P & D Environmental

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



September 30, 1997 Report 0014.R25

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

SUBJECT: MONITORING WELL INSTALLATION REPORT

XTRA OIL Company

3495 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 permitting, installation, development, and sampling of one groundwater monitoring well at the subject site. This work was performed in accordance with P&D's proposal 073097.P1 dated July 30, 1997, and 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. A Site Location Map is attached with this report as Figure 1, and a Site Plan is attached as Figure 2.

All work was performed under the direct supervision of an appropriately registered professional. This report is prepared in accordance with guidelines set forth in the document "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites" dated August 10, 1990 and "Appendix A - Workplan for Initial Subsurface Investigation" dated August 20, 1991.

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 EW1, 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 EW1 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.

FIELD ACTIVITIES

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. Prior to performing field work, a permit was obtained from the Alameda County Public Works Agency, notification was provided to the ACDEH of the scheduled drilling date, Underground Service Alert was notified for buried utility location, and a health and safety plan was prepared.

Monitoring Well Installation and Soil Sample Collection

The boring for monitoring well MW4 was drilled using truck-mounted 8-inch outside diameter hollow stem auger drilling equipment. The boring for monitoring well MW4 was drilled to a total depth of 20.0 feet. Groundwater was encountered during drilling in the borehole for the monitoring well at a depth of 15.5 feet.

Soil samples were collected from the borehole at a maximum of five foot intervals using a California modified split spoon sampler lined with brass tubes driven by a 140 pound hammer falling 30 inches. Blow counts were recorded every six inches. The soil samples were classified lithologically in the field in accordance with standard geologic field techniques and the Unified Soil Classification System. In addition, the soil samples were evaluated in the field using a Model 580B OVM Photoionization Detector (PID) equipped with a 10.0 eV bulb and calibrated against a 100 ppm isobutylene standard. PID readings were recorded on the boring logs.

Mild to very strong petroleum hydrocarbon odors were detected in the soil from the borehole beginning at a depth of approximately three feet and extending to the total depth explored of 20 feet. Organic vapors were detected with the PID in the soil from the borehole for the monitoring well at depths of 5, 10, 15, and 18 feet at concentrations of 16.5, 58, 3.0, and 24 ppm, respectively.

Soil samples were collected at depths of 5.0, and 10.0 feet in borehole MW4 for laboratory analysis in the following manner. After collection of the sample into the brass tube in the California modified split spoon sampler, the ends of the brass tubes were wrapped in aluminum foil, covered with plastic endcaps, labeled, and placed in ziplock baggies. The capped brass tubes were then placed into a cooler with ice pending delivery to McCampbell Analytical Laboratory in Pacheco, California. McCampbell Analytical Laboratory is a State-certified hazardous waste testing laboratory. Chain of custody procedures were followed

for all sample handling. A copy of the boring log for borehole MW4 is attached with this report.

Groundwater monitoring well MW4 was constructed using two-inch diameter Schedule 40 PVC pipe with 15 feet of screened PVC (0.010-inch factory slot) which was placed in the bottom of the borehole between the depths of 5 and 20. A #2/16 Lonestar sack sand was placed into the annular space surrounding the PVC pipe to a height of two feet above the top of the slotted interval. A one-foot thick layer of bentonite pellets was placed above the sand and hydrated. The remaining annular space was filled with a neat cement grout to approximately one half foot below the ground surface.

The top of the PVC wellpipe for well MW4 was secured with a water-tight locking plug and enclosed in a water-tight, locking vault. The vault is traffic rated, and was set slightly above grade to diminish the accumulation of surface water inside the vault. A Well Construction Detail diagram for well MW4 is attached with this report. A Well Completion Report for well MW4 was completed and forwarded to the Alameda County Public Works Agency, in accordance with permit requirements.

Soil cuttings generated during drilling activities were stored onsite in a 55-gallon drum pending appropriate disposal.

