

Certified mail
2-778-662-135

VIP Service Station
C/O Patel L. B.
385 Century Circle
Danville, CA 94526
July 5, 1994

Alameda County
Health Care Services
Deprt. of Envir. Health
80 Swan Way, Room 200
Oakland, CA 94621

Attn: Mr. Scott Seery

Site: VIP Service Station
3889 Castro Valley Blvd.
Castro Valley, CA 94546

Subject: Quarterly Ground water Monitoring And Sampling Report
P & D Environmental Report # 0047.R3

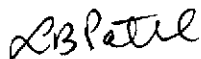
Gentlemen:

We are submitting subject report documenting quarterly ground water monitoring report for your information as required for continued monitoring at above site.

Above report is prepared by our consultant P & D Environmental with very close direction of Alameda County Health Department.

Should you have any questions regarding above subject, please contact us.

Sincerely,



L. B. Patel

Attachment: Above report.

55 JUL -8 11:15
HAZMAT

P & D ENVIRONMENTAL

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

May 31, 1994
Report 0047.R3

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 (P&D) is pleased to present this report documenting the results of the initial quarterly monitoring and sampling of the wells at the subject site. This work was performed in accordance with P&D's proposal 012494.P1 dated January 24, 1994. 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 dated March 18, 1994 addressed to VIP Service and concerning the subject site. 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 Xylenes (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.

91 JUN 12 11:00 AM
HAZARDOUS

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-Methylnaphthalene 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-Methylnaphthalene.

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 of the Alameda County Department of Environmental Health (ACDEH) addressed to VIP Service 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, 1994 all of the monitoring wells at the site 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 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, the monitoring wells were purged of a minimum of three casing volumes of water, or until the wells had been purged dry. 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 or the wells had been purged dry and partially recovered, water samples were collected using a clean Teflon bailer.

The water samples were 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 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.

HYDROGEOLOGY

Water levels were measured in the monitoring wells once during the quarter. The measured depth to water at the site on April 25, 1994 ranged from 9.64 to 10.70 feet. Groundwater levels have increased in wells MW1, MW2 and MW3 by 0.93, 1.06 and 0.99 feet, respectively, since the previous monitoring on November 16, 1993. The calculated groundwater flow direction on April 25, 1994 was to the west with a gradient of 0.0066. The groundwater gradient has decreased and the groundwater flow direction has shifted slightly from the west-southwest direction calculated during the previous monitoring on November 16, 1993.

Groundwater level data collected during the quarter are presented in Table 1. The groundwater flow direction at the site on April 25, 1994 is shown on Figure 2.

LABORATORY RESULTS

All of the groundwater samples from the monitoring wells were analyzed for TPH-G, BTEX and TPH-D. In addition, the groundwater sample from monitoring well MW3, located downgradient from the former fuel and waste oil tank pits, was analyzed for EPA Method 8010 and EPA Method 8270 compounds.

The laboratory analytical results of the groundwater samples collected from the monitoring wells show that TPH-G and BTEX were not detected in wells MW1 and MW2. In well MW3, TPH-G was detected at 17 ppm; benzene was detected at 4.8 ppm; TPH-D was detected at 2.1 ppm; EPA Method 8010 compounds were not detected except for 0.28 ppm 1,2-Dichloroethane; and EPA Method 8270 compounds were not detected except for 0.013 ppm 2-Methylnaphthalene and 0.084 ppm Naphthalene.

DISCUSSION AND RECOMMENDATIONS

Based on the laboratory analytical results of the water samples collected from the monitoring wells, P&D recommends that the quarterly groundwater monitoring and sampling program be continued to evaluate groundwater flow direction and quality during one entire hydrologic cycle.

DISTRIBUTION

Copies of this report should be distributed to Mr. Scott Seery at the Alameda County Department of Environmental Health, and to Mr. Richard Hiatt 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.

