

BLYMYER
ENGINEERS, INC.

1829 Clement Avenue

Alameda, California 94501-1396

(510) 521-3773 FAX: (510) 865-2594

Alameda County Health Care Services Agency

1131 Harbor Bay Parkway, Suite 250

Alameda, CA 94502

LETTER OF TRANSMITTAL

DATE: 12/9/94	BEI Job No. 94047
ATTENTION MS. JULIET SHIN	
SUBJECT:	
FOUNTAIN CLEANERS	
2006 ENCINAL AVENUE	
ALAMEDA, CA 94501	

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- Copy of letter

- Report
- Prints
- Plans

- Work Order
- Change Order

- Specifications

Copies	Date	Number	Description
1	8/15/94		REPORT ON MONITORING WELL INSTALLATION
			FOUNTAIN CLEANERS
			2006 ENCINAL AVENUE
			ALAMEDA, CA 94502

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REMARKS:
THE ENCLOSED REPORT FOR MONITORING WELL INSTALLATION IS FORWARDED FOR YOUR USE.

COPY

SIGNED: MARK DETTERMAN/ds

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Fountain Cleaners
c/o Mr. Mike Yue
21955 Mission Blvd.
Hayward, CA 94541

**Subject: Report on Monitoring Well Installation
Fountain Cleaners, 2006 Encinal Avenue,
Alameda, California**

Dear Mr. Yue:

Blymyer Engineers, Inc. has completed the scope of work outlined in our December 4, 1992 proposal for the subject site (Figure 1). This letter represents a report, including tables, figures, and discussions of analytical results, of the subsurface investigation. The investigation was performed to begin to assess the extent of potential soil and groundwater contamination at the subject site by gasoline, the gasoline constituents benzene, toluene, ethylbenzene, and total xylenes (BTEX), diesel, heavy petroleum hydrocarbons, halogenated volatile organic compounds (VOCs), and five heavy metals.

1.0 Introduction

1.1 Background

On July 11, 1989, seven underground storage tanks (USTs) were removed from the subject site (Figure 2) according to the UST removal report prepared by Environmental Bio-Systems report (July 14, 1989). A list of the USTs follows:

- 1,000-gallon gasoline
- 1,000-gallon fuel oil
- 550-gallon diesel
- 300-gallon stoddard solvent
- 2,000-gallon "spent solvent" (as identified in the UST removal report)
- 1,000-gallon "solvent" (as identified in the UST removal report)
- 2,000-gallon slurry-filled (unknown)

Strong hydrocarbon odors were apparent during the removal (Environmental Bio-System, July 1989). Holes were observed in the 1,000-gallon fuel oil UST and in the 2,000-gallon spent solvent UST. The 2,000-gallon slurry-filled UST could not be observed for holes because it required sectioning within the excavation prior to removal. Soil sampling was performed in the presence of Mr. Larry Seto of the Alameda County Health Care Services Agency (ACHCSA). Five soil samples were collected to characterize the UST excavation and two composite samples were collected to characterize the excavated soil. The soil samples were analyzed for a

combination of Total Petroleum Hydrocarbons (TPH) as gasoline, TPH as diesel, BTEX, and Total Oil & Grease (TOG). No soil samples were analyzed for halogenated VOCs or metals. All of the soil samples contained detectable concentrations of petroleum (Table 1 and Figure 2). No subsurface investigation work has occurred since that time.

1.2 Site Conditions

The site is located near the southern corner of the intersection of Encinal Avenue and Chestnut Street in the city of Alameda, California (Figure 1). The property is located in a mixed residential and commercial area. A single story building is located on the western half of the site, and is the former location of the Fountain Cleaners (Figure 2). A second, approximately two-story building is located near the southern property line. The northeastern quarter of the site consists of a concrete paved parking lot, while the southeastern quarter is unpaved and is the location of the former tank complex. Five former vent lines, the removed portions of product or vent lines, and a fuel island were present at the site.

1.3 Scope of Work

The scope of work for this subsurface investigation included:

- Preparing a site-specific health and safety plan
- Obtaining all required permits
- Installing and developing one 2-inch-diameter monitoring well to a total depth of 20 feet
- Collecting soil samples at approximate 5-foot intervals
- Submitting soil samples for laboratory analysis
- Collecting a groundwater sample from the monitoring well
- Submitting the groundwater sample for laboratory analysis
- Drumming soil cuttings and development and purge water
- Preparing a letter report

2.0 Environmental Setting

2.1 Regional Geology and Site Geology

The site is located in the city of Alameda, formerly a part of the gently sloping East Bay Plain. The site is located approximately 0.7 miles northeast of the San Francisco Bay, at an approximate elevation of 27 feet above the National Geodetic Vertical Datum.

The San Francisco Bay Area is a northwest-southeast trending region within the Coast Range Province of California. Rocks within the region range from Jurassic-aged sedimentary, metamorphic, and plutonic basement rocks to Holocene alluvium. The geologic structure of the region is dominated by a major fault system which includes the San Andreas Fault on the west side of the San Francisco Bay and the Hayward Fault at the base of the Berkeley Hills on the east side of the Bay. These faults are the result of the forces which have uplifted the Coast Range and dropped the section now covered by the open water of the San Francisco Bay and Quaternary alluvium (Goldman, 1967).

Alameda is currently an island, but was historically connected to a portion of the city of Oakland. In the late 1800s, a channel was dredged to eliminate the land connection. Alameda was formed as a near-shore deposit known as Merritt Sand. The Merritt Sand is a loose, well-sorted, fine- to medium-grained sand and silt, with lenses of sandy clay and clay (Hickenbottom, et al., 1988). The sands grade literally into the surrounding Bay Mud deposits. Except for the recent fill portions of the island, the generalized local stratigraphy in Alameda consists of approximately 50 feet of Merritt Sand overlying several hundred feet of older alluvium (Hickenbottom et al., 1988).

3.0 Data Collection

3.1 Soil Investigation

3.1.1 Soil Sample Collection

On June 9, 1994, one 8-inch outside diameter soil bore (MW-1, Figure 2) was installed under the supervision of a Blymyer Engineers registered geologist by Gregg Drilling and Testing, Inc. (Gregg Drilling) using a Simco 2400 limited-access hollow-stem auger drill rig. A drilling permit was obtained from the Zone 7 Water Agency and is included as Appendix A. Soil samples were collected at approximately 5-foot depth intervals including just above the soil-groundwater interface. The augers were advanced to the desired sampling depth and a 1.5-inch-diameter split-spoon sampler, lined with three clean, 6-inch-long brass sleeves, was driven 18 inches ahead of the augers by a hydraulic hammer. Consequently, blow counts were not generated in the

sampling process. The sampler was retrieved and the brass sleeves removed. The desired sample was sealed in its brass sleeve with a Teflon[®] sheet, plastic end-caps, and adhesiveless silicone tape, labeled, and placed on ice for transportation to the analytical laboratory. Proper chain-of-custody procedures were observed. Soil samples were field-screened for organic vapors using a photoionization detector (PID). Unified Soil Classifications and PID results are shown in the bore log (Appendix B).

The hollow-stem augers used in the drilling process were steam cleaned prior to the commencement of drilling. All down-hole sampling equipment was decontaminated prior to the initial drilling and sampling and before each subsequent sampling event to prevent cross contamination. The decontamination procedure consisted of a three-bucket wash of tap water and detergent, a tap water rinse, and a distilled water rinse.

All drill cuttings from the well installation are stored at the site in labeled, Department of Transportation approved, 55-gallon drums for later disposal by the owner.

3.1.2 Soil Sample Analytical Methods and Results

The soil samples were analyzed by NET, Inc., a California-certified laboratory, on a standard turnaround.

Soil samples were collected at depths of 6.5 to 7.0 feet below ground surface (bgs), and 10 to 10.5 feet bgs, and were submitted for analysis. The samples were analyzed for TPH as gasoline and as diesel by modified EPA Method 8015, BTEX by EPA Method 8020, TOG by Standard Method 5520 E & F, halogenated hydrocarbons by EPA Method 8010, and total cadmium, chromium, lead, nickel, and zinc by inductively-coupled argon plasma spectroscopy (ICAP).

The soil sample analytical results are summarized in Tables II and III, and the full laboratory report is included in Appendix C.

3.2 Groundwater Investigation

3.2.1 Monitoring Well Installation and Development

The soil bore was converted to a 2-inch-diameter groundwater monitoring well. Two-inch-diameter PVC casing with 0.010-inch factory slots was lowered through the center of the hollow-stem augers and set at the depth of 9 to 19 feet bgs. The slotted casing interval was selected based on the apparent depth to saturated soil. Solid PVC casing was placed through the augers to complete the well from the top of the slotted casing to the ground surface. The annular space around the casing from the bottom of the bore to 2 feet above the slotted casing was filled with

number 2/16 filter pack sand. An approximately 2-foot-thick bentonite seal was placed in the annular space above the filter pack. The annular space from the bentonite seal to 1 foot bgs was filled with cement grout. A traffic-bearing well vault was set in concrete at the surface. The surface seal was raised approximately 1/2 inch above grade so surface water would drain away from the well. A locking cap was placed on the top of the PVC casing. All casing joints were flush threaded, and no glues or solvents were used in the construction of the wells. Well construction details are included on the bore log in Appendix B.

The well was developed by Gregg Drilling on June 15, 1994. The well was developed by swabbing and bailing the well approximately 5 days after installation. Approximately 28 well casing volumes were removed from the well during the development process. Development and decontamination water is stored at the site in labeled, DOT-approved, 55-gallon drums for later disposal by the owner. A copy of the Gregg Drilling development report, dated June 15, 1994, is included as Appendix D.

3.2.2 Groundwater Sample Collection

The depth to groundwater in monitoring well MW-1 was measured on June 20, 1994, from the top of the well casing (TOC) using a depth-to-water gauge. The depth-to-water gauge is manufactured to be accurate to the nearest 0.01 feet. The measured depth to groundwater was 6.96 feet bgs. The well was purged of approximately three casing volumes of water. The temperature, pH, conductivity, and turbidity of the purged groundwater were monitored to insure that these parameters were within 15 percent of the previous measurement prior to sampling. The groundwater sample was collected using a clear disposable polyethylene bailer. A petroleum hydrocarbon sheen was noted on the groundwater samples collected. A copy of the Well Purging and Sampling Data form is included as Appendix E and groundwater level measurements are included in Table IV.

The purge water was stored at the site in labeled, DOT-approved, 55-gallon drums for later disposal by the owner.

3.2.3 Groundwater Sample Analytical Methods and Results

The groundwater samples were submitted to NET, Inc. for analysis for TPH as gasoline and as diesel by modified EPA Method 8015, BTEX by EPA Method 8020, TOG by Standard Method 5520 D & F, halogenated hydrocarbons by EPA Method 8010, and total cadmium, chromium, lead, nickel, zinc by ICAP. Chain-of-custody procedures were followed for the sample. The laboratory's standard quality assurance and quality control procedures were followed by the laboratory.

The groundwater sample analytical results are summarized in Tables V and VI, and the full laboratory report is included in Appendix C.

4.0 Data Interpretation

4.1 Site Stratigraphy

Fine- to medium-grained sand with silt was encountered from the surface to the maximum explored depth of 20 feet. On June 9, 1994, groundwater was initially encountered at a depth of approximately 11 feet bgs during drilling, and stabilized at approximately 12 feet after well construction. Groundwater was encountered at approximately 7 feet bgs during the well development and groundwater sampling events on June 15, and June 20, 1994 (Table IV).

But screened from 9' bgs.

4.2 Discussion of Soil Sample Analytical Results

The soil sample analytical results indicate the presence of TPH as gasoline, TPH as diesel, non-polar oil and grease, and BTEX in the soils of the site (Tables II and III). The laboratory reports generally indicate that the petroleum hydrocarbon detected in the Modified EPA Method 8015 analysis was heavier than gasoline, but lighter than diesel. This may indicate that stoddard solvent may be the dominant hydrocarbon contaminant at the site. Total xylenes appears to be the dominant volatile hydrocarbon present at the site. Halogenated VOCs were not detected in the soil samples.

The metals cadmium, chromium, lead, nickel, and zinc, were detected in the soil samples submitted for analysis below Total Threshold Limit Concentration (TTLC) values and below the "rule-of-thumb" 10 times the Soluble Threshold Limit Concentration (STLC) value. Cadmium, lead, and nickel were also below each respective STLC value. Please refer to table II and III for a listing of the appropriate TTLC and STLC value.

4.3 Discussion of Groundwater Sample Analytical Results

The groundwater sample analytical results indicate the presence of TPH as gasoline, TPH as diesel, toluene, ethylbenzene, and total xylenes in the groundwater sampled at the site (Tables V and VI). The laboratory reports that the petroleum hydrocarbon detected in the Modified EPA Method 8015 analysis was heavier than gasoline. Again, this may indicate that stoddard solvent may be the dominant hydrocarbon contaminant at the site. Total xylenes appears to be the dominant volatile hydrocarbon present at the site. Toluene was detected in the groundwater below the Action Level (AL) of 100 parts per billion (ppb). Ethylbenzene and total xylenes were detected in the groundwater at less than their respective Maximum Contaminant Levels (MCLs)

of 680 ppb and 1,750 ppb. Please refer to Table V for a listing of the appropriate MCL or AL. Total and non-polar oil and grease were not detected in the groundwater sampled.

The halogenated VOCs cis-1,2 Dichloroethene, 1,2- Dichloropropane, and Trichloroethene were detected in the groundwater sample. These VOCs were detected at, or below, their respective MCL. Please refer to Table VI for a listing of the appropriate MCLs. The metals cadmium, chromium, lead, nickel, and zinc were not detected in the groundwater sample.

