

XTRA OIL COMPANY
2307 PACIFIC AVE.
ALAMEDA, CA 94501
(510) 865-9503

ENVIRONMENTAL
PROTECTION

98 JAN -2 PM 4:01

December 31, 1997

ALAMEDA COUNTY
DEPT. OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
1131 HARBOR BAY PKWY. ROOM 250
ALAMEDA, CA. 94502

ATTENTION: EVA CHU
REGARDING: 1701 PARK ST.
ALAMEDA

DEAR MS. CHU,

PLEASE FIND ENCLOSED, THE GROUNDWATER MONITORING AND SAMPLING REPORT
FOR THE ABOVE LOCATION. IF YOU HAVE ANY QUESTIONS FEEL FREE TO
CONTACT ME.

SINCERELY,


KEITH SIMAS

ENCLOSURES

4/2/98
Need Amp, RBCA,
Part of thickness
at Ksumas in charge
Prady will send Amp
then send the RBCA

GROUNDWATER MONITORING AND SAMPLING REPORT

**Xtra Oil Company Service Station (dba Shell)
1701 Park Street
Alameda, California**

Project No. 10-210-08-001

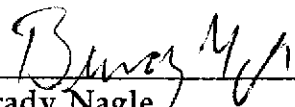
Prepared for:

**Xtra Oil Company
2307 Pacific Avenue
Alameda, California**


Prepared by:

**Alisto Engineering Group
1575 Treat Boulevard, Suite 201
Walnut Creek, California**

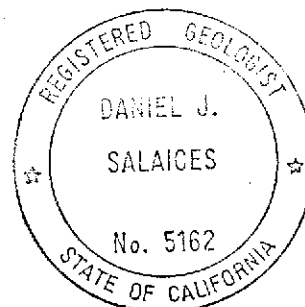
November 24, 1997



**Brady Nagle
Project Manager**



**Daniel Salaices
Registered Geologist**



GROUNDWATER MONITORING AND SAMPLING REPORT

Xtra Oil Company Service Station (dba Shell)
1701 Park Street
Alameda, California

Project No. 10-210-08-001

November 24, 1997

INTRODUCTION

This report presents the results and findings of the September 11, 1997 groundwater monitoring and sampling conducted by Alisto Engineering Group at the Xtra Oil Company service station (dba Shell), 1701 Park Street, Alameda, California. A site vicinity map is shown on Figure 1.

FIELD PROCEDURES

Field activities were performed in accordance with the procedures and guidelines of Alameda County Health Care Services Agency and the California Regional Water Quality Control Board, San Francisco Bay Region.

Before purging and sampling, the groundwater level in each well was measured from a permanent mark on top of the casing to the nearest 0.01 foot using an electronic sounder. The depth to groundwater and top of casing elevation data were used to calculate the groundwater elevation in each well in reference to mean sea level. The survey data and groundwater elevation measurements collected to date are presented in Table 1.

Before sample collection, each well was purged of 3 casing volumes while recording field readings of pH, temperature and electrical conductivity. Groundwater samples were collected for laboratory analysis by lowering a bottom-fill, disposable bailer to just below the water level in each well. The samples were transferred from the bailer into laboratory-supplied containers. The water sampling field survey forms are presented in Appendix A.

SAMPLING AND ANALYTICAL RESULTS

The results of monitoring and laboratory analysis of the groundwater samples for this and previous events are summarized in Table 1. The potentiometric groundwater elevations as interpreted from the results of this monitoring event are shown on Figure 2. The results of laboratory analysis are shown on Figure 3. The laboratory report and chain of custody record are presented in Appendix B.



FINDINGS

The findings of the September 11, 1997 groundwater monitoring and sampling event are summarized as follows:

- Approximately 0.03 foot of free product was observed in Monitoring Well MW-2. Free product or sheen was not observed in Monitoring Wells MW-1 and MW-3.
- Groundwater elevation data indicate a gradient of approximately 0.02 foot per foot in a northeasterly direction across the site.
- Analysis of the groundwater samples detected up to 100000 micrograms per liter (ug/l) total petroleum hydrocarbons as gasoline and up to 19000 ug/l benzene in the sample collected from Monitoring Well MW-1.



TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 XTRA OIL COMPANY SERVICE STATION
 1701 PARK STREET, ALAMEDA, CALIFORNIA

ALISTO PROJECT NO. 10-210

WELL ID	DATE OF MONITORING/ SAMPLING	CASING ELEVATION (Feet)	(a)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	SVOCs (ug/l)	DO (ppm)	LAB
MW-1	11/04/94	19.49		8.64	---	10.85	60000	6400	13000	4900	1300	5500	---	---	---	MCC
QC-1 (c)	11/04/94	---		---	---	---	54000	---	12000	4500	1200	5200	---	---	---	MCC
MW-1	01/11/95	19.49		6.10	---	13.39	---	---	---	---	---	---	---	---	---	---
MW-1	02/24/95	19.49		6.57	---	12.92	56000	4400	13000	7000	1400	5100	---	---	---	MCC
QC-1 (c)	02/24/95	---		---	---	---	43000	---	8900	4600	970	3300	---	---	---	MCC
MW-1	05/25/95	19.49		6.54	---	12.95	53000	4700	11000	5700	1200	4000	---	---	4.3	MCC
QC-1 (c)	05/25/95	---		---	---	---	48000	---	11000	5300	1200	3800	---	---	---	MCC
MW-1	08/30/95	19.49		8.15	---	11.34	14000	3700	5000	1100	3900	103	---	---	2.8	MCC
QC-1 (c)	08/30/95	---		---	---	---	57000	---	17000	7000	1500	5200	---	---	---	MCC
MW-1	11/16/95	19.49		8.79	---	10.70	100000	5900	22000	17000	2100	8500	---	---	---	MCC
QC-1 (c)	11/16/95	---		---	---	---	95000	---	20000	15000	1800	7800	---	---	---	MCC
MW-1	03/20/96	19.49		6.45	---	13.04	46000	3300	10000	6200	1100	3200	---	---	---	MCC
QC-1 (c)	03/20/96	---		---	---	---	42000	---	9800	5800	970	3000	---	---	---	MCC
MW-1	06/13/96	19.49		7.14	---	12.35	44000	5400	9500	5500	1100	4000	19000	---	---	MCC
QC-1 (c)	06/13/96	---		---	---	---	48000	---	9300	5600	1000	3800	17000	---	---	MCC
MW-1	09/23/96	19.49		7.56	---	11.93	76000	14000	14000	11000	1600	7100	17000	---	6.1	MCC
MW-1	12/19/96	19.49		7.08	---	12.41	46000	---	12000	5500	1200	4100	---	---	---	MCC
MW-1	05/09/97	19.60	(d)	7.39	---	12.21	80000	7500	14000	12000	1700	7600	14000	280 (e)	2.7	MCC/CHR
MW-1	09/11/97	19.60		7.50	---	12.10	100000	7700	19000	19000	2400	11000	ND<2100	---	7.2	MCC
MW-2	11/04/94	20.29		9.12	0.16	11.29	---	---	---	---	---	---	---	---	---	---
MW-2	01/11/95	20.29		6.75	---	13.54	---	---	---	---	---	---	---	---	---	---
MW-2	02/24/95	20.29		7.11	0.18	13.32	---	---	---	---	---	---	---	---	---	---
MW-2	05/25/95	20.29		7.01	0.01	13.29	---	---	---	---	---	---	---	---	---	---
MW-2	08/30/95	20.29		8.58	0.12	11.80	---	---	---	---	---	---	---	---	---	---
MW-2	11/16/95	20.29		9.07	0.01	11.23	---	---	---	---	---	---	---	---	---	---
MW-2	03/20/96	20.29		6.79	0.01	13.51	---	---	---	---	---	---	---	---	---	---
MW-2	06/13/96	20.29		7.41	0.01	12.89	---	---	---	---	---	---	---	---	---	---
MW-2	09/23/96	20.29		7.83	0.01	12.47	30000	19000	4600	180	1500	4100	2600	---	5.5	MCC
QC-1 (c)	09/23/96	---		---	---	---	33000	---	4700	170	1600	3900	2400	---	---	MCC
MW-2	12/19/96	20.29		7.37	0.01	12.93	29000	---	1800	240	1400	5400	---	(f)	---	MCC
QC-1 (c)	12/19/96	---		---	---	---	29000	---	580	210	1300	5100	---	---	---	MCC
MW-2	05/09/97	20.31	(d)	6.11	0.21	14.36	34000	6700000	4600	260	1500	4300	1600	---	3.7	MCC
MW-2	09/11/97	20.31		7.70	0.03	12.63	44000	1200000	3900	250	2400	7400	ND<610	---	6.5	MCC
QC-1 (c)	09/11/97	---		---	---	---	47000	1100000	4000	420	2700	8300	920	---	---	MCC

