2307 Pacific Avenue Alameda, CA. 94501 Ph: 510-865-9503 Fx: 510-865-1889

E-mail: xtraoil@prodigy.net

Xtra Oil Company

May 10, 2000

Mr. Scott Seery Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Room 250 Alameda, Calif. 94502-6577

Re: 3495 Castro Valley Blvd.

Dear Mr. Seery:

Pleases find enclosed the groundwater monitoring and sampling reports for the above referenced site. P & D Environmental prepared the report.

We apologize for any delay in your receiving these reports.

Please call if you have any questions or comments.

Sincerely,

Keith Simas

Operations Supervisor

P & D Environmental

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

> March 17, 2000 Report 0014.R32

Mr. Ted Simas Mr. Keith Simas XTRA OIL Company 2307 Pacific Ave. Alameda, CA 94501

SUBJECT: QUARTERLY GROUNDWATER MONITORING AND SAMPLING REPORT

XTRA OIL Company

3495 Castro Valley Blvd.

Castro Valley, CA

Gentlemen:

PED Environmental, a division of Paul H. King, Inc. (PED) is pleased to present this report documenting the results of the most recent quarterly monitoring and sampling of the wells at the subject site. This work was performed in accordance with PED's proposal 020599.P1 dated February 5, 1999. The wells were monitored and sampled on December 9, 1999. The report of is for September through December, 1999. A Site Location Map (Figure 1) and Site Plan (Figure 2) are attached with this report.

BACKGROUND

The site is currently used as a gasoline station. Four 12,000 gallon underground fuel storage tanks are present at the site. Three of the tanks contain gasoline and the fourth tank contains diesel fuel. A 550 gallon waste oil tank was removed from the site in November, 1988. The fuel tanks were replaced during August, 1992.

Three monitoring wells, designated as MW1, MW2 and MW3 were installed at the site on February 14 and 15, 1990 by Western Geo-Engineers. The subsurface materials encountered in the boreholes consisted primarily of silt and clay. The locations of the monitoring wells are shown in Figure 2. Soil samples collected during drilling of the boreholes for the monitoring wells revealed the presence of total petroleum hydrocarbons as gasoline (TPH-G) and total petroleum hydrocarbons as diesel (TPH-D). TPH-G was encountered in borehole MW1 at depths of 5 and 10 feet below grade at concentrations of 40 and 1,400 ppm, respectively; in borehole MW2 at depths of 10 and 15 feet below grade at concentrations of 230 and 95 ppm, respectively; and in borehole MW3 at depths of 5, 10 and 15 feet at concentrations of 140, 250 and 25 ppm, respectively. In addition, 120 ppm TPH-D was detected in borehole MW3 at a depth of 5 feet. Soil samples collected at a depth of 20 feet in borehole MW1 and at a depth of 18 feet in boreholes in MW2 and MW3 did not show any detectable concentrations of TPH-G or TPH-D. Groundwater was encountered in the boreholes at depths of approximately 15 to 16 feet below grade.

On February 15, 1990 Western Geo-Engineers drilled three exploratory boreholes at the site designated as SB1, SB2 and SB3. The subsurface materials encountered in the boreholes consisted primarily of silt and clay. The approximate locations of the boreholes are shown on Figure 2. It is P&D's understanding that soil samples were collected from the exploratory boreholes at depths of 10 and 12 feet and evaluated in the field using a photo ionization detector. In borehole SB1, TPH-G was detected at the depths of 10 and 12 feet at concentrations of 1,700 and 450 ppm, respectively. In boreholes SB2 and SB3, TPH-G was detected at the depths of 10 and 12 feet in both boreholes at concentrations of 800 ppm and greater than 2,000 ppm, respectively. A groundwater monitoring and sampling program was initiated at the site on February 20, 1990.

It is P&D's understanding that during fuel tank replacement activities in August, 1992 soil surrounding the tank pit was removed and disposed of offsite. An extraction well, designated as EWI, was designed and constructed in one corner of the new tank pit by K&B Environmental at the time of installation of the new tanks. The location of EWI is shown on Figure 2.

On February 7, 1996 well MW2 was destroyed for the purpose of widening Redwood Road. The destruction was overseen by ACC Environmental Consultants of Oakland, California.

On August 15, 1997 P&D personnel oversaw the installation of one groundwater monitoring well, designated as MW4 at the subject site. The location of the monitoring well is shown on the attached Site Plan, Figure 2. This work was performed in accordance with P&D's work plan 0014.W4 dated June 27, 1997. The work plan was approved by the Alameda County Department of Environmental Health (ACDEH) in a telephone conversation with Mr. Scott Seery on August 14, 1997. During the conversation, Mr. Seery indicated that he would record his approval of the work plan in the county file for the site.

FIELD ACTIVITIES

On December 9. 1999, the three groundwater monitoring wells at the site (MR1, MR3 and MR4) were monitored and sampled by FMP penetropic. A joint groundwater monitoring with Milisto Engineering. Noc. was performed this penetrop.

Extraction well EW1 was not monitored or sampled at the subject site during the quarter. 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 and sheen was evaluated using a transparent bailer. No free product was observed in any of the monitoring wells prior to purging. However, the water transparent to purging. However, the water transparent water the water transparent water transparent water transparent water transparent water transparent water to purging. However, the water transparent water tr

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 Tellon bailer. A strong petroleum bydrogarbon odon was detached in the water purged from tells had been purged from these two wells.

