAX #: (707) 769-8093

TURNAROUND TIME (check one)

MOBILE LAB
SAME DAY
24 HOURS
48 HOURS
72 HOURS
5 DAYS / ROUTINE ✓
NORMAL

COOLER TEMBERATURE
BLUE ICES °C

COC
PAGE 1 OF 1

ANALYSIS

ITEM	CLIENT SAMPLE I.D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	EPA 8270	COMMENTS	LAB SAMPLE #
1	MW-1-6' (00854)	9/8/00	0915	S	1	No	X		47525
2	MW-1-11' (00855)	9/8/00	0921	S	1	No	X		47526
3	MW-1-16' (00856)	9/8/00	0930	S	1	No	X		47527
4	MW-2-6' (00858)	9/8/00	1057	S	1	No	X		47528
5	MW-2-11' (00859)	9/8/00	1103	S	1	No	X		47529
6	MW-2-16' (00860)	9/8/00	1107	S	1	No	X		47530
7	MW-3-6' (00862)	9/8/00	1214	S	1	No	X		47531
8	MW-3-11' (00863)	9/8/00	1220	S	1	No	X		47532
9	MW-3-16' (00864)	9/8/00	1225	S	1	No	X		47533
10									
11									
12									

VOAS | O&G | METALS | OTHER

ICE/A ✓
GOOD CONDITION
HEAD SPACE ABSENT
PRESERVATION APPROPRIATE ✓
CONTAINERS

SIGNATURES

RELINQUISHED BY: Heather A. Allen — SIGNATURE
9/13/00 — DATE
1500 — TIME
✓

RECEIVED BY LABORATORY: [signature] — SIGNATURE
9/14 — DATE
10:35 — TIME

VIA CALIFORNIA OVERNIGHT

[illegible] received sealed [illegible] via C/.

Analytical Sciences

Report Date: October 2, 2000

Harris & Lee Environmental Sciences
P.O. Box 8369
Santa Rosa, CA 95407
ATTN: Richard Ely

LABORATORY REPORT

Project Name: **1049 9th Avenue, Oakland**

Lab Project Number: **0092703**

This 5 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.
Laboratory Director

PO Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952
Fax: (707) 769-8093

Total Oil & Grease In Soil

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00964	MW-1-6'	Oil & Grease	ND	10

Date Sampled: 09/08/00 Date Extracted: 09/29/00 QC Batch #: 1437
Date Received: 09/08/00 Date Analyzed: 09/29/00 Method: SM5520
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00965	MW-1-11'	Oil & Grease	ND	10

Date Sampled: 09/08/00 Date Extracted: 09/29/00 QC Batch #: 1437
Date Received: 09/08/00 Date Analyzed: 09/29/00 Method: SM5520
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00966	MW-1-16'	Oil & Grease	ND	10

Date Sampled: 09/08/00 Date Extracted: 09/29/00 QC Batch #: 1437
Date Received: 09/08/00 Date Analyzed: 09/29/00 Method: SM5520
Holding Time Met: Yes ✔ No ____

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00967	MW-2-6'	Oil & Grease	ND	10

Date Sampled: 09/08/00 Date Extracted: 09/29/00 QC Batch #: 1437
Date Received: 09/08/00 Date Analyzed: 09/29/00 Method: SM5520
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00968	MW-2-11'	Oil & Grease	ND	10

Date Sampled: 09/08/00 Date Extracted: 09/29/00 QC Batch #: 1437
Date Received: 09/08/00 Date Analyzed: 09/29/00 Method: SM5520
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00969	MW-2-16'	Oil & Grease	ND	10

Date Sampled: 09/08/00 Date Extracted: 09/29/00 QC Batch #: 1437
Date Received: 09/08/00 Date Analyzed: 09/29/00 Method: SM5520
Holding Time Met: Yes ✔ No ____

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00970	MW-3-6'	Oil & Grease	ND	10

Date Sampled: 09/08/00 Date Extracted: 09/29/00 QC Batch #: 1437
Date Received: 09/08/00 Date Analyzed: 09/29/00 Method: SM5520
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00971	MW-3-11'	Oil & Grease	ND	10

Date Sampled: 09/08/00 Date Extracted: 09/29/00 QC Batch #: 1437
Date Received: 09/08/00 Date Analyzed: 09/29/00 Method: SM5520
Holding Time Met: Yes ✔ No ____

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
00972	MW-3-16'	Oil & Grease	ND	10

Date Sampled: 09/08/00 Date Extracted: 09/29/00 QC Batch #: 1437
Date Received: 09/08/00 Date Analyzed: 09/29/00 Method: SM5520
Holding Time Met: Yes ✔ No ____

CA Lab Accreditation #: 2303

LABORATORY
QUALITY ASSURANCE REPORT

QC Batch #: 1437 **Lab Project #:** 0092703

Sample ID	Compound	Result (mg/kg)
MB	TOG	ND

Sample #	Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
00966	CMS	TOG	241	228	106

Sample #	Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
00966	CMSD	TOG	234	258	90.6	15

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

CA Lab Accreditation #: 2303

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
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Fax (707) 769-8093

CHAIN OF CUSTODY

LAB PROJECT NUMBER: 0092703
HARRIS & LEE PROJECT NAME: 1049 9TH AVE. OAKLAND
HARRIS & LEE PROJECT NUMBER:

CLIENT INFORMATION

COMPANY NAME: HARRIS & LEE ENVIRONMENTAL SCIENCES
ADDRESS: P.O. BOX 8369
SANTA ROSA, CA 95407
CONTACT: ~~JACK LEE / BOB HARRIS~~ RICHARD ELY
PHONE#: (707) 571-8961
FAX #: (707) 571-8688

TURNAROUND TIME (please circle)