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 XTRA OIL COMPANY SERVICE STATION
 1701 PARK STREET, ALAMEDA, CALIFORNIA

ALISTO PROJECT NO. 10-210

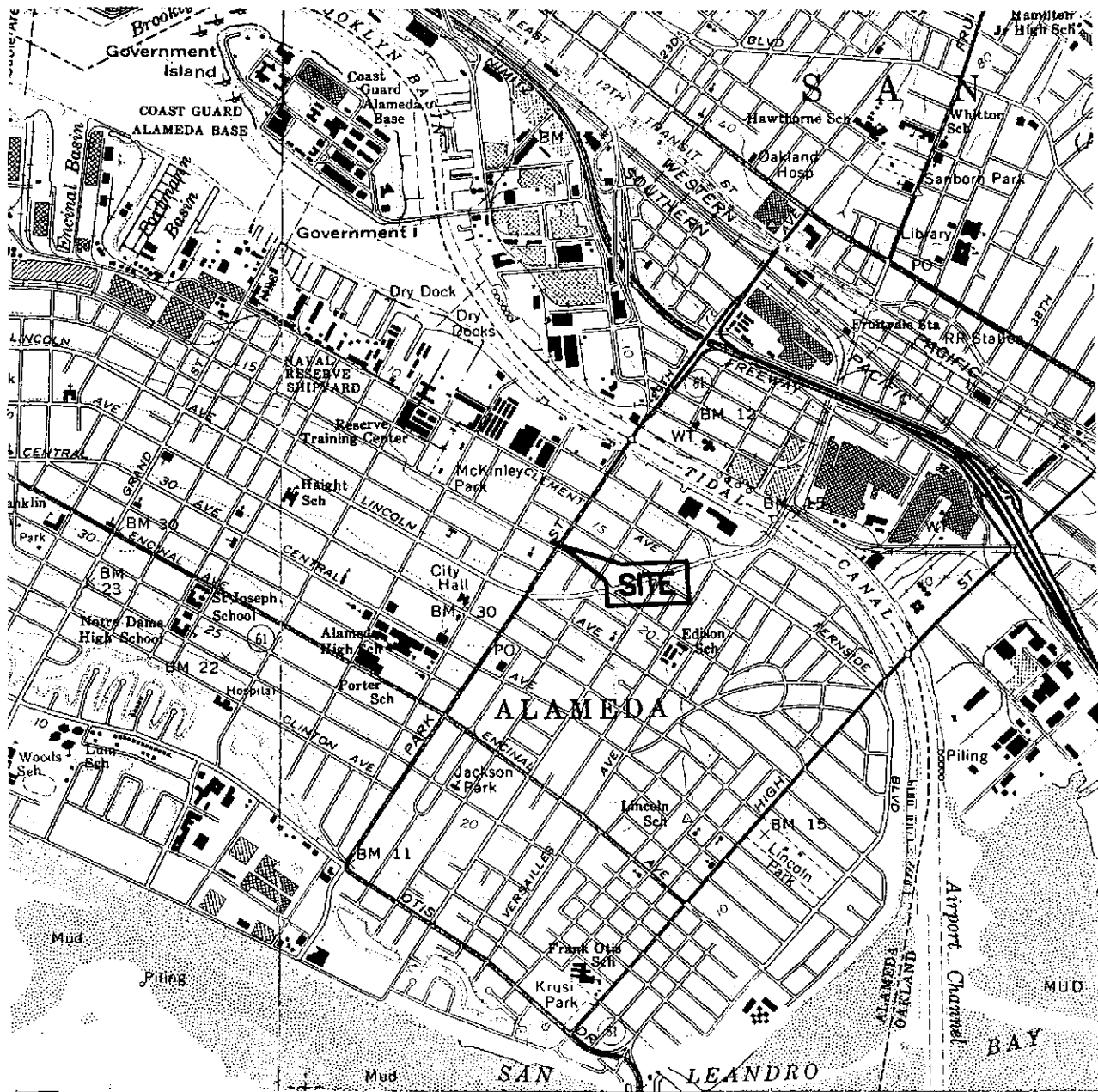
WELL ID	DATE OF MONITORING/ SAMPLING	CASING ELEVATION (Feet)	(a)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	SVOCs (ug/l)	DO (ppm)	LAB	
MW-3	11/04/94	20.58		8.92	---	11.66	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	MCC	
MW-3	01/11/95	20.58		5.67	---	14.91	---	---	---	---	---	---	---	---	---	---	
MW-3	02/24/95	20.58		6.11	---	14.47	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	MCC	
MW-3	05/25/95	20.58		6.24	---	14.34	91	ND<50	28	12	2.1	6.5	---	---	---	MCC	
MW-3	08/30/95	20.58		8.27	---	12.31	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	4.6	MCC	
MW-3	11/16/95	20.58		8.82	---	11.76	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	MCC	
MW-3	03/20/96	20.58		5.44	---	15.14	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	MCC	
MW-3	06/13/96	20.58		6.17	---	14.41	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	---	---	MCC	
MW-3	09/23/96	20.58		6.57	---	14.01	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	---	4.9	MCC	
MW-3	12/19/96	20.58		6.59	---	13.99	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	MCC	
MW-3	05/09/97	20.57	(d)	7.00	---	13.57	ND<50	59	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	---	3.3	MCC	
MW-3	09/11/97	20.57		6.92	---	13.65	ND<50	82	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	---	7.0	MCC	
MW-4	05/09/97	19.69		7.17	---	12.52	31000	15000	540	1300	1000	4500	1900	2.1	(e)	3.1	MCC/CHR
MW-4	09/11/97	19.69		7.71	---	11.98	40000	6500	2000	3100	1700	7700	3400	---	---	6.4	MCC
QC-2 (g)	11/04/94	---		---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	MCC	
QC-2 (g)	02/24/95	---		---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	MCC	
QC-2 (g)	05/25/95	---		---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	MCC	
QC-2 (g)	08/30/95	---		---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	MCC	
QC-2 (g)	11/16/95	---		---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	MCC	
QC-2 (g)	03/20/96	---		---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	MCC	
QC-2 (g)	06/13/96	---		---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	MCC	

ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline using EPA Methods 5030/8015
 TPH-D Total petroleum hydrocarbons as diesel using EPA Methods 3510/8015
 B Benzene using EPA Methods 5030/8020
 T Toluene using EPA Methods 5030/8020
 E Ethylbenzene using EPA Methods 5030/8020
 X Total xylenes using EPA Methods 5030/8020
 MTBE Methyl tert butyl ether using EPA Methods 5030/8020
 SVOCs Semivolatile organic compounds using EPA Method 8270
 DO Dissolved oxygen
 ug/l Micrograms per liter
 ppm Parts per million
 --- Not analyzed/applicable/measurable
 ND Not detected above reported detection limit
 MCC McCampbell Analytical, Inc.
 CHR Chromalab, Inc.

NOTES:

(a) Top of casing surveyed relative to mean sea level.
 (b) Groundwater elevations expressed in feet above mean sea level, and adjusted assuming a specific gravity of 0.75 for free product.
 (c) Blind duplicate.
 (d) Top of casing elevation resurveyed on April 29, 1997.
 (e) SVOC analysis for polynuclear aromatics detected only naphthalene at the concentration stated.
 (f) SVOCs detected at concentrations of 420 ug/l naphthalene, 200 ug/l 2-methylnaphthalene, and 14 ug/l phenanthrene.
 (g) Travel blank.



SOURCE:
 USGS MAP, OAKLAND WEST AND EAST QUADRANGLE,
 7.5 MINUTE SERIES. 1959.
 PHOTOREVISED 1980.