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 wells once during the monitoring period. The measured depth to water at the site in wells MW1, MW3 and MW4 on December 9, 1999 was 8.15, 7.90, and 8.80 feet, respectively. Groundwater levels have increased in wells MW1 and MW3 by 0.21 and 0.05 feet (respectively) and decreased in well MW4 by 0.52 feet since the previous monitoring on August 31, 1999.

Based on the measured depth to groundwater in the groundwater monitoring wells, the apparent groundwater flow direction at the site on December 9, 1999 was calculated to be to the east with a gradient of 0.020. The groundwater flow direction has shifted slightly toward the east and the gradient has increased since the previous monitoring.

LABORATORY RESULTS

The groundwater samples collected from the monitoring wells were analyzed for TPH-G using EPA Method 5030 and Modified EPA Method 8015; benzene, toluene, ethylbenzene, total xylenes (BTEX), and MTBE using EPA Method 8020; and for TPH-D using EPA Method 3510 in conjunction with Modified EPA Method 8015.

The laboratory analytical results for the groundwater samples from wells MW1, MW3 and MW4 show TPH-G concentrations of 65, 120, and 120 ppm, respectively; benzene concentrations of 9.3, 35, and 33 ppm, respectively; and TPH-D concentrations of 12, 17, and 9,000 ppm, respectively. MTBE was detected at concentrations of 16 and 8.1 ppm in wells MW3 and MW4, and was not detected in well MW1. Review of the laboratory analytical reports indicates that all three samples were noted to have a lighter than water immiscible sheen, and that the TPH-D results for MW1, MW3, and MW4 are both diesel-range and gasoline-range compounds. A discussion with the laboratory concerning the elevated TPH-D result for MW4 indicated that the elevated concentration was most likely related to the immiscible sheen for that sample.

Since the previous sampling on August 31, 1999, TPH-G concentrations have decreased in wells MW1 and MW4 and remained the same in MW3; TPH-D concentrations have decreased in MW1 and MW3 and increased in MW4; benzene concentrations have increased in MW1, remained the same in MW3, and decreased in MW4; and MTBE concentrations have decreased in MW1 and increased in MW3 and MW4. The laboratory analytical results of the groundwater samples are summarized in Table 2. Copies of the laboratory analytical reports and chain of custody documentation are attached with this report.

DISCUSSION AND RECOMMENDATIONS

The three groundwater monitoring wells at the site were monitored and sampled once during the quarter. The elevated TPH-D concentration detected in well MW4 was attributed by the laboratory to an immiscible sheen which was present on all of the samples.

P&D recommends that use of absorbent socks in the wells be continued. The socks should be checked periodically and replaced as needed. Based on the laboratory analytical results of the water samples collected from the monitoring wells, P&D recommends that groundwater monitoring and sampling be continued. In addition, P&D recommends that future monitoring and sampling efforts continue to be coordinated with other sites in the vicinity of the subject site which are presently being monitored and sampled.

DISTRIBUTION

Copies of this report should be sent to Mr. Chuck Headlee at the Regional Water Quality Control Board, San Francisco Bay Region, and to Mr. Scott Seery at the Alameda County Department of Environmental Health. Copies of the report should be accompanied by a transmittal letter signed by the principal executive officer of the XTRA OIL Company.

LIMITATIONS

This report was prepared solely for the use of XTRA OIL Company. 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 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: 6/30/00

DON R. BRAUN No. 1310 CERTIFIED ENGINEERING GEOLOGIST

PHK/gmb 0014.R32

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.)
	MONIT COLEG	Diev. (IC.)	Mater (It.)	MICT. (IU.)
MWl	12/09/99	177.37*	8.15	169.22
	8/31/99		8.36	169.01
	4/29/99		7.68	169.69
	1/29/99		6.99	170.38
	4/26/98		7.50	169.87
	1/24/98	4	6.61	170.76
	11/06/97		8.79	168.58
•	8/26/97	200 (244	8.51	168.86
	7/24/97 4/25/97	177.43**	8.71 7.98	168.72
	1/20/97		7.12	169. 4 5 170.31
	7/26/96		8.39	169.04
	7/09/96		8.16	169.27
	4/23/96		7.47	169.96
	2/07/96		6.09	171.34
	1/29/96		6.17	171.26
	10/26/95		8.45	168.98
	7/28/95		8.27	169.16
	5/02/95		6.96	170.47
	2/23/95		7.72	169.71
	11/18/94		7.14	170.29
	8/22/94		8.67	168.76
	5/19/94		8.05	169.38
	2/28/94		7.44	169.99
	11/24/93		8.74	168.69
	8/30/93 5/18/93		B.78	168.65
	2/23/93	•	8.12	169.31
	11/13/92	200.00***	7.34 9.13	170.09 190.87
	5/29/92	175.73	8.59	167.14
	1/14/92	-,5.,5	8.57	167.16
	12/23/91		9.65	166.08
	11/25/91		9.41	166.32
	10/10/91		9.70	166.03
	9/17/91		9.50	166.23
	8/19/91		9.31	166.42
MW2		ED (DESTROYED	ON FEBRUARY 7, 1996)	
,	2/07/96	176.04**	5.70	170.34
	1/29/96		5.16	170.88
	10/26/95		8.21	167.83
	7/28/95		7.99	168.05
	5/02/95		6.79	169.25
	2/23/95		7.51	168.53
	11/18/94		6.92	169.12
	8/22/94 5/19/94		8.59 7.70	167.45
	2/28/94		6.99	168.34 169.05
	11/24/93		8.47	167.57
	B/30/93		8.64	167.40
	5/18/93		7.73	168.31
			- - - -	—