MOBILE LAB ____ SAME DAY ____ 24 HOURS ____
48 HOURS ____ 72 HOURS ____
5 DAYS ____ NORMAL X

COOLER TEMBERATURE: ICED °C

COC
PAGE 1 OF 1

ANALYSIS

ITEM	CLIENT SAMPLE I..D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	TPH/GAS/BTEX & MTBE EPA 8015M/8020	TPH DIESEL EPA 8015M	OXYGENATED FUEL ADDITIVES EPA 8260M	VOLATILE HYDROCARBONS EPA 8260	CHLORINATED SOLVENTS EPA 8010	TRPH SM 5520F	SEMI-VOLATILE HYDROCARBONS EPA 8270	TOTAL LEAD	5 LUFT METALS	CAM 17 METALS	Oil + Grease			COMMENTS	LAB SAMPLE #
1	MW-1-6'	9-8-00	0915	S	1	No											X				00964
2	MW-1-11'	9-8-00	0921	S	1	No											X				00965
3	MW-1-16'	9-8-00	0930	S	1	No											X				00966
4	MW-2-6'	9-8-00	1057	S	1	No											X				00967
5	MW-2-11'	9-8-00	1103	S	1	No											X				00968
6	MW-2-16'	9-8-00	1107	S	1	No											X				00969
7	MW-3-6'	9-8-00	1214	S	1	No											X				00970
8	MW-3-11'	9-8-00	1220	S	1	No											X				00971
9	MW-3-16'	9-8-00	1225	S	1	No											X				00972
10																					
11	relog of above samples from Lab Project 0090807 per R. Ely on 9/27/00 - See attached COC.																				
12																					

RELINQUISHED BY: Verbal request from Richard Ely 9/27/00
SIGNATURE DATE TIME

RECEIVED BY LABORATORY: See attached COC
SIGNATURE DATE TIME

Analytical Sciences

Report Date: October 11, 2000

Harris & Lee Environmental Sciences
P.O. Box 8369
Santa Rosa, CA 95407
ATTN: Richard Ely

LABORATORY REPORT

Project Name: **1049 9th Avenue, Oakland**

Lab Project Number: **0092901**

This 12 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.
Laboratory Director

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110 Liberty Street
Petaluma, CA 94952
Fax: (707) 769-8093

TPH Gasoline in Water

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
00997	MW-1	TPH/Gasoline	280	50
		MTBE	ND	2.5
		Benzene	1.4	0.5
		Toluene	ND	0.5
		Ethyl Benzene	2.5	0.5
		Xylenes	4.5	1.5

Date Sampled: 09/29/00 Date Analyzed: 10/02/00 QC Batch #: 1435
Date Received: 09/29/00 Method: EPA 5030/8015M/8020
Holding Time Met: Yes ✓ No ____

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
00998	MW-2	TPH/Gasoline	ND	50
		MTBE	ND	2.5
		Benzene	ND	0.5
		Toluene	ND	0.5
		Ethyl Benzene	ND	0.5
		Xylenes	ND	1.5

Date Sampled: 09/29/00 Date Analyzed: 10/02/00 QC Batch #: 1435
Date Received: 09/29/00 Method: EPA 5030/8015M/8020
Holding Time Met: Yes ✓ No ____

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
00999	MW-3	TPH/Gasoline	ND	50
		MTBE	ND	2.5
		Benzene	ND	0.5
		Toluene	ND	0.5
		Ethyl Benzene	ND	0.5
		Xylenes	ND	1.5

Date Sampled: 09/29/00 Date Analyzed: 10/02/00 QC Batch #: 1435
Date Received: 09/29/00 Method: EPA 5030/8015M/8020
Holding Time Met: Yes ✓ No ____

CA Lab Accreditation #: 2303

Chlorinated Solvents in Water

Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
00997	MW-1	dichlorodifluoromethane	ND	0.5
		chloromethane	ND	0.5
		vinyl chloride	ND	0.5
		bromomethane	ND	0.5
		chloroethane	ND	0.5
		trichlorofluoromethane	ND	0.5
		1,1-dichloroethene	ND	0.5
		methylene chloride	ND	0.5
		trans-1,2-dichloroethene	ND	0.5
		1,1-dichloroethane	ND	0.5
		cis-1,2-dichloroethene	ND	0.5
		chloroform	ND	0.5
		1,1,1-trichloroethane	ND	0.5
		carbon tetrachloride	ND	0.5
		1,2-dichloroethane	ND	0.5
		trichloroethene	ND	0.5
		1,2-dichloropropane	ND	0.5
		bromodichloromethane	ND	0.5
		dibromomethane	ND	0.5
		trans-1,3-dichloropropene	ND	0.5
		1,1,2-trichloroethane	ND	0.5
		tetrachloroethene	ND	0.5
		dibromochloromethane	ND	0.5
		chlorobenzene	1.1	0.5
		1,1,1,2-tetrachloroethane	ND	0.5
		bromoform	ND	0.5
		1,1,2,2-tetrachloroethane	ND	0.5
		1,2,3-trichloropropane	ND	0.5
		bromobenzene	ND	0.5
		chlorotoluene	ND	0.5
		1,3-dichlorobenzene	ND	0.5
		1,4-dichlorobenzene	ND	0.5
		1,2-dichlorobenzene	ND	0.5

Date Sampled: 09/29/00
Date Received: 09/29/00
Holding Time Met: Yes ✓ No ____

Date Analyzed: 10/01/00
Method: EPA 5030/8010

QC Batch #: 1438

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
00998	**MW-2**	**dichlorodifluoromethane**	**ND**	0.5
		chloromethane	**ND**	0.5
		vinyl chloride	**ND**	0.5
		bromomethane	**ND**	0.5
		chloroethane	**ND**	0.5
		trichlorofluoromethane	**ND**	0.5
		1,1-dichloroethene	**ND**	0.5
		methylene chloride	**ND**	0.5
		trans-1,2-dichloroethene	**ND**	0.5
		1,1-dichloroethane	**ND**	0.5
		cis-1,2-dichloroethene	**ND**	0.5
		chloroform	**ND**	0.5
		1,1,1-trichloroethane	**ND**	0.5
		carbon tetrachloride	**ND**	0.5
		1,2-dichloroethane	**ND**	0.5
		trichloroethene	**ND**	0.5
		1,2-dichloropropane	**ND**	0.5
		bromodichloromethane	**ND**	0.5
		dibromomethane	**ND**	0.5
		trans-1,3-dichloropropene	**ND**	0.5
		1,1,2-trichloroethane	**ND**	0.5
		tetrachloroethene	**ND**	0.5
		dibromochloromethane	**ND**	0.5
		chlorobenzene	**ND**	0.5
		1,1,1,2-tetrachloroethane	**ND**	0.5
		bromoform	**ND**	0.5
		1,1,2,2-tetrachloroethane	**ND**	0.5
		1,2,3-trichloropropane	**ND**	0.5
		bromobenzene	**ND**	0.5
		chlorotoluene	**ND**	0.5
		1,3-dichlorobenzene	**ND**	0.5
		1,4-dichlorobenzene	**ND**	0.5
		1,2-dichlorobenzene	**ND**	0.5