Monitoring Well Surveyed Elevations

On August 20, 1997 the top of the PVC well pipe for each of wells MW1, MW3, and MW4 was surveyed vertically to the nearest 0.01 foot relative to a Mean Sea Level (MSL) datum by Elliott V. Ingram, Land Surveyor, of Concord, California. Elliott V. Ingram is a State-licensed surveyor. The surveyed top of the PVC well pipe elevations for MW1, MW3 and MW4 are 177.37, 176.60 and 1176.35 feet MSL, respectively. A copy of the letter transmitting the elevations from Elliott V. Ingram, including the surveyed elevations, a description of the benchmark, and the drawing showing the well locations is attached with this report.

Monitoring Well Development

Well MW4 was developed on August 20, 1997 by surging and over-pumping until the water discharged from the well was relatively clear. Prior to development, the well was monitored for depth to water using an electric water level indicator, and for the presence of free product or sheen using a transparent bailer. The measured depth to groundwater in well MW4 prior to development on August 20, 1997 was 7.66 feet. Depth to water was measured relative to the top of the PVC well casing. No free product, sheen or petroleum hydrocarbon odors were detected in water removed from the well during well development. The depth to water level measurement prior to well development is presented in Table 1.

A total of approximately 30 gallons was removed from the well during well development. Water removed from the well during development was placed into a DOT-approved 55-gallon drum and stored onsite pending appropriate disposal.

Monitoring Well Purging and Sample Collection

On August 26, 1997 well MW4 was monitored for depth to water and the presence of free product and sheen using methods described above. The measured depth to water in well MW4 was 8.92 feet. The depth to water level measurement is presented in Table 1.

After the well had been monitored, the well MW4 was purged of a minimum of three casing volumes of water. During purging operations, the field parameters of pH, electrical conductivity and temperature were monitored. Once the field parameters had been observed to stabilize and a minimum of three casing volumes

have been purged, a groundwater sample was collected from the well using a Teflon bailer. The bailer was cleaned using an Alconox solution and clean water rinse prior to use. A copy of the data sheet used to record the field parameters during well purging is attached with this report.

The groundwater sample was transferred from the bailer to 40 milliliter Volatile Organic Analysis (VOA) vials containing hydrochloric acid preservative and to one-liter amber glass bottles which were sealed with Teflon-lined screw caps. The VOA vials were overturned and tapped to assure that air bubbles were not present. The sample bottles were then labeled and placed into a cooler with ice pending delivery to McCampbell Analytical Laboratory. Chain of custody procedures were observed for all sample handling.

GEOLOGY AND HYDROGEOLOGY

Based on observations of the subsurface materials encountered in the borehole, the subsurface materials consist predominantly of a brown silty clay with minor medium fine sand to the total depth explored of approximately 20 feet.

Although groundwater was initially encountered during drilling at a depth of approximately 15.5 feet below grade, groundwater stabilized in the well at a depth of approximately 8.9 feet below grade.

Water levels were measured in monitoring wells MW1, MW3, and MW4 at the site on August 26, 1997. The measured depth to water in wells MW1, MW3, and MW4 on August 26, 1997 was 8.51, 7.67 and 8.92 feet, respectively. Groundwater levels have increased in wells MW1 and MW3 by 0.20, and 0.23 feet, respectively, since the previous monitoring on July 24, 1997. Based on the measured depth to groundwater in groundwater monitoring wells MW1, MW3, and MW4, the apparent groundwater flow direction at the site on August 26, 1997 was calculated to be to the east-northeast with a gradient of 0.023.

Groundwater monitoring data collected on August 26, 1997 are presented in Table 1. The groundwater flow direction at the site on August 26, 1997 is shown on Figure 2.

LABORATORY ANALYTICAL RESULTS

The soil samples collected from borehole MW4 and the groundwater sample collected from monitoring well MW4 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 3550 (soil) or 3510 (water) in conjunction with Modified EPA Method 8015.