May 31, 1994
Report 0047.R3

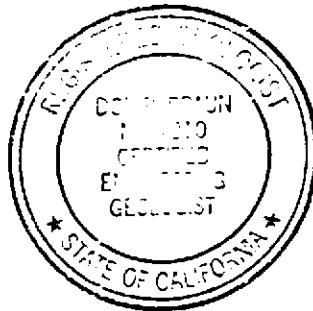
5

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

Sincerely,

P&D Environmental

Paul H. King
Paul H. King
Hydrogeologist



Don R. Braun

Don R. Braun
Certified Engineering Geologist
Registration No. : 1310
Expires: 6/30/94

PHK
0047.R3

Attachments: Tables 1 & 2
Site Location Map (Figure 1)
Site Plan (Figure 2)
Field Parameter Forms
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	04/25/94	180.83	10.70	170.13
	11/16/93		11.63	169.20
	11/12/93*		11.53	169.30
MW2	04/25/94	179.70	10.04	169.66
	11/16/93		11.10	168.60
	11/12/93*		10.95	168.75
MW3	04/25/94	178.98	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	Ethyl-benzene	Xylenes
Samples Collected on April 25, 1994						
MW1	ND	ND	ND	ND	ND	ND
MW2	ND	ND	ND	ND	ND	ND
MW3+	2.1 2100	17 17,000	4.8 4800	0.47 470	0.29 290	1.6 1600
Samples Collected on November 16, 1993						
MW1	NA	ND	0.0022	ND	ND	ND
MW2	NA	ND	ND	ND	ND	ND
MW3++	NA	12	3.3	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.

+ = EPA 8010 compounds not detected except for 0.28 ppm 1,2-Dichloroethane; EPA 8270 compounds not detected except for 0.013 ppm 2-Methylnaphthalene and 0.009 ppm Naphthalene.

++ = 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 2-Methylnaphthalene.

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

P & D ENVIRONMENTAL

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



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

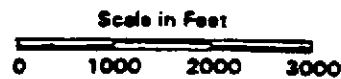


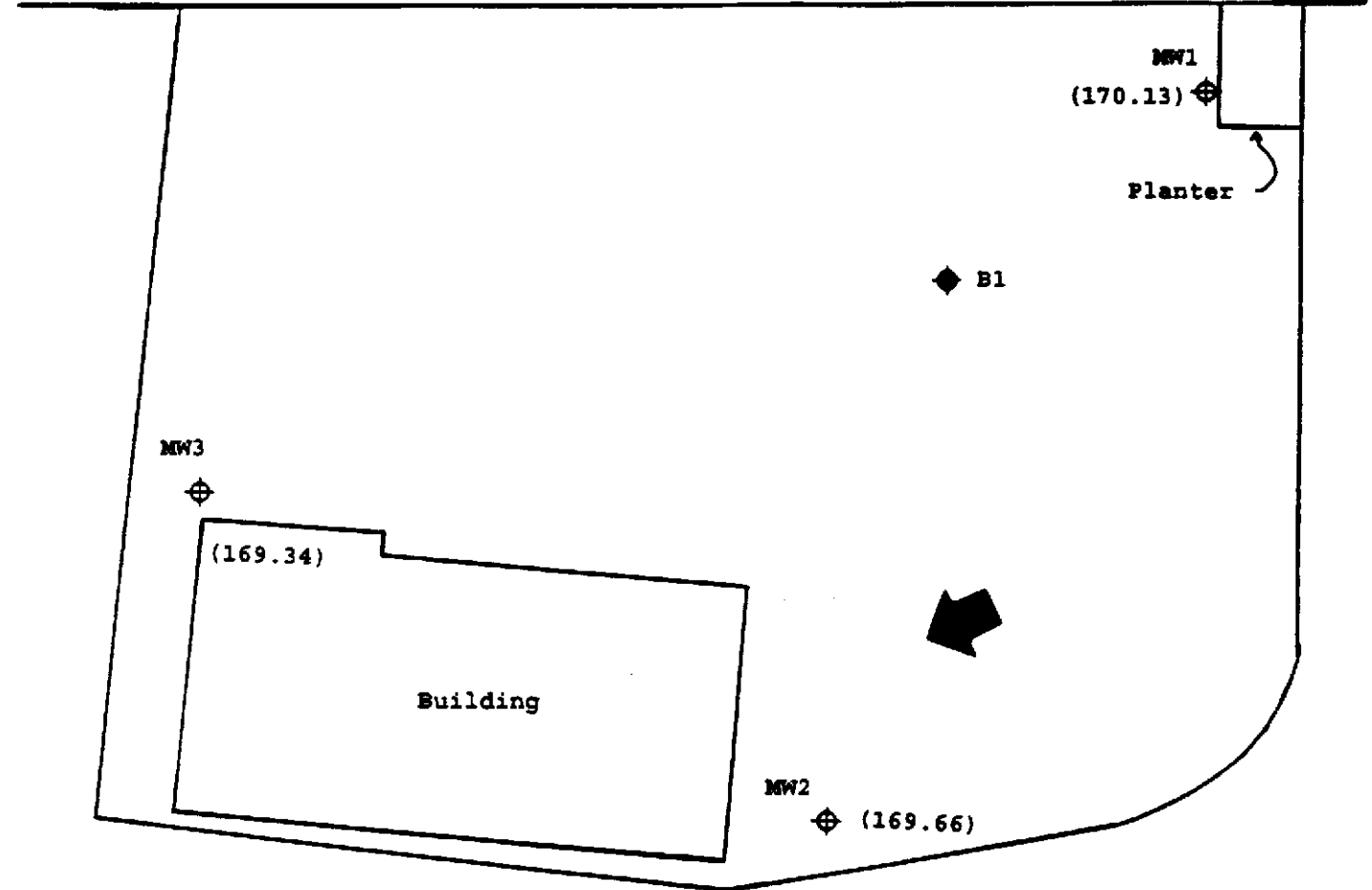
Figure 1
SITE LOCATION MAP
VIP Service
3889 Castro Valley Blvd.
Castro Valley, California

P & D ENVIRONMENTAL

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

Castro Valley Boulevard

Sidewalk



LEGEND

- ⊕ Monitoring Well Location
- ◆ Exploratory Boring Location
- () Groundwater Surface Elevation in Feet on April 25, 1994
- ➔ Groundwater Flow Direction

0 10 20



Scale in Feet

North



Base Map From
P&D Environmental
October, 1993

Figure 2
SITE PLAN
VIP Service
3889 Castro Valley Blvd.
Castro Valley, California

P & D Environmental 4020 Panama Ct. Oakland, CA 94611	Client Project ID: # 0047; VIP-Castro Valley	Date Sampled: 04/25/94
		Date Received: 04/25/94
	Client Contact: Paul King	Date Extracted: 04/28/94
	Client P.O:	Date Analyzed: 04/28/94

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

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
35292	MW1	W	ND	ND	ND	ND	ND	101
35293	MW2	W	ND	ND	ND	ND	ND	99
35294	MW3	W	17,000,a	4800	470	290	1600	95
Detection Limit unless otherwise stated; ND means Not Detected	W	50 ug/L	0.5	0.5	0.5	0.5	0.5	
	S	1.0 mg/kg	0.005	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.

McCAMPBELL ANALYTICAL INC.

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

P & D Environmental 4020 Panama Ct. Oakland, CA 94611	Client Project ID: # 0047; VIP-Castro Valley	Date Sampled: 04/25/94
	Client Contact: Paul King	Date Received: 04/25/94
	Client P.O:	Date Extracted: 04/26/94
		Date Analyzed: 04/26/94

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d) ⁺	% Recovery Surrogate
35294	MW3	W	2100,d	96
Detection Limit unless otherwise stated; ND means Not Detected	W	50 ug/L		
	S	10 mg/kg		

*water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L
 # cluttered chromatogram; surrogate and sample peaks co-elute or surrogate peak is on elevated baseline
 + 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 diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) modified diesel?; light(CL) or heavy(CH) diesel compounds are significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel(?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible phase is present.

McCAMPBELL ANALYTICAL INC.

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

P & D Environmental 4020 Panama Ct. Oakland, CA 94611	Client Project ID: # 0047; VIP-Castro Valley	Date Sampled: 04/25/94
		Date Received: 04/25/94
	Client Contact: Paul King	Date Extracted: 05/04-05/05-25/94
	Client P.O:	Date Analyzed: 05/04-05/05-25/94