Date Sampled: 09/29/00 Date Analyzed: 09/30/00 QC Batch #: 1438
Date Received: 09/29/00 Method: EPA 5030/8010
Holding Time Met: Yes ✓ No ____

Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
00999	MW-3	dichlorodifluoromethane	ND	0.5
		chloromethane	ND	0.5
		vinyl chloride	ND	0.5
		bromomethane	ND	0.5
		chloroethane	ND	0.5
		trichlorofluoromethane	ND	0.5
		1,1-dichloroethene	ND	0.5
		methylene chloride	ND	0.5
		trans-1,2-dichloroethene	ND	0.5
		1,1-dichloroethane	ND	0.5
		cis-1,2-dichloroethene	ND	0.5
		chloroform	ND	0.5
		1,1,1-trichloroethane	ND	0.5
		carbon tetrachloride	ND	0.5
		1,2-dichloroethane	ND	0.5
		trichloroethene	ND	0.5
		1,2-dichloropropane	ND	0.5
		bromodichloromethane	ND	0.5
		dibromomethane	ND	0.5
		trans-1,3-dichloropropene	ND	0.5
		1,1,2-trichloroethane	ND	0.5
		tetrachloroethene	ND	0.5
		dibromochloromethane	ND	0.5
		chlorobenzene	ND	0.5
		1,1,1,2-tetrachloroethane	ND	0.5
		bromoform	ND	0.5
		1,1,2,2-tetrachloroethane	ND	0.5
		1,2,3-trichloropropane	ND	0.5
		bromobenzene	ND	0.5
		chlorotoluene	ND	0.5
		1,3-dichlorobenzene	ND	0.5
		1,4-dichlorobenzene	ND	0.5
		1,2-dichlorobenzene	ND	0.5

Date Sampled: 09/29/00 Date Analyzed: 09/30/00 QC Batch #: 1438
Date Received: 09/29/00 Method: EPA 5030/8010
Holding Time Met: Yes ✓ No ____

CA Lab Accreditation #: 2303

Total Oil & Grease in Water

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
00997	MW-1	Total Oil & Grease	ND	0.50

Date Sampled: 09/29/00 Date Extracted: 10/08/00 QC Batch #: 1449w
Date Received: 09/29/00 Date Analyzed: 10/08/00 Method: EPA 418.1M
Holding Time Met: Yes ✓ No ____

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
00998	MW-2	Total Oil & Grease	ND	0.50

Date Sampled: 09/29/00 Date Extracted: 10/08/00 QC Batch #: 1449w
Date Received: 09/29/00 Date Analyzed: 10/08/00 Method: EPA 418.1M
Holding Time Met: Yes ✓ No ____

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
00999	MW-3	Total Oil & Grease	ND	0.50

Date Sampled: 09/29/00 Date Extracted: 10/08/00 QC Batch #: 1449w
Date Received: 09/29/00 Date Analyzed: 10/08/00 Method: EPA 418.1M
Holding Time Met: Yes ✓ No ____

CA Lab Accreditation #: 2303

LABORATORY
QUALITY ASSURANCE REPORT

QC Batch #: 1435 **Lab Project #:** 0092901

Sample ID	Compound	Result (ug/L)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample #	Sample ID	Compound	Result (ug/L)	Spike Level	% Recv.
00990	CMS	TPH/Gas		NS	
	CMS	Benzene	7.04	8.00	88.6
	CMS	Toluene	7.21	8.00	90.1
	CMS	Ethyl Benzene	7.31	8.00	91.4
	CMS	Xylenes	22.0	24.0	91.8

Sample #	Sample ID	Compound	Result (ug/L)	Spike Level	% Recv.	RPD
00990	CMSD	TPH/Gas		NS		
	CMSD	Benzene	8.01	8.00	100	13
	CMSD	Toluene	8.15	8.00	102	12
	CMSD	Ethyl Benzene	8.33	8.00	104	13
	CMSD	Xylenes	25.0	24.0	104	13

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

CA Lab Accreditation #: 2303

QC Batch #: 1452 **Lab Project #:** 0092901

Sample ID	Compound	Result (ug/L)
MB	TPH/Diesel	ND

Sample ID	Compound	Result (ug/L)	Spike Level	% Recv.
LCS	TPH/Diesel	2,860	2,730	105

Sample ID	Compound	Result (ug/L)	Spike Level	% Recv.	RPD
LCSD	TPH/Diesel	3,000	2,730	110	5.0

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1449w **Lab Project #:** 0092901

Sample ID	Compound	Result (mg/L)
MB	TOG	ND

Sample ID	Compound	Result (mg/L)	Spike Level	% Recv.
LCS	TOG	12.2	10.8	113

Sample ID	Compound	Result (mg/L)	Spike Level	% Recv.	RPD
LCSD	TOG	12.9	11.2	115	1.6

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

Sample	Sample ID	Compound Name	Result (ug/L)	Spike Level	% Recv.
	CMS	dichlorodifluoromethane	ND		
		chloromethane	ND		
		vinyl chloride	ND		
		bromomethane	ND		
		chloroethane	ND		
		trichlorofluoromethane	ND		
		1,1-dichloroethene	7.30	8.00	91.3
		methylene chloride	ND		
		trans-1,2-dichloroethene	ND		
		1,1-dichloroethane	7.92	8.00	98.9
		cis-1,2-dichloroethene	ND		
		chloroform	ND		
		1,1,1-trichloroethane	7.91	8.00	98.8
		carbon tetrachloride	ND		
		1,2-dichloroethane	ND		
		trichloroethene	7.38	8.00	92.3
		1,2-dichloropropane	ND		
		bromodichloromethane	ND		
		dibromomethane	ND		
		trans-1,3-dichloropropene	ND		
		1,1,2-trichloroethane	7.54	8.00	94.3
		tetrachloroethene	ND		
		dibromochloromethane	ND		
		chlorobenzene	ND		
		1,1,1,2-tetrachloroethane	ND		
		bromoform	ND		
		1,1,2,2-tetrachloroethane	ND		
		1,2,3-trichloropropane	ND		
		bromobenzene	ND		
		chlorotoluene	ND		
		1,3-dichlorobenzene	7.73	8.00	96.6
		1,4-dichlorobenzene	ND		
		1,2-dichlorobenzene	ND		