The laboratory analytical results of the soil samples collected from borehole MW4 show that at the 5 and 10 foot depths (samples MW4-5.0 and MW4-10.0, respectively) TPH-G was detected at concentrations of 350 and 1,600 ppm, respectively; benzene was detected at concentrations of 4.7 and 18 ppm, respectively; and TPH-D was detected at concentrations of 200 and 3,400 ppm, respectively. Review of the laboratory analytical reports indicates that the TPH-D results for the soil samples for groundwater monitoring well MW4 consist of both gasoline-range and diesel-range compounds. The laboratory analytical results of the soil samples are summarized in Table 2. Copies of the laboratory analytical report and chain of custody documentation are attached with this report.

The laboratory analytical results of the groundwater sample collected from MW4 show that TPH-G, MTBE, benzene, and TPH-D were detected at concentrations of 210, 1.7, 48, and 5.5 ppm, respectively. Review of the laboratory analytical reports indicates that the TPH-D results for the groundwater sample from well MW4 consist of both gasoline-range and diesel-range compounds. The laboratory

analytical results of the water samples are summarized in Table 3. Copies of the laboratory analytical report and chain of custody documentation are attached with this report.

DISCUSSION AND RECOMMENDATIONS

One groundwater monitoring well designated as MW4 was installed adjacent to Redwood Road at the subject site. Between February 7, 1996 and the installation of well MW4, only two monitoring wells were at the site. During this time it was not possible to calculate groundwater flow direction.

The subsurface materials encountered in the borehole were predominantly brown silty clay with minor to medium fine sand to the total depth explored of approximately 20 feet. Groundwater was initially encountered during drilling at a depth of approximately 15.5 feet, and later stabilized at a depth of 8.92 feet below grade.

The results of the soil samples collected from the borehole show that at the 5 and 10 foot depths TPH-G was detected at concentrations of 350 and 1,600 ppm, respectively; benzene at concentrations of 4.7 and 18 ppm, respectively; and TPH-D at concentrations of 200 and 3,400 ppm, respectively. The results of the groundwater sample collected from MW4 show that TPH-G, MTBE, benzene, and TPH-D were detected at concentrations of 210, 1.7, 48, and 5.5 ppm, respectively.

Based upon the sample results, P&D recommends that the quarterly groundwater monitoring and sampling program be continued.

DISTRIBUTION

Copies of this report should be sent to Mr. Scott Seery at the ACDEH and to Mr. Kevin Graves at the San Francisco Bay Regional Water Quality Control Board.

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.

DONIR. BRAUN No. 1310 CERTIFIED ENGINEEVING

GEOLOGIST

Sincerely,

P&D Environmental

Paul H. King Hydrogeologist

Don R. Braun

Certified Engineering Geologist

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

Attachments: Tables 1, 2, & 3

Site Location Map - Figure 1

Site Plan - Figure 2

MW4 Boring Log

MW4 Well Construction Details

Wellhead Survey Data

Well Sampling Purge Data Sheet Laboratory Analytical Reports Chain of Custody Documentation

PHK 0014.R25

TABLE 1 WELL MONITORING DATA

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)
MW1	8/26/97 7/24/97 4/25/97 1/20/97 7/26/96 7/09/96 4/23/96 2/07/96 1/29/96 10/26/95 7/28/95 5/02/95 2/23/95 11/18/94 8/22/94 5/19/94 2/28/94 11/24/93 8/30/93 5/18/93 2/23/93 11/13/92 5/29/92 1/14/92 12/23/91 11/25/91	200.00*** 175.73	8.51 8.71 7.98 7.12 8.39 8.16 7.47 6.09 6.17 8.45 8.27 6.96 7.72 7.14 8.67 8.05 7.44 8.78 8.78 8.12 7.34 9.13 8.59 8.57 9.65 9.41	168.86 168.72 169.45 170.31 169.04 169.27 169.96 171.34 171.26 168.98 169.16 170.47 169.71 170.29 168.76 169.38 169.38 169.38 169.38 169.38 169.38 169.38 169.38
MW2	10/10/91 9/17/91 8/19/91	ED (DESTROYED ON I 176.04**	9.70 9.50 9.31	166.03 166.23 166.42 170.34 170.88 167.83 168.05 169.25 168.53 169.12 167.45 168.34 169.05 167.57 167.40 168.31 169.65

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 Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)
MW2	11/13/92	198.61***	B.70	189.91
	5/29/92	175.45	9.31	166.14
	1/14/92		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		10.23	165.22
	8/19/91		9.60	165.85
MW3	8/26/97	176.60*	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	169.26
	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 8.01	169.29 168.40
	2/23/93 11/13/92	190.97***	7.86	191.12
	5/29/92	175.00	8.45	166.55
	1/14/92	1/3.00	8.24	166.55
	1/14/92 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
	0/13/31		0.33	100.03
MW4	8/26/97	176.35*	8.92	167.43
	8/20/97		7.66 (prior to	development)

NOTES:

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

TABLE 2 SOIL BORING LABORATORY ANALYTICAL RESULTS (Samples Collected on August 15, 1997)

Sample Location	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes
MW4-5.0#	200	350	NID	4.7	1.1	6.9	6.2
MW4-10.0# 3	,400	L,600	ND	18	3.6	25	120

NOTES:

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

MTBE = Methyl tert-Butyl Ether.

ND = Not Detected.

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

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

TABLE 3 GROUNDWATER LABORATORY ANALYTICAL RESULTS (Sample Collected on August 26, 1997)

Sample Location	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes
MW4#	5.5	210	1.7	48	42	3.4	19

NOTES:

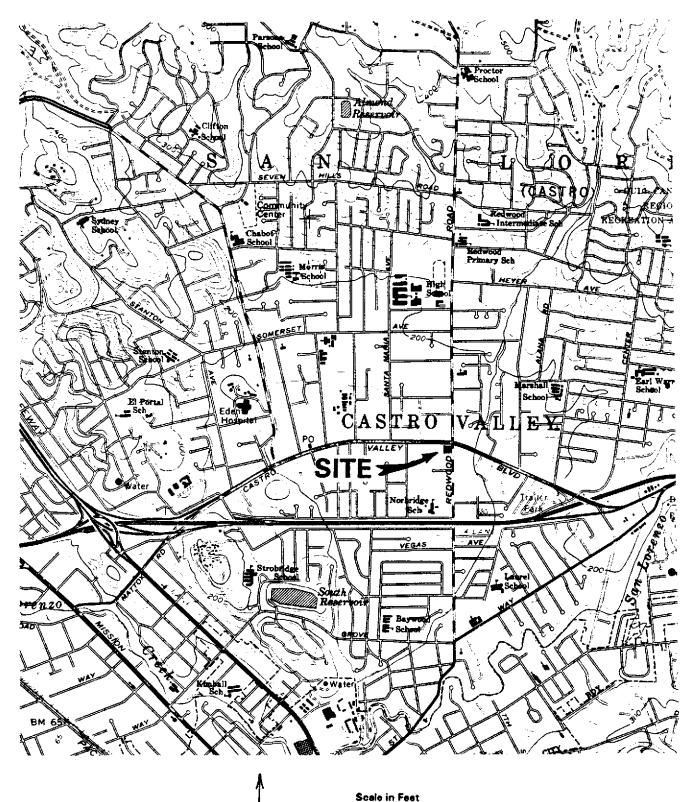
TPH-D = Total Petroleum Hydrocarbons as Diesel. TPH-G = Total Petroleum Hydrocarbons as Gasoline.

MTBE = Methyl tert-Butyl Ether.

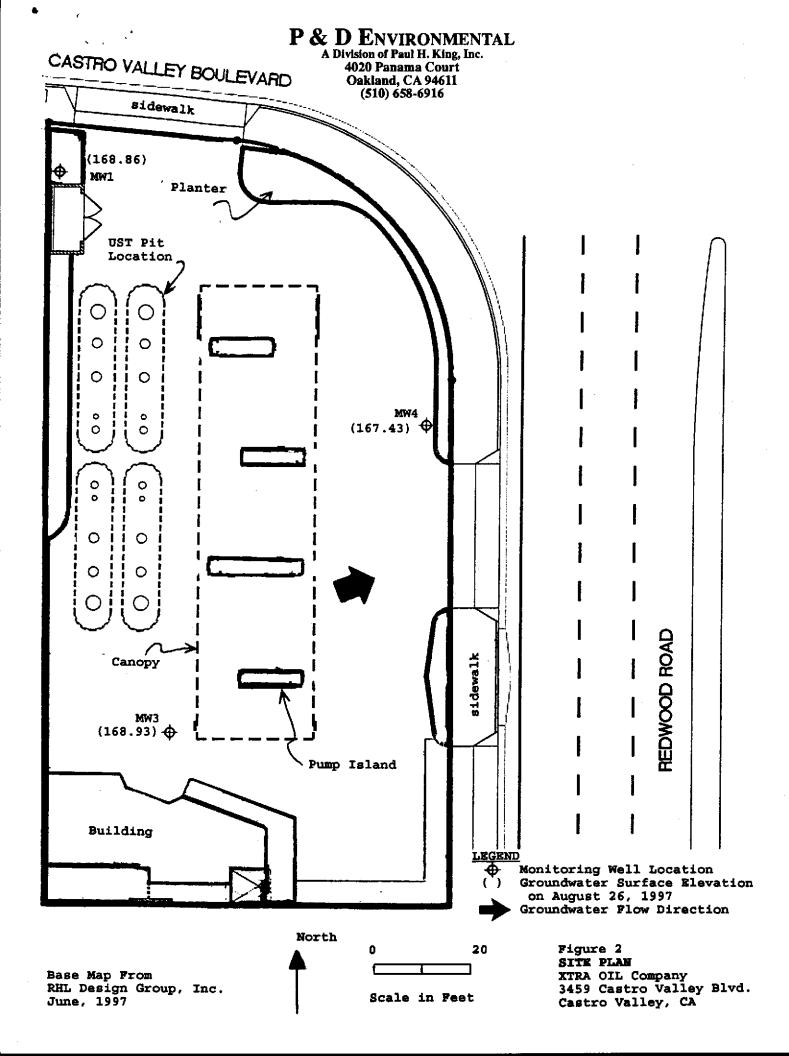
ND = Not Detected.

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
XTRA OIL Company
3495 Castro Valley Blvd.
Alameda, California



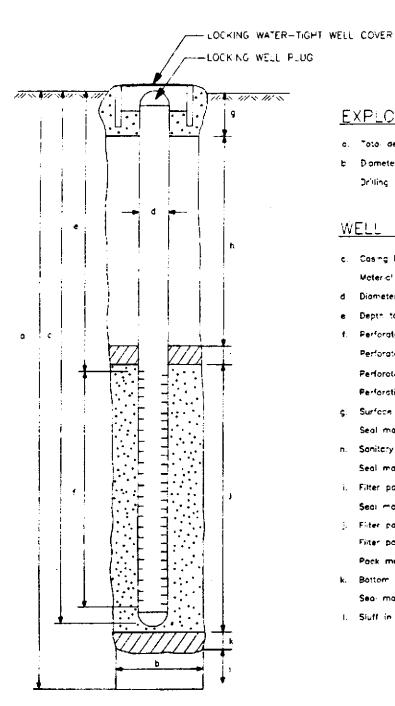
BOF	RING	NO.	: MW4 PROJECT NO.: 0014 PROJECT	NAM.	E: XI	RA OIL COMPANY	- C	ASTRO	VALLEY	
809	NG	LOC	CATION: NEXT TO PLANTER ON REDWOOD ROAD			ELEVATION AND			ME STARTED: DATE & T	ME FINISHED.
DRI	LUNC) AC	SENCY: EXPLORATION GASERVICES, INC. DRILLER: DAY	VE_Y	<u>. & </u>	DAVE N.	JAA			
DR!	LING) E(QUIPMENT: 8" OD HOLLOW STEM AUGER					5,		/15/97
			DEPTH: 20 FEET BEDROCK DEPTH:	NON	NE EN	COUNTERED		LOGO		KED BY:
			R DEPTH: 15.5 FEET NO. OF SAMPLES:				Ì		AOC	РНК
						₹				
1	осетн (гт.)		DESCRIPTION		₽≅	TRUCTION	COUNT	Ę	REMARK	S
	EPT		DESCRIPTION.	ĺ	GRAPHIC	SON STATE	BLOW PER 6	Pt0/ppm		
	0		Concrete			See attached			Samples collected us	ing 3 1/2"
	1		Dark brown SILTY CLAY (CL); with minor fine to medium sand, stiff, moist.		CL	Well Construction Detail Diagram	ļ		OD California Madified Spoon sampler driver	by a
E	2		Moderate Petroleum Hydrocarbon (PHC) odor.						140# hammer failing	30 .
E	3									
F	4	-		\exists						
F	5	4		-			4			
F	6	\exists		\exists			5	16.5		
F	7	\exists	Light green SILTY CLAY (CL); with abundant fine		CL					
	8	크	to medium sand, very stiff, moist. Strong PHC odor.	\exists	O.L					
E	9			\exists	:					
E	٠٨	크	_	\exists						I
F		\Box		\exists			10	58	•	
F	11	\exists	l <u> </u>	\dashv			9			
F	12	\exists	Red-brown S'LTY CLAY (CL); with some gray mottling, minor fine to medium sand, very	\exists	CL					
E	13	コ	moist, stiff to hard. Mild PHC ador.	\exists						
	14	1	·	\exists						
E	15					℧	13		Groundwater first en	
E	16	\pm					18	3.0	at 15.5 feet at 8:17 on 8/15/97.	7 AM
F	17	\exists	Brown SiLTY CLAY (CL) with minor gray mottling,	1	CL				•	
F	18	\exists	saturated, hard. Moderate PHC odor.	\exists						
F	19	7	7	귀	į			24		
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	21	\exists		\exists				ļ	Borehole terminatea feet below grade.	at 2C
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P & D ENVIRONMENTAL

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

WELL CONSTRUCTION DETAILS

PROJECT :	NUVBER	0014	BORING/WELL NO	MW4
PROJECT I	NAME Xira C		TOP OF CASING ELEV.	176.35
			GROUND SURFACE ELEV	
WELL PER	VIT NO		DATUM BOLT ON TRAFFIC	

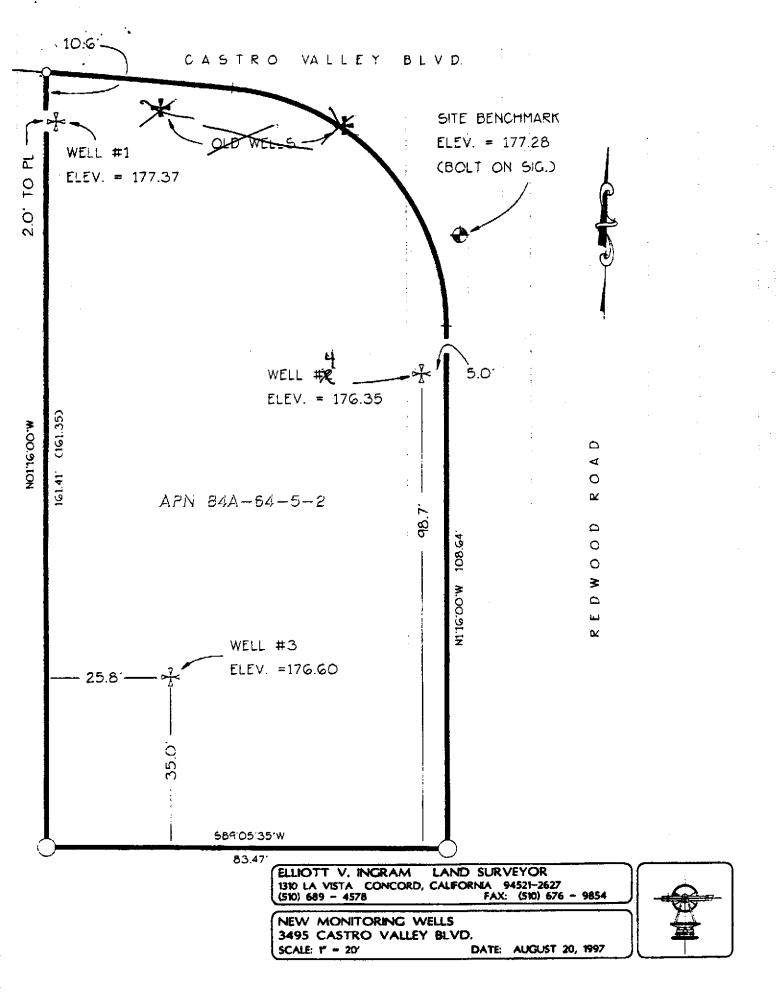


EXPLORATORY BORING

¢.	Total depth			20.0	F
þ	Dameter			8.0	.ik
	Oriting method	Hollow	5:e~	Auger	

WELL CONSTRUCTION

	Casing length		20.0	£-T
٠.		Sched	Je 40 PVC	
	Moteric!		2	. IN.
đ	Diameter			. IN.
e	Depth to top perforations		5.0	FT.
ŧ.	Perforated length		15	. ,
	Perforated interval from	5 to	20	
	Perforation type		cotory Slot	
	Perforation size		0.010 nch	
	Ferorettor size		0.5	
Ç.	Surface sanitary sea!			. T.
	Seal material		Concrete	
n.	Sonitary sec		1.5	. П
	Seal material	N	ect Cement	
i.	Filter pack seal		1.0	F
	Seor moteria:	Bent	onite Peret	
j.	Filter pack length		17.0	
•	Filter pack interval from	3.0 te	20.0	F
	Pack material	#2/16 Lonestor		
	FOCK MOTERION		0	
k.	Bottom seal			. - T
	Sea- material		None	
1.	Siuff in bottom of boreho	o!e	0	. FT.



P&D ENVIRONMENTAL GROUNDWATER MONITORING/WELL PURGING DATA SHEET

Site Name	XIZA GIL Confiny -	Cush: Nichten	Well No	MUY
Job No	evi4		Date 🙄	126/57
TOC to Wat	er (ft.) F , 92		Sheen	None
Well Depth	(ft.) 26.6		Free Produc	ct Thickness $_{-}$
Well Diame	eter2"			lection Method
Gal./Casir	ng Vol. <u>/,</u> £		TOPLIN G	boiler
TIME	GAL. PURGED	рН	TEMPERATURE(°F)	ELECTRICAL CONDUCTIVITY
7.00	<u> </u>	7.45	72 1	4.95 x
7.03	1.8	7.35	72.5	<u> 5.20</u>
7.0E		7.25	72.7	+1, 35
<u>7.09</u>	3 t	7,25	72.3	4 20
7.12	4,5	718	71.1	4, 25
7.15	5,4	7.15	71.6	4.15
740	Sampled			
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				<u> </u>
				
, 				
				<u></u>
			·	
NOTES:				
With we	> pureed using	Honds or	my of footwhe	
PURGE10.92	1	· /*····	J	
TOC	to H2 C			
V 6.	31			