NOTES: * = Surveyed on August 20, 1997 ** = Surveyed on March 24, 1993 *** = Surveyed on December 5, 1992

TABLE 1 WELL MONITORING DATA (Continued)

Well	Date	Top of Casing	Depth to	Water Table
No.	Monitored	Elev. (ft.)	Water (ft.)	Elev. (ft.)
MW2	2/23/93		6.39	169.65
24112	11/13/92	198.61***	8.70	189.91
	5/29/92	175.45	9.31	166.14
	1/14/92	1/3.45	8.97	166.48
	12/23/91		10.39	165.06
	11/25/91		9.81	165.64
	10/10/91		10.39	165.06
	9/17/91		10.39	165.22
	8/19/91		9.60	165.85
	0/13/31		9.00	103.63
MW3	12/09/99	176.40*	7.90	168.50
	8/31/99		7.95	168.45
	4/29/99		7.09	169.31
	1/29/99		6.42	169.98
	4/26/98		6.85	169.55
	1/24/98		5.90	170.50
	11/06/97		7.80	168.80
	8/26/97		7.67	168.93
	7/24/97	176.41**	7.90	168.51
	4/25/97		7.12	169.29
	1/20/97		6.35	170.06
	7/26/96		7.84	169.57
	7/09/96		7.61	168.80
	4/23/96		6.81	169.60
	2/07/96		5.05	170.36
	1/29/96		5.77	170.64
	10/26/95		7.72	168.69
	7/28/95		7.80	168.61
	5/02/95		6.50	169.91
	2/23/95		7.24	169.17
	11/18/94		6.05	170.36
	8/22/94		7.65	168.76
	5/19/94		7.15	169.2 6
	2/24/94		6.68	169.73
	11/24/93		7.55	168.86
	8/30/93		7.64	168.77
	5/18/93		7.12	169.29
	2/23/93		8.01	168.40
	11/13/92	190.97***	7.86	191.12
	5/29/92	175.00	8.45	166.55
	1/14/92		8.24	166.55
	12/23/91		9.37	165.63
	11/25/91		9.19	165.81
	10/10/91		9.43	165.57
	9/17/91		9.20	165.80
	8/19/91		8.95	166.05

NOTES:

* = Surveyed on August 20, 1997

** = Surveyed on March 24, 1993

*** = Surveyed on December 5, 1992

TABLE 1 WELL MONITORING DATA (Continued)

Well No.	Date Monitored	Top of Casing Blev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)
MW4	12/09/99	176.35*	8.80	167.55
	8/31/99		8.28	168.07
	4/29/99		7.14	169.21
	1/29/99		6.68	169.67
	4/26/98		6.87	169.48
	1/24/98		6.61	169.74
	11/06/97		9.16	167.19
	8/26/97		8.92	167.43
	8/20/97			co development)

^{* =} Surveyed on August 20, 1997 ** = Surveyed on March 24, 1993 *** = Surveyed on December 5, 1992

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS

Well No.	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes			
Samples Collected on December 9, 1999										
MW1+,@	12	65	ND	9.3	2.9	2.2	8.8			
MW2 Not Sampled (Destroyed on February 7, 1996)										
MW3+,@	17	120	16	35	6.7	2.4	12			
MW4+,@	9,000	120	8.1	33	6	2.4	12			
EW1	Not Sampl	.ed								
				les Collect gust 31, 19						
MW1+	22	66	0.71	8.7	2.7	2.4	10			
MW2	Not Sampl	ed (Dest	royed on	February	7, 1996)					
MW3+	22	120	4.7	35	3.7	2.4	14			
MW4+	9.4	190	4.4	46	30	2.8	15			
EW1	Not Sampl	.ed								

NOTES:

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

ND = Not Detected.

Review of the laboratory analytical reports indicates that both the TPH-D
 and the TPH-G results indicate the presence of a lighter than water
 immiscible sheen.

^{+ =} Review of the laboratory analytical reports indicates that the TPH-D results consist of both diesel-range and gasoline range compounds.

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

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
(Continued)

Well No.	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes		
				ples Collec April 29, 1					
MW1+	22	48	ND	8.4	2.8	2.0	8.1		
MW2	Not Samp	led (Des	troyed o	n February	7, 1996)				
MW3+	48	100	2.5	33	8.0	2.1	14		
MW4+	9.4	210	3.2	42	35	2.8	15		
EW1	Not Samp	led							
Samples Collected on January 29, 1999									
MW1+	9.1	47	ND	9.0	2.9	1.9	8.0		
MW2	Not Samp	oled (Des	troyed o	n February	7, 1996)	•			
MW3+	240	84	1.3	31	2.8	1.8	12		
MW4+	7.3	190	2.4	44	40	3.1	17		
EW1	Not Samp	oled							
				ples Collec April 26, 1					
MW1++	7.8	60	ND	9.3	5.7	2.1	9.1		
MW2	Not Sam	oled (Des	troyed c	on February	7, 1996)				
MW3 +	380	100	9.7	29	7.1	1.8	14		
MW4+	13	190	ND	49	37	3.2	18		
EW1	Not Sam	oled							

NOTES:

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

ND = Not Detected.