CA Lab Accreditation #: 2303

Sample	Sample ID	Compound Name	Result (ug/L)	Spike Level	% Recv.	RPD
	CMSD	dichlorodifluoromethane	ND			
		chloromethane	ND			
		vinyl chloride	ND			
		bromomethane	ND			
		chloroethane	ND			
		trichlorofluoromethane	ND			
		1,1-dichloroethene	7.11	8.00	88.9	2.6
		methylene chloride	ND			
		trans-1,2-dichloroethene	ND			
		1,1-dichloroethane	7.34	8.00	91.8	7.6
		cis-1,2-dichloroethene	ND			
		chloroform	ND			
		1,1,1-trichloroethane	7.40	8.00	92.5	6.7
		carbon tetrachloride	ND			
		1,2-dichloroethane	ND			
		trichloroethene	6.63	8.00	82.9	11
		1,2-dichloropropane	ND			
		bromodichloromethane	ND			
		dibromomethane	ND			
		trans-1,3-dichloropropene	ND			
		1,1,2-trichloroethane	6.22	8.00	77.7	19
		tetrachloroethene	ND			
		dibromochloromethane	ND			
		chlorobenzene	ND			
		1,1,1,2-tetrachloroethane	ND			
		bromoform	ND			
		1,1,2,2-tetrachloroethane	ND			
		1,2,3-trichloropropane	ND			
		bromobenzene	ND			
		chlorotoluene	ND			
		1,3-dichlorobenzene	6.34	8.00	79.2	20
		1,4-dichlorobenzene	ND			
		1,2-dichlorobenzene	ND			

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
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CA Lab Accreditation #: 2303

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
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http://www.mccampbell.com E-mail: main@mccampbell.com

Analytical Sciences P.O. Box 750336 Petaluma, CA 94975-0336	Client Project ID: #1049 AO (0092901)	Date Sampled: 09/29/00
		Date Received: 09/29/00
	Client Contact: Mark Valentini	Date Extracted: 09/29/00
	Client P.O:	Date Analyzed: 10/05/00

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	48989
Client ID	MW1 (00997)
Matrix	W

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	oncentration	Reporting Limit W	Reporting Limit S
Acenaphthene	ND	10	0.33	Di-n-octyl Phthalate	ND	10	0.33
Acenaphthylene	ND	10	0.33	1,2-Diphenylhydrazine	ND	10	0.33
Anthracene	ND	10	0.33	Fluoranthene	ND	10	0.33
Benzidine	ND	50	1.6	Fluorene	ND	10	0.33
Benzoic Acid	ND	50	1.6	Hexachlorobenzene	ND	10	0.33
Benzo(a)anthracene	ND	10	0.33	Hexachlorobutadiene	ND	10	0.33
Benzo(b)fluoranthene	ND	10	0.33	Hexachlorocyclopentadiene	ND	50	1.6
Benzo(k)fluoranthene	ND	10	0.33	Hexachloroethane	ND	10	0.33
Benzo(g,h,i)perylene	ND	10	0.33	Indeno(1,2,3-cd)pyrene	ND	10	0.33
Benzo(a)pyrene	ND	10	0.33	Isophorone	ND	10	0.33
Benzyl Alcohol	ND	20	0.66	2-Methylnaphthalene	ND	10	0.33
Bis(2-chloroethoxy)methane	ND	10	0.33	2-Methylphenol (o-Cresol)	ND	10	0.33
Bis(2-chloroethyl) Ether	ND	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND	10	0.33
Bis(2-chloroisopropyl)Ether	ND	10	0.33	Naphthalene	ND	10	0.33
Bis(2-ethylhexyl) Phthalate	ND	10	0.33	2-Nitroaniline	ND	50	1.6
4-Bromophenyl Phenyl Ether	ND	10	0.33	3-Nitroaniline	ND	50	1.6
Butylbenzyl Phthalate	ND	10	0.33	4-Nitroaniline	ND	50	1.6
4-Chloroanaline	ND	20	0.66	2-Nitrophenol	ND	50	1.6
4-Chloro-3-methylpheno[1]	ND	10	0.33	4-Nitrophenol	ND	50	1.6
2-Chloronaphthalene	ND	10	0.33	Nitrobenzene	ND	10	0.33
2-Chlorophenol	ND	10	0.33	N-Nitrosodimethylamine	ND	10	0.33
4-Chlorophenyl Phenyl Ether	ND	10	0.33	N-Nitrosodiphenylamine	ND	10	0.33
Chrysene	ND	10	0.33	N-Nitrosodi-n-propylamine	ND	10	0.33
Dibenzo(a,h)anthracene	ND	10	0.33	Pentachlorophenol	ND	50	1.6
Dibenzofuran	ND	10	0.33	Phenanthrene	ND	10	0.33
Di-n-butyl Phthalate	ND	10	0.33	Phenol	ND	10	0.33
1,2-Dichlorobenzene	ND	10	0.33	Pyrene	ND	10	0.33
1,3-Dichlorobenzene	ND	10	0.33	1,2,4-Trichlorobenzene	ND	10	0.33
1,4-Dichlorobenzene	ND	10	0.33	2,4,5-Trichlorophenol	ND	10	0.33
3,3-Dichlorobenzidine	ND	20	0.66	2,4,6-Trichlorophenol	ND	10	0.33
2,4-Dichlorophenol	ND	10	0.33	Comments:			
Diethyl Phthalate	ND	10	0.33	**Surrogate Recoveries (%)**			
2,4-Dimethylphenol	ND	10	0.33	2-Fluorophenol	45		
Dimethyl Phthalate	ND	10	0.33	Phenol-d5	50		
4,6-Dinitro-2-methylphenol	ND	50	1.6	Nitrobenzene-d5	58		
2,4-Dinitrophenol	ND	50	1.6	2-Fluorobiphenyl	56		
2,4-Dinitrotoluene	ND	10	0.33	2,4,6-Tribromophenol	90		
2,6-Dinitrotoluene	ND	10	0.33	p-Terphenyl-d14	57		

