P & D ENVIRONMENTAL

A Division of Paul H. King, Inc. 4020 Panama Court Oakland, CA 94611 (510) 658-6916



Mr. L.B. Patel Mr. P. Gupta VIP Service 385 Century Circle Danville, CA 94526

SUBJECT: Quarterly Groundwater Monitoring and Sampling Report

VIP Service

3889 Castro Valley Blvd.

Castro Valley, CA

Gentlemen:

P&D Environmental, a division of Paul H.King, Inc. (P&D) is pleased to present this report documenting the results of the quarterly monitoring of groundwater monitoring wells MW1, MW2, and MW3 and the sampling of groundwater monitoring well MW3 at the subject site. This work was performed in accordance with P&D's proposal 022697.Pl dated February 26, 1997. The work was performed in accordance with requirements set forth in a letter from Mr. Scott Seery of the Alameda County Department of Environmental Health (ACDEH) dated March 18, 1994 for the subject site. Based upon a telephone conversation with Mr. Seery on July 31, 1995, the sampling of monitoring wells MW1 and MW2 was reduced to semi-annually. In addition, no further analysis for TPH-D was required for well MW3. All three wells were monitored and well MW3 was sampled once during this quarter.

The monitoring and sampling was performed on April 25, 1997. The reporting period is for February through April, 1997. A Site Location Map (Figure 1) and Site Plan (Figure 2) are attached with this report.

BACKGROUND

It is P&D's understanding that the site was purchased by VIP Service in December, 1984. Prior to purchase of the property by VIP Service, the site was operated as a retail gasoline station for an undetermined period of time. The site was operated as a retail gasoline station from the time of purchase by VIP Service until the tanks were removed by Accutite on April 26, 1993. The underground tank system consisted of three 10,000 gallon capacity gasoline tanks, two dispenser islands, and one 550 gallon waste oil tank. It is P&D's understanding that the fuel tanks contained leaded and unleaded gasoline while in use by VIP Service. In addition, VIP Service reported that diesel fuel was not stored at the site at any time.

It is P&D's understanding that at the time of tank removal, eight soil samples were collected from the sidewalls of the fuel tank pit, and one soil sample was collected from the waste oil tank pit. Groundwater was reported to have been encountered in the fuel tank pit at a depth of approximately 11 feet. One water sample was collected from the water in the fuel tank pit. On April 28, 1993 Accutite returned to the site and collected seven soil samples from beneath the dispenser islands.

All of the samples were analyzed at Sequoia Analytical in Redwood City, California for Total Petroleum Hydrocarbons as Gasoline (TPH-G); Benzene, Toluene, Ethylbenzene and Kylenes (BTEX); and for Total Lead. In addition, the samples from the waste oil tank were analyzed for Total Petroleum Hydrocarbons as Diesel (TPH-D); Total Oil and Grease (TOG); Halogenated Volatile Organic Compounds using EPA Method 8010; Semi-Volatile Organic Compounds using EPA Method 8270; and for the metals Cadmium, Chromium, Lead, Nickel and Zinc.

The results of the soil samples collected from the fuel tank pit showed TPH-G concentrations ranging from 120 to 6,200 parts per million (ppm), and total lead results ranging from not detected to 13 ppm. The results of the water sample from the fuel tank pit showed 140 ppm TPH-G, and 0.095 ppm total lead.

The results of the soil samples collected from beneath the fuel dispensers showed TPH-G values ranging from not detected to 4.7 ppm, and total lead values ranging from not detected to 7.6 ppm.

The results of the sample collected from the waste oil tank pit showed 670 ppm TPH-G; 410 ppm TPH-D; 1,300 ppm TOG; 0.023 ppm 1,2-Dichloroethane and 0.0094 ppm Tetrachloroethene in the EPA Method 8010 analysis; 2.7 ppm 2-Methylnapthalene and 3.8 ppm Naphthalene in the EPA Method 8270 analysis; and various metals concentrations, none of which exceeded ten times their respective STLC values. The laboratory identified the TPH-D results as being a "non-diesel mix," and indicated that the compounds reported as diesel were diesel-range gasoline and diesel-range oil compounds.

Between August 27 and November 1, 1993 P&D personnel collected stockpiled soil samples for stockpiled soil disposal characterization and oversaw the excavation of approximately 680 cubic yards of soil from the vicinity of the fuel tank pit in an effort to remove petroleum hydrocarbon-impacted soil. In addition, during this time the soil which was stockpiled by Accutite during the tank removal activities and during the subsequent soil excavation activities was disposed of at an appropriate disposal facility, and the tank pit backfilled and compacted. A total of eight confirmation soil samples were collected from the sidewalls of the tank pit on November 19, 1993 at a depth of 10 feet after over-excavation and prior to backfilling. The analytical results of the samples ranged from 33 to 3,200 ppm TPH-G. The sample collection locations are shown on the attached Site Plan, Figure 3. Documentation of excavation, stockpiled soil characterization and disposal, and backfilling of the pit are provided in P&D's report 0047.R1 dated January 24, 1994. The samples results associated with the removal of the tanks by Accutite are also summarized in P&D's report 0047.R1.