5.0 References

Environmental Bio-System, July 14, 1989, untitled report on tank removal: Unpublished Technical Report for the Zaccor Corporation, 7 p.

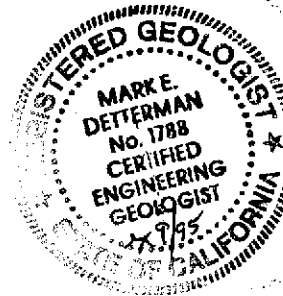
Goldman, Harold B., 1967, *Geology of San Francisco Bay*: San Francisco, California Division of Mines and Geology, prepared for the San Francisco Bay Conservation and Development Commission, 58 p.

Hickenbottom, Kelvin, and Muir, Kenneth, 1988, *Geohydrology and Groundwater Quality Overview of the East Bay Plain Area, Alameda County, California, 205(J) Report*: San Francisco, submitted to the San Francisco Bay Regional Water Quality Control Board, 83 p.

If you have any questions about the contents of this report, please call the undersigned at (510) 521-3773.

Sincerely,

Blymyer Engineers, Inc.



By: Mark E. Detterman
Mark E. Detterman, C.E.G. 1788
Senior Geologist

And: John Morrison
John Morrison, R.G. 5773
Director, Earth Sciences

Enclosures:	Table I	Summary of UST Removal Soil Sample Analytical Results
	Table II	Summary of Petroleum Hydrocarbon Soil Sample Analytical Results
	Table III	Summary of Halogenated VOCs and Metal Soil Sample Analytical Results
	Table IV	Groundwater Level Measurements
	Table V	Summary of Petroleum Hydrocarbon Groundwater Sample Analytical Results
	Table VI	Summary of Halogenated VOCs and Metal Groundwater Sample Analytical Results
	Figure 1	Site Location Map
	Figure 2	Site Plan
	Appendix A	Drilling Permit
	Appendix B	Boring Log and Well Construction Details
	Appendix C	Soil and Groundwater Analytical Results
	Appendix D	Monitoring Well Development Log
	Appendix E	Well Purging and Sampling Data Form

Table I, Summary of UST Removal Soil Sample Analytical Results
BEI Job No. 94047, Fountain Cleaners
2006 Encinal Avenue, Alameda, California

Sample I.D.	Sample Date	Depth (feet)	TPH as Diesel Modified EPA Method 8015 (mg/kg)	Total Oil and Grease Standard Method 5520E/F (mg/kg)	TPH as Gasoline Modified EPA Method 8015 (mg/kg)	Benzene EPA Method 8020 (mg/kg)	Toluene EPA Method 8020 (mg/kg)	Ethyl-benzene EPA Method 8020 (mg/kg)	Total Xylenes EPA Method 8020 (mg/kg)
#1	7/10/89	6	NR	NR	9,000	54	110	220	1,700
#2	7/10/89	9.5	1,500	700	26	<0.1	<0.1	<0.1	<0.1
#3	7/10/89	9.5	36	<50	15	<0.1	<0.1	<0.1	<0.1
#4	7/10/89	9	NR	NR	22	<0.1	<0.1	<0.1	<0.1
#5	7/10/89	8	36	NR	11	<0.1	<0.1	<0.1	<0.1
6A-D*	7/11/89	NA	4,200	1,600	55	<0.1	<0.1	<0.1	0.5
7A-D*	7/11/89	NA	2,400	1,200	58	<0.1	<0.1	<0.1	0.6

Notes: Soil samples collected and reported by Environmental Bio-Systems in the untitled report dated July 14, 1989, to the Zaccor Corporation.

- <x = less than the analytical method detection limit (x)
- EPA = Environmental Protection Agency
- mg/kg = milligrams per kilogram
- TPH = Total Petroleum Hydrocarbons
- NR = Not Requested
- NA = Not Applicable
- * = Samples of stockpiled soil from UST removal

Table II, Summary of Petroleum Hydrocarbon Soil Sample Analytical Results
BEI Job No. 94047, Fountain Cleaners
2006 Encinal Avenue, Alameda, California

Sample I.D.	Sample Date	Depth (feet)	TPH as Diesel Modified EPA Method 8015 (mg/kg)	Oil and Grease (Total/Non-Polar) EPA Method 5520E/F (mg/kg)	TPH as Gasoline Modified EPA Method 8015 (mg/kg)	Benzene EPA Method 8020 (µg/kg)	Toluene EPA Method 8020 (µg/kg)	Ethylbenzene EPA Method 8020 (µg/kg)	Total Xylenes EPA Method 8020 (µg/kg)
MW-1	6/9/94	6.5	4,000*	250/200	4,100	640	550	<500	20,000
MW-1	6/9/94	10	17,000*	5,800/910	5,500**	<2500	<2500	5,200	46,000

Notes:

- <x = less than the analytical method detection limit (x)
- EPA = Environmental Protection Agency
- mg/kg = milligrams per kilogram
- µg/kg = micrograms per kilogram
- TPH = Total Petroleum Hydrocarbons
- * = Lab reports the results appear to be a lighter hydrocarbon than diesel
- ** = Lab reports the result appears to be a heavier hydrocarbon than gasoline

Table III. Summary of Halogenated VOCs and Metal Soil Sample Analytical Results
BEI Job No. 94047, Fountain Cleaners
2006 Encinal Avenue, Alameda, California

Sample I.D.	Sample Date	Depth (feet)	Halogenated VOCs EPA Method 8010 (µg/kg)	Cadmium EPA Method 6010 (mg/kg)	Chromium EPA Method 6010 (mg/kg)	Lead EPA Method 7421 (mg/kg)	Nickel EPA Method 6010 (mg/kg)	Zinc EPA Method 6010 (mg/kg)
MW-1	6/9/94	6.5	<2	<2.0	44	3.6	29	19
MW-1	6/9/94	10	<2	<2.0	47	3.1	42	25
STLC	NA	NA	NA	1.0	5	5	20	250
TTLIC	NA	NA	NA	100	2,500	1,000	2,000	5,000

- Notes:
- VOCs = Halogenated Volatile Organic Compounds
 - cis-1,2 DCE = cis-1,2 Dichloroethene
 - TCE = Trichloroethene
 - <x = less than the analytical method detection limit (x)
 - EPA = Environmental Protection Agency
 - mg/kg = milligrams per kilogram
 - µg/kg = micrograms per kilogram
 - NA = Not Applicable
 - STLC = Soluble Threshold Limit Concentration
 - TTLIC = Total Threshold Limit Concentration

**Table IV, Groundwater Level Measurements
BEI Job No. 94047, Fountain Cleaners
2006 Encinal Avenue, Alameda, California**

Well I.D.	Date Measured	TOC elevation (feet)*	Depth to Water (feet from TOC)	Water Surface Elevation (feet)*
MW-1	6/20/94	NM	6.96	NA

Notes:

- TOC = Top of Casing
- NM = Not Measured
- NA = Not Applicable

Table V, Summary of Petroleum Hydrocarbon Groundwater Sample Analytical Results
BEI Job No. 94047, Fountain Cleaners
2006 Encinal Avenue, Alameda, California

Sample I.D.	Sample Date	TPH as Diesel	Oil and Grease (Total/Non-Polar)	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Total Xylenes
		Modified EPA Method 8015 (mg/L)	EPA Method 5520E/F (mg/L)	Modified EPA Method 8015 (mg/L)	EPA Method 8020 (µg/L)	EPA Method 8020 (µg/L)	EPA Method 8020 (µg/L)	EPA Method 8020 (µg/L)
MW-1	6/9/94	9.1*	<5/<5	6.1	<0.5	20	37	100
Regulatory Level	NA	NA	NA	NA	1.0 (MCL)	100 (AL)	680 (MCL)	1,750 (MCL)

Notes:

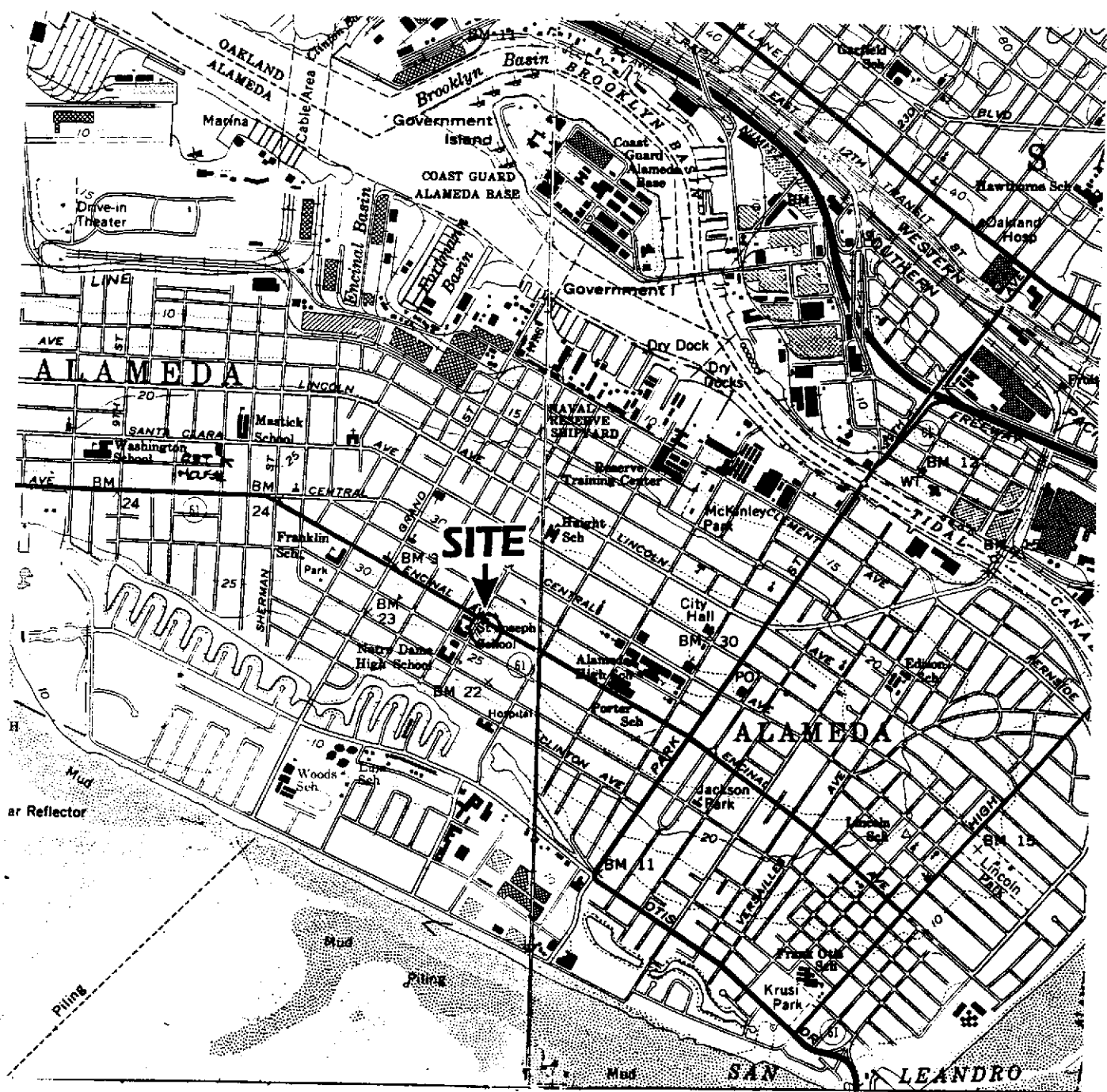
- <x = less than the analytical method detection limit (x)
- EPA = Environmental Protection Agency
- mg/L = milligrams per Liter
- µg/L = micrograms per Liter
- TPH = Total Petroleum Hydrocarbons
- * = Lab reports the results appear to be a lighter hydrocarbon than diesel
- MCL = Maximum Contaminant Level
- AL = Action Level

Table VI. Summary of Halogenated VOCs and Metal Groundwater Sample Analytical Results
BEI Job No. 94047, Fountain Cleaners
2006 Encinal Avenue, Alameda, California

Sample I.D.	Sample Date	cis-1,2 DCE EPA Method 8010 (µg/L)	1,2-Dichloro-propane EPA Method 8010 (µg/L)	TCE EPA Method 8010 (µg/L)	Cadmium EPA Method 6010 (mg/L)	Chromium EPA Method 6010 (mg/L)	Lead EPA Method 7421 (mg/L)	Nickel EPA Method 6010 (mg/L)	Zinc EPA Method 6010 (mg/L)
MW-1	6/9/94	5.1	5.0	3.8	<0.02	<0.02	<0.002	<0.05	<0.05
MCL	NA	6.0	5.0	5.0	10.0	50.0	50.0	100	5*

Notes:

- VOCs = Chlorinated Volatile Organic Compounds
- cis-1,2 DCE = cis-1,2 Dichloroethene
- TCE = Trichloroethene
- <x = less than the analytical method detection limit (x)
- EPA = Environmental Protection Agency
- mg/L = milligrams per Liter
- µg/L = micrograms per Liter
- MCL = Maximum Contaminant Level
- * = Secondary MCL



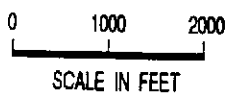
SOURCE: UNITED STATES GEOLOGICAL SURVEY 7.5' QUAD. "OAKLAND WEST, CA" AND "OAKLAND EAST, CA" BOTH PHOTOREVISED 1980.



QUADRANGLE LOCATION



BLYMYER
ENGINEERS, INC.