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

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

[#] surrogate diluted out of range

h) lighter than water immiscible sheen is present; i)liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

DHS Certification No. 1644

Edward Hamilton, Lab Director

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http://www.mccampbell.com E-mail: main@mccampbell.com

Analytical Sciences P.O. Box 750336 Petaluma, CA 94975-0336	Client Project ID: #1049 AO (0092901)	Date Sampled: 09/29/00
		Date Received: 09/29/00
	Client Contact: Mark Valentini	Date Extracted: 09/29/00
	Client P.O:	Date Analyzed: 10/05/00

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	48990
Client ID	MW2 (00998)
Matrix	W

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	oncentration	Reporting Limit W	Reporting Limit S
Acenaphthene	ND	10	0.33	Di-n-octyl Phthalate	ND	10	0.33
Acenaphthylene	ND	10	0.33	1,2-Diphenylhydrazine	ND	10	0.33
Anthracene	ND	10	0.33	Fluoranthene	ND	10	0.33
Benzidine	ND	50	1.6	Fluorene	ND	10	0.33
Benzoic Acid	ND	50	1.6	Hexachlorobenzene	ND	10	0.33
Benzo(a)anthracene	ND	10	0.33	Hexachlorobutadiene	ND	10	0.33
Benzo(b)fluoranthene	ND	10	0.33	Hexachlorocyclopentadiene	ND	50	1.6
Benzo(k)fluoranthene	ND	10	0.33	Hexachloroethane	ND	10	0.33
Benzo(g,h,i)perylene	ND	10	0.33	Indeno(1,2,3-cd)pyrene	ND	10	0.33
Benzo(a)pyrene	ND	10	0.33	Isophorone	ND	10	0.33
Benzyl Alcohol	ND	20	0.66	2-Methylnaphthalene	ND	10	0.33
Bis(2-chloroethoxy)methane	ND	10	0.33	2-Methylphenol (o-Cresol)	ND	10	0.33
Bis(2-chloroethyl) Ether	ND	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND	10	0.33
Bis(2-chloroisopropyl)Ether	ND	10	0.33	Naphthalene	ND	10	0.33
Bis(2-ethylhexyl) Phthalate	ND	10	0.33	2-Nitroaniline	ND	50	1.6
4-Bromophenyl Phenyl Ether	ND	10	0.33	3-Nitroaniline	ND	50	1.6
Butylbenzyl Phthalate	ND	10	0.33	4-Nitroaniline	ND	50	1.6
4-Chloroanaline	ND	20	0.66	2-Nitrophenol	ND	50	1.6
4-Chloro-3-methylpheno[#]	ND	10	0.33	4-Nitrophenol	ND	50	1.6
2-Chloronaphthalene	ND	10	0.33	Nitrobenzene	ND	10	0.33
2-Chlorophenol	ND	10	0.33	N-Nitrosodimethylamine	ND	10	0.33
4-Chlorophenyl Phenyl Ether	ND	10	0.33	N-Nitrosodiphenylamine	ND	10	0.33
Chrysene	ND	10	0.33	N-Nitrosodi-n-propylamine	ND	10	0.33
Dibenzo(a,h)anthracene	ND	10	0.33	Pentachlorophenol	ND	50	1.6
Dibenzofuran	ND	10	0.33	Phenanthrene	ND	10	0.33
Di-n-butyl Phthalate	ND	10	0.33	Phenol	ND	10	0.33
1,2-Dichlorobenzene	ND	10	0.33	Pyrene	ND	10	0.33
1,3-Dichlorobenzene	ND	10	0.33	1,2,4-Trichlorobenzene	ND	10	0.33
1,4-Dichlorobenzene	ND	10	0.33	2,4,5-Trichlorophenol	ND	10	0.33
3,3-Dichlorobenzidine	ND	20	0.66	2,4,6-Trichlorophenol	ND	10	0.33
2,4-Dichlorophenol	ND	10	0.33	Comments:			
Diethyl Phthalate	ND	10	0.33	**Surrogate Recoveries (%)**			
2,4-Dimethylphenol	ND	10	0.33	2-Fluorophenol	70		
Dimethyl Phthalate	ND	10	0.33	Phenol-d5	77		
4,6-Dinitro-2-methylphenol	ND	50	1.6	Nitrobenzene-d5	86		
2,4-Dinitrophenol	ND	50	1.6	2-Fluorobiphenyl	85		
2,4-Dinitrotoluene	ND	10	0.33	2,4,6-Tribromophenol	111		
2,6-Dinitrotoluene	ND	10	0.33	p-Terphenyl-d14	89		

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

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

[#] surrogate diluted out of range

h) lighter than water immiscible sheen is present; i)liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

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Analytical Sciences P.O. Box 750336 Petaluma, CA 94975-0336	Client Project ID: #1049 AO (0092901)	Date Sampled: 09/29/00
		Date Received: 09/29/00
	Client Contact: Mark Valentini	Date Extracted: 09/29/00
	Client P.O:	Date Analyzed: 10/05/00

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	78991
Client ID	MW3 (00999)
Matrix	W