^{+ =} Review of the laboratory analytical reports indicates that the TPH-D results consist of both diesel-range and gasoline range compounds.
++ = Review of the laboratory analytical reports indicates that the TPH-D results consist of gasoline range compounds.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
(Continued)

Well No.	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes		
				oles Collectinuary 24,					
MW1+	24	57	ND	6.9	5.5	2.0	8.7		
MW2	Not Samp	led (Des	troyed o	n February	7, 1996)		·		
MW3+	77	97	ND	28	7.1	1.8	11		
MW4+	20	200	ND	50	40	3.1	17		
EW1	Not Samp	led							
Samples Collected on November 6, 1997									
MW1++	17	63	ND	7.4	6.7	2.3	9.9		
MW2	Not Samp	oled (Des	troyed o	n February	7, 1996)				
MW3+	120	140	ND	37	19	2.4	14		
MW4+	110	160	ND	48	30	2.8	16		
EW1	Not Samp	oled							
				ples Collec ugust 26, 1					
MW1	Not Samp	oled							
MW2	Not Samp	oled (Des	troyed o	n February	7, 1996)				
MW3	Not Samp	oled							
MW4+	5.5	210	1.7	48	42	3.4	19		
EW1	Not Samp	led							

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

^{+ =} Review of the laboratory analytical reports indicates that the TPH-D results consist of both diesel-range and gasoline range compounds.

^{++ =} Review of the laboratory analytical reports indicates that the TPH-D results consist of gasoline range compounds.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
(Continued)

Well No.	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes			
Samples Collected on July 24, 1997										
MW1++	28	66	1.8	8.6	8.1	2.2	10			
MW2	Not Samp	oled (Des	troyed o	n February	7, 1996)					
MW3++	91	120	1.4	33	17	2.2	12			
EW1	Not Samp	oled								
Samples Collected on April 25, 1997										
MW1+	170	77	ND	7.4	7.9	2.1	9.8			
MW2	Not Samp	oled (Des	troyed c	n February	7, 1996)					
MW3+	760	240	1.6	24	18	4.1	24			
EW1	Not Samp	oled								
				ples Collecanuary 21,						
MW1++	57	80	0.25	7.8	8.3	1.9	8.9			
MW2	Not Samp	led (Des	troyed c	n February	7, 1996)					
MW3++	34	150	1.30	40	14	2.6	12			
EW1	Not Sam	pled								
				ples Colle July 26, 1						
MW1++	11	76	ND	11	13	2.4	10			
MW2	Not Samp	pled (Des	troyed o	on February	7, 1996)					
MW3++	24	130	0.89	40	22	2.4	12			
EW1	Not Sam	pled								

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

ND = Not Detected.

^{+ =} Review of the laboratory analytical reports indicates that the TPH-D results consist of both diesel-range and gasoline range compounds.

^{++ =} Review of the laboratory analytical reports indicates that the TPH-D results consist of gasoline range compounds.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
(Continued)

Well No.	TPH-D	TPH-G	mtbe	Benzene	Toluene	Ethyl- benzene	Total Xylenes
		•		les Collec pril 23, 1			
MW1++	5.7	73	ND	8.6	12	2.2	9.8
MW2	Not Samp	oled (Des	troyed or	Pebruary	7, 1996)		
MW3++	280	170	0.72	34	22	2.2	14
ew1	Not Samp	oled	-				
			Samp on Ja	les Collec nuary 29,	ted 1996		
MW1++	6.6	81	0.25	7.6	13	1.9	8.9
MW2++	4.6	38	0.0071	1.9	5.7	1.1	5.9
MW3++	45	150	0.54	32	21	1.9	12
EW1	Not Sam	pled					
				les Collec tober 26,			
MW1++	62	89	ND	7.8	12	2.4	11
MW2	900	74	ND	2.9	5.9	2.0	10
MW3	33	130	0.69	37	21	0.21	11
EW1	Not Sam	pled.					
				les Collec July 28, 1			
MW1++	2.0	35	NA	3.8	8.7	1.1	6.5
MW2++	2.0	15	NA	1.4	2.3	0.62	3.2
MW 3+	1.9	86	AN	28	16	1.3	7.6
EW1	Not Sam	pled.					

NOTES:

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

ND = Not Detected.

results consist of gasoline range compounds.
Results in parts per million (ppm), unless otherwise indicated.