On November 10, 1993 P&D personnel oversaw the installation of three groundwater monitoring wells, designated as MW1 through MW3, and one exploratory soil boring, designated as B1, at the subject site. The wells were developed on November 12 and sampled on November 16, 1993. The results of the water samples showed that TPH-G was not detected in wells MW1 and MW2, and that BTEX was not detected in MW2. In well MW1, 0.0022 ppm of benzene was detected. In well MW3, TPH-G was detected at 12 ppm; BTEX was detected with benzene detected at 3.3 ppm; TRPH was not detected; EPA Method 8010 compounds were not detected except for 0.027 ppm 1,2-Dichloroethane; and EPA Method 8270 compounds were not detected except for 0.009 ppm Phenol, 0.006 ppm Benzyl Alcohol, 0.006 2-Methylphenol, 0.007 ppm 2,4-Dimethylphenol, 0.088 ppm Benzoic Acid, 0.042 ppm Naphthalene, and 0.015 2-Methylnapthalene.

Documentation of the monitoring well and soil boring installation and associated sample results are presented in P&D's report 0047.R2 dated January 24, 1994. The locations of the monitoring wells are shown in Figure 2.

In response to a letter dated March 18, 1994 from Mr. Scott Seery ACDEH which commented upon the results of the initial groundwater sampling associated with the installation of the monitoring wells at the subject site, a quarterly groundwater monitoring and sampling program was initiated.

FIELD ACTIVITIES

On April 25, 1997 all three of the monitoring wells at the site were monitored and well MW3 was 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 free product or sheen was evaluated using a transparent bailer. No free product or sheen was observed in any of the wells. Depth to water level measurements are presented in Table 1.

Prior to sampling, monitoring well MW3 was 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, a water sample was collected using a clean Teflon bailer.

The water sample was transferred to 40-milliliter glass Volatile Organic Analysis (VOA) vials and 1-liter amber glass bottles 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 and bottles were labeled and then transferred to a cooler with ice, until they 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. Water purged from the well during purging operations was stored in a DOT-approved 55-gallon drum pending appropriate disposal.

HYDROGEOLOGY

Water levels were measured in the monitoring wells once during the quarter. The measured depth to water at the site on April 25, 1997 ranged from 7.99 to 8.37 feet. Groundwater levels have decreased in wells MW1, MW2, and MW3 by 0.75, 0.88, and 0.69 feet, respectively, since the previous monitoring on January 31, 1997. The calculated groundwater flow direction at the site on April 25, 1997 was to the west with a gradient of 0.012. The apparent groundwater flow direction has shifted slightly to the west and the gradient has decreased since the previous quarterly monitoring on January 31, 1997.

Groundwater level data collected during the quarter are presented in Table 1. The groundwater flow direction at the site on April 25, 1997 is shown on Figure 2.

LABORATORY RESULTS

The groundwater sample from monitoring well MW3 (near the former waste oil tank) was analyzed for TPH-G using EPA Method 5030 in conjunction with Modified EPA Method 8015 (GCFID), BTEX and MTBE using EPA Method 8020, Halogenated Volatile Organic Compounds using EPA Method 8010, and for Semi-volatile Organic Compounds using EPA Method 8270.

The laboratory analytical results of the groundwater sample collected from monitoring well MW3 shows that TPH-G was detected at a concentration of 30 ppm; benzene was detected at a concentration of 5.3 ppm; MTBE was not detected; EPA Method 8010 compounds were not detected except for 1,2-Dichloroethane which was detected at a concentration of 0.012 ppm; and EPA Method 8270 compounds were not detected except for 0.0028 ppm Phenol, 0.0024 4-Methylphenol, 0.0028 ppm 2,4-Dimethylphenol, 0.066 ppm Naphthalene, and 0.015 ppm 2-Methylphenol.

DISCUSSION AND RECOMMENDATIONS

Based on the laboratory analytical results of the water samples collected from monitoring well MW3, P&D recommends that the quarterly groundwater monitoring of wells MW1, MW2, and MW3, the quarterly sampling of well MW3 and the

semi-annual sampling of wells MW1 and MW2 be continued. During the next quarter, all of the wells should be monitored and sampled.

DISTRIBUTION

Copies of this report should be distributed to Mr. Scott Seery at the Alameda County Department of Environmental Health, and to Mr. Kevin Graves at the San Francisco Bay Regional Water Quality Control Board. Copies of the report should be accompanied by a transmittal letter signed by the principal executive officer of VIP Service.

LIMITATIONS

This report was prepared solely for the use of VIP Service. 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 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 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.

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

Sincerely,

P&D Environmental

Paul H. King Hydrogeologist

Don R. Braun

Certified Engineering Geologist

Registration No.: 1310 Expiration Date: 6/30/98

PHK 0047.R17

Attachments: Tables 1 & 2

Site Location Map (Figure 1) Site Plan (Figure 2)

Field Parameter Form

Laboratory Analytical Results Chain of Custody Documentation

TABLE 1 WELL MONITORING DATA

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)
MW1	04/25/97	180.83	8.37	172.46
	01/31/97		7.62	173.21
	07/19/96		8.81	172.02
	04/23/96		8.17	172.66
	01/17/96		9.66	171.17
	10/26/95		10.00	170.83
	08/15/95		9.23	171.60
	05/02/95		8.56	172.27
	01/30/95	•	9.50	171.33
	10/31/94		11.55	169.28
	07/29/94	•	10.86	169.97
	04/25/94		10.70	170.13
	11/16/93		11.63	169.20
	11/12/93*		11.53	169.30
MW2	04/25/97	179.70	8.10	171.60
	01/31/97		7.22	172.48
	07/19/96		8.57	171.13
	04/23/96		7.85	171.85
	01/17/96	•	8.94	170.76
	10/26/95		9.68	170.02
	08/15/95		8.91	170.79
	05/02/95		8.17	171.53
•	01/30/95		8.68	171.02
	10/31/94		10.99	168.71
	07/29/94		10.34	169.36
	04/25/94		10.04	169.66
	11/16/93		11.10	168.60
	11/12/93*		10.95	168.75
MW3	04/25/97	178.98	7.99	170.99
	01/31/97		7.30	171.68
,	07/19/96		8.42	170.56
	04/23/96		7.76	171.22
	01/17/96		8.61	170.37
	10/26/95		9.39	169.59
,	08/15/95		8.62	170.36
	05/02/95		8.04	170.94
	01/30/95		8.46	170.52
	10/31/94		10.58	168.40
	07/29/94	•	10.03	168.95
	04/25/94		9.64	169.34
	11/16/93		10.63	168.35
	11/12/93*		10.66	168.32

NOTES:

Elevations are in feet Mean Sea Level.

ft. = Feet.
* = Depth to water measurements prior to groundwater monitoring well
 development.

TABLE 2
GROUNDWATER
LABORATORY ANALYTICAL RESULTS

Sample Location	TPH-D	TPH-G	Benzene	Toluene	Kthyl- benzene	Xylenes	
•		Sample	Collegated Legal Lega	on			
MW1	NA	NA	NA	AM	NA	NA	
MW2	NA	NA	NA	NA	NA	NA	
MW3+	NA	30	5.3 2	0.52	0.95	3.0	
Samples Collected on January 31, 1997							
MWl	NA	ND	ND	ND	ND	ND	
MW2	NA	ND	ND	ND	ND	ND	
MW3++	NA	5.5	1.6	0.10	0.19	0.41	
Samples Collected on July 19, 1996							
WWI	NA	NA	NA	NA	NA	NA	
MW2	NA	NA	NA	NA	NA	NA	
MW3+++	NA	18	4.8	0.61	0.76	2.8	

NOTES:

TPH-D = Total Petroleum Hydrocarbons as Diesel. TPH-G = Total Petroleum Hydrocarbons as Gasoline.

ND = Not Detected.

NA = Not Analyzed.

++ = In MW3, MTBE was detected at a concentration of 0.063 ppm; EPA Method 8010 compounds were not detected except for 0.014 ppm 1,2 Dichloroethane; and EPA Method 8270 compounds were not detected except for Phenol, 2,4-Dimethylphenol, Naphthalene, and 2-Methylnaphthalene which were detected at concentrations of 0.0094, 0.0028, 0.031, and 0.0048 ppm, respectively. +++ = In MW3, EPA Method 8010 compounds were not detected; EPA Method 8270

+++ = In MW3, EPA Method 8010 compounds were not detected; EPA Method 8270 compounds were not detected except for 0.0022 ppm 2,4-Dimethylphenol, 0.1 ppm Naphthalene, and 0.022 ppm 2-Methylnaphthalene. The EPA Method 8020 showed that MTBE was detected in MW3 at a concentration of 0.21 ppm.

TABLE 2 GROUNDWATER LABORATORY ANALYTICAL RESULTS (Continued)

Sample Location	TPH-D	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	
	·		s Collected il 23, 1996	on			
MW1	NA	ND	ND	ND	ЙD	ND	
MW2	NA	ND	ND	ND	ND	ND	
MW3++++	NA	9.7	2.9	0.17	0.38	0.68	
	Samples Collected on January 17, 1996						
MW1	NA	NA	NA	NA	NA	NA	
MW2	NA	NA	NA	NA	NA	NA	
MW3+++++	NA	21	4.1	0.37	0.52	1.5	
Samples Collected on October 26, 1995							
MW1@	NA	ND	ND	ND ·	ND	ND	
MW2@	NA	ND	ND	ND	ND	ND	
MW3@	NA	19	4.0	0.48	0.64	1.8	

NOTES:

TPH-D = Total Petroleum Hydrocarbons as Diesel. TPH-G = Total Petroleum Hydrocarbons as Gasoline.

ND = Not Detected.

NA = Not Analyzed.

++++ = In MW3, EPA 8010 compounds were not detected except for 0.0051 ppm 1,2-Dichloroethane; EPA 8270 compounds were not detected except for Naphthalene and Phenol which were detected at concentrations of 0.056 and 0.025 ppm, respectively. The EPA Method 8020 results showed that MTBE was not detected in MW1 or MW2, and was detected in MW3 at a concentration of 0.15 ppm.

+++++ = In MW3, EPA 8010 compounds were not detected except for 0.011 ppm 1,2
Dichloroethane; EPA 8270 compounds were not detected except for 0.0022
ppm Phenol, 0.0051 ppm 4-Methylphenol, 0.0029 ppm 2,4-Dimethylphenol,
0.032 ppm Naphthalone and 0.010 ppm 2.Methylpaphthalone

0.032 ppm Naphthalene, and 0.010 ppm 2-Methylnaphthalene.

© = In MW3, EPA 8010 compounds were not detected except for 0.011 ppm 1,2-Dichloroethane; EPA 8270 compounds were not detected except for 0.043 ppm Naphthalene. The EPA Method 8020 results showed that MTBE was not detected in MW1 or MW2, and was detected in MW3 at a concentration of 0.24 ppm.

TABLE 2 GROUNDWATER LABORATORY ANALYTICAL RESULTS (Continued)

Sample Location	TPH-D	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	
			s Collected ust 15, 1995				
MW1	NA	NA	NA	NA	NA	NA	
MW2	NA	NA	NA	NA	NA	NA	
MW3@@	NA	7.0	2.4	0.23	0.26	0.73	
·	Samples Collected on May 2, 1995						
MW1	NA	ND	ND	ND	ND	ND	
MW2	NA	ND	ND	ND	ND	ND	
MW3@@@	0.84	18	5.4	0.39	0.65	1.7	
			s Collected (ary 30, 1995			·	
MW1	NA	ND	ND	ND	ND	ND	
MW2	NA	ND	ND	ND	ND	ND	
MW3@@@@	0.70	24	7.6	0.35	0.90	2.2	

NOTES:

TPH-D = Total Petroleum Hydrocarbons as Diesel.

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

ND = Not Detected.

NA = Not Analyzed.

@@ = EPA 8010 compounds were not detected except for 0.0091 ppm 1,2-Dichloroethane; EPA 8270 compounds were not detected except for 0.003 ppm 4-Methylphenol, 0.005 ppm 2,4-Dimethyl Phenol, 0.019 ppm Naphthalene, and 0.003 ppm 2-Methylnaphthalene.

@@@ = Review of the laboratory report and discussions with the laboratory indicate that the results reported as TPH-D are gasoline-range compounds. EPA 8010 compounds not detected except for 0.014 ppm 1,2-Dichloroethane; EPA 8270 compounds were not detected except for 0.010 ppm 2-Methyl naphthalene and 0.062 ppm Naphthalene.

@@@@ Review of the laboratory report and discussions with the laboratory indicate that the results reported as TPH-D are gasoline-range compounds. EPA 8010 compounds not detected except for 0.018 ppm 1,2-Dichloroethane; EPA 8270 compounds were not detected except for 0.014 ppm 2-Methyl naphthalene and 0.11 ppm Naphthalene.

TABLE 2
GROUNDWATER
LABORATORY ANALYTICAL RESULTS
(Continued)

Sample Location	TPH-D	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes
			s Collected o ber 31, 1994			
MW1	NA	ND	ND	ND	ND	ND
MW2	NA	ND	ND	מא	ND	ND
MW3@@@@@	0.60	8.7	2.6	0.26	0.32	0.92
			s Collected of 1994	o n		
MW1	NA	ND	0.0012	ND	ND	ND
MW2	NA	ND	ND	ND	ND	ND
MW3# 0.67	6.3	2.0	0.13	0.22	0.52	
			s Collected of 125, 1994	on		
MW1	ND	ND	ND	ND	ND	ND
MW2	ND	ND	ND	ND	ND	ND
MW3##	2.1	17	4.8	0.47	0.29	1.6

NOTES:

TPH-D = Total Petroleum Hydrocarbons as Diesel. TPH-G = Total Petroleum Hydrocarbons as Gasoline.

ND = Not Detected.

NA = Not Analyzed.

@@@@@= Review of the laboratory report and discussions with the laboratory indicate that the results reported as TPH-D are gasoline-range compounds. EPA 8010 compounds not detected except for 0.019 ppm 1,2-Dichloroethane; EPA 8270 compounds were not detected except for 0.008 ppm 2-Methyl naphthalene, 0.047 ppm Naphthalene, and 0.002 ppm Bis(2-Ethylhexyl) Pthalate.

= Review of the laboratory report and discussions with the laboratory indicate that the results reported as TPH-D are gasoline-range compounds. EPA 8010 compounds not detected except for 0.0077 ppm 1,2-Dichloroethane; EPA 8270 compounds not detected except for 0.008 ppm 2-Methylnaphthalene and 0.044 ppm Naphthalene.

= Review of the laboratory report and discussions with the laboratory indicate that the results reported as TPH-D are gasoline-range compounds. EPA 8010 compounds not detected except for 0.28 ppm 1,2-Dichloroethane; EPA 8270 compounds not detected except for 0.013 ppm 2-Methylnapthalene and 0.084 ppm Naphthalene.

TABLE 2 GROUNDWATER LABORATORY ANALYTICAL RESULTS (Continued)

Sample Location	TPH-D	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes
			les Collected vember 16, 19			
MW1	NA	ND	0.0022	ND	ND	ND
MW2	NA	ND	ND	ND	ND	ND
MW3###	NA	12	3.3	. 0.0	66 0.	24 1.6

NOTES:

TPH-D = Total Petroleum Hydrocarbons as Diesel. TPH-G = Total Petroleum Hydrocarbons as Gasoline.

ND = Not Detected.

NA = Not Analyzed.

= TRPH not detected; EPA 8010 compounds not detected except for 0.027 ppm 1,2-Dichloroethane; EPA 8270 compounds not detected except for 0.009 ppm Phenol, 0.006 ppm Benzyl Alcohol, 0.006 2-Methylphenol, 0.007 ppm 2,4-Dimethylphenol, 0.088 ppm Benzoic Acid, 0.042 ppm Naphthalene, and 0.015 ppm 2-Methylnapthalene.

P & D Environmental

A Division of Paul H. King, Inc. 4020 Panama Court Oakland, CA 94611 (510) 658-6916



Base Map From U.S. Geological Survey Hayward, Calif. 7.5 Minute Quadrangle Photorevised 1980

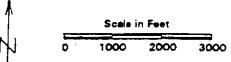
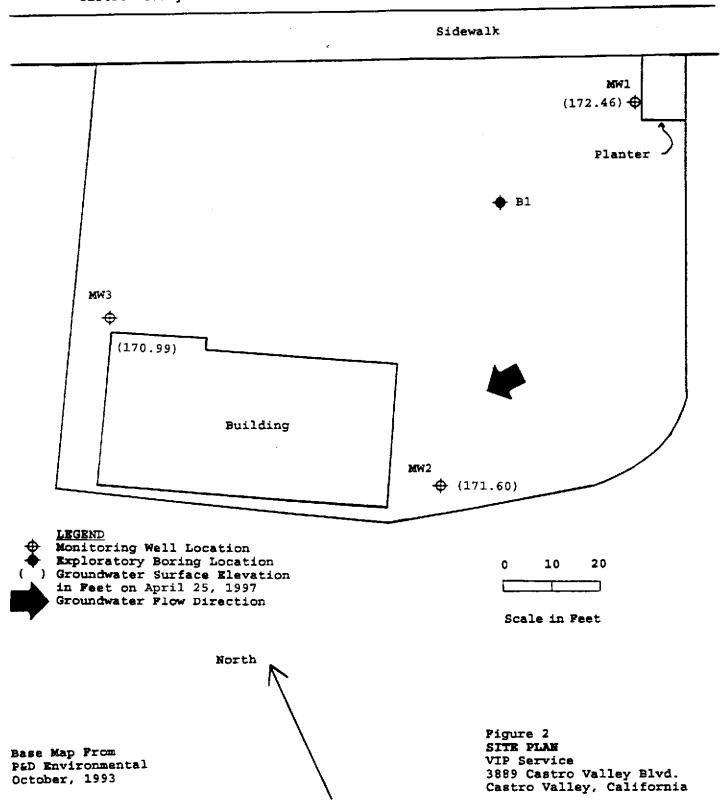


Figure 1
SITE LOCATION MAP
VIP Service
3889 Castro Valley Blvd.
Castro Valley, California

P & D Environmental

A Division of Paul H. King, Inc. 4020 Panama Court Oakland, CA 94611 (510) 658-6916

Castro Valley Boulevard



P&D ENVIRONMENTAL GROUNDWATER MONITORING/WELL PURGING DATA SHEET

• • • •

	Site Name VIP Service	Well No	MW3
	Job No. 0047	Date4	25/97
	TOC to Water (ft.) 7,99	Sheen	Jone
	Well Depth (ft.) 19.00		Thickness
	Well Diameter 2"	Sample Collec	ction Method
	Gal./Casing Vol. /, 8	Tefler Ban	ler
	TIME GAL. PURGED	ph TEMPERATURE	ELECTRICAL (µ5/cm)
	11:00 0.9	6.75 61.5	2.40 x100
	(1.05 1.8	6.70 101.0	5.60
	11:10 2:7	660 615	4.21
	11:15 3.6	10:40 (01.5	3.95
	11:20 4.5	6.38 (d.5	3.80
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	11:40 Spurpled		
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mw2	-8.10 A	Jone ¢	

110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

P & D Env	vironmental		Client Proje	ct ID: # 004	7; VIP Sex	vice !	Date Sampled: 04/25/97 Date Received: 04/25/97		
4020 Pana	ma Court					[
Oakland, (CA 94611		Client Conts	ict: Paul Kir	ıā]	Date Extrac	ted: 04/29	/97
	·		Client P.O:			1	Date Analyz	zed: 04/29/	97
	s 5030, modified 80								BTEX*
Lab ID	Client ID	Matrix	TPH(g)~	МТВЕ	Benzene	Tolucne	Ethylben- zene	Xylenes	% Rec. Surrogate
75913	MW3	W	30,000,a,h	ND< 440	5300	520	950	3000	100
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Reporting	Limit unless	w	50 ug/L	5.0	0.5	0.5	0.5	0.5	
means n	e stated; ND tot detected reporting limit	s	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

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

[#]cluttered chromatogram; sample peak coelutes 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 having broad chromatographic peaks are significant; biologically altered gasoline?; 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 sheen is present; i) liquid sample that contains greater than - 5 vol. % sediment; j) no recognizable pattern.

P & D Environmental	Client Project ID: # 0047; VIP Service		Date Sampled: 04/25/97	
4020 Panama Court			Date Receive	d: 04/25/97
Oakland, CA 94611	Client Contact: Paul	King	Date Extracted: 04/28/97	
	Client P.O:		Date Analyze	d: 04/28/97
	Volatile F	lalocarbons		
EPA method 601 or 8010				
Lab ID	75913			
Client ID	MW3			
<u>Matrix</u>	W		******	
Compound		Concentrat	on	
Bromodichloromethane	ND !			
Bromoform ^(b)	ND	· 	···	
Bromomethane (c)	ND			
Carbon Tetrachloride ^(c)	ND		· · · · · · · · · · · · · · · · · · ·	
<u>Chlorobenzene</u>	ND	<u> </u>	7	
Chlorocthane	ND I			
2-Chloroethyl Viny l Ether (d)	ND ND			
Chloroform (e)	ND			
Chloromethane	ND			
Dibromochloromethane	ND			
1,2-Dichlorobenzene	ND			
1,3-Dichlorobenzene	ND			
1,4-Dichlorobenzene	ND	<u> </u>		
Dichlorodifluoromethane	ND			
l,l-Dichloroethane	ND			
,2-Dichloroethane	12		, i	
l.l-Dichloroethene	ND			
eis 1,2-Dichloroethene	ND			
rans 1,2-Dichloroethene	ND			
.2-Dichloropropane	ND	ļ	, and a second	
cis 1,3-Dichloropropene	ND			
rans 1,3-Dichloropropene	ND			
Methylene Chloride (f)	ND< 1		<u> </u>	<u> </u>
1.2,2-Tetrachloroethane	ND			nd
Tetrachloroethene	ND			
,1,1-Trichloroethane	ND			
1,2-Trichloroethane	ND			
Trichloroethene	ND		H L	
Prichlorofluoromethane	ND	1	-	
Vinyl Chloride ^(g)	ND	<u> </u>		
% Recovery Surrogate	107			
Comments	h		·	

Reporting limit unless otherwise stated: water/TCLP extracts, ND< 0.5ug/L; soil and sludge, ND< 5ug/kg

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

⁽b) tribromomethane; (c) tetrachloromethane; (d) (2-chloroethoxy) ethene; (e) trichloromethane; (f) dichloromethane; (g) chloroethene;

⁽h) a lighter than water immiscible sheen is present; (i) liquid sample that contains greater than - 5 vol. % sediment.

DHS Certification No. 1644

CHROMALAB, INC.

Environmental Services (SDB)

May 5, 1997

Submission #: 9704471

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: #0047-PDE

Received: April 28, 1997

Project#: 8551

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis. Method: SW846 Method 8270A Nov 1990

Client Sample ID: WW-3/75913

Sp1#: 129232

Sampled: April 25, 1997

Matrix: WATER Run#: 6549

Extracted: April 29, 1997 Analyzed: May 1, 1997

ANALYTE	RESULT	REPORTING LIMIT	Blank Result	SPIKE	DILUTION FACTOR
PHENOL	2.8	(ug/L)	(nd/r)	(%) 27.8	
BIS (2-CHLOROETHYL) ETHER	พี.อิ.	2.0	N.D.	27.8	3
4°CHLOROPHRNOT.	N.D.	2.0	N.D.		7
1,3-DICHLOROBENZENE	N.D.	2.0 2.0 2.0	N.D.	51.0	₹
1,4-DICHLORORENZENE	N.D.	2.0	N.D.		Ť
SENZYL ALCOROT.	N.D.	2.0	N.D.	58.o	<u>+</u>
1.2-DICHTOROPENTERNIE	N.D.	2.0 5.0 2.0	N.D.		#
Z-METHYLPHENOT.	M.D.	2.0	N.D.		17111111111111111111111111111111111111
BIS (2-CKT/OROTOODDODV) 1 meeting	N.D.	2.0	N.D.		÷
TIME IN LIPERING.	N.D.	2.0	N.D.		1
N-NITROSO-DI-W-DEODVI AMEND	2.4	2.0	N.D. N.D.		+
HEXACHLOROSTHANE	N.D.	2.0	N,D.	60.7	÷
NITROBENZENE	Ŋ.D.	2.¢	N.D.	00.7	į
ISOPHORONE	N.D. N.D.	2.0	N.D.		<u>.</u>
Z-NITROPHENOL	N.D.	2.0	N.D.		
2,4-DIMETHYLPHENOL	N.D.	2.0	N.D.		1
BIS /2-CULOROUMENOL	2.8	2.0	N.D.	7-	1
BIS (2-CHLOROETHOXY) METHANE 2,4-DICHLOROPHENOL	N.D.	5.0	N.D.		1
7 2 A TOTOROPHENOL	N.D.	5.0 2.0	N.D.	~ -	1
1.2.4-TRICHLOROBENZENE	N.D.	2.0	N.D.		1
4-CHLOROANILINE	56	2 N	N.D.	54.3	ייים און
A CHIOKOWATTIME	N.D.	2.0	N.D.		1
HEXACHLOROBUTADIENE	N.D.	5.0	tv.D.		1
4-CHLORO-3-METHYLPHENOL	N,D.	5.0	N.D.		1
2-METHYLNAPHTHALENE	15	2.0	N.D.	58.7	1
HEXACHLOROCYCLOPENTADIENE	N.D.	2.0	N.D.		1
2,4,6-TRICHLOROPHENOL	N.D.	2.0	N.D.	- •	ī
2,4,5-TRICHLOROPHENOL	N D	2.0	N.D.	• •	ī
4 CHLORONAPHTHAT DWD	N.D. N.D.	2.0	N.D.		ī
2-NITROANILINE	N.D.	2.0	N.D.		ī
DIMETHYL PHINALATE	N.D.	10	N.D.		î
ACENAPHTHYLENE	Ñ.Ď.	5.0	N.D.		ī
3-NITROANILINE	N.D.	2.0	N.D.		ร
ACENAPHTHENE	N.D.	10	N.D.		
2,4-DINITROPHENOL	N.D.	2.0	N.D. N.D.	67. 7	7
4-NITROPHENOL	N.D.	10	N.O.		7
DIBENZOFURAN	N.D.	10	N.D.	30.5	1 1 1 1
2,4-DINITROTOLUENE	N.D.	2.5	N.D.		†
4.0-DINITROTOGIENE	N.D.	2.0	N.D.	58.7	*
SIRTHYL PHYMAT.byp		5.0	N.O.		÷
4-CHLOROPHENYL PHENYL ETHER	N.D.	5.0	N.D.		<u>.</u>
22200	N.D.	2.0	N.D.	.	1

CHROMALAB, INC.

Environmental Services (SDB)

May 5, 1997

MCCAMPBELL ANALYTICAL, INC.

Submission #: 9704471

page 2

Atten: Ed Hamilton

Project: #0047-PDE

Received: April 28, 1997

Project#: 8551

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis,

Method: SW846 Method 8270A Nov 1990

Client Sample ID: MW-3/75913

Spl#: 129232

Sampled: April 25, 1997

Matrix: WATER Run#: 6549

Extracted: April 29, 1997

Analyzed: May 1, 1997

		TO TOTAL COMMENTS		, ij	,,
4 · *		REPORTING	BLANK	BLANK	DILUTION
ANALYTE	result	LIMIT	result	SPIKE	
FLUORENE	(uq/L)	(uq/L)	(Uq/L)		FACTOR
4-NITROANILINE	N.D.	5.0	N.D.	<u>(}</u>	
2 METEUT & C TOWN		10	M.D.		1
2-METHYL-4, S-DINITROPHEN		10	N.D.		Ī
・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・			N.D.	- -	Ŧ
* TOMONOUPHERY), BUIDNYY 50555	ER N.D	2.0	N.D.		7
A DAME DESCRIPTION OF REPORTS		5.0	N.D.	. .	÷
PENTACHI ORODURNIOI.	Ŋ.D.	2.0	N.D.		*
PHENANTHERNE:	N.D.	10	N.D.	50.0	<u>.</u>
ANTHRACENR	N.D.	2.0	N.D.	20.0	<u>.</u>
DI-N-BUTYL PHYHALATE	N.D.	2.0	N.D.		1
FLUORANTHENE	N.D.	5 .0	N.D.	~ -	1
PYRENE	N.D.	2.ò	N.D.		1
BUTYL BENZYL PETRALATE	N.D.	2.0	N D		1
3 31 DIGHT OF PRINALATE	N.D.	5.0	N.D.	83.0	4
3,3'-DICHLOROBENZIDINE	N.D.	5.0	Ŋ.D.		1
BENZO (A) ANTHRACENE		2.0	Ŋ.Ď.	 ~	1
BIS(2-ETHYLMEXYL) PHTHALAT	E N.D.		Ŋ.D.	- -	7
WIRI BENE	N.D.	5.0	N.D.		
DI-N-OCTYL PHTHALATE		2.0	N.D.	- -	÷
BEACO (F) FT. MODANITARIAN	N.D.	5.0	N.D.		:
PENZUIKIRI IKBANTATOWA	N.D.	2.0	N.D.		Ŧ
DENZU (A) PYRRMP	N.D.	2.0	N.D.		1
LNUKNO (1, 2, 3, C n) Evopom	Ŋ.D.	2.0	N.D.		1
DIBENZO (A, H) ANTHRACENE	N.D.	2.0	N.D.	• •	1
BENZO (G, H, I) PERYLENE	N.D.	2.0	N.D.		1
BENZOIC ACID	N.D.	2.0	N.D.	- -	1
	7AT 170	7.0		*	1
Note: 2-fluorophanol	Surrogate) outside	of accepta	N.D.		1

utside of acceptance limit due to matrix See surrogate summary page.

Michael Lee Chemist

Operations Manager

CHROMALAB, INC.

Environmental Services (SOB)

May 5, 1997

Submission #: 9704471

MCCAMPBELL ANALYTICAL, INC.

Actes: Ed Hamilton

Project: #0047-PDB

Received: April 28, 1997

Project#: 8551

re: Surrogate report for 1 sample for Semivolatile Organic Compounds

Method: SW846 Method 8270A Nov 1990

Lab Run#: 6549 Matrix: WATER

Sample#	Client Sample ID	Surrogate	* Recovery Recovered Limits
129232-1	MW-3/75913	NITROBENZENE-D5	54.0 35-114
129232-1	MW-3/75913	2-FLUOROBIPHENYL	57.5 43-126
129232-1	MW-3/75913	P-TERPHENYL-D14	80.8 33-141
129232-1	MW-3/75913	PHENOL-D5	15.8 10-110
129232-1	MW-3/75913	2-FLUQROPHENOL	7.04 25-100
129232-1	MW-3/75913	2,4,6-TRIBROMOPHENOL	72.8 10-123
			* Recovery
Samele#	OC Sample Type	Surrogate	Recovered Limits
129296-1	Reagent blank (MDB)	NITROBENZENE-D5	69.5 35-114
129296-1	Reagent blank (MDB)	2-FLUOROBIPHENYL	69.4 43-116
129296-1	Reagent blank (MDB)	P-TERPHENYL-D14	70.9 33-141
129296-1	Reagent blank (MDB)	PREMOL-D5	22.6 10-110
129296-1	Reagent blank (MDB)	2-FLUOROPHENOL	34.6 25-100
129296-1	Reagent blank (MDB)	2,4,6-TRIBROMOPHENOL	60.4 10-123
129297-1	Spiked blank (BSP)	NITROBENZENE-D5	67.5 35-114
129297-1	Spiked blank (BSP)	2-FLUOROBIPHENYL	68.8 43-116
125297-1	Spiked blank (BSP)	P-TERPHENYL-D14	94.5 33-141
129297-1	Spiked blank (BSP)	PHENOL-D5	37.8 10-110
129297-1	Spiked blank (BSP)	2-FLUOROPHENOL	52.3 25-100
129297-I	Spiked blank (BSP)	2,4,6-TRIBROMOPERNOL	71.2 10-123
129298-1	Spiked blank duplicate	(BSD) NITROBENZENE - DS	71.2 35-114
129298-1	Spiked blank duplicate	(BSD) 2-FLUOROBIPHENYL	67.6 43-116
129298-1	Spiked blank duplicate	(BSD) P-TERPHENYL-D14	81.3 33-141
129298-1	Spiked blank duplicate	(BSD) PHENOL-DS	39.0 10-110
129298-1	Spiked blank duplicate	(BSD) 2-FLUOROPHENOL	54.1 25-100
129298-1	Spiked blank duplicate	(BSD) 2, 4, 6-TRIBROMOPHENOL	70.6 10-123

S101 OCSUMR1229 MIXELES OF MULES 711

P & D ENVIRONMENTAL
A Division of Paul H. King, Inc.
4020 Pavama Court
Oakland, CA 94611
(510) 658-6916

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ł	Allund grande RELINQUISHED BY:	4/24/2 DAJE		RESERVED BY: (SICHATURE)		4/21		TOTAL NO. OF CONTAINE (THIS SHIPMENT)					·	ACCAMPBELL Analytical ABORATORY PHONE NUMBER:						
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