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	oncentration	Reporting Limit W	Reporting Limit S
Acenaphthene	ND	10	0.33	Di-n-octyl Phthalate	ND	10	0.33
Acenaphthylene	ND	10	0.33	1,2-Diphenylhydrazine	ND	10	0.33
Anthracene	ND	10	0.33	Fluoranthene	ND	10	0.33
Benzidine	ND	50	1.6	Fluorene	ND	10	0.33
Benzoic Acid	ND	50	1.6	Hexachlorobenzene	ND	10	0.33
Benzo(a)anthracene	ND	10	0.33	Hexachlorobutadiene	ND	10	0.33
Benzo(b)fluoranthene	ND	10	0.33	Hexachlorocyclopentadiene	ND	50	1.6
Benzo(k)fluoranthene	ND	10	0.33	Hexachloroethane	ND	10	0.33
Benzo(g,h,i)perylene	ND	10	0.33	Indeno(1,2,3-cd)pyrene	ND	10	0.33
Benzo(a)pyrene	ND	10	0.33	Isophorone	ND	10	0.33
Benzyl Alcohol	ND	20	0.66	2-Methylnaphthalene	ND	10	0.33
Bis(2-chloroethoxy)methane	ND	10	0.33	2-Methylphenol (o-Cresol)	ND	10	0.33
Bis(2-chloroethyl) Ether	ND	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND	10	0.33
Bis(2-chloroisopropyl)Ether	ND	10	0.33	Naphthalene	ND	10	0.33
Bis(2-ethylhexyl) Phthalate	ND	10	0.33	2-Nitroaniline	ND	50	1.6
4-Bromophenyl Phenyl Ether	ND	10	0.33	3-Nitroaniline	ND	50	1.6
Butylbenzyl Phthalate	ND	10	0.33	4-Nitroaniline	ND	50	1.6
4-Chloroanaline	ND	20	0.66	2-Nitrophenol	ND	50	1.6
4-Chloro-3-methylpheno[	ND	10	0.33	4-Nitrophenol	ND	50	1.6
2-Chloronaphthalene	ND	10	0.33	Nitrobenzene	ND	10	0.33
2-Chlorophenol	ND	10	0.33	N-Nitrosodimethylamine	ND	10	0.33
4-Chlorophenyl Phenyl Ether	ND	10	0.33	N-Nitrosodiphenylamine	ND	10	0.33
Chrysene	ND	10	0.33	N-Nitrosodi-n-propylamine	ND	10	0.33
Dibenzo(a,h)anthracene	ND	10	0.33	Pentachlorophenol	ND	50	1.6
Dibenzofuran	ND	10	0.33	Phenanthrene	ND	10	0.33
Di-n-butyl Phthalate	ND	10	0.33	Phenol	ND	10	0.33
1,2-Dichlorobenzene	ND	10	0.33	Pyrene	ND	10	0.33
1,3-Dichlorobenzene	ND	10	0.33	1,2,4-Trichlorobenzene	ND	10	0.33
1,4-Dichlorobenzene	ND	10	0.33	2,4,5-Trichlorophenol	ND	10	0.33
3,3-Dichlorobenzidine	ND	20	0.66	2,4,6-Trichlorophenol	ND	10	0.33
2,4-Dichlorophenol	ND	10	0.33	Comments:			
Diethyl Phthalate	ND	10	0.33	**Surrogate Recoveries (%)**			
2,4-Dimethylphenol	ND	10	0.33	2-Fluorophenol	36		
Dimethyl Phthalate	ND	10	0.33	Phenol-d5	41		
4,6-Dinitro-2-methylphenol	ND	50	1.6	Nitrobenzene-d5	43		
2,4-Dinitrophenol	ND	50	1.6	2-Fluorobiphenyl	44		
2,4-Dinitrotoluene	ND	10	0.33	2,4,6-Tribromophenol	65		
2,6-Dinitrotoluene	ND	10	0.33	p-Terphenyl-d14	49		

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

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

surrogate diluted out of range

h) lighter than water immiscible sheen is present; i)liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Ave. South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

QC REPORT

SVOCs (EPA 8270/625/525)

Date: 10/04/00-10/05/00 Matrix: Water

Extraction: N/A

Compound	Concentration: ug/L				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	
SampleID: 101000					Instrument: GC-8		
Surrogate1	0.000	420.0	450.0	1000.00	42	45	6.9
Pyrene	0.000	360.0	430.0	1000.00	36	43	17.7
Pentachlorophenol	0.000	390.0	460.0	1000.00	39	46	16.5
2,4-Dinitrotoluene	0.000	440.0	530.0	1000.00	44	53	18.6
Acenaphtene	0.000	580.0	640.0	1000.00	58	64	9.8
4-Nitrophenol	0.000	400.0	470.0	1000.00	40	47	16.1
4-Chloro-3-metylphenol	0.000	680.0	720.0	1000.00	68	72	5.7
1,2,4-trichlorobenzene	0.000	530.0	610.0	1000.00	53	61	14.0
N-nitroso-di-n-propyl	0.000	600.0	460.0	1000.00	60	46	26.4
1,4-Dichlorobenzene	0.000	400.0	440.0	1000.00	40	44	9.5
2-Chlorophenol	0.000	380.0	390.0	1000.00	38	39	2.6
Phenol	0.000	410.0	400.0	1000.00	41	40	2.5

$$\%\ \text{Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$\text{RPD} = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128
Fax (707) 769-8093

22240 ZA582

CHAIN OF CUSTODY

CLIENT INFORMATION

COMPANY NAME: Analytical Sciences
ADDRESS: 110 Liberty Street
Petaluma, CA. 94952
CONTACT: MARK VALENTINI
PHONE #: 707 769-3128
FAX #:

LAB PROJECT NUMBER:
CLIENT'S PROJECT NAME: 1049 AO (0092901)

TURNAROUND TIME (check one)

MOBILE LAB
SAME DAY
24 HOURS
48HOURS
72 HOURS
5 DAYS
NORMAL X

COOLER TEMPERATURE: Iced °C

COC
PAGE 1 OF 1

ANALYSIS (circle methods)

ITEM	CLIENT SAMPLE I.D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	TPH GAS/MBTEX EPA 8015/8020	TPH DIESEL EPA 8015	EPA 8010 / EPA 8260	TRPH	TOG	TOTAL LEAD / 5 LUFT METALS	OXYGENATES EPA 8260M	EPA 8270 (SV)	COMMENTS	LAB SAMPLE #
1	MW1 (00997)	9/29/00	12:10	W	1	N							X			48989
2	MW2 (00998)	9/29/00	13:05	W	1	N							X			48990
3	MW3 (00999)	9/29/00	13:33	W	1	N							X			48991
4																
5																
6																
7																
8																
9																
10																