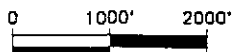


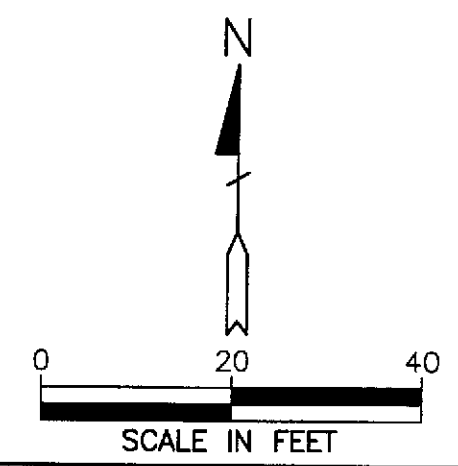
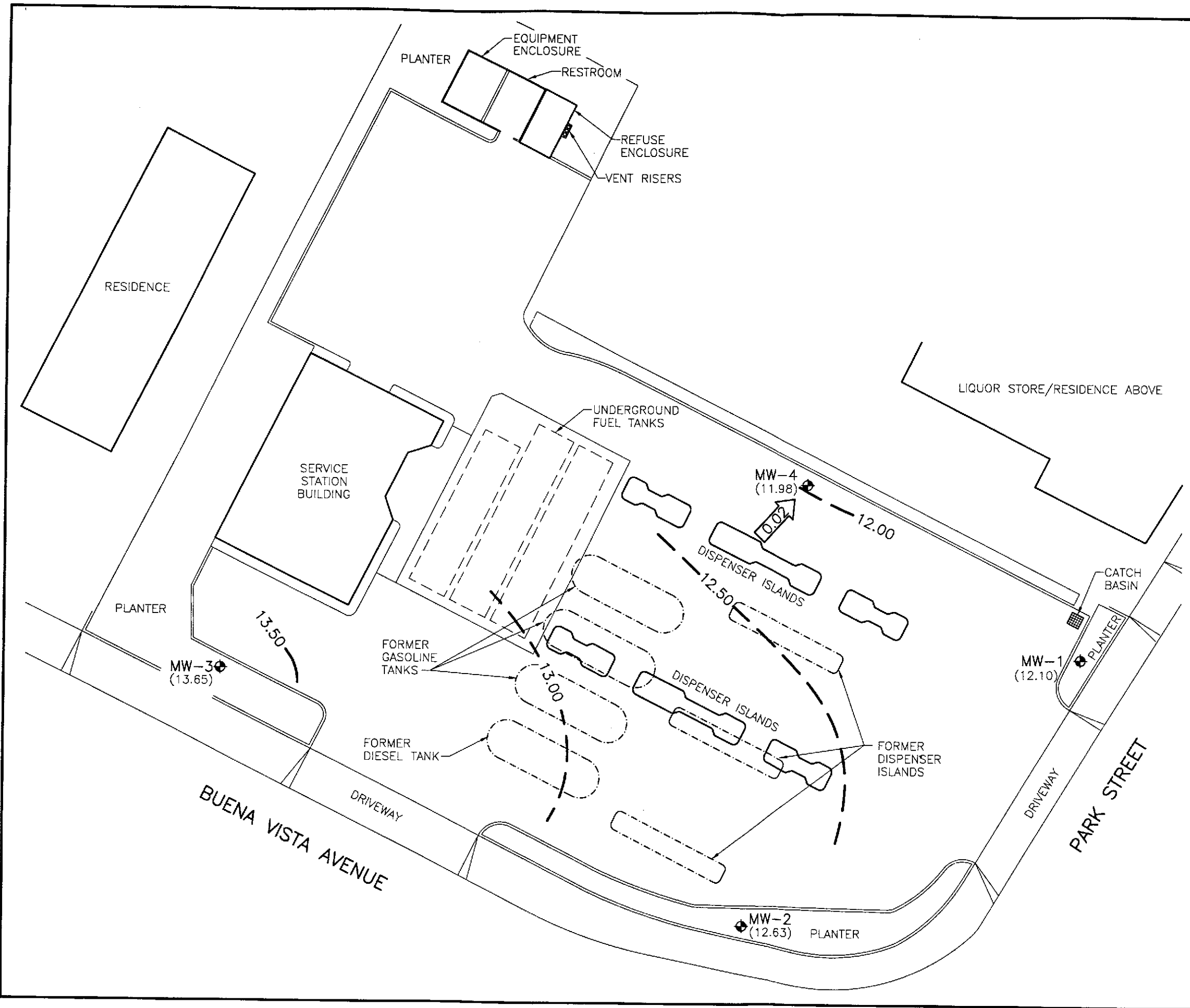
FIGURE 1
SITE VICINITY MAP