 ⁼ Review of the laboratory analytical reports indicates that the TPH-D results consist of both diesel-range and gasoline range compounds.
 ++ = Review of the laboratory analytical reports indicates that the TPH-D

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS (Continued)

Well No.	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes			
Samples Collected on May 2, 1995										
MW1++	6.5	86	NA	8.9	14	2.3	11			
MW2+	6.6	55	NA	3.3	10	1.8	10			
MW3+	9.7	170	NA	43	30	2.5	14			
ew1	Not Sam	pled.								
				ples Collectorus 24,						
MW1	9.1	90	NA	7.5	12	1.5	11			
MW2	22	67	NA	4.9	11	1.8	11			
MW3	9.2	130	NA	31	19	1.8	10			
EW1	Not Sam	pled.								
			Sam on No	ples Collec ovember 18,	ted 1994					
MW1	10	96	NA	9.3	14	2.5	11			
MW2	5.0	86	NA	11	17	1.8	12			
MW3	23	140	NA	38	22	2.0	11			
EW1	Not Sam	pled.	San on	mples Collec August 22,	ted 1994					
MW1	8.3	100	NA	9.0	11	2.1	9.4			
MW2	4.1	91	NA	10	13	1.5	9.0			
ммз	5.3	170	NA	35	20	1.8	10			
EW1	Not Sam	pled.								

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

NA = Not Analyzed.

⁼ Review of the laboratory analytical reports indicates that the TPH-D results consist of both diesel-range and gasoline range compounds.

⁼ Review of the laboratory analytical reports indicates that the TPH-D results consist of gasoline range compounds. Results in parts per million (ppm), unless otherwise indicated.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
(Continued)

Well No.	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethyl - benzene	Total Xylenes				
Samples Collected on May 19, 1994											
MW1	30	100	NA	12	14	3.5	17				
MW2	5.8	62	NA	9.2	13	1.3	8.4				
MW3	30	150	NA	38	25	2.4	14				
EW1	Not Samp	oled.									
Samples Collected on February 28, 1994											
MW1	110	90	NA	11	9.6	2.1	9.9				
MW2	13	91	NA	13	16	1.5	9.0				
WM3	210	110	NA	36	21	1.9	11				
EW1	EW1 Not Sampled.										
				oles Collect vember 24,							
MW1	8.2	66	NA	8.3	8.9	2.0	11				
MW2	79	12	NA	13	17	2.5	17				
MW3	24	160	NA	48	26	2.2	12				
EW1	Not Samp	led.	Samp on A	oles Collect ugust 30, 1	ed 993						
MWl	9.4	7 7	NA	6.4	11	2.2	12				
MW2	110	110	NA	11	14	1.8	11				
MW3	32	130	NA	36	21	1.9	8.2				
EW1	Not Samp	led.				·					

NOTES:

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

NA = Not Analyzed.

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS (Continued)

Well No.	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes				
Samples Collected on May 18, 1993											
MW1	30	92	NA	4.0	11	2.5	15				
MW2	44	67	NA	9.2	12	1.4	9.3				
MW3	7.2	130	NA	36	21	2.1	12				
EW1	EW1 Not Sampled.										
Samples Collected on February 23, 1993											
MW1	14	100	NA	4.5	11	2.1	12				
MW2	7.0	76	NA	12	17	1.6	9.6				
MW3	8.1	110	NA	31	18	1.9	11				
EW1	9.6	66	NA	14	8.5	1.4	9.8				
•				ples Collec ovember 13,							
MW1	4.4	120	NA	5.8	10	2.1	13				
MW2	8.2	79	NA	10	13	1.4	8.6				
MW3	4.7	140	NA	38	24	2.0	12				
EW1	13	62	NA	11	9.2	1.1	9.6				
	Samples Collected On May 27, 1992										
MW1	11	120	NA	8.8	16	2.3	15				
MW2	130	89	NA	18	19	1.7	14				
ММ 3	27	370	NA	91	57	3.0	21				

NOTES:
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
TPH-D = Total Petroleum Hydrocarbons as Diesel.
NA = Not Analyzed.
Results in parts per million (ppm), unless otherwise indicated.

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS (Continued)

Well No.	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes				
Samples Collected On January 14, 1992											
MW1	19	39	NA	7.3	8.7	1.3	8.9				
MW2	1600	59	NA	17	14	1.8	15				
м w3	270	130	NA	76	30	3.4	21				
Samples Collected On December 23, 1991											
MW1	34	78	NA	9.3	7.3	0.54	13				
MW2	700	2100	NA	36	130	79	560				
MW3	540	740	NA	30	61	31	180				
	·		Sam On No	ples Collec ovember 25,	ted 1991						
MW1	36	170	NA	5.5	5.6	1.6	8.4				
MW2	130	230	NA	11	9.7	1.4	9.7				
WM3	74	150	NA	65	31	3.4	18				
				ples Collec ctober 10,							
MW1	19	28	NA	4.1	4.7	1.0	4.8				
MW2	360	85	NA	21	25	2.1	14				
EWM3	39	140	NA	57	31	2.2	14				
				ples Collec ptember 17,							
MWl	19	39	NA	4.9	4.1	1.2	5.9				
MW2	56	74	NA	10	11	1.4	.8.1				
MM3	140	180	NA	47	25	2.6	15				

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

NA = Not Analyzed.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
(Continued)