SIGNATURES

RELINQUISHED BY: Mark A. Valentini — SIGNATURE
9/29/00 — DATE
5:18 pm — TIME
RECEIVED BY LABORATORY: Nma A. Butler — SIGNATURE
9/29/00 — DATE
TIME

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128
Fax (707) 769-8093

CHAIN OF CUSTODY

LAB PROJECT NUMBER: 0092901
CLIENT'S PROJECT NAME: 1049 9th Avenue Oakland
CLIENT'S PROJECT NUMBER:

CLIENT INFORMATION

COMPANY NAME: HARRIS & LEE ENVIRONMENTAL SCIENCES
ADDRESS: P.O. BOX 8369
SANTA ROSA, CA 95407
CONTACT: RICHARD ELY
PHONE#: (707) 571-8961
FAX #: (707) 571-8688

TURNAROUND TIME (check one)

MOBILE LAB ____
SAME DAY ____ 24 HOURS ____
48 HOURS ____ 72 HOURS ____
5 DAYS ____ NORMAL X

COOLER TEMBERATURE
ICED °C

COC
PAGE 1 OF 1

ANALYSIS

ITEM	CLIENT SAMPLE I..D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	TPH/GAS/BTEX & MTBE EPA 8015M/8020	TPH DIESEL EPA 8015M	OXYGENATED FUEL ADDITIVES EPA 8260M	VOLATILE HYDROCARBONS EPA 8260	CHLORINATED SOLVENTS EPA 8010	TRPH SM 5520F	SEMI-VOLATILE HYDROCARBONS EPA 8270	TOTAL LEAD	5 LUFT METALS	CAM 17 METALS	OIL & GREASE EPA 418.1			COMMENTS	LAB SAMPLE #
1	MW-1	9/29/00	12:10	water	9	yes	X	X			X		X				X				00997
2	MW-2	9/29/00	13:05	water	9	yes	X	X			X		X				X				00998
3	MW-3	9/29/00	13:33	water	9	yes	X	X			X		X				X				00999
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

RELINQUISHED BY: _____ SIGNATURE
9/29/00 DATE
4:26 pm TIME

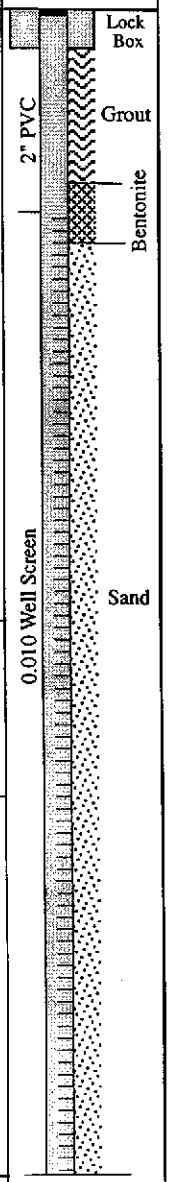
RECEIVED BY LABORATORY: Mark A. Valentini SIGNATURE
9/29/00 DATE
4:26 pm TIME

APPENDIX D

SOIL BORING LOGS

BORING LOCATION	1049 9th Avenue, Oakland, CA			ELEVATION/DATUM TOC 18.76 ft	BORING NO. MW-1
DRILLING AGENCY	Gregg Drilling	DRILLER	Rich	DATE STARTED / DATE FINISHED 08 Sep 00 →	08 Sep 00
DRILLING EQUIPMENT	Rhino D-15			COMPLETION DEPTH 20.0 ft	SAMPLER Push
DRILLING METHOD	Hollow Stem Auger	DRILL BIT	8 inches	NO. OF SAMPLES / DIST. 4	UNDIST. —
SIZE AND TYPE OF CASING	2.0 inch PVC	FROM 20.0 ft TO	0.2 ft	WATER LEVEL / FIRST 11.0 ft	COLLECTED /MEASURED None
TYPE OF PERFORATION:	0.01 inch Slotted	FROM 20.0 ft TO	3.5 ft	CORE BARREL 2.0 inches	LENGTH 18 inches
SIZE AND TYPE OF PACK	RMC #2/12 Sand	FROM 20.0 ft TO	4.0 ft	LOGGED BY: R. Ely	CHECKED BY:
TYPE OF SEAL NO. 1	Bentonite	FROM 4.0 ft TO	3.0 ft	COMMENTS:	
TYPE OF SEAL NO. 2	Portland Cement	FROM 3.0 ft TO	0.2 ft		

DEPTH (feet)	SAMPLES	RUN	MATERIAL DESCRIPTION	USCS
			Concrete Sidewalk.	
			Sandy Clay – 2 to 3 inch transitional, dark gray-brown.	
			SANDY CLAY (CL) – native soil, strong brown (7.3YR 5/6).	CL
5		1	Color change to dark brown (7.5YR 4.4), dry to moist, stiff.	
			Color change to grayish-green (10GY 5/2), dry, hard.	
10		2	SAND (SP), grayish-green (5G 4-5/2), wet, dense, well-sorted medium-grained sand, subrounded to rounded quartz with trace mafics; faint product odor.	SP
			SANDY SILT (ML), grayish-brown to grayish-green (10YR 5/2 to 10G 4/2) mottled brownish-yellow (10YR 6/6), damp, stiff, fine-grained sand with trace mica.	ML
15		3		
		4	SAND (SP) – 6 inch thick bed at 18.7-19.2 ft, olive-gray, damp, loose, well-sorted medium-grained sand (same as at 11 ft).	
20			TD: 20.0 ft bgs	



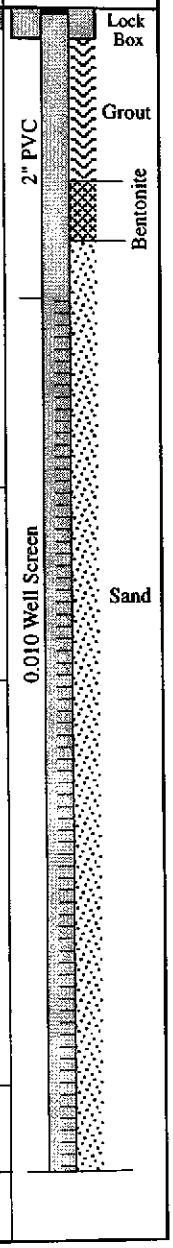
Harris & Lee Environmental Sciences

REVIEWED BY:	DATE:		SHEET NO.	OF
Richard Ely	September 2000	FIELD LOG OF BORING NO. MW-1	1	1