Volatile Halocarbons

EPA method 601 or 8010

Lab ID	35294			
Client ID	MW3			
Matrix	W			
Compound ⁽¹⁾	Concentration*	Concentration*	Concentration*	Concentration*
Bromodichloromethane	ND			
Bromoform ⁽²⁾	ND			
Bromomethane	ND			
Carbon Tetrachloride ⁽³⁾	ND			
Chlorobenzene	ND			
Chloroethane	ND			
2-Chloroethyl Vinyl Ether ⁽⁴⁾	ND			
Chloroform ⁽⁵⁾	ND			
Chloromethane	ND			
Dibromochloromethane	ND			
1,2-Dichlorobenzene	ND			
1,3-Dichlorobenzene	ND			
1,4-Dichlorobenzene	ND			
1,1-Dichloroethane	ND			
1,2-Dichloroethane	280			
1,1-Dichloroethene	ND			
cis 1,2-Dichloroethene	ND			
trans 1,2-Dichloroethene	ND			
1,2-Dichloropropane	ND			
cis 1,3-Dichloropropene	ND			
trans 1,3-Dichloropropene	ND			
Methylene Chloride ⁽⁶⁾	ND			
1,1,2,2-Tetrachloroethane	ND			
Tetrachloroethene ⁽⁷⁾	ND			
1,1,1-Trichloroethane	ND			
1,1,2-Trichloroethane	ND			
Trichloroethene	ND			
Trichlorofluoromethane	ND			
Vinyl Chloride ⁽⁸⁾	ND			
% Recovery Surrogate	98			
Comments				

Detection limit unless otherwise stated: water, ND < 0.5ug/L; soil, ND < 10ug/kg.

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

(1) IUPAC allows "ylene" or "ene"; ex. ethylene or ethene; (2) tribromomethane; (3) tetrachloromethane; (4) (2-chloroethoxy) ethene; (5) trichloromethane; (6) dichloromethane; (7) perchloroethylene, PCE or perclor; (8) chloroethene; (9) unidentified peak(s) present.

DHS Certification No. 1644

 Edward Hamilton, Lab Director

QC REPORT FOR HYDROCARBON ANALYSES

Date: 04/26-04/28/94

Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.0	87.6	84.3	100	87.6	84.3	3.8
Benzene	0	10.2	9.5	10	102.0	95.0	7.1
Toluene	0	10.3	9.6	10	103.0	96.0	7.0
Ethyl Benzene	0	10.4	9.8	10	104.0	98.0	5.9
Xylenes	0	32.1	29.9	30	107.0	99.7	7.1
TPH (diesel)	0	172	173	150	115	115	0.8
TRPH (oil & grease)	0	25300	25100	23000	110	109	0.8

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

McCAMPBELL ANALYTICAL INC.

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

QC REPORT FOR EPA 8010/8020/EDB

Date: 05/05/94

Matrix: Water

Analyte	Concentration (ug/L)				% Recovery		
	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD
1,1-DCE	0.0	3.6	3.6	5.0	72	72	0.0
Trichloroethene	0.0	4.6	4.6	5.0	92	92	0.0
EDB	0.0	4.3	4.4	5.0	86	88	2.3
Chlorobenzene	0.0	5.0	4.9	5.0	100	98	2.0
Benzene	0.0	4.8	4.9	5.0	96	98	2.1
Toluene	0.0	4.8	4.9	5.0	96	98	2.1
Chlorobz (PID)	0.0	4.8	4.9	5.0	96	98	2.1

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AHA Accreditation: 11154

PAGE 1

McCAMPBELL ANALYTICAL
110 2ND AVE. SOUTH, #D7
PACHECO, CA 94553

REPORT DATE: 05/06/94

DATE(S) SAMPLED: 04/25/94

DATE RECEIVED: 04/26/94

ATTN: EDWARD HAMILTON
CLIENT PROJ. ID: 2324
CLIENT PROJ. NAME: PD/VIP

AEN WORK ORDER: 9404320

PROJECT SUMMARY:

On April 26, 1994, this laboratory received 1 water sample(s).

Client requested the sample be analyzed for organic parameters. Sample identification, methodologies, results and dates analyzed are summarized on the following pages.

Please see quality control report for a summary of QC data pertaining to this project.

If you have any questions, please contact Client Services at (510) 930-9090.


Larry Klein
General Manager

McCAMPBELL ANALYTICAL

SAMPLE ID: MW3
 AEN LAB NO: 9404320-01
 AEN WORK ORDER: 9404320
 CLIENT PROJ. ID: 2324

DATE SAMPLED: 04/25/94
 DATE RECEIVED: 04/26/94
 REPORT DATE: 05/06/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for BNAs	EPA 3520	-		Extrn Date	04/28/94
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	10	ug/L	05/03/94
Acenaphthylene	208-96-8	ND	10	ug/L	05/03/94
Anthracene	120-12-7	ND	10	ug/L	05/03/94
Benzidine	92-87-5	ND	50	ug/L	05/03/94
Benzoic Acid	65-85-0	ND	50	ug/L	05/03/94
Benzo(a)anthracene	56-55-3	ND	10	ug/L	05/03/94
Benzo(b)fluoranthene	205-99-2	ND	10	ug/L	05/03/94
Benzo(k)fluoranthene	207-08-9	ND	10	ug/L	05/03/94
Benzo(g,h,i)perylene	191-24-2	ND	10	ug/L	05/03/94
Benzo(a)pyrene	50-32-8	ND	10	ug/L	05/03/94
Benzyl Alcohol	100-51-6	ND	20	ug/L	05/03/94
Bis(2-chloroethoxy)methane	111-91-1	ND	10	ug/L	05/03/94
Bis(2-chloroethyl) Ether	111-44-4	ND	10	ug/L	05/03/94
Bis(2-chloroisopropyl) Ether	108-60-1	ND	10	ug/L	05/03/94
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	10	ug/L	05/03/94
4-Bromophenyl Phenyl Ether	101-55-3	ND	10	ug/L	05/03/94
Butylbenzyl Phthalate	85-68-7	ND	10	ug/L	05/03/94
4-Chloroaniline	106-47-8	ND	20	ug/L	05/03/94
2-Chloronaphthalene	91-58-7	ND	10	ug/L	05/03/94
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	10	ug/L	05/03/94
Chrysene	218-01-9	ND	10	ug/L	05/03/94
Dibenzo(a,h)anthracene	53-70-3	ND	10	ug/L	05/03/94
Dibenzofuran	132-64-9	ND	10	ug/L	05/03/94
Di-n-butyl Phthalate	84-74-2	ND	10	ug/L	05/03/94
1,2-Dichlorobenzene	95-50-1	ND	10	ug/L	05/03/94
1,3-Dichlorobenzene	541-73-1	ND	10	ug/L	05/03/94
1,4-Dichlorobenzene	106-46-7	ND	10	ug/L	05/03/94
3,3'-Dichlorobenzidine	91-94-1	ND	20	ug/L	05/03/94
Diethyl Phthalate	84-66-2	ND	10	ug/L	05/03/94
Dimethyl Phthalate	131-11-3	ND	10	ug/L	05/03/94
2,4-Dinitrotoluene	121-14-2	ND	10	ug/L	05/03/94
2,6-Dinitrotoluene	606-20-2	ND	10	ug/L	05/03/94
Di-n-octyl Phthalate	117-84-0	ND	10	ug/L	05/03/94
1,2-Diphenylhydrazine	122-66-7	ND	10	ug/L	05/03/94
Fluoranthene	206-44-0	ND	10	ug/L	05/03/94
Fluorene	86-73-7	ND	10	ug/L	05/03/94
Hexachlorobenzene	118-74-1	ND	10	ug/L	05/03/94
Hexachlorobutadiene	87-68-3	ND	10	ug/L	05/03/94
Hexachlorocyclopentadiene	77-47-4	ND	10	ug/L	05/03/94

McCAMPBELL ANALYTICAL

SAMPLE ID: MW3
 AEN LAB NO: 9404320-01
 AEN WORK ORDER: 9404320
 CLIENT PROJ. ID: 2324

DATE SAMPLED: 04/25/94
 DATE RECEIVED: 04/26/94
 REPORT DATE: 05/06/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Hexachloroethane	67-72-1	ND	10	ug/L	05/03/94
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10	ug/L	05/03/94
Isophorone	78-59-1	ND	10	ug/L	05/03/94
2-Methylnaphthalene	91-57-6	13 *	10	ug/L	05/03/94
Naphthalene	91-20-3	84 *	10	ug/L	05/03/94
2-Nitroaniline	88-74-4	ND	50	ug/L	05/03/94
3-Nitroaniline	99-09-2	ND	50	ug/L	05/03/94
4-Nitroaniline	100-01-6	ND	50	ug/L	05/03/94
Nitrobenzene	98-95-3	ND	10	ug/L	05/03/94
N-Nitrosodimethylamine	62-75-9	ND	10	ug/L	05/03/94
N-Nitrosodiphenylamine	86-30-6	ND	10	ug/L	05/03/94
N-Nitrosodi-n-propylamine	621-64-7	ND	10	ug/L	05/03/94
Phenanthrene	85-01-8	ND	10	ug/L	05/03/94
Pyrene	129-00-0	ND	10	ug/L	05/03/94
1,2,4-Trichlorobenzene	120-82-1	ND	10	ug/L	05/03/94
4-Chloro-3-methylphenol	59-50-7	ND	10	ug/L	05/03/94
2-Chlorophenol	95-57-8	ND	10	ug/L	05/03/94
2,4-Dichlorophenol	120-83-2	ND	10	ug/L	05/03/94
2,4-Dimethylphenol	105-67-9	ND	10	ug/L	05/03/94
4,6-Dinitro-2-methylphenol	534-52-1	ND	50	ug/L	05/03/94
2,4-Dinitrophenol	51-28-5	ND	50	ug/L	05/03/94
2-Methylphenol	95-48-7	ND	10	ug/L	05/03/94
4-Methylphenol	106-44-5	ND	10	ug/L	05/03/94
2-Nitrophenol	88-75-5	ND	10	ug/L	05/03/94
4-Nitrophenol	100-02-7	ND	50	ug/L	05/03/94
Pentachlorophenol	87-86-5	ND	50	ug/L	05/03/94
Phenol	108-95-2	ND	10	ug/L	05/03/94
2,4,5-Trichlorophenol	95-95-4	ND	10	ug/L	05/03/94
2,4,6-Trichlorophenol	88-06-2	ND	10	ug/L	05/03/94

ND = Not detected at or above the reporting limit
 * = Value above reporting limit

**AEN (CALIFORNIA)
QUALITY CONTROL REPORT**

AEN JOB NUMBER: 9404320

CLIENT PROJECT ID: 2324

Quality Control Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

The following abbreviations are found throughout the QC report:

ND = Not Detected at or above the reporting limit
RPD = Relative Percent Difference
< = Less Than

QUALITY CONTROL DATA

DATE EXTRACTED: 04/28/94

AEN JOB NO: 9404320

CLIENT PROJ. ID: 2324

INSTRUMENT: 11

SURROGATE STANDARD RECOVERY SUMMARY
 METHOD: EPA 8270
 (WATER MATRIX)

Date Analyzed	SAMPLE IDENTIFICATION		SURROGATE			RECOVERY (PERCENT)		
	Sample Id.	Lab Id.	Nitro-benzene-d ₅	2-Fluoro-biphenyl	Terphenyl-d ₁₄	Phenol-d ₅	2-Fluoro-phenol	2,4,6-Tribromo-phenol
05/03/94	MW3	01	76	91	89	102	71	96

CURRENT QC LIMITS

<u>ANALYTE</u>	<u>PERCENT RECOVERY</u>
Nitrobenzene-d ₅	(47-104)
2-Fluorobiphenyl	(49-106)
Terphenyl-d ₁₄	(36-138)
Phenol-d ₅	(46-105)
2-Fluorophenol	(40- 97)
2,4,6-Tribromophenol	(37-145)

QUALITY CONTROL DATA

DATE EXTRACTED: 04/28/94
 DATE ANALYZED: 05/03/94
 CLIENT PROJ. ID: 2324

AEN JOB NO: 9404320
 SAMPLE SPIKED: DI WATER
 INSTRUMENT: 11

METHOD SPIKE RECOVERY SUMMARY
 METHOD: EPA 8270
 (WATER MATRIX)

ANALYTE	Spike Added (ug/L)	Average Percent Recovery	RPD
Phenol	200	92	10
2-Chlorophenol	200	78	26
1,4-Dichlorobenzene	204	69	6
N-Nitroso-di-n-propylamine	199	88	8
1,2,4-Trichlorobenzene	200	65	8
4-Chloro-3-methylphenol	196	87	15
Acenaphthene	200	79	3
4-Nitrophenol	198	65	3
2,4-Dinitrotoluene	200	70	7
Pentachlorophenol	203	74	6
Pyrene	199	83	13

CURRENT QC LIMITS

Analyte	Percent Recovery	RPD
Phenol	(12-110)	42
2-Chlorophenol	(27-123)	40
1,4-Dichlorobenzene	(36- 97)	28
4-Nitroso-di-n-propylamine	(41-116)	38
1,2,4-Trichlorobenzene	(39- 98)	28
4-Chloro-3-methylphenol	(23- 97)	42
Acenaphthene	(46-118)	31
4-Nitrophenol	(10- 80)	50
2,4-Dinitrotoluene	(24- 96)	38
Pentachlorophenol	(9-103)	50
Pyrene	(26-127)	31

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

*** END OF REPORT ***

9404320

CHAIN OF CUSTODY RECORD

McCAMPBELL ANALYTICAL
110 2nd AVENUE, # 07
PACIRCO, CA 94553

(510) 790-1620

FAX (510) 790-1622

TURN AROUND TIME:

RUSH 24 HOUR 48 HOUR 5 DAY

REPORT TO: Ed Hamilton MAI. BILL TO: MAI.
PROJECT NUMBER: 2324 PROJECT NAME: PD/VIP
PROJECT LOCATION: SAMPLER SIGNATURE:

ANALYSIS REQUEST

OTHER

BIOMETHANE GASOLINE (602/9020 & 3015)	
TRIP IS Diesel (8015)	
Total Petroleum Distillates (ASTM D1520 30/50 30)	
Total Petroleum Hydrocarbons (AHL)	
EPA 501/9010	
EPA 502/9020	
EPA 508/9080	
EPA 508/8080 - XCS 2NY	
EPA 524/9240/9250	
EPA 525/8270	<input checked="" type="checkbox"/>
GM - 17 Metals	
EPA - Priority Pollutant Metals	
LEAD (7240/7420/2292/6000)	
ORGANIC LEAD	
PC	

COMMENTS

5294

SAMPLE ID	LOCATION	SAMPLING		# CONTAINERS	TYPE CONTAINERS	MATRIX					METHOD PRESERVED						
		DATE	TIME			WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	OTHER				
MW 3	OIL AB	4/25/94	12:45	2	1L	<input checked="" type="checkbox"/>											

RELINQUISHED BY: Ed Hamilton	DATE: 4/26/94	TIME: 13:00	RECEIVED BY: [Signature]
RELINQUISHED BY: [Signature]	DATE: 4/26/94	TIME: 14:10	RECEIVED BY: [Signature]
RELINQUISHED BY: [Signature]	DATE: 4/26/94	TIME: 14:15	RECEIVED BY (LABORATORY): Lou & Pruitt

REMARKS:

P & D ENVIRONMENTAL

300 Monte Vista, #101
Oakland, CA 94611
Telephone (510) 658-6916

CHAIN OF CUSTODY RECORD

PROJECT NUMBER: <u>0047</u>		PROJECT NAME: <u>VLP - Castro Valley</u>			NUMBER OF CONTAINERS	ANALYSIS(ES):				PRESERVATIVE	REMARKS
SAMPLED BY: (PRINTED AND SIGNATURE) <u>Ahmed Chaudhry</u> <u>Cherry Kambou</u>						<u>TPH - Gas</u>	<u>TPH - Diesel</u>	<u>EPA 301C</u>	<u>EPA 327C</u>		
SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION							
MW1	<u>4/25/94</u>		<u>Water</u>	<u>Monitoring well MW1</u>	<u>2</u>	<u>X</u>				<u>ICE</u>	<u>Normal Turn Amount</u>
MW2	"		"	" " MW2	<u>2</u>	<u>X</u>				"	" " "
MW3	"		"	" " MW3	<u>2</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	"	" " "
											<u>35292</u>
											<u>35293</u>
											<u>35294</u>
ICE? <input checked="" type="checkbox"/> PRESERVATIVE: <input checked="" type="checkbox"/> VOAG? <input checked="" type="checkbox"/> METALS? <input checked="" type="checkbox"/> OTHER? <input checked="" type="checkbox"/> GOOD CONDITION? <input checked="" type="checkbox"/> APPROPRIATE CONTAINERS? <input checked="" type="checkbox"/> HEAD SPACE ABSENT? <input checked="" type="checkbox"/>											
RELINQUISHED BY: (SIGNATURE) <u>Cherry Kambou</u>		DATE <u>4/25/94</u>	TIME <u>19:10</u>	RECEIVED BY: (SIGNATURE) <u>Ed Hamilton</u>		TOTAL NO. OF SAMPLES (THIS SHIPMENT) <u>3</u>		LABORATORY: <u>McCannell Analytical</u>			
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		TOTAL NO. OF CONTAINERS (THIS SHIPMENT) <u>12</u>		LABORATORY CONTACT: <u>Ed Hamilton</u> LABORATORY PHONE NUMBER: <u>(510) 798-1620</u>			
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)		SAMPLE ANALYSIS REQUEST SHEET ATTACHED: () YES (X) NO					
REMARKS: <u>VOAs preserved w HCL in the field.</u>											