Well No.	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes
				ples Collect August 19, 1			
MW1	47	48	NА	13	8.4	0.99	29
MW2	19	69	NA	26	22	2.1	18
MM3	150	170	NA	82	31	4.4	22
		4	Sam On	ples Collec July 20, 19	ted 91		
MW1	49	100	NA	11	14	2.3	17
MW2	100	51	NA	9.9	7.7	1.2	7.5
ммз	270	450	NA	46	29	3.5	21
			Sam On	ples Collec June 20, 19	ted 191		
MW1	42	76	NA	4.7	7.1	1.5	9.8
MW2	69	87	NA	8.1	8.4	1.1	8.9
MW3	210	920	NA	39	49	13	69
				ples Collec May 17, 19			
MW1	26	72	NA	7.7	9.9	ND	11
MW2	33	62	NA	5.9	6.3	1.2	9.0
MW3	70	170	NA	32	22	2.2	18
				ples Collec April 15, 1			
MW1	NA	56	NA	6.5	8.5	0.41	9.9
MW2	NA	82	NA	5.3	7.4	1.0	9.4
MW3	NA.	110	NA	31	15	0.88	7.4

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

NA = Not Analyzed.

ND = Not Detected.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
(Continued)

Well No.	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes	
Samples Collected On March 21, 1991								
MW1	AK	36	NA	4.5	5.7	0.087	7.3	
MW2	NA	62	NA	9.3	11	0.35	9.7	
KWM3	NA	87	NA	30	14	0.69	5.4	
Samples Collected On February 15, 1991								
MW1	NA	120	NA	7.4	6.6	ND	13	
MW2	NA	200	NA	12	12	1.7	14	
мwз	NA	230	NA	44	40	ND	31	
				ples Collectanuary 14,				
MW1	NA	33	NA	3.9	2.9	0.21	5.3	
MW2	NA	78	NA	11	8.7	0.58	8.0	
MW3	NA	160	NA	48	25	1.0	16	
	Samples Collected On September 27, 1990							
MW1	NA	28	NA	3.7	3.5	0.01	6.5	
MW2	NA	59	NA	8.4	12	0.88	9.0	
WW3	NA	25	NA	7.2	6.4	0.42	3.4	
				ples Collect August 23, 1			٠	
MW1	NA	40	NA	5.1	4.9	0.35	6.0	
MW2	NA	96	NA	8.1	8.4	1.5	8.6	
MW3	NA	220	NA	67	46	27	18	

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

ND = Not Detected.

NA = Not Analyzed.

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS (Continued)

Well No.	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes		
Samples Collected On July 20, 1990									
MW1	44	NA	NA	5.1	4.2	ND	9.1		
MW2	86	NA	NA	9.1	14	0.94	13		
мwз	88	NA	NA	25.1	21.1	0.61	14.1		
Samples Collected On March 19, 1990									
MW1	NA	40	NA	3.7	1.1	ND	3.3		
MW2	NA	50	NA	7.7	8.7	0.075	5.6		
MW3	NA	210	NA	38	28	1.8	12		
Samples Collected On February 20, 1990									
MW1+++	NA	7.6	NA	1.6	ND	ИD	1.3		
MW2+++	NA	38	NA	7.3	3.1	0.075	6.8		
MW3+++	NA	46	NA	20	15	1.8	9.7		

NOTES:

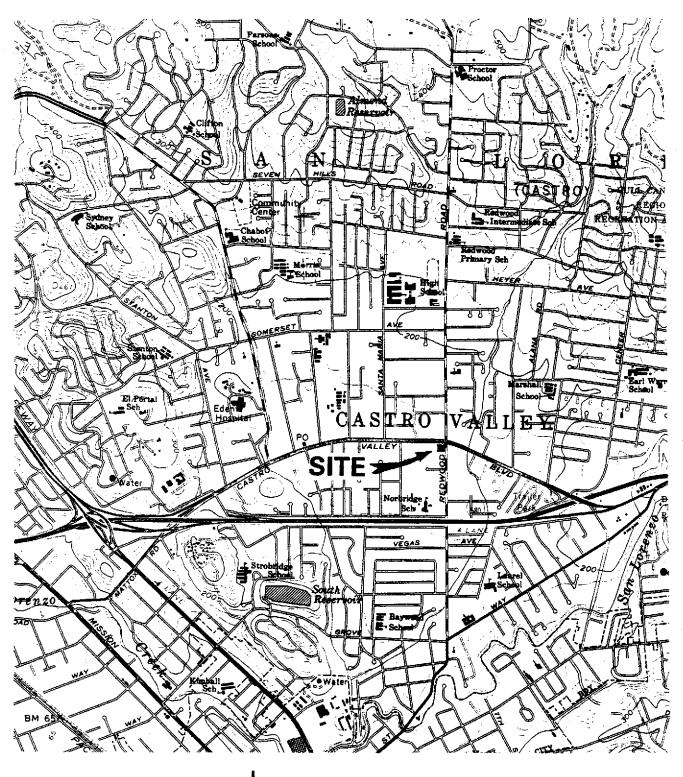
TPH-G = Total Petroleum Hydrocarbons as Gasoline. TPH-D = Total Petroleum Hydrocarbons as Diesel.

ND = Not Detected.

NA = Not Analyzed. +++ Indicates Organic Lead was not detected.