TRACE 235

BORING LOCATION	1049 9th Avenue, Oakland, CA			ELEVATION/DATUM TOC 17.77 ft	BORING NO. MW-2
DRILLING AGENCY	Gregg Drilling	DRILLER	Rich	DATE STARTED / DATE FINISHED	08 Sep 00 → 08 Sep 00
DRILLING EQUIPMENT	Rhino D-15			COMPLETION DEPTH 20.0 ft	SAMPLER Push
DRILLING METHOD	Hollow Stem Auger	DRILL BIT	8 inches	NO. OF SAMPLES / DIST 4	UNDIST. —
SIZE AND TYPE OF CASING	2.0 inch PVC	FROM 20.0 ft TO	0.2 ft	WATER LEVEL / FIRST None	COLLECTED /MEASURED None
TYPE OF PERFORATION:	0.01 inch Slotted	FROM 20.0 ft TO	5.0 ft	CORE BARREL 2.0 inches	LENGTH 18 inches
SIZE AND TYPE OF PACK	RMC #2/12 Sand	FROM 20.0 ft TO	4.0 ft	LOGGED BY: R. Ely	CHECKED BY:
TYPE OF SEAL NO. 1	Bentonite	FROM 4.0 ft TO	3.0 ft	COMMENTS:	
TYPE OF SEAL NO. 2	Portland Cement	FROM 3.0 ft TO	0.2 ft		

DEPTH (feet)	SAMPLES	RUN	MATERIAL DESCRIPTION	USCS
			Concrete Sidewalk.	
			SANDY CLAY (CL), brown (7.5YR 5/6) to dark brown (2.5YR 3/2), dry, stiff, medium- to coarse-grained sand of subangular to subrounded quartz with trace lithics.	CL
5		1		
			CLAYEY GRAVELLY SAND (SC), grayish-brown (2.3Y-5/2), moist, dense, poorly-sorted medium- to very coarse-grained sand, subangular to rounded mostly quartz with trace mafics and black chert (?), subrounded pebbles to 1 cm long of red and black chert.	SC
10		2		
			CLAYEY SILT (ML), light brownish-green (10YR 6/2) mottled yellowish-brown (10YR 5/4), moist, stiff, trace mica.	ML
15		3		
		4	SILTY SAND (SP), light brownish-gray (2.5Y 6/3) to olive yellow (2.5Y 6/6), moist, dense, well-sorted fine-grained sand.	SP
20			TD: 20.0 ft bgs	



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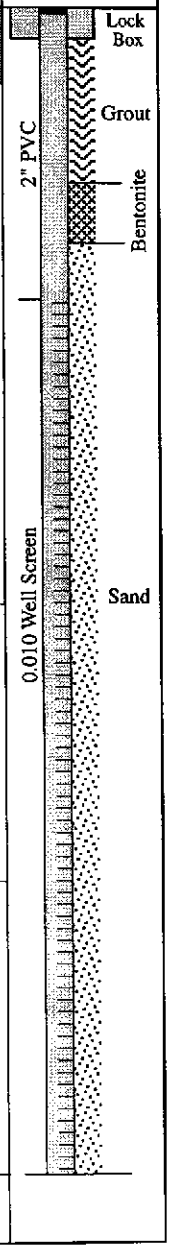
TRACE 235

REVIEWED BY:	DATE:	FIELD LOG OF BORING NO.	SHEET NO.
Richard Ely	September 2000	MW-2	1 OF 1

BORING LOCATION	1049 9th Avenue, Oakland, CA			ELEVATION/DATUM TOC 18.02 ft	BORING NO. MW-3
DRILLING AGENCY	Gregg Drilling	DRILLER	Rich	DATE STARTED / DATE FINISHED	08 Sep 00 → 08 Sep 00
DRILLING EQUIPMENT	Rhino D-15			COMPLETION DEPTH 20.0 ft	SAMPLER Push
DRILLING METHOD	Hollow Stem Auger	DRILL BIT	8 inches	NO. OF SAMPLES / DIST. 4	UNDIST. —
SIZE AND TYPE OF CASING	2.0 inch PVC	FROM 20.0 ft TO 0.2 ft		WATER LEVEL / FIRST None	COLLECTED /MEASURED None
TYPE OF PERFORATION:	0.01 inch Slotted	FROM 20.0 ft TO 5.0 ft		CORE BARREL 2.0 inches	LENGTH 18 inches
SIZE AND TYPE OF PACK	RMC #2/12 Sand	FROM 20.0 ft TO 4.0 ft		LOGGED BY: R. Ely	CHECKED BY:
TYPE OF SEAL NO. 1	Bentonite	FROM 4.0 ft TO 3.0 ft		COMMENTS:	
TYPE OF SEAL NO. 2	Portland Cement	FROM 3.0 ft TO 0.2 ft			

DEPTH (feet)	SAMPLES	RUN	MATERIAL DESCRIPTION	USCS
			Asphalt.	
			Road Gravel.	
			SANDY CLAY (CL), light olive gray (5Y 6/2), dry to damp, stiff, well-sorted fine-grained sand.	CL
5		1		
10		2	Same as above.	
			SAND (SP), brown to dark brown (10YR 3-5/3), moist, loose, well-sorted fine- to medium-grained sand, subangular to subrounded mostly quartz with trace mafics; trace quartz and chert pebbles to 4 mm long.	SP
15		3		
			CLAYEY SAND and SANDY CLAY (SC/CL), light brownish-gray (10YR 6/2) mottled yellowish-brown (10YR 5/4-6), well-sorted fine-grained sand.	SC/CL
		4	Same as above, except moderate-sorted fine- to medium-grained sand with trace coarse sand.	
20			TD: 20.0 ft bgs	



WELL CONSTRUCTION

Harris & Lee Environmental Sciences

REVIEWED BY:	DATE:		SHEET NO.
Richard Ely	September 2000	FIELD LOG OF BORING NO. MW-3	1 OF 1

TRACE 235