SITE LOCATION MAP

FOUNTAIN CLEANERS
2006 ENCINAL AVE.
ALAMEDA, CA

FIGURE

1

BEI JOB NO. 94047

DATE 8/5/94



Client Acct: 49500
 Client Name: Blymyer Engineers, Inc
 NET Job No: 94.02454

Date: 06/27/1994
 ELAP Certificate: 1386
 Page: 2

Ref: Fountain Cleaners, Job No. 94047

SAMPLE DESCRIPTION: MW-1-6.5
 Date Taken: 06/09/1994
 Time Taken: 13:10
 NET Sample No: 196736

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Oil & Grease (Total)	250		50	mg/kg	5520E		06/16/1994
Oil & Grease (Non-Polar)	200		50	mg/kg	5520E/F		06/16/1994
ICP METALS SOLID	--						
Cadmium (ICP)	ND		2.0	mg/kg	EPA 6010	06/17/1994	06/21/1994
Chromium (ICP)	44		2.0	mg/kg	EPA 6010	06/17/1994	06/21/1994
Lead (GFAA)	3.6	*	0.2	mg/kg	EPA 7421	06/17/1994	06/21/1994
Nickel (ICP)	29 ^b		5.0	mg/kg	EPA 6010	06/17/1994	06/21/1994
Zinc (ICP)	19		5.0	mg/kg	EPA 6010	06/17/1994	06/21/1994
TPH (Gas/BTEX,Solid)							
METHOD 5030/M8015	--						06/15/1994
DILUTION FACTOR*	200						06/15/1994
as Gasoline	4,100	FH	1	mg/kg	5030		06/16/1994
METHOD 8020 (GC,Solid)	--						06/15/1994
Benzene	640		500	ug/kg	8020		06/15/1994
Toluene	550		500	ug/kg	8020		06/15/1994
Ethylbenzene	ND		500	ug/kg	8020		06/15/1994
Xylenes (Total)	20,000		500	ug/kg	8020		06/15/1994
SURROGATE RESULTS	--						06/15/1994
Bromofluorobenzene (SURR)	159	MI		µ Rec.	5030		06/15/1994
METHOD M8015 (EXT., Solid)						06/14/1994	
DILUTION FACTOR*	250						06/15/1994
as Diesel	4,000	DL	200	mg/kg	3550		06/15/1994

* : RPD between sample duplicates exceeds 20%.

DL : The positive result appears to be a lighter hydrocarbon than Diesel.

FH : Compound quantitated at a 500X dilution factor.

MI : Matrix Interference Suspected

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 49500
Client Name: Blymyer Engineers, Inc
NET Job No: 94.02454

Date: 06/27/1994
ELAP Certificate: 1386
Page: 3

Ref: Fountain Cleaners, Job No. 94047

SAMPLE DESCRIPTION: MW-1-6.5
Date Taken: 06/09/1994
Time Taken: 13:10
NET Sample No: 196736

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Solid)							
DILUTION FACTOR*	1						06/16/1994
Bromodichloromethane	ND		2.0	ug/kg	8010		06/16/1994
Bromoform	ND		2.0	ug/kg	8010		06/16/1994
Bromomethane	ND		2.0	ug/kg	8010		06/16/1994
Carbon tetrachloride	ND		2.0	ug/kg	8010		06/16/1994
Chlorobenzene	ND		2.0	ug/kg	8010		06/16/1994
Chloroethane	ND		2.0	ug/kg	8010		06/16/1994
2-Chloroethylvinyl ether	ND		5.0	ug/kg	8010		06/16/1994
Chloroform	ND		2.0	ug/kg	8010		06/16/1994
Chloromethane	ND		2.0	ug/kg	8010		06/16/1994
Dibromochloromethane	ND		2.0	ug/kg	8010		06/16/1994
1,2-Dichlorobenzene	ND		2.0	ug/kg	8010		06/16/1994
1,3-Dichlorobenzene	ND		2.0	ug/kg	8010		06/16/1994
1,4-Dichlorobenzene	ND		2.0	ug/kg	8010		06/16/1994
Dichlorodifluoromethane	ND		2.0	ug/kg	8010		06/16/1994
1,1-Dichloroethane	ND		2.0	ug/kg	8010		06/16/1994
1,2-Dichloroethane	ND		2.0	ug/kg	8010		06/16/1994
1,1-Dichloroethene	ND		2.0	ug/kg	8010		06/16/1994
trans-1,2-Dichloroethene	ND		2.0	ug/kg	8010		06/16/1994
1,2-Dichloropropane	ND		2.0	ug/kg	8010		06/16/1994
cis-1,3-Dichloropropene	ND		2.0	ug/kg	8010		06/16/1994
trans-1,3-Dichloropropene	ND		2.0	ug/kg	8010		06/16/1994
Methylene chloride	ND		50	ug/kg	8010		06/16/1994
1,1,2,2-Tetrachloroethane	ND		2.0	ug/kg	8010		06/16/1994
Tetrachloroethene	ND		2.0	ug/kg	8010		06/16/1994
1,1,1-Trichloroethane	ND		2.0	ug/kg	8010		06/16/1994
1,1,2-Trichloroethane	ND		2.0	ug/kg	8010		06/16/1994
Trichloroethene	ND		2.0	ug/kg	8010		06/16/1994
Trichlorofluoromethane	ND		2.0	ug/kg	8010		06/16/1994
Vinyl chloride	ND		2.0	ug/kg	8010		06/16/1994
SURROGATE RESULTS	--						06/16/1994
1,4-Difluorobenzene (SURR)	90			% Rec.			06/16/1994
Bromochloromethane (SURR)	80			% Rec.			06/16/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Acct: 49500
 Client Name: Blymyer Engineers, Inc
 NET Job No: 94.02454

Date: 06/27/1994
 ELAP Certificate: 1386
 Page: 4

Mountain Cleaners, Job No. 94047

MW-1-10
 06/09/1994
 13:20
 196737

	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
lar)	5,800		50	mg/kg	5520E		06/16/1994
	910		50	mg/kg	5520E/F		06/16/1994
	--						06/21/1994
	ND		2.0	mg/kg	EPA 6010	06/17/1994	06/21/1994
	47		2.0	mg/kg	EPA 6010	06/17/1994	06/21/1994
	3.1		0.2	mg/kg	EPA 7421	06/17/1994	06/21/1994
	42		5.0	mg/kg	EPA 6010	06/17/1994	06/21/1994
	25		5.0	mg/kg	EPA 6010	06/17/1994	06/21/1994
	--						06/16/1994
	1,000						06/16/1994
l)	5,500	GH	1000	mg/kg	5030		06/16/1994
	--						06/16/1994
	ND		2500	ug/kg	8020		06/16/1994
	ND		2500	ug/kg	8020		06/16/1994
	5,200		2500	ug/kg	8020		06/16/1994
	46,000		2500	ug/kg	8020		06/16/1994
	--						06/16/1994
RR)	132	MI		‡ Rec.	5030		06/16/1994
							06/16/1994
lid)						06/14/1994	
	1,000						06/15/1994
	17,000	DL	1000	mg/kg	3550		06/15/1994

appears to be a lighter hydrocarbon than Diesel.
 appears to be a heavier hydrocarbon than Gasoline.
 be Suspected

ly to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Acct: 49500

Client Name: Blymyer Engineers, Inc

NET Job No: 94.02454

Date: 06/27/1994

ELAP Certificate: 1386

Page: 5

ntain Cleaners, Job No. 94047

4W-1-10

06/09/1994

3:20

.96737

Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
1						
ND		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
er		5.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
e		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
ne		2.0	ug/kg	8010		06/16/1994
ND		50	ug/kg	8010		06/16/1994
te		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
ND		2.0	ug/kg	8010		06/16/1994
--						06/16/1994
)	329	MI	% Rec.			06/16/1994
	84		% Rec.			06/16/1994
						06/16/1994

Suspected

to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 49500
 Client Name: Blymyer Engineers, Inc
 NET Job No: 94.02454

Date: 06/27/1994
 ELAP Certificate: 1386
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Ref: Fountain Cleaners, Job No. 94047

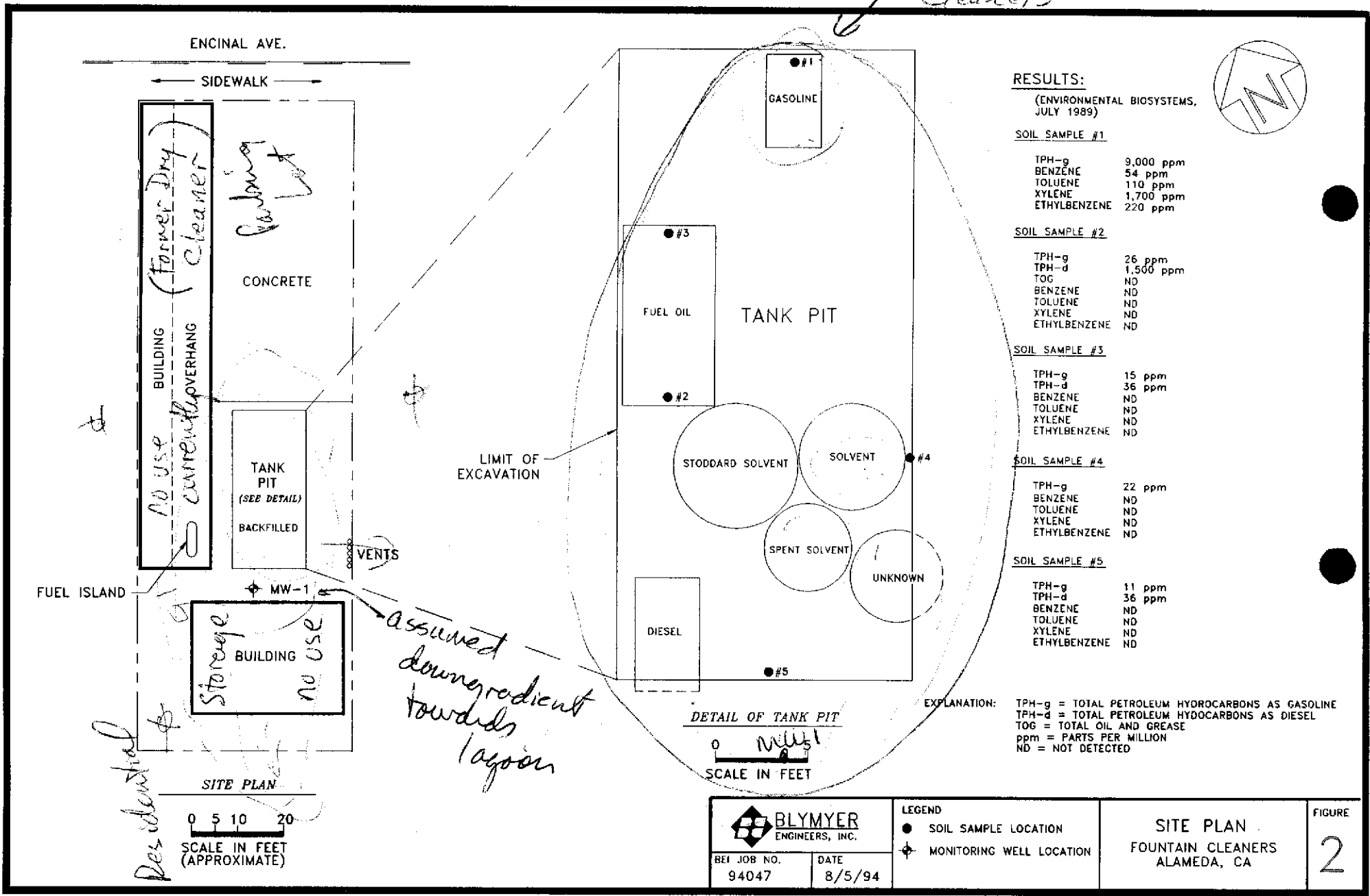
CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Units	Date Analyzed	Analyst Initials
	Standard % Recovery	Standard Amount Found	Standard Amount Expected			
Lead (ICP)	101.0	1.010	1.00	mg/L	06/21/1994	jeo
Chromium (ICP)	103.0	1.030	1.00	mg/L	06/21/1994	jeo
Lead (GFAA)	104.0	0.0260	0.0250	mg/kg	06/21/1994	djm
Cadmium (ICP)	101.3	1.013	1.00	mg/L	06/21/1994	jeo
Mercury (ICP)	99.2	0.992	1.00	mg/L	06/21/1994	jeo
PH (Gas/BTEX, Solid)						
Gas Gasoline	102.2	5.11	5.00	mg/kg	06/16/1994	pbg
Benzene	100.0	25.0	25.0	ug/kg	06/16/1994	pbg
Toluene	96.8	24.2	25.0	ug/kg	06/16/1994	pbg
Ethylbenzene	94.8	23.7	25.0	ug/kg	06/16/1994	pbg
Xylenes (Total)	97.1	72.8	75.0	ug/kg	06/16/1994	pbg
Monofluorobenzene (SURR)	90.0	90	100	ug/kg	06/16/1994	pbg
THOD M8015 (EXT., Solid)				% Rec.	06/16/1994	pbg
Diesel	112.0	1120	1000	mg/kg	06/15/1994	fyt

Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

2006 Encinal Ave, Alameda

Crystal Cleaners





ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600

FAX (510) 482-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Fountain Cleaners
2006 Encinal Ave.
Alameda, CA

PERMIT NUMBER 94337
LOCATION NUMBER _____

CLIENT

Name Mike Woo
Address 2195 Mission Blvd. Voice 510/582-3169
City Hayward CA Zip 94541

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT

Name Mark Jettaman
Blumens Engineering, Inc. Fax 510/805-2574
Address 1509 Alhambra Ave. Voice 510/521-3773
City Alameda, CA Zip 94501

TYPE OF PROJECT

Well Construction	Geotechnical Investigation
Cathodic Protection _____	General _____
Water Supply _____	Contamination _____
Monitoring <u>X</u>	Well Destruction _____

PROPOSED WATER SUPPLY WELL USE

Domestic _____	Industrial _____	Other _____
Municipal _____	Irrigation _____	

DRILLING METHOD:

Mud Rotary _____ Air Rotary _____ Auger Hollow Stem
Cable _____ Other _____

DRILLER'S LICENSE NO. _____

WELL PROJECTS

Drill Hole Diameter <u>8</u> in.	Maximum
Casing Diameter <u>2</u> in.	Depth <u>20</u> ft.
Surface Seal Depth <u>8</u> ft.	Number <u>1</u>

GEOTECHNICAL PROJECTS

Number of Borings _____	Maximum
Hole Diameter _____ in.	Depth _____ ft.