P & D ENVIRONMENTAL

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

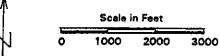
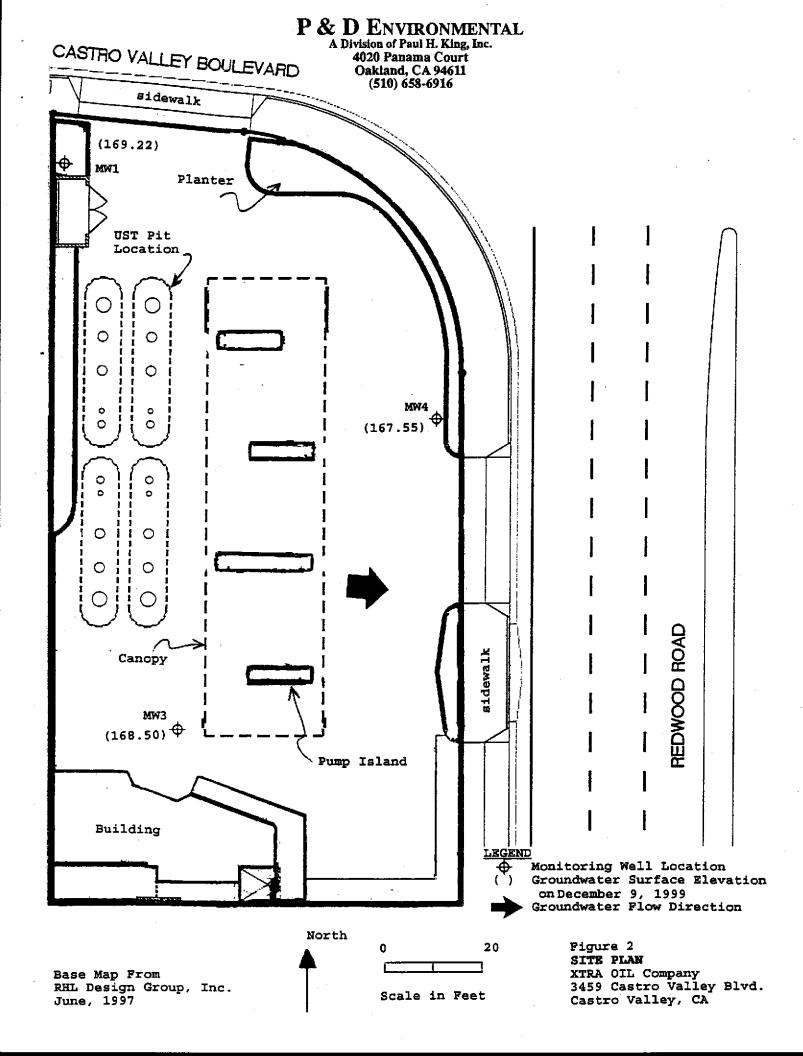


Figure 1 SITE LOCATION MAP XTRA OIL Company 3495 Castro Valley Blvd. Alameda, California



P&D ENVIRONMENTAL GROUNDWATER MONITORING/WELL PURGING DATA SHEET

Site Name XT	ex other las	Lio Valley	Well No	MWI
Job No. O	014	_	Date	219199
TOC to Water (1	(t.) 8.15	_	SheenY	es
Well Depth (ft.		-	Free Produc	t Thickness 🙇
Well Diameter_	4"	_	Sample Coll	ection Method
Gal./Casing Vol		_	Teflon	Buller
TIME GAI	2= て3 L. PURGED_	рн	TEMPERATURE (F)	ELECTRICAL CONDUCTIVITY AS & M
	0.1	7,22	56.6	8.91 × 100
<u>α:w</u> _	5	6,47	65.6	10.99
8:26	10	6,41	689	11.47
<u>\$.30</u>	15	6.39	67.9	
<u> </u>				11.60
4:31		enintered	*	<u>#168</u>
8:57	20	6,48	67.4	11.58
8:45	25	6.52	68.4	11.75
	Collect S	umples		
	·			
	·			·
			·	
			· · · · · · · · · · · · · · · · · · ·	
	· · · · · · · · · · · · · · · · · · ·			
·				
NOTES:		^	4 1 .	
PHK.	Hydron	orlan alz	orbert sork	in well.

P&D ENVIRONMENTAL GROUNDWATER MONITORING/WELL PURGING DATA SHEET

Site Name XTRA OLL - Cash	ro Valley Well No. MWS					
Job No. 0014	Date 12/9/9					
TOC to Water (ft.) 7.90	Sheen Yes					
Well Depth (ft.) 18.65	Free Product Thickness					
Well Diameter 4"	Sample Collection Method					
Gal./Casing Vol. 7.0	Teflor Bailer					
TIME GAL. PURGED PH	TEMPERATURE OF CONDUCTIVITY (MS/cm)					
9:10 0.1 6.	37 57.1 11.96					
9:18 5,0 6	78 70.9 16.36					
9:25 10.0	31 69.9 16.22					
9:31 14.0 W	ell Dewatered					
9:47 17.0 6.	86 57.2 13.64					
9:49 18.0 W	ell dewatered					
9:49 18:0 W	ple					
NOTES: PHK, Locking pl	ug is broken needs to be replaced.					
NOTES: PHK, Locking plug is broken needs to be replaced, could result in surface water entering the well. Strong PURGE10.92 petroleum lydrocarbon odor in purged water. Brown morker from accumulated on water in discharge bruckets.						
PURGE 10.92 petrolem lyde	rocarlon odor in purged water. Brown					
directions?	los lests.					
De la company						