XTRA OIL COMPANY SERVICE STATION
1701 PARK STREET
ALAMEDA, CALIFORNIA

PROJECT NO. 10-210

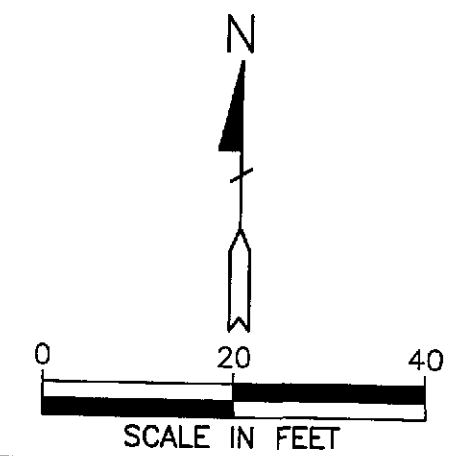
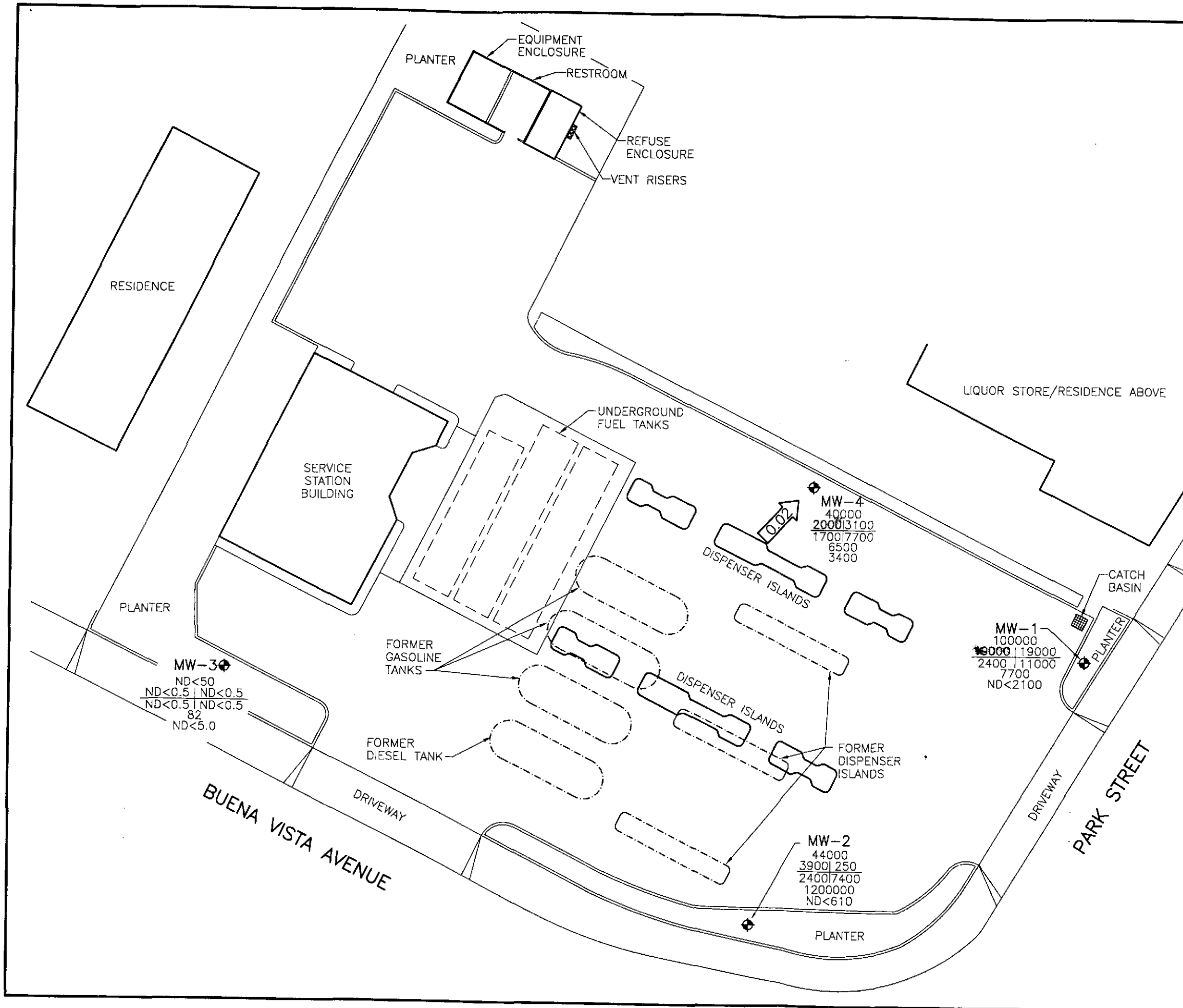


ALISTO ENGINEERING GROUP
 WALNUT CREEK, CALIFORNIA



- LEGEND**
- ◆ GROUNDWATER MONITORING WELL
 - (11.98) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
 - 12.00 - GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL - 0.50 FOOT)
 - ← 0.02 → CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 2
POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP
 SEPTEMBER 11, 1997
 XTRA OIL COMPANY SERVICE STATION
 1701 PARK STREET
 ALAMEDA, CALIFORNIA
 PROJECT NO. 10-210



LEGEND

- ◆ GROUNDWATER MONITORING WELL
- TPH-G CONCENTRATION OF CONSTITUENTS IN MICROGRAMS PER LITER
- B BENZENE
- T TOLUENE
- E ETHYLBENZENE
- X TOTAL XYLENES
- TPH-D TOTAL PETROLEUM HYDROCARBONS AS DIESEL
- MTBE METHYL TERT BUTYL ETHER
- ND NOT DETECTED ABOVE REPORTED DETECTION LIMIT
- ←0.02 CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 3
CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER
SEPTEMBER 11, 1997
 XTRA OIL COMPANY SERVICE STATION
 1701 PARK STREET
 ALAMEDA, CALIFORNIA
 PROJECT NO. 10-210

APPENDIX A
WATER SAMPLING FIELD SURVEY FORMS

ALISTO

Field Report / Sampling Data Sheet

ENGINEERING
GROUP

1575 TREAT BOULEVARD, SUITE 201
WALNUT CREEK CA 94598 (510) 295-1650 FAX 295-1823

Project No. 10-210 - 08 - 001 Date: 9/11/97
Address 1701 Park Street Day: MTWTFP
Contract No. Pending City: Alameda
Station No. XTRA Sampler: UB

DEPTH TO GROUNDWATER SUMMARY

WELL ID	SAMPLE ID	WELL DIAM	TOTAL DEPTH	DEPTH TO WATER	PRODUCT THICKNESS	TIME MONITORED	COMMENTS:
MW-1	S-3	2"	20.00	7.50	∅	1429	
MW-2	S-4	2"	20.00	7.70	.03	1435	QC-1(S-5) From this well
MW-3	S-1	2"	20.00	6.92	∅	1420	
MW-4	S-2	2"	20.00	7.71	∅	1426	

FIELD INSTRUMENT CALIBRATION DATA

pH METER Jun 4.00 4 7.00 7 10.00 10 TEMPERATURE COMPENSATED ⊕ N TIME 1045 WEATHER clear
D.O. METER Jun ZERO d.O. SOLUTION _____ BAROMETRIC PRESSURE 760 TEMP _____
CONDUCTIVITY METER Jun 10,000 _____ TURBIDITY METER _____ 5.0 NTU _____ OTHER X
LEAK DETECTOR: _____ ALARM MODE X NON ALARM MODE _____

Well ID	Depth to Water	Diam	Cap/Lock	Product Dept	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.	
MW-3	6.92	2"	OK	∅	Y (N)	2	1452	72.4	7.14	671µs	7.0	<input type="checkbox"/> EPA 601 _____ <input checked="" type="checkbox"/> TPH-G/BTEX _____ <input checked="" type="checkbox"/> TPH Diesel _____ <input type="checkbox"/> TOG 5520 _____
Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.						4		71.6	7.06	710µs		
$20.00 - 6.92 = 13.08 \times .16 = 2.09 \times 3 = 6.27$						7	1501	71.2	7.02	719µs	7.0	TIME/SAMPLE ID
Purge Method: <input checked="" type="checkbox"/> Surface Pump ODisp. Tube OWinch ODisp. Bailer(s) _____ OSys Port _____												1507
Comments: _____												

Well ID	Depth to Water	Diam	Cap/Lock	Product Dept	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.	
MW-4	7.71	2"	OK	∅	Y (N)	7	1521	73.1	7.31	771µs	6.3	<input type="checkbox"/> EPA 601 _____ <input checked="" type="checkbox"/> TPH-G/BTEX _____ <input checked="" type="checkbox"/> TPH Diesel _____ <input type="checkbox"/> TOG 5520 _____
Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.						4		72.6	7.20	803µs		
$20.00 - 7.71 = 12.29 \times .16 = 1.97 \times 3 = 5.91$						6	1530	72.4	7.14	810µs	6.4	TIME/SAMPLE ID
Purge Method: <input checked="" type="checkbox"/> Surface Pump ODisp. Tube OWinch ODisp. Bailer(s) _____ OSys Port _____												1535
Comments: _____												

ALISTO

Field Report / Sampling Data Sheet

ENGINEERING

GROUP

1575 TREAT BOULEVARD, SUITE 201

WALNUT CREEK CA 94598 (510) 295-1650 FAX 295-1823

Project No. 10-210

Address 1701 Park Street

Contract No. Pending

Station No. XTRA

Date: 9/11/97

Day: M T W T F

City: Alameda

Sampler: LB

Well ID	Depth to Water	Diam	Cap/Lock	Product Dept	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.	
MW-1	7.50	2"	OIC	Ø	Y (N)	2	1547	73.8	7.39	819µs	7.0	<input type="checkbox"/> EPA 601 _____
Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.						4		72.5	7.10	857µs		<input checked="" type="checkbox"/> TPH-G/BTEX _____
20.00 - 7.50 = 12.50 x .16 = 2.00 x 3 = 6.00						6	1556	71.9	7.03	864µs	7.2	<input checked="" type="checkbox"/> TPH Diesel _____
Purge Method: <input type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Baller(s) <input type="checkbox"/> Sys Port												<input type="checkbox"/> TOG 5520 _____
Comments:												TIME/SAMPLE ID
												1603
Well ID	Depth to Water	Diam	Cap/Lock	Product Dept	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.	
MW-2	7.70	2"	OIC	7.67	(V) N	2	1614	72.1	7.47	979µs	6.3	<input type="checkbox"/> EPA 601 _____
Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.						4		71.3	7.29	1010µs		<input checked="" type="checkbox"/> TPH-G/BTEX _____
20.00 - 7.70 = 12.30 x .16 = 1.97 x 3 = 5.91						6	1627	70.2	7.17	1024µs	6.5	<input checked="" type="checkbox"/> TPH Diesel _____
Purge Method: <input checked="" type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input checked="" type="checkbox"/> Disp. Baller(s) <input type="checkbox"/> Sys Port												<input type="checkbox"/> TOG 5520 _____
Comments: removed < .005 gal FP												TIME/SAMPLE ID
												1630

APPENDIX B

LABORATORY REPORT AND CHAIN OF CUSTODY RECORD



McCAMPBELL ANALYTICAL INC.

110 Second Avenue South, #D7, Pacheco, CA 94553
Telephone : 510-798-1620 Fax : 510-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

Alisto Engineering Group 1575 Treat Blvd, Ste 201 Walnut Creek, CA 94598	Client Project ID: #10-210-8-1; Xtra Oil	Date Sampled: 09/11/97
		Date Received: 09/12/97
	Client Contact: Keith Simas	Date Extracted: 09/12/97
	Client P.O:	Date Analyzed: 09/12/97

09/19/97

Dear Keith:

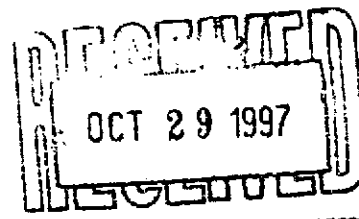
Enclosed are:

- 1). the results of 5 samples from your #10-210-8-1; Xtra Oil project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director



QC REPORT FOR HYDROCARBON ANALYSES

Date: 09/12/97

Matrix: Water

Analyte	Concentration (mg/L)			Amount Spiked	% Recovery		RPD
	Sample # (79625)	MS	MSD		MS	MSD	
TPH (gas)	0.0	111.9	111.5	100.0	111.9	111.5	0.4
Benzene	0.0	11.2	11.0	10.0	112.0	110.0	1.8
Toluene	0.0	11.4	11.2	10.0	114.0	112.0	1.8
Ethyl Benzene	0.0	11.1	11.0	10.0	111.0	110.0	0.9
Xylenes	0.0	33.0	32.8	30.0	110.0	109.3	0.6
TPH (diesel)	0	142	143	150	94	95	0.8
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

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