ESTIMATED STARTING DATE 6/9/94
ESTIMATED COMPLETION DATE 6/9/94

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S

SIGNATURE Mark Jettaman Date 5/26/94

- A. GENERAL**
 1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
 3. Permit is void if project not begun within 90 days of approval date.
- B. WATER WELLS, INCLUDING PIEZOMETERS**
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
- C. GEOTECHNICAL.** Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.
- D. CATHODIC.** Fill hole above anode zone with concrete placed by tremie.
- E. WELL DESTRUCTION.** See attached.

Approved Wyman Hong Date 6 Jun 94
Wyman Hong

Appendix B
Boring Log
and
Well Construction Details

BLMYER

ENGINEERS, INC.

BORING & WELL CONSTRUCTION LOG: MW-1 Page 1 of 1

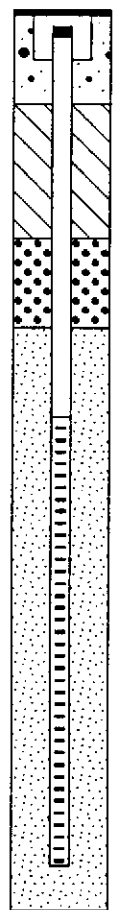
Job No: 94047
 Client: Fountain Cleaners
 Site: 2008 Encinal Avenue
 Alameda, CA
 Date Drilled: 8/9/94
 Sample Container: 1" Brass Tube

Driller: Ted/Moe
 Drilling Contractor: Gregg Drilling
 Logged By: M. Detterman
 Drilling Equipment: Simco 2400, limited access
 Bore Diameter: 8 in.
 Total Depth: 20 Ft.

Well Completion Depth: 20'	
Component Size/Type	Depths in Feet From To
Surface Completion: Flush Mount Traffic Rated Vault w/Locking Cap	
Blank Casing: 2" Diam./PVC	.0 9.0
Slotted Casing: 0.010" Slot - 2" Diam./PVC	9.0 19.0
Filter Pack: #2 - 16 Sand	7.0 19.0
Seal: Bentonite	5.0 7.0
Annular Seal: Cement	1.0 5.0
Surface Seal: Concrete	.0 1.0
Bottom Seal: N/A	

Initial Water Level: ∇ 11 ft.
 Stabilized water level: ∇ 12 ft.

Depth (ft)	Blows/6 In.	P.I.D. (ppm)	Samples	DESCRIPTION	Unified Soil Classification	Graphic Log	Water Depth
0				Light brown fine to medium silty SAND, dry, damp @ 1/2"			
				Grades to dark brown			
5				Dark green, strong odor			
		877	■				
		768	■				
10				Slightly stiffer, trace silt, very moist Wet @ 11"	SM		∇ 11" ∇ 12"
		5.4	■				
15				As above, silt 5%-10%			
		14.5	■	Mottled medium green to medium brown silty SAND Medium brown			
20				Bore Terminated at 20'			
25							
30							



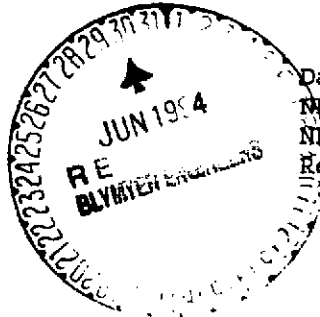
Appendix C
Soil and Groundwater
Analytical Results



NATIONAL
ENVIRONMENTAL
TESTING, INC.

Santa Rosa Division
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

Mark Detterman
Blymyer Engineers, Inc
1829 Clement Ave
Alameda, CA 94501



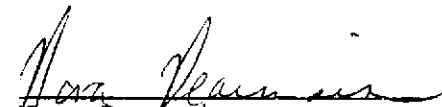
Date: 06/27/1994
NET Client Acct. No: 49500
NET Pacific Job No: 94.02454
Received: 06/11/1994


Client Reference Information

Fountain Cleaners, Job No. 94047

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:


Nora Pearmain
Project Coordinator


Jim Hoch
Operations Manager

Enclosure(s)





Client Acct: 49500
 Client Name: Blymyer Engineers, Inc
 NET Job No: 94.02454

Date: 06/27/1994
 ELAP Certificate: 1386
 Page: 7

Ref: Fountain Cleaners, Job No. 94047

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Units	Date Analyzed	Analyst Initials
	Standard % Recovery	Standard Amount Found	Standard Amount Expected			
METHOD 8010 (GC,Solid)						
Bromodichloromethane	92.5	18.5	20.0	ug/kg	06/16/1994	asm
Bromoform	98.5	19.7	20.0	ug/kg	06/16/1994	asm
Bromomethane	77.0	15.4	20.0	ug/kg	06/16/1994	asm
Carbon tetrachloride	91.5	18.3	20.0	ug/kg	06/16/1994	asm
Chlorobenzene	110.5	22.1	20.0	ug/kg	06/16/1994	asm
Chloroethane	83.0	16.6	20.0	ug/kg	06/16/1994	asm
2-Chloroethylvinyl ether	88.5	17.7	20.0	ug/kg	06/16/1994	asm
Chloroform	95.5	19.1	20.0	ug/kg	06/16/1994	asm
Chloromethane	96.0	19.2	20.0	ug/kg	06/16/1994	asm
Dibromochloromethane	96.0	19.2	20.0	ug/kg	06/16/1994	asm
1,2-Dichlorobenzene	94.5	18.9	20.0	ug/kg	06/16/1994	asm
1,3-Dichlorobenzene	99.0	19.8	20.0	ug/kg	06/16/1994	asm
1,4-Dichlorobenzene	104.5	20.9	20.0	ug/kg	06/16/1994	asm
Dichlorodifluoromethane	83.0	16.6	20.0	ug/kg	06/16/1994	asm
1,1-Dichloroethane	85.5	17.1	20.0	ug/kg	06/16/1994	asm
1,2-Dichloroethane	88.0	17.6	20.0	ug/kg	06/16/1994	asm
1,1-Dichloroethene	85.0	17.0	20.0	ug/kg	06/16/1994	asm
trans-1,2-Dichloroethene	85.5	17.1	20.0	ug/kg	06/16/1994	asm
1,2-Dichloropropane	97.0	19.4	20.0	ug/kg	06/16/1994	asm
cis-1,3-Dichloropropene	95.0	19.0	20.0	ug/kg	06/16/1994	asm
trans-1,3-Dichloropropene	96.0	19.2	20.0	ug/kg	06/16/1994	asm
Methylene chloride	99.0	19.8	20.0	ug/kg	06/16/1994	asm
1,1,2,2-Tetrachloroethane	93.0	18.6	20.0	ug/kg	06/16/1994	asm
Tetrachloroethene	93.0	18.6	20.0	ug/kg	06/16/1994	asm
1,1,1-Trichloroethane	90.0	18.0	20.0	ug/kg	06/16/1994	asm
1,1,2-Trichloroethane	96.0	19.2	20.0	ug/kg	06/16/1994	asm
Trichloroethene	94.5	18.9	20.0	ug/kg	06/16/1994	asm
Trichlorofluoromethane	94.0	18.8	20.0	ug/kg	06/16/1994	asm
Vinyl chloride	83.0	16.6	20.0	ug/kg	06/16/1994	asm
1,4-Difluorobenzene (SURR)	106.0	106	100	% Rec.	06/16/1994	asm
Bromochloromethane (SURR)	90.0	90	100	% Rec.	06/16/1994	asm

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 49500
Client Name: Blymyer Engineers, Inc
NET Job No: 94.02454

Date: 06/27/1994
ELAP Certificate: 1386
Page: 8

Ref: Fountain Cleaners, Job No. 94047

METHOD BLANK REPORT

Parameter	Method	Reporting		Date	Analyst
	Blank	Amount	Limit	Analyzed	Initials
Oil & Grease (Total)	ND	50	mg/kg	06/16/1994	bbh
Oil & Grease (Non-Polar)	ND	50	mg/kg	06/16/1994	bbh
Cadmium (ICP)	ND	2.0	mg/kg	06/21/1994	jeo
Chromium (ICP)	ND	2.0	mg/kg	06/21/1994	jeo
Lead (GFAA)	ND	0.2	mg/kg	06/21/1994	djm
Nickel (ICP)	ND	5.0	mg/kg	06/21/1994	jeo
Zinc (ICP)	ND	5.0	mg/kg	06/21/1994	jeo
TPH (Gas/BTXE,Solid)					
as Gasoline	ND	1	mg/kg	06/16/1994	pbg
Benzene	ND	2.5	ug/kg	06/16/1994	pbg
Toluene	ND	2.5	ug/kg	06/16/1994	pbg
Ethylbenzene	ND	2.5	ug/kg	06/16/1994	pbg
Xylenes (Total)	ND	2.5	ug/kg	06/16/1994	pbg
Bromofluorobenzene (SURR)	99		% Rec.	06/16/1994	pbg
METHOD M8015 (EXT., Solid)					
as Diesel	ND	1	mg/kg	06/15/1994	fyh

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 49500
Client Name: Blymyer Engineers, Inc
NET Job No: 94.02454

Date: 06/27/1994
ELAP Certificate: 1386
Page: 9

Ref: Fountain Cleaners, Job No. 94047

METHOD BLANK REPORT

Parameter	Method		Reporting	Date	Analyst
	Blank	Amount			
	Found	Limit	Units	Analyzed	Initials
METHOD 8010 (GC,Solid)					
Bromodichloromethane	ND	2.0	ug/kg	06/16/1994	asm
Bromoform	ND	2.0	ug/kg	06/16/1994	asm
Bromomethane	ND	2.0	ug/kg	06/16/1994	asm
Carbon tetrachloride	ND	2.0	ug/kg	06/16/1994	asm
Chlorobenzene	ND	2.0	ug/kg	06/16/1994	asm
Chloroethane	ND	2.0	ug/kg	06/16/1994	asm
2-Chloroethylvinyl ether	ND	5.0	ug/kg	06/16/1994	asm
Chloroform	ND	2.0	ug/kg	06/16/1994	asm
Chloromethane	ND	2.0	ug/kg	06/16/1994	asm
Dibromochloromethane	ND	2.0	ug/kg	06/16/1994	asm
1,2-Dichlorobenzene	ND	2.0	ug/kg	06/16/1994	asm
1,3-Dichlorobenzene	ND	2.0	ug/kg	06/16/1994	asm
1,4-Dichlorobenzene	ND	2.0	ug/kg	06/16/1994	asm
Dichlorodifluoromethane	ND	2.0	ug/kg	06/16/1994	asm
1,1-Dichloroethane	ND	2.0	ug/kg	06/16/1994	asm
1,2-Dichloroethane	ND	2.0	ug/kg	06/16/1994	asm
1,1-Dichloroethene	ND	2.0	ug/kg	06/16/1994	asm
trans-1,2-Dichloroethene	ND	2.0	ug/kg	06/16/1994	asm
1,2-Dichloropropane	ND	2.0	ug/kg	06/16/1994	asm
cis-1,3-Dichloropropene	ND	2.0	ug/kg	06/16/1994	asm
trans-1,3-Dichloropropene	ND	2.0	ug/kg	06/16/1994	asm
Methylene chloride	ND	50	ug/kg	06/16/1994	asm
1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg	06/16/1994	asm
Tetrachloroethene	ND	2.0	ug/kg	06/16/1994	asm
1,1,1-Trichloroethane	ND	2.0	ug/kg	06/16/1994	asm
1,1,2-Trichloroethane	ND	2.0	ug/kg	06/16/1994	asm
Trichloroethene	ND	2.0	ug/kg	06/16/1994	asm
Trichlorofluoromethane	ND	2.0	ug/kg	06/16/1994	asm
Vinyl chloride	ND	2.0	ug/kg	06/16/1994	asm
1,4-Difluorobenzene (SURR)	105		% Rec.	06/16/1994	asm
Bromochloromethane (SURR)	84		% Rec.	06/16/1994	asm

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 49500
 Client Name: Blymyer Engineers, Inc
 NET Job No: 94.02454

Date: 06/27/1994
 ELAP Certificate: 1386
 Page: 10

Ref: Fountain Cleaners, Job No. 94047

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike			Spike Amount	Sample Conc.	Matrix Spike Dup.		Units	Date Analyzed	Analyst Initials
	% Rec.	% Rec.	RPD			Spike Conc.	Conc.			
Oil & Grease (Total)	80.5	94.3	15.8	2,565	69	2,134	2,286	mg/kg	06/16/1994	bbh
Oil & Grease (Non-Polar)	80.5	94.3	15.8	2,566	69	2,134	2,286	mg/kg	06/16/1994	bbh
ICP METALS SOLID										
Cadmium (ICP)	90.1	90.0	0.1	92.25	2.2	85.30	62.82	mg/kg	06/21/1994	jeo
Cadmium (ICP)	95.9	97.8	2.0	100	ND	95.86	83.67	mg/kg	06/21/1994	jeo
Chromium (ICP)	98.0	103.7	5.6	92.25	18	108.4	87.88	mg/kg	06/21/1994	jeo
Chromium (ICP)	101.9	104.2	2.2	100	ND	101.9	89.16	mg/kg	06/21/1994	jeo
Lead (GFAA)	100.7	98.7	1.9	104	2.6	107	107	mg/kg dw	06/21/1994	djm
Nickel (ICP)	89.4	88.2	1.4	92.25	9.7	92.14	69.11	mg/kg	06/21/1994	jeo
Zinc (ICP)	109.6	110.0	0.4	92.25	150	251.1	224.1	mg/kg	06/21/1994	jeo
TPH (Gas/BTXE,Solid)										
as Gasoline	106.8	104.2	2.5	250	170	437	430.5	mg/kg	06/16/1994	pbg
Benzene	110.9	107.5	3.1	8,800	290	10,050	9,750	ug/kg	06/16/1994	pbg
Toluene	106.5	103.2	3.1	20,850	190	22,400	21,700	ug/kg	06/16/1994	pbg
METHOD M8015 (EXT., Solid)										
as Diesel	104.8	106.0	1.1	16.7	1.7	19.2	19.4	mg/kg	06/15/1994	fyh
METHOD 8010 (GC,Solid)										
Chlorobenzene	99.0	96.0	3.1	100	ND	99	96	ug/kg	06/16/1994	asm
1,1-Dichloroethane	85.0	82.0	3.6	100	ND	85	82	ug/kg	06/16/1994	asm
Trichloroethene	99.0	99.0	0.0	100	ND	99	99	ug/kg	06/16/1994	asm

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 49500
 Client Name: Blymyer Engineers, Inc
 NET Job No: 94.02454

Date: 06/27/1994
 ELAP Certificate: 1386
 Page: 11

Ref: Fountain Cleaners, Job No. 94047

LABORATORY CONTROL SAMPLE REPORT

	LCS	LCS	LCS	Units	Date Analyzed	Analyst Initials
	% Recovery RPD	Amount Found	Amount Expected			
Total)	93.6	2,470	2640			
Non-Polar)	81.6	2,153	2,640	mg/kg	06/16/1994	bbh
P)	87.8	141.9	161.6	mg/kg	06/16/1994	bbh
P)	87.6	126.2	144.1	mg/kg	06/21/1994	jeo
AA)	113.6	2.84	2.50	mg/kg	06/21/1994	jeo
P)	86.6	191.3	221	mg/kg	06/21/1994	djm
P)	85.8	152.9	178.2	mg/kg	06/21/1994	jeo
XT., Solid)	113.8	19.0	16.7	mg/kg	06/15/1994	fyh

only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. Actual reporting limits and results have been multiplied by the listed dilution factor. Do not multiply the reporting limits or reported values by the dilution factor.
- dw : Result expressed as dry weight.
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than the applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 \text{ [Value 1 - Value 2] / mean value}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, Rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, Rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986., Rev. 1, December 1987.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.



9787

CHAIN OF CUSTODY RECORD

JOB #		PROJECT NAME/LOCATION		# OF CONTAINERS	TPH AS GASOLINE + BTXE (MOD EPA 8015/8020)	TPH AS DIESEL (MOD EPA 8015)	VOC (EPA 624/8240) - 8010	SEMI-VOC (EPA 625/8270)	TRPH (EPA 418.1)	BTXE (EPA 8020/607)	TDG (5520 P/P) Total Cr, Cd, Pb, Zn, Ni	HOLD	REMARKS:
SAMPLERS (SIGNATURE)													
DATE	TIME	COMP	GRAB	SAMPLE NAME/LOCATION									
94047	Fountain Cleaners												
Mark E. Jett													
6/9/94	110PM		X	MW-1-6.5	Bro SS	✓	✓	✓			✓	✓	TURNAROUND TIME: 10 DAY(S) HOLD HOLD
	120PM			MW-1-10		✓	✓	✓			✓	✓	
	135PM			MW-1-15									
	150PM			MW-1-20									
REQUESTED BY: Mark Jett					RESULTS AND INVOICE TO: Mark Jett								
RELINQUISHED BY: (SIGNATURE) Mark E. Jett		DATE / TIME 6/10/94 1090 AM		RECEIVED BY: (SIGNATURE) Re Fidge		RELINQUISHED BY: (SIGNATURE) Blaymyn Re fidge / Mark Jett		DATE / TIME 1430 6/10/94		RECEIVED BY: (SIGNATURE) Betty Harvey			
RELINQUISHED BY: (SIGNATURE) Betty Harvey		DATE / TIME 6/10/94 1545		RECEIVED FOR LABORATORY BY: (SIGNATURE) K... ..		DATE / TIME 6/10/94		REMARKS: Tony Reud: 5.9c					

WHITE: Accompany Sample

YELLOW: BEI, After Lab Signs

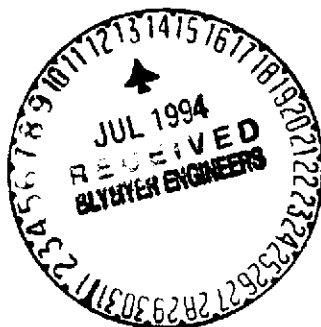
PINK: Original Sampler



NATIONAL
ENVIRONMENTAL
TESTING, INC.

Santa Rosa Division
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

Mark Detterman
Blymyer Engineers, Inc
1829 Clement Ave
Alameda, CA 94501



Date: 07/12/1994
NET Client Acct. No: 49500
NET Pacific Job No: 94.02632
Received: 06/22/1994

Client Reference Information

Fountain Cleaners/Alameda, Job No: 94047

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:


Nora Pearlman
Project Coordinator


Jim Hoch
Operations Manager

Enclosure(s)





Client Acct: 49500
 Client Name: Blymyer Engineers, Inc
 NET Job No: 94.02632

Date: 07/12/1994
 ELAP Certificate: 1386
 Page: 2

Ref: Fountain Cleaners/Alameda, Job No: 94047

SAMPLE DESCRIPTION: MW-1
 Date Taken: 06/20/1994
 Time Taken: 15:20
 NET Sample No: 197754

Parameter	Results	Flags	Reporting		Method	Date Extracted	Date Analyzed
			Limit	Units			
Oil & Grease (Total)	ND		5	mg/L	5520B		06/24/1994
Oil & Grease (Non-Polar)	ND		5	mg/L	5520B/F		06/24/1994
ICP METALS LIQUID	--						06/28/1994
Cadmium (ICP)	ND		0.02	mg/L	EPA 6010	06/24/1994	06/28/1994
Chromium (ICP)	ND		0.02	mg/L	EPA 6010	06/24/1994	06/28/1994
Lead (GFAA)	ND		0.002	mg/L	EPA 7421	06/23/1994	06/27/1994
Nickel (ICP)	ND		0.05	mg/L	EPA 6010	06/24/1994	06/28/1994
Zinc (ICP)	ND		0.05	mg/L	EPA 6010	06/24/1994	06/28/1994
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						
DILUTION FACTOR*	10						06/28/1994
as Gasoline	6.1		0.5	mg/L	5030		06/28/1994
METHOD 8020 (GC,Liquid)	--						06/28/1994
Benzene	ND		5.0	ug/L	8020		06/28/1994
Toluene	20		5.0	ug/L	8020		06/28/1994
Ethylbenzene	37		5.0	ug/L	8020		06/28/1994
Xylenes (Total)	100		5.0	ug/L	8020		06/28/1994
SURROGATE RESULTS	--						06/28/1994
Bromofluorobenzene (SURR)	107			% Rec.	5030		06/28/1994
METHOD M8015 (EXT., Liquid)							
DILUTION FACTOR*	20					06/23/1994	
as Diesel	9.1	DL	1	mg/L	3510		06/27/1994
							06/27/1994

: The positive result appears to be a lighter hydrocarbon than Diesel.

TE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Acct: 49500

Client Name: Blymyer Engineers, Inc

NET Job No: 94.02632

Date: 07/12/1994

ELAP Certificate: 1386

Page: 3

Mountain Cleaners/Alameda, Job No: 94047

MW-1
06/20/1994
15:20
197754

id)	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
	1						
le	ND		0.4	ug/L	8010		07/05/1994
	ND		0.4	ug/L	8010		07/05/1994
	ND		0.4	ug/L	8010		07/05/1994
e	ND		0.4	ug/L	8010		07/05/1994
	ND		0.4	ug/L	8010		07/05/1994
	ND		0.4	ug/L	8010		07/05/1994
ether	ND		1.0	ug/L	8010		07/05/1994
	ND		0.4	ug/L	8010		07/05/1994
	ND		0.4	ug/L	8010		07/05/1994
	ND		0.4	ug/L	8010		07/05/1994
	ND		0.4	ug/L	8010		07/05/1994
	ND		0.4	ug/L	8010		07/05/1994
	ND		0.4	ug/L	8010		07/05/1994
ane	ND		0.4	ug/L	8010		07/05/1994
	ND		0.4	ug/L	8010		07/05/1994
	ND		0.4	ug/L	8010		07/05/1994
ene	ND		0.4	ug/L	8010		07/05/1994
e	5.1		0.4	ug/L	8010		07/05/1994
	5.0		0.4	ug/L	8010		07/05/1994
ne	ND		0.4	ug/L	8010		07/05/1994
pene	ND		0.4	ug/L	8010		07/05/1994
	ND		10	ug/L	8010		07/05/1994
ane	ND		0.4	ug/L	8010		07/05/1994
	ND		0.4	ug/L	8010		07/05/1994
	ND		0.4	ug/L	8010		07/05/1994
	ND		1	ug/L	8010		07/05/1994
	3.8		0.4	ug/L	8010		07/05/1994
	ND		0.4	ug/L	8010		07/05/1994
	ND		0.4	ug/L	8010		07/05/1994
	--						07/05/1994
RR)	103			% Rec.			07/05/1994
R)	110			% Rec.			07/05/1994
							07/05/1994

7 to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 49500
Client Name: Blymyer Engineers, Inc
NET Job No: 94.02632

Date: 07/12/1994
ELAP Certificate: 1386
Page: 4

Ref: Fountain Cleaners/Alameda, Job No: 94047

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Units	Date Analyzed	Analyst Initials
	Standard % Recovery	Standard Amount Found	Standard Amount Expected			
Cadmium (ICP)	101.6	1.016	1.00	mg/L	06/28/1994	jeo
Chromium (ICP)	104.5	1.045	1.00	mg/L	06/28/1994	jeo
Lead (GFAA)	106.4	0.0266	0.0250	mg/L	06/27/1994	ket
Nickel (ICP)	102.4	1.024	1.00	mg/L	06/28/1994	jeo
Zinc (ICP)	101.0	1.010	1.00	mg/L	06/28/1994	jeo
TPH (Gas/BTEX, Liquid)						
as Gasoline	88.0	0.88	1.00	mg/L	06/29/1994	klh
Benzene	85.6	4.28	5.00	ug/L	06/29/1994	klh
Toluene	95.2	4.76	5.00	ug/L	06/29/1994	klh
Ethylbenzene	89.6	4.48	5.00	ug/L	06/29/1994	klh
Xylenes (Total)	96.7	14.5	15.0	ug/L	06/29/1994	klh
Bromofluorobenzene (SURR)	90.0	90	100	% Rec.	06/29/1994	kih
METHOD M8015 (EXT., Liquid)						
as Diesel	114.5	1145	1000	mg/L	06/27/1994	fyh

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 49500
Client Name: Blymyer Engineers, Inc
NET Job No: 94.02632

Date: 07/12/1994
ELAP Certificate: 1386
Page: 5

Ref: Fountain Cleaners/Alameda, Job No: 94047

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials
METHOD 8010 (GC, Liquid)						
Bromodichloromethane	100.0	20.0	20.0	ug/L	07/05/1994	jmh
Bromoform	100.0	20.0	20.0	ug/L	07/05/1994	jmh
Bromomethane	100.0	20.0	20.0	ug/L	07/05/1994	jmh
Carbon tetrachloride	100.0	20.0	20.0	ug/L	07/05/1994	jmh
Chlorobenzene	100.0	20.0	20.0	ug/L	07/05/1994	jmh
Chloroethane	100.0	20.0	20.0	ug/L	07/05/1994	jmh
2-Chloroethylvinyl ether	100.0	20.0	20.0	ug/L	07/05/1994	jmh
Chloroform	100.0	20.0	20.0	ug/L	07/05/1994	jmh
Chloromethane	100.0	20.0	20.0	ug/L	07/05/1994	jmh
Dibromochloromethane	100.0	20.0	20.0	ug/L	07/05/1994	jmh
1,2-Dichlorobenzene	100.0	20.0	20.0	ug/L	07/05/1994	jmh
1,3-Dichlorobenzene	100.0	20.0	20.0	ug/L	07/05/1994	jmh
1,4-Dichlorobenzene	100.0	20.0	20.0	ug/L	07/05/1994	jmh
Dichlorodifluoromethane	100.0	20.0	20.0	ug/L	07/05/1994	jmh
1,1-Dichloroethane	100.0	20.0	20.0	ug/L	07/05/1994	jmh
1,2-Dichloroethane	100.0	20.0	20.0	ug/L	07/05/1994	jmh
1,1-Dichloroethene	100.0	20.0	20.0	ug/L	07/05/1994	jmh
trans-1,2-Dichloroethene	100.0	20.0	20.0	ug/L	07/05/1994	jmh
1,2-Dichloropropane	100.0	20.0	20.0	ug/L	07/05/1994	jmh
cis-1,3-Dichloropropene	100.0	20.0	20.0	ug/L	07/05/1994	jmh
trans-1,3-Dichloropropene	100.0	20.0	20.0	ug/L	07/05/1994	jmh
Methylene chloride	100.0	20.0	20.0	ug/L	07/05/1994	jmh
1,1,2,2-Tetrachloroethane	100.0	20.0	20.0	ug/L	07/05/1994	jmh
Tetrachloroethene	100.0	20.0	20.0	ug/L	07/05/1994	jmh
1,1,1-Trichloroethane	100.0	20.0	20.0	ug/L	07/05/1994	jmh
1,1,2-Trichloroethane	100.0	20.0	20.0	ug/L	07/05/1994	jmh
Trichloroethene	100.0	20.0	20.0	ug/L	07/05/1994	jmh
Trichlorofluoromethane	100.0	20.0	20.0	ug/L	07/05/1994	jmh
Vinyl chloride	100.0	20.0	20.0	ug/L	07/05/1994	jmh
1,4-Difluorobenzene (SURR)	100.0	100	100	% Rec.	07/05/1994	jmh
1,4-Dichlorobutane (SURR)	100.0	100	100	% Rec.	07/05/1994	jmh
Bromochloromethane (SURR)	100.0	100	100	% Rec.	07/05/1994	jmh

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 49500
Client Name: Blymyer Engineers, Inc
NET Job No: 94.02632

Date: 07/12/1994
ELAP Certificate: 1386
Page: 6

Ref: Fountain Cleaners/Alameda, Job No: 94047

METHOD BLANK REPORT

Parameter	Method Blank			Date Analyzed	Analyst Initials
	Amount Found	Reporting Limit	Units		
Oil & Grease (Total)	ND	5	mg/L	06/24/1994	bbh
Oil & Grease (Non-Polar)	ND	5	mg/L	06/24/1994	bbh
Cadmium (ICP)	ND	0.02	mg/L	06/28/1994	jeo
Chromium (ICP)	ND	0.02	mg/L	06/28/1994	jeo
Lead (GFAA)	ND	0.002	mg/L	06/27/1994	ket
Nickel (ICP)	ND	0.05	mg/L	06/28/1994	jeo
Zinc (ICP)	ND	0.05	mg/L	06/28/1994	jeo
TPH (Gas/BTEXE,Liquid)					
as Gasoline	ND	0.05	mg/L	06/29/1994	klh
Benzene	ND	0.5	ug/L	06/29/1994	klh
Toluene	ND	0.5	ug/L	06/29/1994	klh
Ethylbenzene	ND	0.5	ug/L	06/29/1994	klh
Xylenes (Total)	ND	0.5	ug/L	06/29/1994	klh
Bromofluorobenzene (SURR)	94		% Rec.	06/29/1994	klh
METHOD M8015 (EXT., Liquid)					
as Diesel	ND	0.05	mg/L	06/24/1994	fyh

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 49500
Client Name: Blymyer Engineers, Inc
NET Job No: 94.02632

Date: 07/12/1994
ELAP Certificate: 1386
Page: 7

Ref: Fountain Cleaners/Alameda, Job No: 94047

METHOD BLANK REPORT

Parameter	Method		Units	Date Analyzed	Analyst Initials
	Blank	Reporting			
	Amount Found	Limit			
METHOD 8010 (GC,Liquid)					
Bromodichloromethane	ND	0.4	ug/L	07/05/1994	jmh
Bromoform	ND	0.4	ug/L	07/05/1994	jmh
Bromomethane	ND	0.4	ug/L	07/05/1994	jmh
Carbon tetrachloride	ND	0.4	ug/L	07/05/1994	jmh
Chlorobenzene	ND	0.4	ug/L	07/05/1994	jmh
Chloroethane	ND	0.4	ug/L	07/05/1994	jmh
2-Chloroethylvinyl ether	ND	1.0	ug/L	07/05/1994	jmh
Chloroform	ND	0.4	ug/L	07/05/1994	jmh
Chloromethane	ND	0.4	ug/L	07/05/1994	jmh
Dibromochloromethane	ND	0.4	ug/L	07/05/1994	jmh
1,2-Dichlorobenzene	ND	0.4	ug/L	07/05/1994	jmh
1,3-Dichlorobenzene	ND	0.4	ug/L	07/05/1994	jmh
1,4-Dichlorobenzene	ND	0.4	ug/L	07/05/1994	jmh
Dichlorodifluoromethane	ND	0.4	ug/L	07/05/1994	jmh
1,1-Dichloroethane	ND	0.4	ug/L	07/05/1994	jmh
1,2-Dichloroethane	ND	0.4	ug/L	07/05/1994	jmh
1,1-Dichloroethene	ND	0.4	ug/L	07/05/1994	jmh
trans-1,2-Dichloroethene	ND	0.4	ug/L	07/05/1994	jmh
1,2-Dichloropropane	ND	0.4	ug/L	07/05/1994	jmh
cis-1,3-Dichloropropene	ND	0.4	ug/L	07/05/1994	jmh
trans-1,3-Dichloropropene	ND	0.4	ug/L	07/05/1994	jmh
Methylene chloride	ND	10	ug/L	07/05/1994	jmh
1,1,2,2-Tetrachloroethane	ND	0.4	ug/L	07/05/1994	jmh
Tetrachloroethene	ND	0.4	ug/L	07/05/1994	jmh
1,1,1-Trichloroethane	ND	0.4	ug/L	07/05/1994	jmh
1,1,2-Trichloroethane	ND	0.4	ug/L	07/05/1994	jmh
Trichloroethene	ND	0.4	ug/L	07/05/1994	jmh
Trichlorofluoromethane	ND	0.4	ug/L	07/05/1994	jmh
Vinyl chloride	ND	0.4	ug/L	07/05/1994	jmh
1,4-Difluorobenzene (SURR)	103		% Rec.	07/05/1994	jmh
1,4-Dichlorobutane (SURR)	103		% Rec.	07/05/1994	jmh

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 49500
 Client Name: Blymyer Engineers, Inc
 NET Job No: 94.02632

Date: 07/12/1994
 ELAP Certificate: 1386
 Page: 8

Ref: Fountain Cleaners/Alameda, Job No: 94047

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike			Spike Amount	Sample Conc.	Matrix Spike Dup.			Date Analyzed	Analyst Initials
	% Rec.	% Rec.	RPD			Conc.	Conc.	Units		
Oil & Grease (Total)	97.4	100.3	2.8	111.7	ND	108.8	109.1	mg/L	06/24/1994	bbh
Oil & Grease (Non-Polar)	97.4	100.3	2.8	111.7	ND	108.8	109.1	mg/L	06/24/1994	bbh
ICP METALS LIQUID										
Cadmium (ICP)	79.9	76.8	4.0	1.00	ND	0.799	0.768	mg/L	06/28/1994	jeo
Chromium (ICP)	85.2	82.7	3.0	1.00	0.08	0.932	0.907	mg/L	06/28/1994	jeo
Lead (GFAA)	104.4	103.6	0.8	0.0250	0.032	0.0581	0.0579	mg/L	06/27/1994	ket
Nickel (ICP)	82.1	79.4	3.3	1.00	ND	0.821	0.794	mg/L	06/28/1994	jeo
Zinc (ICP)	76.0	71.0	6.8	1.00	0.56	1.32	1.27	mg/L	06/28/1994	jeo
TFH (Gas/BTXE,Liquid)										
as Gasoline	89.0	96.0	7.6	1.00	ND	0.89	0.96	mg/L	06/29/1994	klh
Benzene	96.7	111.2	13.8	36.6	ND	35.4	40.7	ug/L	06/29/1994	klh
Toluene	97.0	104.8	7.6	99.2	ND	96.2	104	ug/L	06/29/1994	klh
METHOD M8015 (EXT., Liquid)										
as Diesel	107.5	101.5	5.7	2.00	ND	2.15	2.05	mg/L	06/24/1994	fyh

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 49500
Client Name: Blymyer Engineers, Inc
NET Job No: 94.02632

Date: 07/12/1994
ELAP Certificate: 1386
Page: 9

Ref: Fountain Cleaners/Alameda, Job No: 94047

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike			Spike Amount	Sample Conc.	Matrix Spike		Units	Date Analyzed	Analyst Initials
	Matrix Spike % Rec.	Dup % Rec.	RPD			Matrix Spike Conc.	Dup. Conc.			
METHOD 8010 (GC,Liquid)										
Chlorobenzene	100.0	97.0	2.9	20.0	ND	20.0	19.4	ug/L	07/05/1994	jmh
1,1-Dichloroethene	100.0	109.0	8.6	20.0	ND	20.0	21.8	ug/L	07/05/1994	jmh
Trichloroethene	100.0	101.0	1.0	20.0	ND	20.0	20.2	ug/L	07/05/1994	jmh

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 49500
Client Name: Blymyer Engineers, Inc
NET Job No: 94.02632

Date: 07/12/1994
ELAP Certificate: 1386
Page: 10

Ref: Fountain Cleaners/Alameda, Job No: 94047

LABORATORY CONTROL SAMPLE REPORT

Parameter	LCS % Recovery	RPD	LCS	LCS	Units	Date Analyzed	Analyst
			Amount Found	Amount Expected			Initials
Oil & Grease (Total)	96.5		108.7	112.6	mg/L	06/24/1994	bbh
Oil & Grease (Total)	103.0		116.1	112.7	mg/L	06/24/1994	bbh
Oil & Grease (Non-Polar)	96.5		108.7	112.6	mg/L	06/24/1994	bbh
Oil & Grease (Non-Polar)	103.0		116.1	112.7	mg/L	06/24/1994	bbh
Cadmium (ICP)	88.7		0.887	1.00	mg/L	06/28/1994	jeo
Chromium (ICP)	97.1		0.971	1.00	mg/L	06/28/1994	jeo
Lead (GFAA)	102.8		0.0257	0.0250	mg/L	06/27/1994	ket
Nickel (ICP)	90.6		0.906	1.00	mg/L	06/28/1994	jeo
Zinc (ICP)	87.3		0.873	1.00	mg/L	06/28/1994	jeo
METHOD M8015 (EXT., Liquid)							
as Diesel	91.0		0.91	1.00	mg/L	06/24/1994	fyh
METHOD M8015 (EXT., Liquid)							
as Diesel	108.0		1.08	1.00	mg/L	06/24/1994	fyh

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. Actual reporting limits and results have been multiplied by the listed dilution factor. Do not multiply the reporting limits or reported values by the dilution factor.
- dw : Result expressed as dry weight.
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than the applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 \text{ [Value 1 - Value 2] / mean value}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, Rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, Rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986., Rev. 1, December 1987.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

BLMYER

ENGINEERS, INC.

1829 Clement Avenue

Alameda, CA 94501 (510) 521-3773 FAX (510) 865-2594



0981

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

JOB #		PROJECT NAME/LOCATION				# OF CONTAINERS	TPH AS GASOLINE + BTXE (MOD EPA 8015/8020)	TPH AS DIESEL (MOD EPA 8015)	VOC (EPA 624/8240)	SEMI-VOC (EPA 625/8270)	TRPH (EPA 418.1)	BTXE (EPA 8020/602)	DCE 5520 D/F	HVOC 8010	Metals: Cd Cr Pb Ni Zn	HOLD	TURNAROUND TIME: <u>Standard</u> DAY(S)	
SAMPLERS (SIGNATURE)																	REMARKS:	
DATE	TIME	COMP	GRAB	SAMPLE NAME/LOCATION														
6/20/94	1520		X	mw-1	10	X	X					X	X	X			Also: run standard for CIS-1, 2 - DCE on 8010	
																	metals sample was field filtered	
REQUESTED BY: Mark Dettarman						RESULTS AND INVOICE TO: Blymyer Engineers, Inc												
RELINQUISHED BY: (SIGNATURE)		DATE / TIME		RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE / TIME		RECEIVED BY: (SIGNATURE)								
<i>Stephen W Moore</i>		6/21/94 8:40 AM		<i>Mark Dettarman</i>		<i>Mark Dettarman</i>		6/21/94 10:45		<i>D. Kumbhe</i>								
RELINQUISHED BY: (SIGNATURE)		DATE / TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE / TIME		REMARKS:										
<i>D. Kumbhe</i>		6/21/94 11:30		<i>Alamo via NCS</i>		6/22/94 13:00		(CUSTOMER SEALED 6/21/94 <i>D. Kumbhe</i>)										

WHITE: Accompany Sample

YELLOW: BFI, After Lab Signs

PINK: Original Sampler

Appendix D

Monitoring Well Development Log

Appendix E
Well Purging
and
Sampling Data Form

Well Purging and Sampling Data

Date	6/20/94	Project Number	94047	Project Name	Fountain Cleaners
Well Number	MW-1	Boring Diameter	N/A	Casing Diameter	2"

Column of Liquid in Well	Volume to be Removed
Depth to product	N/A
Depth to water	6.96 ft.
Total depth of well	19.07 ft.
Column of water	12.11 ft.
	Gallons per foot of casing = 0.17 gal/ft.
	Column of water x 12.11 ft.
	Volume of casing = 2.1 gal.
	No. of volumes to remove x 3
	Total volume to remove = 6.3 gal.

Method of measuring liquid	Oil/water interface probe
Method of purging well	Disposable polyethylene bailer
Method of decontamination	Liqui-nox and distilled water

Physical appearance of water (clarity, color, particulates, odor)	
Initial	Clear
During	Slightly silty, gray color, slight sheen in purge bucket
Final	Silty, gray color, slight sheen in purge bucket

Field Analysis	Initial	During		Final
Time	14:15	14:25	14:35	14:45
Temperature (F)	65.8	63.6	62.9	62.8
Conductivity (us/cm)	866	945	932	927
pH	7.40	6.73	6.82	6.83
Method of measurement	Hydac meter			
Total volume purged	6.5 gal.			
Comments Use of respirator during sampling prevented detecting odors. Noticed unusual "foaming" of purge water. Sheen in purge bucket appeared to consist of two different components.				

Sample Number	Amount of Sample
MW-1	3-40ml VOA w/ HCl
	2-1l ambers, 3-40ml VOA
	1-1l amber w/ H2SO4
	1-0.5ml plastic w/ HNO3

Signed/Sampler	Date
<i>Stephen White</i>	6/20/94
Signed/Reviewer	Date
<i>Mike [Signature]</i>	8/1/94



Environmental Bio-Systems

30028 Industrial Parkway, Southwest
Hayward, California 94544-6904
(415) 429-9988

Rand.
7/26/89

July 14, 1989

Gary Zaccor
Zaccor Corporation
791 Hamilton Avenue
Menlo Park, California 94025

Mr. Zaccor:

The following documentation concerns the initial tank removal sampling and assessment performed by Environmental Bio-Systems, for Zaccor Corporation, on July 11, 1989 at:

Crystal Cleaners
2006 Encinal Ave.
Alameda, CA

On this date, the following underground storage tanks were removed (from diagram):

- A: 1,000 gallon gasoline
- B: 1,000 gallon fuel oil
- C: 550 gallon diesel
- D: 300 gallon solvent (stoddard)
- E: 2,000 gallon spent solvent
- F: 1,000 gallon solvent
- G: 2,000 gallon unknown (slurry filled)

Subsequent sampling of surrounding soil was performed in the presence of Mr. Larry Seto of the Alameda County Health Department.

FIELD OBSERVATIONS:

Visual inspection of tank A revealed a single walled steel structure with significant rusting, scaling, and pitting. No holes were discovered. The tank was positioned horizontally in its' depression. A strong hydrocarbon odor was noted in the underlying soil.

Tank A

Tank B
Visual inspection of tank B revealed a single walled steel structure with significant rusting, scaling, and pitting. The tank was positioned horizontally in its' depression. **Several holes were discovered along its' top.** A profound **hydrocarbon odor** was noted in the underlying soil.

C
Visual inspection of tank C revealed a single walled steel structure with significant rusting, scaling, and pitting. No holes were discovered. The tank was positioned horizontally in its' depression. A profound **hydrocarbon odor** was noted in the underlying soil.

D
Visual inspection of tank D revealed a single walled steel structure with significant rusting, scaling, and pitting. No holes were discovered. A profound **hydrocarbon odor** was noted in the underlying soil.

E
Visual inspection of tank E revealed a single walled steel structure with significant rusting, scaling, and pitting. **A hole was discovered in the conical bottom section of the structure.** The tank was positioned vertically in its' depression. A profound **hydrocarbon odor** was noted in the underlying soil.

F
Visual inspection of tank F revealed a single walled structure with significant rusting, scaling, and pitting. No holes were discovered. The tank was positioned vertically in its' depression. A profound **hydrocarbon odor** was noted in the underlying soil.

Tank G (slurry filled). No observations were made since the tank was removed after being sectioned within the pit, prior to excavation.

SAMPLING:

Accessibility to the pit after removal of the tanks was limited making collection of soil samples extremely difficult from the northern end and sides of the excavation. The following sampling protocol was developed with the approval of the lead regulatory agency representative, Mr. Seto.

At the discretion of Mr. Seto, soil sample #1 was collected from the center of tank A from a depth below grade of 6 feet (see diagram and sampling methodology section). A second sample from below this tank was waived due to inaccessibility.

Soil samples #2 and #3 were collected from below tank B at a depth below grade of 9.5 feet.

Soil sample #4 was hand augered from the sidewall of the pit at a depth below grade of 8 feet next to tank E. Further samples from this area were waived due to inaccessibility. *Submitt*

Soil sample #5 was collected at a depth below grade of approximately 8 feet. The sample was taken from the north wall of the pit when a large portion of it collapsed into the excavation making it accessible to the excavator. *which tank*

Soil samples #6A-D and #7A-D were composite samples collected from approximately 80 to 100 cubic yards of stockpiled soil excavated during removal.

A small volume of standing water was present at an approximate depth of 9 to 10 feet below grade in the pre-excavated pit at the time of tank removal. Following removal of the tanks, an attempt was made to sample water from within the pit by digging a depression where water might collect. The sandy composition of the

*copy
wanted
samples
collected
from
excavation
Submitt*

native soil prevented this from happening as a depression could not be held open when water began to accumulate.

With the consent of Mr. Seto, the samples were analyzed for the following constituents:

- #1: TPH (gasoline), BTX&E
- #2: TPH (gasoline), TPH (diesel), BTX&E, TOG
- #3: TPH (gasoline), TPH (diesel), BTX&E, TOG
- #4: TPH (gasoline), BTX&E
- #5: TPH (gasoline), TPH (diesel), BTX&E
- #6: TPH (gasoline), TPH (diesel), BTX&E, TOG
- #7: TPH (gasoline), TPH (diesel), BTX&E, TOG

Why not sample for any VOC's?

Analytical methods used were consistent with current guidelines set forth by the San Francisco Regional Water Quality Control Board (SFRWQCB).

SAMPLING METHODOLOGY

Soil was removed from the pit in a backhoe bucket. After removing the first 3 to 4 inches of soil, presumably slough, samples were contained by driving clean brass tubes (1.92" x 6") into the exposed layer just above the teeth of the bucket. Soil was packed into the tubes to exclude the existence of headspace. Thus prepared, the ends of the tubes were wrapped with aluminum foil and sealed with plastic caps. After removing excess foil, electrical tape was applied to the seams between cap and tube in an effort to reduce evaporative loss of volatile constituents.

Soil samples taken from a hand auger were promptly packed into clean brass tubes (1.92" x 6"). The exposed ends of the tubes are covered with aluminum foil beneath snug fitting plastic caps. The seams between cap and tube were covered with a non-contributing

plastic tape in an effort to reduce evaporative loss of volatile compounds.

The soil samples were placed in a cooler on dry ice. The sample was documented on an appropriate chain of custody and transported to Mobile Chem Labs Inc., a certified hazardous waste analytical laboratory.

RESULTS

Copies of the sample analytical results are enclosed.

Soil sample #1 was found to contain ~~9,000~~ parts per million (ppm) TPH as gasoline, as well as **54 ppm benzene**, 110 ppm toluene, 1,700 ppm xylenes, and 220 ppm ethylbenzene.

Soil sample #2 was found to contain 26 parts per million (ppm) TPH as gasoline, **1,500 ppm TPH as diesel**, **700 ppm TOG**, <0.1 ppm benzene, <0.1 ppm toluene, <0.1 ppm xylenes, and <0.1 ppm ethylbenzene.

Soil sample #3 was found to contain 15 parts per million (ppm) TPH as gasoline, 36 ppm TPH as diesel, <50 ppm TOG, million (ppm), <0.1 ppm benzene, <0.1 ppm toluene, <0.1 ppm xylenes, and <0.1 ppm ethylbenzene.

Soil sample #4 was found to contain 22 parts per million (ppm) TPH as gasoline, <0.1 ppm benzene, <0.1 ppm toluene, <0.1 ppm xylenes, and <0.1 ppm ethylbenzene.

Soil sample #5 was found to contain 11 parts per million (ppm) TPH as gasoline, 36 ppm TPH as diesel, <0.1 ppm benzene, <0.1 ppm toluene, <0.1 ppm xylenes, and <0.1 ppm ethylbenzene.

Soil sample #6A-D was found to contain 55 parts per million (ppm) TPH as gasoline, 4,200 ppm TPH as diesel, 1,600 ppm TOG, million (ppm), <0.1 ppm benzene, <0.1 ppm toluene, <0.1 ppm xylenes, and 0.5 ppm ethylbenzene.

Soil sample #7A-D was found to contain 58 parts per million (ppm) TPH as gasoline, 2,400 ppm TPH as diesel, 1,200 ppm TOG, million (ppm), <0.1 ppm benzene, <0.1 ppm toluene, <0.1 ppm xylenes, and 0.6 ppm ethylbenzene.

Recommendations

The State Water Resources Control Board document, Leaking Underground Fuel Tank Field Manual (LUFT), supported by the San Francisco Regional Water Quality Control Board (SFRWQCB), defines acceptable limits and appropriate actions in dealing with tank removal and associated contamination.

To remain in compliance with SFRWQCB guidelines, we recommend the following: the installation of at least one groundwater monitoring well placed within ten feet of the previous location of tanks A and B in a verified downgradient position, as approved by the appropriate regulatory agency assigned to oversee work done at this location. Subsequent sampling of the groundwater should be carried out to determine any impact on shallow water quality.

All soils found to be in excess of 100 ppm TPH as gasoline, diesel, or TOG should be excavated for treatment or disposal.

7/17/89

Zaccor Corp. @
2006 Encinal Avenue
Alameda, CA

7

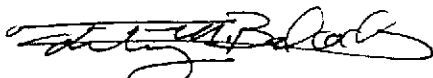
Due to the high organic content of the already excavated soil, uncontrolled aeration seems to be a poor choice for treatment. The soil should remain covered until either a treatment plan is approved whereby vapor release is controlled or the soil is hauled offsite to an appropriate landfill.

REPORTAGE

Copies of the sampling report, the chain of custody, and the certified analytical data sheets should be submitted to both the SFRWQCB and the Alameda County Health Department.

If you have any questions, or if I may be of further service please contact me at (415) 429-9988.

Sincerely,



Timothy M. Babcock
Environmental Scientist

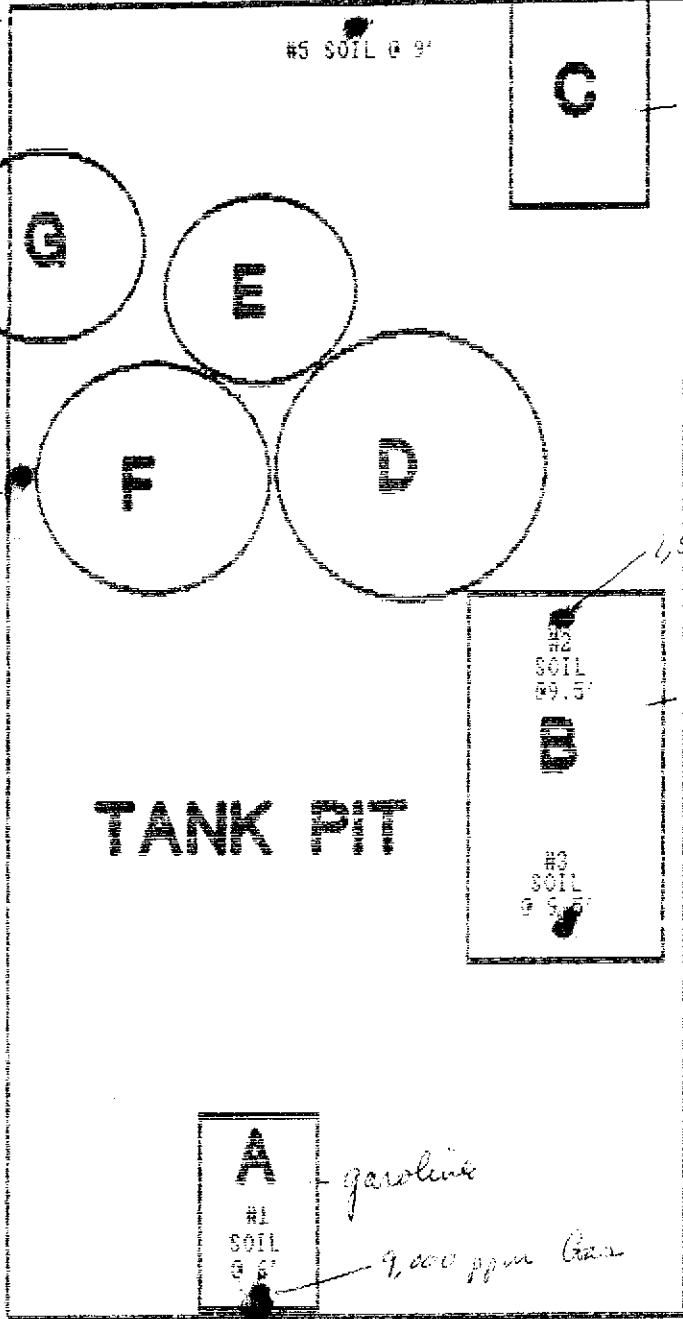
-P-LINE

BUILDING

TANK PIT

BUILDING

-P-LINE



diethyl

*1500 ppm diethyl
700 ppm Tolu*

Free Oil

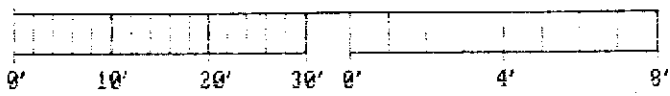
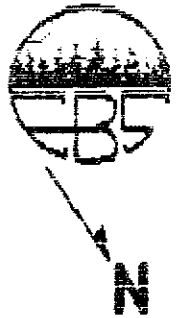
gasoline

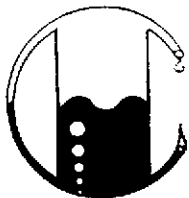
9,000 ppm Gas

SIDEWALK

ENCINAL AVE.

ZACCOR CORP.
CRYSTAL CLEANERS
2008 ENCINAL AVE.
ALAMEDA, CA.





MOBILE CHEM LABS INC.

1678 Reliez Valley Road
Lafayette, CA 94549 • (415) 945-1266

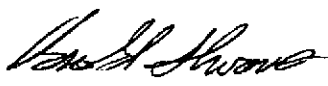
Environmental Bio-Systems
30028 Industrial Pkwy. S.W.
Hayward, CA 94544-6904
Attn: Timothy Babcock
Environmental Scientist

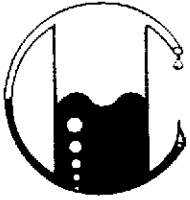
Date Sampled: 07-10-89
Date Received: 07-10-89
Date Reported: 07-12-89

Sample Number	Sample Description	Detection Limit	Gravimetric Waste Oil as Petroleum Oil
		ppm	ppm
	Job # 003-051-191 2006 Encinal Ave. - Alameda		
V079012	# 2	50	700
V079013	# 3	50	<50

Note: Analysis was performed using EPA extraction method 3510 with Trichlorotrifluoroethane as solvent, and gravimetric determination by standard methods 503e

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Ronald G. Evans
Lab Director



MOBILE CHEM LABS INC.

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Attn: Timothy Babcock
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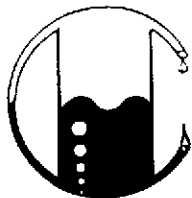
Date Sampled:07-10-89
Date Received:07-10-89
Date Reported:07-11-89

Sample Number	Sample Description	Detection Limit	Total Petroleum Hydrocarbons as Diesel
		ppm	ppm
	Job # 003-051-191 2006 Encinal Ave.- Alameda		
V079012	# 2	10	1,500
V079013	# 3	10	36
V079015	# 5	10	36

Note: Analysis was performed using EPA methods 5030 and 8015

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Date Sampled: 07-10-89
Date Received: 07-10-89
Date Reported: 07-11-89

Sample Number

V079011

Sample Description

Job # 003-051-191
2006 Encinal Ave.-Alameda
1 SOIL

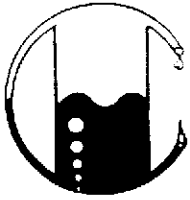
ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	9,000
Benzene	0.1	54
Toluene	0.1	110
Xylenes	0.1	1,700
Ethylbenzene	0.1	220

Note: Analysis was performed using EPA methods 5020 (Automated) and 8015 with method 8020 used for BTX distinction.

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Hayward, CA 94544-6904
Attn: Timothy Babcock
Environmental Scientist

Date Sampled: 07-10-89
Date Received: 07-10-89
Date Reported: 07-11-89

Sample Number

V079012

Sample Description

Job # 003-051-191
2006 Encinal Ave.-Alameda
2 SOIL

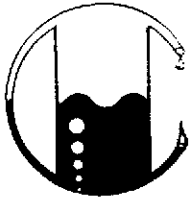
ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	26
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5020 (Automated) and 8015 with method 8020 used for BTX distinction.

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Hayward, CA 94544-6904
Attn: Timothy Babcock
Environmental Scientist

Date Sampled: 07-10-89
Date Received: 07-10-89
Date Reported: 07-11-89

Sample Number

V079013

Sample Description


Job # 003-051-191
2006 Encinal Ave.-Alameda
3 SOIL

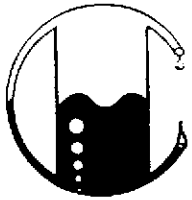
ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	15
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5020 (Automated) and 8015 with method 8020 used for BTX distinction.

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30028 Industrial Pkwy. S.W.
Hayward, CA 94544-6904
Attn: Timothy Babcock
Environmental Scientist

Date Sampled: 07-10-89
Date Received: 07-10-89
Date Reported: 07-11-89

Sample Number

V079014

Sample Description

Job # 003-051-191
2006 Encinal Ave.-Alameda
4 SOIL

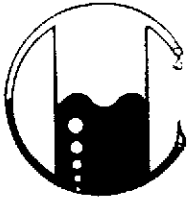
ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	22
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5020 (Automated) and 8015 with method 8020 used for BTX distinction.

MOBILE CHEM LABS

Ronald G. Evans
Lab Director



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Environmental Bio-Systems
30028 Industrial Pkwy. S.W.
Hayward, CA 94544-6904
Attn: Timothy Babcock
Environmental Scientist

Date Sampled: 07-10-89
Date Received: 07-10-89
Date Reported: 07-11-89

Sample Number

V079015

Sample Description

Job # 003-051-191
2006 Encinal Ave.-Alameda
5 SOIL

ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	11
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5020 (Automated) and 8015 with method 8020 used for BTX distinction.

MOBILE CHEM LABS

Ronald G. Evans
Lab Director



MOBILE CHEM LABS INC.

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Environmental Bio-Systems
30028 Industrial Pkway. S.W.
Hayward, CA 94544-6904
Attn: Timothy Babcock
Environmental Scientist

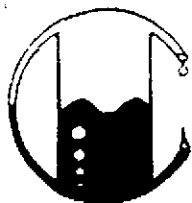
Date Sampled: 07-11-89
Date Received: 07-11-89
Date Reported: 07-12-89

<u>Sample Number</u>	<u>Sample Description</u>	<u>Detection Limit</u>	<u>Total Petroleum Hydrocarbons as Diesel</u>
		ppm	ppm
	Job # 003-051-192 2006 Encinal Ave. - Alameda		
V079016	# 1A-D 6A-D	10	4,200
V079017	# 2A-D 7A-D	10	2,400

Note: Analysis was performed using EPA methods 3550 and 8015

MOBILE CHEM LABS

Ronald G. Evans
Lab Director



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Hayward, CA 94544
Attn: Timothy Babcock
Environmental Scientist

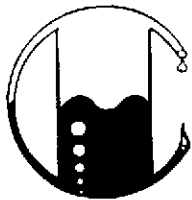
Date Sampled: 07-11-89
Date Received: 07-11-89
Date Reported: 07-11-89

Sample Number	Sample Description	Detection Limit	Gravimetric Waste Oil as Petroleum Oil
		ppm	ppm
	Job # 003-051-192 2006 Encinal Ave. - Alameda		
V079016	# 1A-D GA-D	50	1,600
V079017	# 2A-D ZA-D	50	1,200

Note: Analysis was performed using EPA extraction method 3510 with Trichlorotrifluoroethane as solvent, and gravimetric determination by standard methods 503e

MOBILE CHEM LABS

Ronald G. Evans
Lab Director



MOBILE CHEM LABS INC.

1678 Reliez Valley Road
Lafayette, CA 94549 • (415) 945-1266

Environmental Bio-Systems
30028 Industrial Pkway. S.W.
Hayward, CA 94544-6904
Attn: Timothy Babcock
Environmental Scientist

Date Sampled: 07-11-89
Date Received: 07-11-89
Date Reported: 07-12-89

Sample Number

V079016

Sample Description

Job # 003-051-192
2006 Encinal Ave. - Alameda
~~1A-D~~ SOIL
6A-D

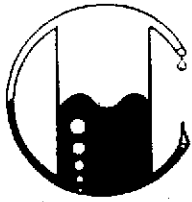
ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	55
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	0.5

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

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Environmental Bio-Systems
30028 Industrial Pkway. S.W.
Hayward, CA 94544-6904
Attn: Timothy Babcock
Environmental Scientist

Date Sampled: 07-11-89
Date Received: 07-11-89
Date Reported: 07-12-89

Sample Number

V079017

Sample Description

Job # 003-051-192
2006 Encinal Ave. - Alameda
~~2A-D~~ SOIL
7A-D

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	58
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	0.6

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

ENVIRONMENTAL BIO-SYSTEMS
30028 INDUSTRIAL PKWY., S.W.
HAYWARD, CA. 94544
(415) 429-9988

CHAIN OF CUSTODY DOCUMENTATION

Site Address: 2006 Encinal Ave. Turn Around 98hr
Alameda, CA
 Job #: 003-051-191

Lab Used: Mobile Chem
 Sampler: Tim Babcock Date Sampled: 7/10/89

Sample:	Soil/ Water:	Analyses:	Single/ COMP.:
<u>1</u>	<u>S</u>	<u>TPH TPH (gas) & BTEX</u>	<u>S</u>
<u>2</u>	<u>S</u>	<u>TPH (gas), TPH (diesel), TOG, BTEX</u>	<u>S</u>
<u>3</u>	<u>S</u>	<u>" " " "</u>	<u>S</u>
<u>4</u>	<u>S</u>	<u>TPH (gas) & BTEX</u>	<u>S</u>
<u>5</u>	<u>S</u>	<u>TPH (gas), TPH (diesel), BTEX</u>	<u>S</u>

Released By:	Accepted By:	Date/Time
<u>[Signature]</u>	<u>James Tyler</u>	<u>3:50</u>
<u>James Tyler</u>	<u>Jay Dishman</u>	<u>5:00</u>
		<u>7/10/89</u>
		<u>7/10/89</u>

Signed: _____

ENVIRONMENTAL BIO-SYSTEMS
30028 INDUSTRIAL PKWY., S.W.
HAYWARD, CA. 94544
(415) 429-9988

CHAIN OF CUSTODY DOCUMENTATION

Site Address: Zaccor @ Turn Around: 24
2006 Encinal Alameda Cal 48 hr
Job #: 003-051-192

Lab Used: Mobile Chem

Sampler: Harry Hau Date Sampled: 7-11-89

Sample:	Soil/ Water:	Analyses:	Single/ COMP.:
<u>6X A-D</u>	<u>S</u>	<u>TPH(g)(d) TOG, BTX;E</u>	<u>C</u>
<u>7X A-D</u>	<u>S</u>	<u>↓ ↓ ↓ ↓ ↓</u>	<u>C</u>
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----

Released By: [Signature] Accepted By: J. Dishneau Date/Time: 2:40p
7/11/89

Signed: _____

Please print or type. (Form designed for use on elite (12-p) typewriter).

88228711

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8902. WITHIN CALIFORNIA CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAG00017581328711		Manifest Document No. 28711		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
		3. Generator's Name and Mailing Address MR JAY KU PO 20127 CASTRO VALLEY CA 9452776 415 852-2776 94546						A. State Manifest Document Number 88228711					
4. Generator's Phone						B. State Generator's ID							
5. Transporter Company Name H&H SHIP SERVICE				6. US EPA ID Number CADP04771168		C. State Transporter's ID 003758		D. Transporter's Phone 415-543-4835					
7. Transporter 2 Company Name						8. US EPA ID Number		E. State Transporter's ID					
9. Designated Facility Name and Site Address H&H SHIP SERVICE Les. 250 CHINA BASIN ST. SAN FRANCISCO, CA 94107						10. US EPA ID Number CADP04771168		G. State Facility's ID CADP04771168					
								H. Facility's Phone 415-543-4835					
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.	
						No.		Type					
a. RESIDUE SOLVENT TANK (CALIFORNIA REGULATED WASTE ONLY)						0011TR		01700		P		State 512	
b. RESIDUE SOLVENT TANK (CALIFORNIA WASTE REGULATED ONLY)						0011TR		02000		P		State 512	
c. RESIDUE DIESEL TANK (CALIFORNIA WASTE REGULATED ONLY)						0011TR		01200		P		State 512	
d. RESIDUE SOLVENT TANK (CALIFORNIA WASTE REGULATED ONLY)						003T		00550		P		State 512	
1. Additional Descriptions for Materials Listed Above PUMP OUT 1-1700 G, 1-2100 G, 1-1200 G AND 3-550 G TANK LAST CONTAINING SOLVENT AND DIESEL						K. Handling Codes for Wastes Listed Above							
						a.		b.		c.		d.	
15. Special Handling Instructions and Additional Information APPROPRIATE PROTECTIVE CLOTHING.													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name <i>[Signature]</i>						Signature <i>[Signature]</i>						Month Day Year 07/10/89	
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name ESTEBAN M. PENALVER						Signature <i>[Signature]</i>						Month Day Year 07/10/89	
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed/Typed Name						Signature						Month Day Year	
19. Discrepancy Indication Space													
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.													
Printed/Typed Name						Signature						Month Day Year	

Do Not Write Below This Line

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAYS
To: P.O. Box 400, Sacramento, CA 95812-0400

Please print or type. (Form designed for use on elite (12) typewriter).

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>PACD000175813</i>		Manifest Document No. <i>88387439</i>		2. Page 1 of _____		Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address <i>MR KU DO BOX 2017 CASTRO VALLEY CA</i>						A. State Manifest Document Number 88387439					
4. Generator's Phone <i>415 582 2776 94546</i>						B. State Generator's ID					
5. Transporter 1 Company Name ALLIED OIL & PUMPING			6. US EPA ID Number <i>CAT080014277</i>			C. State Transporter's ID					
7. Transporter 2 Company Name						D. Transporter's Phone (408) 432-0333					
9. Designated Facility Name and Site Address REFINERIES SERVICES 13331 NORTH HWY. 33 PATERSON, CA. 95363						10. US EPA ID Number <i>CAD083166728</i>					
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
a. WASTE OIL N.O.S COMBUSTIBLE LIQUID NA 1270						0 0 1 T T		1250		G	
b.										State 221	
c.										EPA/Other	
d.										State	
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above					
1.1 USED OIL						a. 01					
1.2 WATER						b.					
1.3 Resinate <i>CAF 990</i>						c.					
1.4 Resinate solvent .05%						d.					
15. Special Handling Instructions and Additional Information <i>LOCATION 7006 ENCINAL ALAMEDA CA</i>											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
Printed/Typed Name <i>J SCOT ZACCOR</i>				Signature <i>[Signature]</i>				Month Day Year <i>10 27 89</i>			
17. Transporter 1 Acknowledgement of Receipt of Materials											
Printed/Typed Name <i>KEVIN SHANNAN</i>				Signature <i>[Signature]</i>				Month Day Year <i>07 07 89</i>			
18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed/Typed Name				Signature				Month Day Year			
19. Discrepancy Indication Space											
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name				Signature				Month Day Year			

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8602; WITHIN CALIFORNIA CALL 1-800-852-7650

88387439

GENERATOR

TRANSPORTER

FACILITY