P&D ENVIRONMENTAL GROUNDWATER MONITORING/WELL PURGING DATA SHEET

Site Name	KTRA OIL- Ca	stm Volley	Well No	MW4
Job No	0014	<u>-</u>		12/9/99
TOC to Water	(ft.) <u>8.80</u>	_	Sheen	Yes
Well Depth (ft.) 19.6	_	Free Produ	ct Thickness
Well Diamete	er 2"	_	Sample Col	lection Method
Gal./Casing	Vol. 1.8	_	Tef	lon Bailer
	2=5.4		(0)	ELECTRICAL (
TIME	GAL. PURGED	рн	TEMPERATURE	CONDUCTIVITY
10:55	01	6.39	63.2	11.98
10:24		6.15	70.1	12.66
10:26	3	6:27	76.3	13.68
10:29	4	6.24	76.4	12.61
10:3]	5-	6.45~	76.6	13.23
10:34	<i>_</i>	6,17	771	13.15
	Collect Sa	enplies		
		7—		
			1-10 17 17 17 17 17 17 17 17 17 17 17 17 17	
	·			
	****			<u> </u>
				
				
		- 100 de la casa - 100 de		
			<u> </u>	
			 	
				
·				-
NOTES:	/T -	· //	11	
<u> </u>	Throng pel	relium -	Kydrawin	dated on water in
wales	· Isrown m	oche fr	am occumu	dated on wale in
PURGE10.92	Milkovegl	- miles	۵.	

Mara on duty

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

P&D Environmental	Client Project ID: #0014; XTRA Oil –	Date Sampled: 12/09/99	
4020 Panama Court	Castro Valley	Date Received: 12/10/99	
Oakland, CA 94611	Client Contact: Paul King	Date Extracted: 12/10-12/18/99	
	Client P.O:	Date Analyzed: 12/10-12/18/99	

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030) Lab ID Client ID Ethylben % Recovery Matrix $TPH(g)^{+}$ MTBE Benzene Toluene **Xylenes** -zene Surrogate 27211 MW1 W 65,000,a,h ND<1000 9300 2900 2200 8800 101 27212 MW3 W 120,000,a,h 16,000 35,000 6700 2400 12,000 102 27213 MW4 W 120,000,a,h 8100 33,000 6000 2400 12,000 100 Reporting Limit unless W 50 ug/L 5.0 0.5 0.5 0.5 0.5 otherwise stated; ND means not detected above the reporting S 1.0 mg/kg0.05 0.005 0.005 0.005 0.005

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.



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

^{*} cluttered chromatogram; sample peak coelutes with surrogate peak

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P&D Environmental	Client Project ID: #0014; XTRA Oil -	Date Sampled: 12/09/99	
4020 Panama Court	Castro Valley	Date Received: 12/10/99	
Oakland, CA 94611	Client Contact: Paul King	Date Extracted: 12/10-12/20/99	
	Client P.O:	Date Analyzed: 12/14-12/20/99	

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) % Recovery Lab ID Client ID Matrix TPH(d)* Surrogate 27211 MWI W 12,000,d,b,h 111 27212 MW3 W 17,000,d,b,h 106 27213 MW4 W 9,000,000,d,a,h 105

the reporting timit	S	1.0 mg/kg					
* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP							
extracts in ug/L							

50 ug/L

diminished by dilution of original extract.

Reporting Limit unless otherwise stated; ND means not detected above

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) aged diesel? is 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 sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.

* cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been

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18041

CHAIN OF CUSTODY RECORD, 200 Joe PAGE 1 OF 1 (510) 658-6916 PROJECT NUMBER: PROJECT NAME: AWAL YSIS(ES); 0014 XTRA OIL Constro Wiley NUMBER OF CONTAINERS SAMPLED BY: (PRINTED AND SIGNATURE) REMARKS Paul H. King SAMPLE NUMBER SAMPLE LOCATION DATE TIME TYPE 12/9/49 MWI wester 3 MWI well TLE Normal Turn Around MW3 3 MWS MWY 3 11 MW4 1.5 1.1 ħ 27211 27212 27213 VOAS I OS GIMETALS LOTHER COD CONDITION RELINQUISHED BY: (SIGNATURE) DATE RECEIVED BY: (SIGNATURE) TOTAL HOL OF SAMPLES TIME LABORATORY: (THIS SHPMENT) 760 TOTAL NO. OF CONTAINERS (THIS SHIPMENT) McCambbell Analytical RELINQUISHED BY: (SIGNATURE) -DATE TIME RECEIVED BY: (SIGNATURE) LABORATORY CONTACT: LABORATORY PHONE NUMBER: m 17 ltung 1210m (925) 798-1620 Ed Hamilton RELINQUISHED BY: (SIGNATURE) DATE RECEIVED FOR LABORATORY BY: TIME SAMPLE ANALYSIS REQUEST SHEET (SIGNATURE) ATTACHED: ()YES ()NO REMARKS: