AU3 24 RECT

Manmohan S. Chopra 4216 Warbler Loop FREMONT, CA 94555

August 15,1994

Mr Scott Seery, Alameda County Department of Environmental Health 1131 Harbor Bay Parkway, 2nd Floor ALAMEDA, CA 94502-6577

SUBJECT: Quarterly Groundwater Monitoring and Sampling Report 1401 Grand Ave. San Leandro, California

Dear Mr. Seery,

Enclosed please find a copy of Quarterly Groundwater Monitoring and Sampling Report prepared by our consultants, P&D Environmental, for your review.

As explained in our previous corrospondance, required ground water monitoring and sampling will be performed on quarterly basis until enough data is available to decide on the type of corrective action (if any) needed.

If I could be of any assistance, please let me know.

Sincerely,

Manmohan S. Chopra

P & D Environmental

4020 Panama Court Oakland, CA 94611 Telephone (510) 658-6916

> August 4, 1994 Report 0055.R1

Mr. Manmohan Chopra 4216 Warbler Loop Fremont, CA 94555

SUBJECT: QUARTERLY GROUNDWATER MONITORING AND SAMPLING REPORT

Former ARCO Service Station

1401 Grand Avenue

San Leandro, California

Dear Mr. Chopra:

P&D Environmental (P&D) is pleased to present this report documenting the results of the quarterly monitoring and sampling of the five wells at the subject site. This work was performed in accordance with P&D's proposal 022894.P2 dated February 28, 1994. All of the wells were monitored and sampled on July 5, 1994. A Site Location Map (Figure 1) and Site Plan (Figure 2) are attached with this report.

BACKGROUND

The site is presently used as an active gasoline station. It is P&D's understanding that on April 24, 1991 Aegis Environmental, Inc. (Aegis) personnel drilled four soil borings, designated as B-1 through B-4, to a vertical depth of approximately 40 feet at the site. The locations of the borings are shown on Figure 2. A total of nine soil samples collected from the boreholes were analyzed for total petroleum hydrocarbons as gasoline (TPH-G); benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8260; and for total lead by EPA Method 7420. TPH-G concentrations ranged from below detection limit to 66 parts per million (ppm). Benzene concentrations ranged from not detected to 0.94 ppm. Total lead concentrations ranged from not detected to 3 ppm. Documentation of the subsurface investigation and results are presented in a report prepared by Aegis titled, "Soil Boring Results Report," dated June 10, 1991.

It is P&D's understanding that on April 14, 1992 Aegis personnel returned to the site to drill three slant borings, designated as B5 through B7, to a total vertical depth of approximately 49 feet at the site. The borings were drilled at an angle of approximately 26 to 28 degrees to collect samples from beneath the underground storage tanks. The locations of the borings are shown on Figure 2. A total of twenty-two soil samples were analyzed for TPH-G using EPA Method 5030; and for BTEX using EPA Method 8240. In addition, one of the samples was analyzed for total lead using EPA Method 7420, and several of the soil samples were analyzed for soluble lead using the California Waste Extraction Test. TPH-G concentrations ranged from not detected to 4,000 ppm. Benzene, concentrations ranged from not detected to 0.061 ppm. Documentation of the subsurface investigation and results are presented in a report prepared by Aegis titled, "Initial Subsurface Investigation Results Report," dated June 22, 1992.

It is P&D's understanding that between September 15 and 18, 1992 Aegis personnel returned to the site to install five groundwater monitoring wells, designated as MW1 through MW5. The wells were drilled to total depths of between 50 and 55 feet, and were constructed using four-inch diameter PVC pipe. Wells MW1 and MW2 were constructed with perforated casing between the depths of approximately 15 and 55 feet. Wells MW3, MW4 and MW5 were constructed with perforated casing between the depths of approximately 35 and 55 feet. Groundwater was reported to have been first encountered at a depth of 42 feet. The locations of the wells are shown in Figure 2.

A total of thirty-one soil samples were analyzed for TPH-G using EPA Method 5030/8015; and for BTEX using EPA Method 8020. In addition, three soil samples containing TPH-G were analyzed for total metals concentrations of cadmium, chromium, lead, and zinc using EPA Method 6010 and 7421. One soil sample was collected from each borehole from below the air-water interface and analyzed for petrophysical properties, including saturated permeability and grain size distribution.

TPH-G concentrations ranged from not detected to 39 ppm. Benzene concentrations ranged from not detected to 0.27 ppm. The total metals concentrations were all less than 10 times their respective STLC values. The subsurface materials encountered in the borings indicate that soil types vary across the site, but generally consist of silty clay, silt, clayey silt and sandy silt from the surface to a depth of between 30 and 35 feet. Below the depth of 30 to 35 feet, layers of sand and sandy silt were reported to have been encountered.

It is P&D's understanding that on September 29, 1992 Aegis personnel collected groundwater samples from wells MW1, MW2, MW4 and MW5 at the site. A sample was not collected from well MW-3 due to the reported presence of 0.02 feet of floating hydrocarbons. The measured depth to water ranged from approximately 41.5 to 44.5 feet. The samples were analyzed for TPH-G using EPA Method 5030/8015; and for BTEX using EPA Method 8020. TPH-G concentrations ranged from 0.06 to 20 ppm, and benzene concentrations ranged from 0.16 to 10 ppm. Based upon the water level measurements in the wells, the groundwater flow direction was reported to be to the northwest. The water level measurements are summarized in Table 1. The analytical results are summarized in Table 2.

It is P&D's understanding that on October 7, 1992 Aegis personnel performed rising head slug tests wells MW1, MW2, and MW4 to estimate the saturated hydraulic conductivity at the site. In addition, two short-term soil vapor extraction tests were performed on wells MW1 and MW2. Wells MW-3, MW-4, and MW-5 were used as vacuum influence monitoring points. Documentation of the monitoring well groundwater sample collection, slug test and vapor extraction tests are presented in a report prepared by Aegis titled, "Problem Assessment Report," dated December 16, 1992.

On February 18, 1994 P&D personnel monitored the five groundwater monitoring wells at the site for depth to water and the presence of free product or sheen. The depth to water was measured using an electric water level indicator, and the presence of free product and sheen was evaluated using a transparent bailer. The measured depth to water in the wells ranged from approximately 39.8 to 42.9 feet. No evidence of free product or sheen was detected in any of the wells. Based on the measured depth to water in the wells, the groundwater flow direction was calculated to be to the north with a gradient of 0.054. The measured depth to water in the wells is presented in Table 1.

FIELD ACTIVITIES

On July 5, 1994 all five of the wells were monitored and sampled by P&D personnel. The wells were monitored for depth to water and the presence of free product or sheen. Depth to water was measured to the nearest 0.01 foot using an electric water level indicator. The presence of sheen was evaluated using a transparent bailer. No free product was observed in any of the wells, however a sheen was observed in well MW1. Depth to water level measurements and monitoring well groundwater surface elevations are presented in Table 1.

Prior to sampling, the wells were purged of a minimum of three casing volumes of water. During purging operations, the field parameters of electrical conductivity, temperature and pH were monitored. Once the field parameters were observed to stabilize, and a minimum of three casing volumes had been purged,

water samples were collected using a clean Teflon bailer. The water samples were transferred to 40-milliliter glass Volatile Organic Analysis (VOA) vials which were sealed with Teflon-lined screw caps. The VOA vials were overturned and tapped to assure that no air bubbles were present.

The VOA vials were then transferred to a cooler with ice, and later were transported to McCampbell Analytical, Inc. in Pacheco, California. McCampbell Analytical, Inc. is a State-certified hazardous waste testing laboratory. Chain of custody documentation accompanied the samples to the laboratory. Records of the field parameters measured during well purging are attached with this report.

HYDROGEOLOGY

The subsurface materials encountered in the borings drilled by Aegis indicate that soil types vary across the site, but generally consist of silty clay, silt, clayer silt and sandy silt from the surface to a depth of between 30 and 35 feet. Below the depth of 30 to 35 feet, layers of sand and sandy silt were reported to have been encountered. Groundwater has historically been encountered at the site at depths ranging from approximately 40 to 45 feet below grade.

Based upon the regional groundwater flow direction identified by Woodward-Clyde Consultants in a report titled, "Hydrogeology of Central San Leandro and Remedial Investigation of Regional Groundwater Contamination - San Leandro Plume - San Leandro, California - Volume I, prepared for the California Environmental Protection Agency and dated December 29, 1993 the regional groundwater flow direction to the west of the site appears to be to the southwest. However, based upon the measured depth to water at the site on September 29, 1992 Aegis identified a northwesterly groundwater flow direction. Based upon water level measurements collected by P&D on February 18 and July 5, 1994 the groundwater flow direction at the site was calculated to be to the north, towards San Leandro Creek.

The measured depth to water at the site on July 5, 1994 for wells MW1, MW2, MW3, MW4, and MW5 were 41.36, 40.13, 43.32, 39.69, and 43.08 feet respectively. Based on the July 5, 1994 water level measurements, the groundwater flow direction on July 5, 1994 was north with a gradient of 0.054. The groundwater flow direction and gradient have remained unchanged since the previous water level measurements were recorded on February 18, 1994. The groundwater monitoring data are presented in Table 1. The groundwater flow direction at the site on July 5, 1994 is shown on Figure 2.

LABORATORY RESULTS

All of the groundwater samples collected from the monitoring wells were analyzed for TPH-G using EPA Method 5030 in conjunction with Modified EPA Method 8015; and for BTEX using EPA Method 8020.

The laboratory analytical results for the groundwater samples showed that TPH-G and BTEX were not detected in well MW5, with the exception of 0.0010 ppm total xylenes. In wells MW1, MW2, MW3 and MW4, TPH-G was detected at concentrations of 3.0, 46.0, 3.6 and 2.6 ppm, respectively, and benzene was detected at concentrations of 1.3, 9.1, 1.6, and 0.47 ppm, respectively. The analytical results are summarized in Table 2. Copies of the laboratory analytical report and chain of custody documentation are attached with this report.

DISCUSSION AND RECOMMENDATIONS

Although regional groundwater flow direction identified by Woodward-Clyde Consultants appears to be to the southwest water level measurements collected in February and July, 1994 indicate that the groundwater flow direction at the site is to the north.

In a letter from P&D to the Alameda County Department of Environmental Health concerning the subject site, dated May 25, 1994 P&D proposed to collect quarterly groundwater flow direction data through one full hydrologic cycle to determine seasonal fluctuations in groundwater flow direction. Following evaluation of seasonal changes in groundwater flow direction at the site, P&D will provide recommendations for delineation of the extent of groundwater contamination.

Based on the laboratory analytical results of the quarterly groundwater monitoring samples, P&D recommends that the quarterly monitoring and sampling program be continued.

DISTRIBUTION

Copies of this report should be forwarded to Mr. Scott Seery at the Alameda County Department of Environmental Health and to the San Francisco Bay Regional Water Quality Control Board.

LIMITATIONS

This report was prepared solely for the use of Mr. Manmohan Chopra. The content and conclusions provided by P&D in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual site inspections; interviews with the site owner, regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgement based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between borings and pits and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly-revealed conditions must be evaluated and may invalidate the findings of this report.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals or entities which is used in this report. This report presents our professional judgement based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

TABLE 1 WELL MONITORING DATA

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)
MW1	7/05/94	87.96	41.36	46.60
	2/18/94		41.02	46.94
	9/29/92		42.77	45.19
MW2	7/05/94	86.60	40.13	46.47
	2/18/94		39.81	46.79
	9/29/92		41.55	45.05
MW3	7/05/94	87.50	43.32	44.18
	2/18/94		43.09	44.41
	9/29/92		44.60	42.90*
MW4	7/05/94	86.20	39.69	46.51
	2/18/94		39.36	46.84
-	9/29/92		44.29	41.91
MW5	7/05/94	89.06	43.08	45.98
	2/18/94	-	42.88	46.18
	9/29/92		44.53	44.53

The top of casing elevation is identified by Aegis Environmental, Inc. as being relative to either mean sea level or an arbitrary benchmark.

* Indicates groundwater elevation corrected for the presence of free product.

Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

RED GEOLOG

DONR, BRAUN No. 1310 CERTIFIED

ENGINEERING

GEOLOGIST

E OF CALIF

Sincerely,

P&D Environmental

Paul H. King Hydrogeologist

Don R. Braun

Certified Engineering Geologist Registration No.: 1310 Expiration Date: 6/30/96

PHK 0055.R1

Attachments: Tables 1 & 2

Site Location Map (Figure 1)

Site Plan (Figure 2) Field Parameter Forms

Laboratory Analytical Reports Chain of Custody Documentation

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS

Well No.	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes
		Sam	oles Collect July 5, 199	ed 4	
MW1	3.0	1.3	0.0038	0.035	0.0025
MW2	46.0	9.1	7.0	1.4	7.3
MW3	3.6	1.6	0.0083	0.076	0.047
MW4	2.6	0.47	0.045	0.084	0.25
MW5	ND	ND	ND	ND	0.0010
			ples Collect ptember 29,		
MW1	3.1	0.16	ND	ND	0.0060
MW2	20	4.6	3.8	0.26	3.3
мwз	NA	NA	NA	NA	NA
MW4	0.63	0.17	0.06	0.0073	0.65
MW5	0.06	10	0.0071	ND	0.0069

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

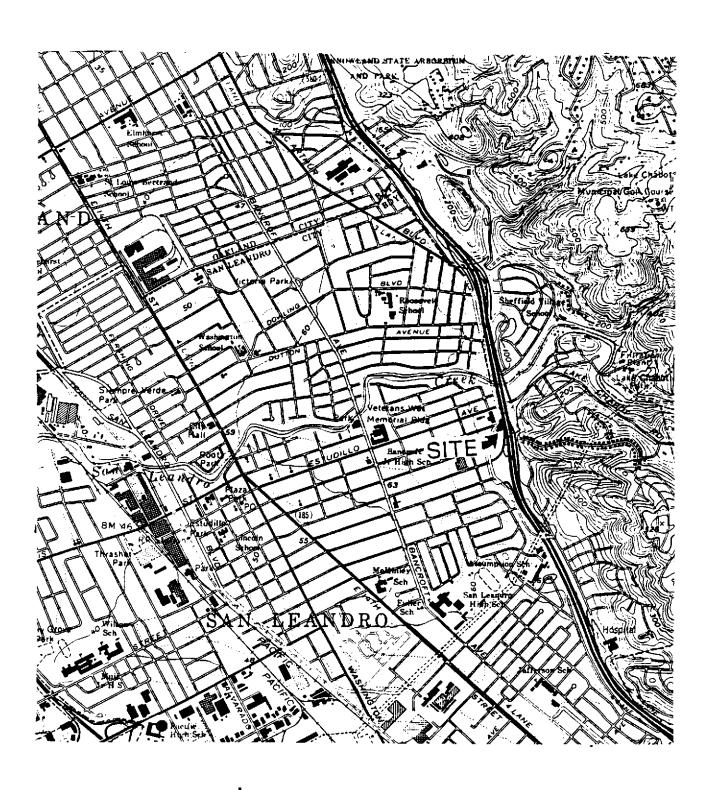
ND = Not Detected.

Results in parts per million (ppm), unless otherwise indicated.

NA = Not Analyzed. A sample was not collected because of the presence of free product.

P & D Environmental

4020 Panama Court Oakland, CA 94611 Telephone (510) 658-6916



Base Map from: U.S. Geological Survey San Leandro, Calif. 7.5 Minute Quadrangle Photorevised 1980

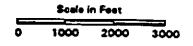
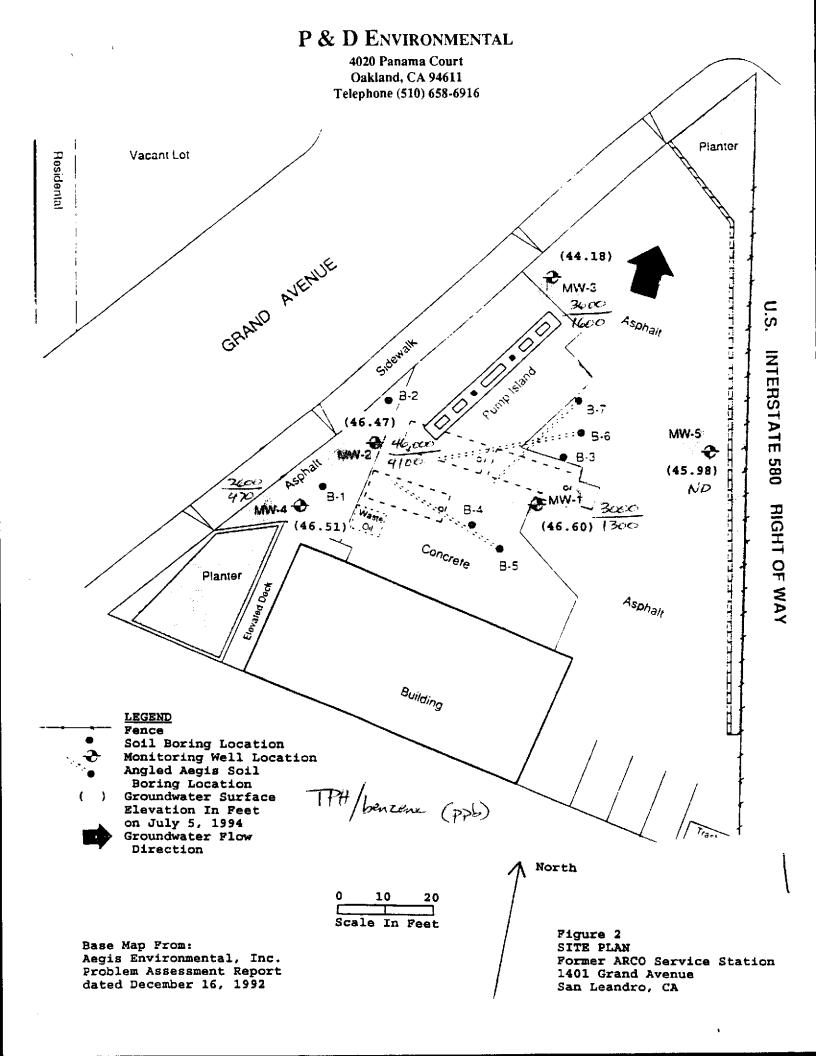


Figure 1
SITE LOCATION MAP
Former ARCO Service Station
1401 Grand Avenue
San Leandro, CA



Site Name 1401 Grand Avc. (SL)	well No. MWI
Job No. #0055	Date 7/5/44
TOC to Water (ft.) 41.36	Sheen Novementer Odor i'e
Well Depth (ft.) 52.38	Free Product Thickness
Well Diameter 4"	Sample Collection Method
Gal./Casing Vol. 7.2	Teflon Bailer
TIME GAL. PURGED DH /:55 3.6	ELECTRICAL (µs/cm) 66.2 /.18 x 1000 66.5 /.15 66.5 /.15 65.8 /.16 65.7 /.17 65.8 /.16 Sample Lat 2:45pm
NOTES: AOG	
Well purged using plastic	pailer
PURGE10.92	

Site Name 1401 Grand Ave. (SL)	Well No. MW 2
Job No. #0055	Date 7/5/94
TOC to Water (ft.) 40./3	Sheen Clarky water / order None
Well Depth (ft.) 52.65	Free Product Thickness
Well Diameter 4"	Sample Collection Method
Gal./Casing Vol. 8./4	Teflon Bouler
	TEMPERATURE OF CONDUCTIVITY (MS/CM)
1:30 407 5.5	
9:40 8.14 5.6.	$\frac{1}{2}$
9:50 12.21 5:4	((07.)
10:00 16.28 S.73	
10:10 20.35 5.75	64.6 1.26
10:20 24.42 5.79	64.7 /.27
	Sampled of 10:30am
	Eungled at 10:30am
NOTES: ROU	
Well proceed using plansfic	Bailer
PURGE10.92	
I OMODIA . > F	

Site Name 1401 Grand Ave	SL)	Well No		
Job No. # 0055	_	Date	7/5/94	
TOC to Water (ft.) 43.32	-		dywater /odor	Nont
Well Depth (ft.)	_		t Thickness Work	
Well Diameter 4	_	Sample Coll	Lection Method	
Gal./Casing Vol. 7.8	-	Teplon Ba	iler	
Gal./Casing vol	_		ELECTRICAL	
TIME GAL. PURGED	рн	TEMPERATURE	CONDUCTIVITY	• • · ·
10:45, 3.9	6.73	65.5	1.03 ×10	کافر
10:55 7.8	6.73	_66.7	1.03	
11:00 11.7	6.73	66.8	1.00	
11:10 15.6	6.73	_1do.9_	1.0/	
11:20 19.5	6.67	66.9	1.02	
11:30 23.4	6.67	66.9	1.00	
<u> </u>			11.116	
		aupled at	11.40	
				
				
	- 			
NOTES: A O				
AU5	0(1)	<u> </u>		
well purged using	plustic 2	parler		
PURGE10.92	•			

Site Name 1401 Grand Ave (SIA	Well No.	MWH	
			1/5/94	
Job No. # 0055	_			Jen KS
TOC to Water (ft.) 39.69	_		ndywater /odor >	
Well Depth (ft.) 53.25	_		ct Thickness 11	
Well Diameter 4"		Sample Col	lection Method	
Gal./Casing Vol 8.8		Teflon R	Sailer_	
-		A.P"	ELECTRICAL (IN)	W
TIME GAL. PURGED	рн	TEMPERATURE °F	ELECTRICAL (Volume CONDUCTIVITY (Volume CONDUCTIVITY)	
11:50 4.4	6.88	66.7	1.35 x 1000	
17:00 8.8	6.88	66.9	1.41	
12:10 13.2	6.79	650	1.37	
12:20 17.6	6.79	65.3	1.33	
	6.80	10C 2	1.35	
12:30 22		65.4	125	
12:40 26.4	6.88	03.		
		-1-		
	au	upled at	12:50pm	
			·	
			_	
				
			<u> </u>	
NOTES: NOC				
Well sured using	Plastic	Bailer		
PURGE10.92				

site Name 1401 Grand Ave (SL)	Well No
Job No. #0055	Date 7/5/94
TOC to Water (ft.) 43.08	Sheen clordy / No odor
Well Depth (ft.) 54.72	Free Product Thickness T
Well Diameter 4"	Sample Collection Method
Gal./Casing Vol. 7.6	Teplu Bailer
TIME GAL. PURGED PH	TEMPERATURE & ELECTRICAL (V)/cm)
1.05 GAL. PURGED PH 7.05	65.1 9.57×100
7.6 7.6	64.9 9.26
1.20 11.4 6.94	103.4 8.47
	63.7 8.50
$\frac{1.25}{1.20}$ $\frac{15.2}{1.60}$ $\frac{6.94}{1.60}$	
1:30 19 6.98	
1:40 22.8 6.98	63.7 8.48
	Sampled at 1:45
	Augua at 1.45
NOTES: A CA	
M)6	`1 -
well purged using plastic B	anct.
PURGE10.92	

P & D Environmental				0055; 140	1 Grand	Date Sampled: 07/05/94				
4020 Panama (Ct.	Avenue (S	Date Received: 07/05/94							
Oakland, CA 9	94611	Client Co	ntact: Paul K	ing		Date Extracted: 07/05-07/06/94				
		Client P.C	D:			Date Analyz	ed: 07/05-0	7/06/94		
EDA methods \$03	Gasoline Ran 30, modified 8015, and	ge (C6-C1	2) Volatile H	ydrocarbon	is as Gaso Region) me	line*, with B'	TEX*	٠.		
Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylben-	Xylenes	% Rec. Surrogate		
36493	MWl	w	3000,b,c	1300	3.8	35	2.5	102		
36494	MW2	w	46,000,a	9100	7000	1400	7300	100		
36495	MW3	W	3600,b,c	1600	8.3	76	47	101		
36496	MW4	w	2600,b,c	470	45	84	250	99		
36497	MW5	w	ND,b	ND	ND	ND	1.0	103		
		<u> </u>								
Detection L	imit unless other-	w	50 ug/L	0.5	0.5	0.5	0.5			
wise stated	; ND means Not etected	S	1.0 mg/kg	0.005	0.005	0.005	0.005			

^{*}water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

[#] cluttered chromatogram; sample peak co-elutes with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds are significant; no recognizable pattern; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible phase is present.

QC REPORT FOR HYDROCARBON ANALYSES

Date: 07/05-07/06/94 Matrix: Water

	Concent	ration	(ug/L)		% Reco	very			
Analyte	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD		
TPH (gas)	0.0	95.4	94.9	100	95.4	94.9	0.5		
Benzene Toluene	0	10.1 10	10 10	10 10	101.0	100.0 100.0	1.0		
Ethyl Benzene	0	10.3	10.1	10	103.0	101.0	2.0		
Xylenes	0	31.1	30.9	30	103.7	103.0	0.6		
TPH (diesel)	0	167	169	150	112	112	0.9		
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

P & D Environmental

4020 Panama Court Oakland, CA 94611 Telephone (510) 658-6916

CHAIN OF CUSTODY RECORD

PROJECT NUMBER: OO55 PROJECT NAME: 1401 Grand SAMPLED BY: (PRINTED AND SIGNATURE)				and A)	OF RS	THY Cond of SIS(ES).			//	//	//	47VE		
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