



BP OIL

BP Oil Company
16400 Southcenter Parkway, Suite 301
Tukwila, Washington 98188
(206) 575-4077

✓
September 15, 1993

Mr. Ron Owcarz
Alameda County Health Care Services Agency
80 Swan Way
Oakland, Ca 94621

RE: BP OIL Facility #11132
3201 35th Avenue
Oakland, California

Dear Mr. Owcarz:

Attached please find our GROUNDWATER MONITORING AND SAMPLING REPORT DATED SEPTEMBER 9, 1993 for the above referenced facility.

Please call me at (206) 394-5243 with questions regarding this submission.

Respectfully,

Scott T. Hooton
Environmental Resources Management

STH:jc ERM11132

cc: Mr. Eddie So, California Regional Water Quality Control Board, San Francisco Bay Region, 2101 Webster Street, Suite 500, Oakland, CA 94612

Mr. Markus B. Niebanck, Hydro Environmental Technologies, Inc., 2363 Mariner Square Drive, Suite 243, Alameda, CA 94501

Mr. Robert Merriken, Mobil Oil Corp, 3225 Gallows Road, Fairfax, VA 22037

Mr. Al Sveilla, Alisto Engineering, 1777 Oakland Blvd., Suite 200, Walnut Creek, CA 94596

Site file
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Sheet 13

GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11132
3201 35th Street
Oakland, California

Project No. 10-024-02-001

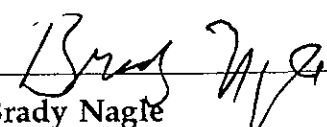
Prepared for:

BP Oil Company
Environmental Resource Management
16400 Southcenter Parkway, Suite 301
Tukwila, Washington


Prepared by:

Alisto Engineering Group
1777 Oakland Boulevard, Suite 200
Walnut Creek, California

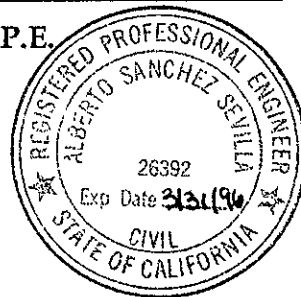
September 9, 1993



Brady Nagle
Project Manager



Al Sevilla, P.E.
Principal



GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11132
3201 35th Street
Oakland, California

Project No. 10-024-02-001

September 9, 1993

INTRODUCTION

This report presents the results and findings of the July 12, 1993 groundwater monitoring and sampling conducted by Alisto Engineering Group at BP Oil Company Service Station No. 11132, 3201 35th Street, Oakland, California. A site vicinity map is shown in Figure 1.

FIELD PROCEDURES

Field activities were performed in accordance with the procedures and guidelines of the 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 the 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 relative 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 the 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 quarters are summarized in Table 1. The potentiometric groundwater elevations as interpreted from the results of this monitoring event are shown in Figure 2. Concentrations of petroleum hydrocarbons detected in the groundwater samples are shown in Figure 3. The laboratory report and chain of custody record are presented in Appendix B.

Separate-phase product has been removed from MW-2, MW-10, and RW-1 using a passive product recovery system (PPRS) and manual bailing. During this quarter, less than one gallon of viscous, weathered product was removed from the wells. A remediation system is currently being installed at the site. The PPRS was removed from RW-1 in July 1993 to accommodate a product removal pump.



TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11132
 3201 35TH AVENUE, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	LAB
RW-1	07/09/90	168.01	---	1.21	---	---	---	---	---	---	---
RW-1	12/21/90	168.01	---	0.01	---	---	---	---	---	---	---
RW-1	03/07/91	168.01	17.62	SHEEN	150.39	---	---	---	---	---	---
RW-1	06/27/91	168.01	---	0.04	---	---	---	---	---	---	---
RW-1	09/27/91	168.01	---	0.02	---	---	---	---	---	---	---
RW-1	12/18/91	168.01	---	0.02	---	---	---	---	---	---	---
RW-1	04/01/91	168.01	14.40	0.11	153.69	---	---	---	---	---	---
RW-1	07/03/92	168.01	20.66	SHEEN	147.35	---	---	---	---	---	---
RW-1	10/05/92	168.01	23.34	0.08	144.73	---	---	---	---	---	---
RW-1	01/13/93	168.01	16.59	0.05	151.46	---	---	---	---	---	---
RW-1	04/23/93	168.01	16.17	0.18	151.98	---	---	---	---	---	---
RW-1	07/12/93	168.01	20.18	0.06	147.87	---	---	---	---	---	---
MW-1	07/09/90	169.75	---	0.22	---	---	---	---	---	---	---
MW-1	12/21/90	169.75	---	0.58	---	---	---	---	---	---	---
MW-1	03/07/91	169.75	20.59	---	---	---	---	---	---	---	---
MW-1	06/27/91	169.75	---	0.18	---	---	---	---	---	---	---
MW-1	09/27/91	169.75	---	0.27	---	---	---	---	---	---	---
MW-1	12/18/91	169.75	---	0.28	---	---	---	---	---	---	---
MW-1	04/01/91	169.75	16.51	0.15	153.35	---	---	---	---	---	---
MW-1	07/03/92	169.75	22.30	0.27	147.65	---	---	---	---	---	---
MW-1	10/05/92	169.75	23.98	0.24	145.95	---	---	---	---	---	---
MW-1	01/13/93	169.75	17.03	0.24	152.90	---	---	---	---	---	---
MW-1	04/23/93	169.75	18.10	0.42	151.97	---	---	---	---	---	---
MW-1	07/12/93	169.75	22.02	0.49	148.10	---	---	---	---	---	---
MW-2	07/09/90	168.14	---	0.10	---	---	---	---	---	---	---
MW-2	12/21/90	168.14	---	0.48	---	---	---	---	---	---	---
MW-2	03/07/91	168.14	19.18	---	---	---	---	---	---	---	---
MW-2	06/27/91	168.14	---	0.19	---	---	---	---	---	---	---
MW-2	09/27/91	168.14	---	0.15	---	---	---	---	---	---	---
MW-2	12/18/91	168.14	---	0.36	---	---	---	---	---	---	---
MW-2	04/01/91	168.14	15.21	0.10	153.00	---	---	---	---	---	---
MW-2	07/03/92	168.14	20.93	0.03	147.23	---	---	---	---	---	---
MW-2	10/05/92	168.14	22.74	0.21	145.56	---	---	---	---	---	---
MW-2	01/13/93	168.14	15.55	0.02	152.60	---	---	---	---	---	---
MW-2	04/23/93	168.14	16.54	0.21	151.76	---	---	---	---	---	---
MW-2	07/12/93	168.14	20.46	0.06	147.72	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11132
 3201 35TH AVENUE, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	LAB
MW-3	07/09/90	167.17	---	0.00	---	140	5.3	4.6	2.0	3.8	---
MW-3	12/21/90	167.17	---	0.00	---	0.19	100	6.0	0.9	27	---
MW-3	03/07/91	167.17	17.40	0.00	149.77	0.4	69	22	6.1	57	---
MW-3	06/27/91	167.17	---	0.00	---	380	28	26	13	46	---
MW-3	09/27/91	167.17	---	0.00	---	0.07	7.9	ND	0.4	1.1	---
MW-3	12/18/91	167.17	---	0.00	---	0.26	34	24	0.8	28	---
MW-3	04/01/91	167.17	13.69	0.00	153.48	ND	ND	ND	ND	ND	---
MW-3	07/03/92	167.17	19.59	0.00	147.58	71	9.4	0.9	5.0	13	ANA
MW-3	10/05/92	167.17	21.22	0.00	145.95	67	5.1	1.1	6.1	8.1	ANA
QC-1 (c)	10/05/92	167.17	21.22	0.00	145.95	ND<50	2.2	ND<0.5	1.5	2.8	ANA
MW-3	01/13/93	167.17	13.63	0.00	153.54	830	50	34	42	89	PACE
MW-3	04/23/93	167.17	15.02	0.00	152.15	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	PACE
QC-1 (c)	04/23/93	167.17	15.02	0.00	152.15	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	PACE
MW-3	07/12/93	167.17	19.16	0.00	148.01	250	12	4.2	12	16	PACE
MW-4	07/09/90	170.36	---	0.00	---	ND	ND	ND	ND	ND	---
MW-4	12/21/90	170.36	---	0.00	---	ND	ND	ND	ND	0.8	---
MW-4	03/07/91	170.36	20.72	0.00	149.64	ND	2.2	3.8	1.5	2.8	---
MW-4	06/27/91	170.36	---	0.00	---	ND	6.3	1.8	0.4	1.0	---
MW-4	09/27/91	170.36	---	0.00	---	ND	ND	ND	ND	ND	---
MW-4	12/18/91	170.36	---	0.00	---	ND	ND	ND	ND	ND	---
MW-4	04/01/91	170.36	17.49	0.00	152.87	ND	ND	ND	ND	ND	---
MW-4	07/03/92	170.36	22.16	0.00	148.20	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ANA
MW-4	10/05/92	170.36	23.38	0.00	146.98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ANA
MW-4	01/13/93	170.36	17.58	0.00	152.78	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	PACE
MW-4	04/23/93	170.36	15.72	0.00	154.64	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	PACE
MW-4	07/12/93	170.36	21.74	0.00	148.62	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	PACE
MW-5	07/09/90	165.14	---	0.00	---	280	200	210	46	290	---
MW-5	12/21/90	165.14	---	0.00	---	0.69	300	34	8.4	39	---
MW-5	03/07/91	165.14	16.60	0.00	148.54	ND	17	0.9	0.7	1.6	---
MW-5	06/27/91	165.14	---	0.00	---	330	120	10	12	8	---
MW-5	09/27/91	165.14	---	0.00	---	0.73	230	16	20	22	---
MW-5	12/18/91	165.14	---	0.00	---	ND	ND	ND	ND	ND	---
MW-5	04/01/91	165.14	11.99	0.00	153.15	800	250	54	11	60	---
MW-5	07/03/92	165.14	18.65	0.00	146.49	150	36	ND<0.5	ND<0.5	1.1	ANA
MW-5	10/05/92	165.14	20.32	0.00	144.82	270	79	4	1.7	2.9	ANA
MW-5	01/13/93	165.14	13.03	0.00	152.11	180	59	6.0	1.8	7.6	PACE
MW-5	04/23/93	165.14	13.51	0.00	151.63	8700	440	96	35	136	PACE
MW-5	07/12/93	165.14	18.06	0.00	147.08	250	57	2.9	2.1	6.0	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11132
 3201 35TH AVENUE, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	LAB
MW-6	07/09/90	165.40	—	0.00	—	ND	ND	ND	ND	ND	—
MW-6	12/21/90	165.40	—	0.00	—	0.17	2.6	7.0	4.9	26	—
MW-6 (d)	03/07/91	165.40	—	0.00	—	—	—	—	—	—	—
MW-6 (d)	06/27/91	165.40	—	0.00	—	—	—	—	—	—	—
MW-6 (d)	09/27/91	165.40	—	0.00	—	—	—	—	—	—	—
MW-6	12/18/91	165.40	—	0.00	—	ND	1.3	22	ND	2.7	—
MW-6	04/01/91	165.40	11.79	0.00	153.61	ND	ND	ND	ND	ND	—
MW-6	07/03/92	165.40	17.77	0.00	147.63	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ANA
MW-6	10/05/92	165.40	19.46	0.00	145.94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ANA
MW-6	01/13/93	165.40	11.34	0.00	154.06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	PACE
MW-6	04/23/93	165.40	12.92	0.00	152.48	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	PACE
MW-6	07/12/93	165.40	17.36	0.00	148.04	ND<50	ND<0.5	ND<0.5	ND<0.5	0.7	PACE
MW-7	07/09/90	167.61	—	0.00	—	ND	ND	ND	ND	ND	—
MW-7	12/21/90	167.61	—	0.00	—	ND	ND	ND	ND	ND	—
MW-7	03/07/91	167.61	19.04	0.00	148.57	ND	ND	0.4	0.3	2.4	—
MW-7	06/27/91	167.61	—	0.00	—	70	17	4	0.8	2.2	—
MW-7	09/27/91	167.61	—	0.00	—	ND	0.4	ND	ND	0.4	—
MW-7	12/18/91	167.61	—	0.00	—	ND	0.7	2.9	0.8	3.3	—
MW-7	04/01/91	167.61	15.18	0.00	152.43	ND	ND	ND	ND	ND	—
MW-7	07/03/92	167.61	20.28	0.00	147.33	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ANA
MW-7	10/05/92	167.61	21.56	0.00	146.05	ND<50	ND<0.5	ND<0.5	ND<0.5	1.5	ANA
MW-7	01/13/93	167.61	15.41	0.00	152.20	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	PACE
MW-7	04/23/93	167.61	15.84	0.00	151.77	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	PACE
MW-7	07/12/93	167.61	19.84	0.00	147.77	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	PACE
MW-8	03/07/91	165.74	16.72	0.00	149.02	2.7	780	450	64	310	—
MW-8	06/27/91	165.74	—	0.00	—	12000	3400	1100	240	750	—
MW-8	09/27/91	165.74	—	0.00	—	41	5700	5200	1100	4300	—
MW-8	12/18/91	165.74	—	0.00	—	3.2	990	150	120	250	—
MW-8	04/01/91	165.74	12.54	0.00	153.20	15000	3600	2600	410	1900	—
MW-8	07/03/92	165.74	18.78	0.00	146.96	72000	19000	32000	3000	15000	ANA
MW-8	10/05/92	165.74	20.48	0.01	145.27	—	—	—	—	—	—
MW-8	01/13/93	165.74	12.87	0.01	152.88	—	—	—	—	—	—
MW-8	04/23/93	165.74	13.90	SHEEN	151.84	—	—	—	—	—	—
MW-8	07/12/93	165.74	18.30	SHEEN	147.44	—	—	—	—	—	—

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11132
 3201 35TH AVENUE, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

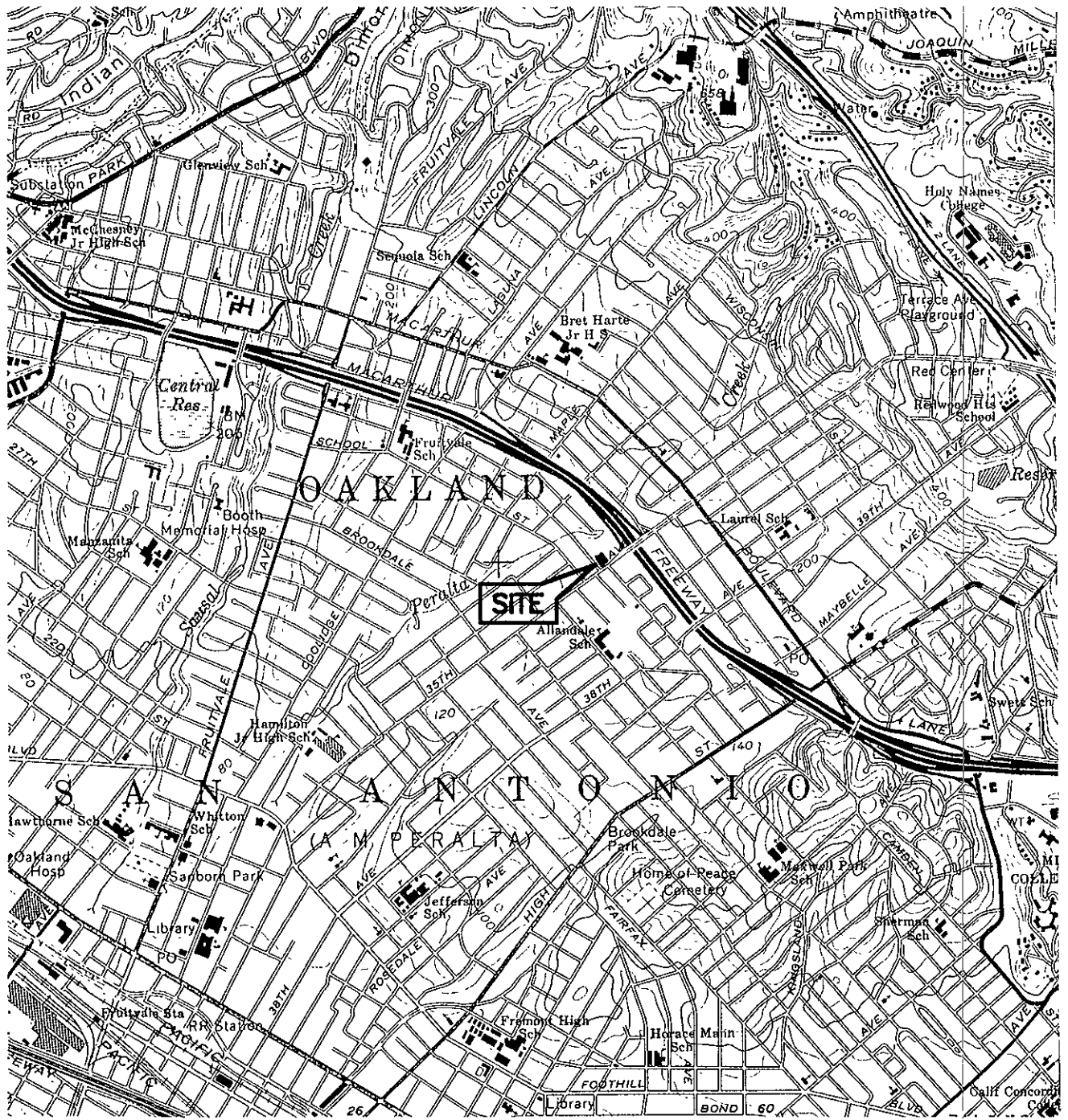
WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	LAB
MW-9	03/07/91	166.20	16.79	0.00	149.41	7.1	220	4	24	2400	---
MW-9	06/27/91	166.20	---	0.00	---	3600	520	400	85	310	---
MW-9	09/27/91	166.20	---	0.00	---	3.2	720	150	50	180	---
MW-9	12/18/91	166.20	---	0.00	---	ND	2.5	1.1	0.3	5.8	---
MW-9	04/01/91	166.20	12.89	0.00	153.31	12000	2000	2600	360	1600	---
MW-9	07/03/92	166.20	18.89	0.00	147.31	5700	17000	840	230	800	ANA
MW-9	10/05/92	166.20	20.52	0.00	145.68	1400	440	17	14	100	ANA
MW-9	01/13/93	166.20	12.92	0.00	153.28	11000	1200	1700	340	1400	PACE
QC-1 (c)	01/13/93	166.20	12.92	0.00	153.28	11000	1200	1600	330	1300	PACE
MW-9	04/23/93	166.20	14.08	0.00	152.12	24000	2800	4500	730	3400	PACE
MW-9	07/12/93	166.20	18.44	0.00	147.76	13000	1400	1100	360	1400	PACE
QC-1 (c)	07/12/93	166.20	18.44	0.00	147.76	10000	1200	900	310	1200	PACE
MW-10	03/07/91	167.01	18.09	0.00	148.92	1.6	120	190	32	230	---
MW-10	06/27/91	167.01	---	0.00	---	12000	7300	500	150	300	---
MW-10	09/27/91	167.01	---	0.00	---	57	12000	7200	1400	4600	---
MW-10	12/18/91	167.01	---	0.00	---	53	2500	120	36	79	---
MW-10	04/01/91	167.01	13.92	0.00	153.09	ND	ND	ND	ND	ND	---
MW-10	07/03/92	167.01	19.92	0.00	147.09	8600	5100	1300	180	690	ANA
MW-10	10/05/92	167.01	21.92	0.19	145.23	---	---	---	---	---	---
MW-10	01/13/93	167.01	14.43	0.03	152.60	---	---	---	---	---	---
MW-10	04/23/93	167.01	15.26	0.06	151.80	---	---	---	---	---	---
MW-10	07/12/93	167.01	19.78	0.45	147.57	---	---	---	---	---	---
QC-2 (e)	10/05/92	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ANA
QC-2 (e)	01/13/93	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	PACE
QC-2 (e)	04/23/93	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	PACE
QC-2 (e)	07/12/93	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	PACE

ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline
 B Benzene
 T Toluene
 E Ethylbenzene
 X Total xylenes
 ppb Parts per billion
 --- Not analyzed/available
 ND Not detected above reported detection limits
 ANA Anamatrix, Inc.
 PACE Pace Inc.

NOTES:

- (a) Casing elevations surveyed to the nearest 0.01 foot relative to mean sea level.
- (b) Groundwater elevations adjusted assuming a specific gravity of 0.75 for free product.
- (c) Blind duplicate.
- (d) Well not sampled due to an abandoned vehicle parked over well.
- (e) Travel blank.



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

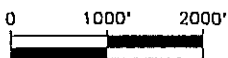


FIGURE 1

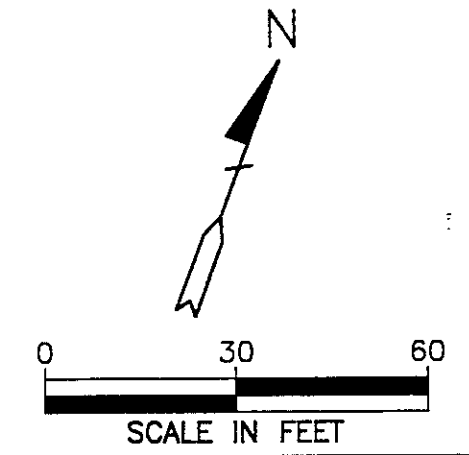
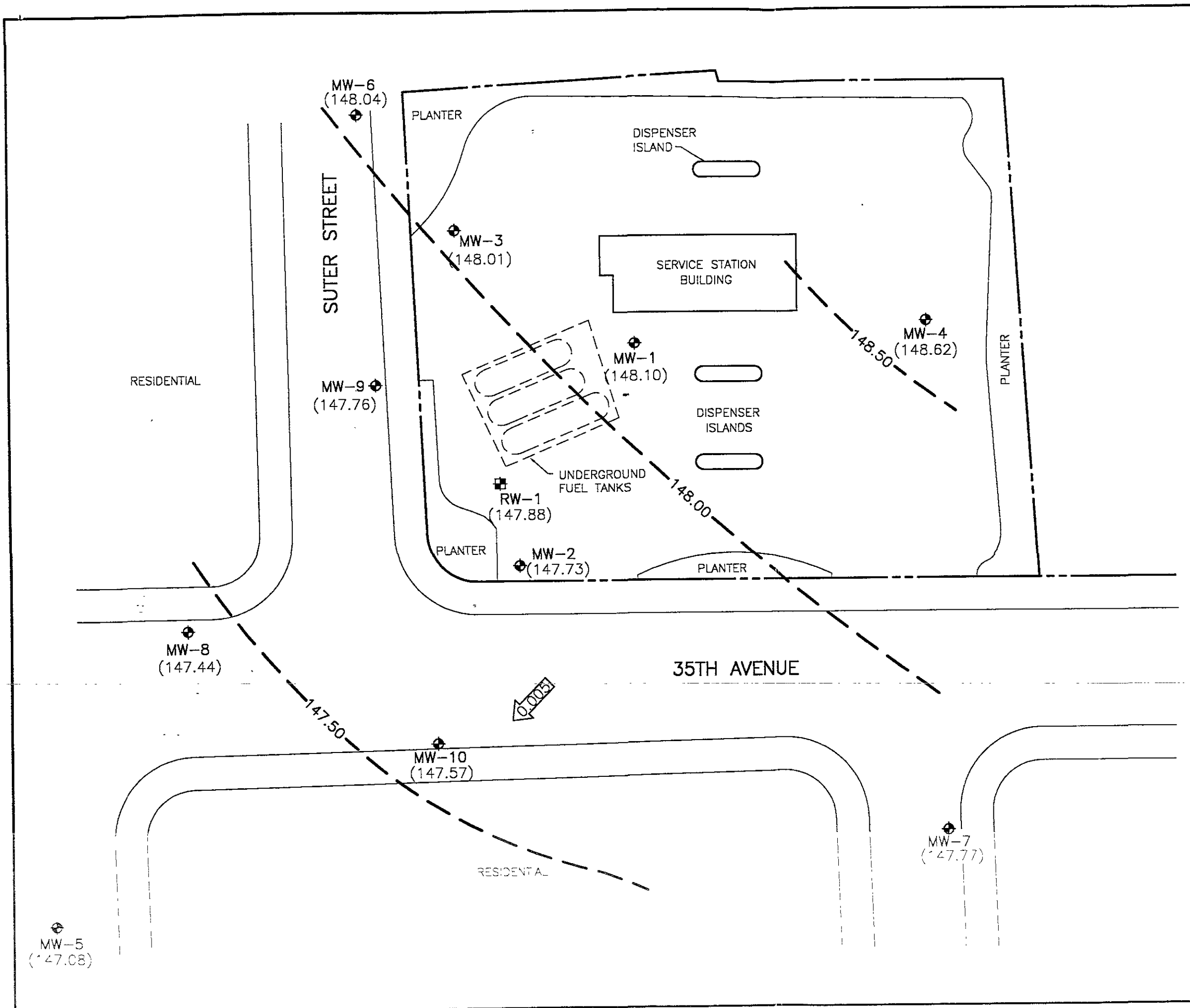
SITE VICINITY MAP

BP OIL SERVICE STATION NO. 11132
3201 35TH AVENUE
OAKLAND, CALIFORNIA

PROJECT NO. 10-024

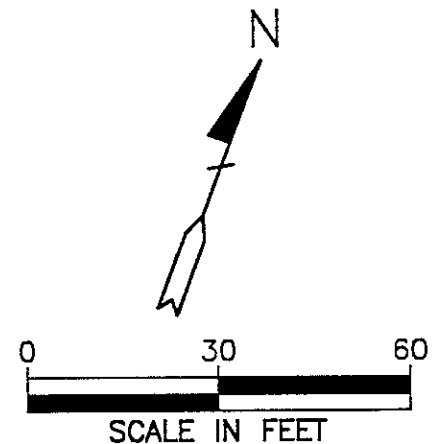
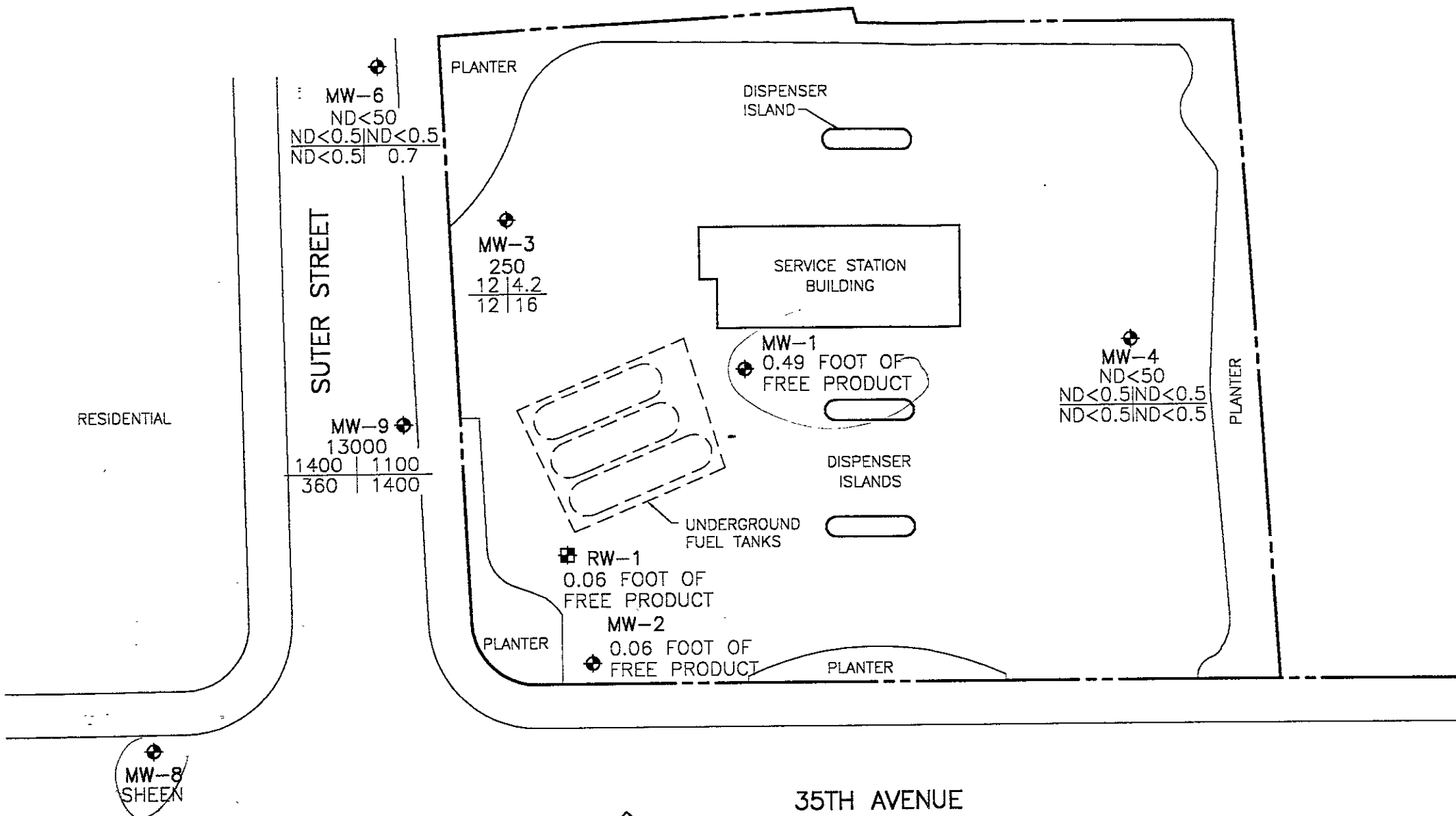


ALISTO ENGINEERING GROUP
 WALNUT CREEK, CALIFORNIA



- LEGEND**
- ◆ GROUNDWATER MONITORING WELL
 - ⊕ GROUNDWATER RECOVERY WELL
 - (148.62) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
 - 148.50 - GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL-0.50 FOOT)
 - ← 0.005 → CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 2
POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP
 JULY 12, 1993
 BP OIL SERVICE STATION NO. 11132
 3201 35TH STREET
 OAKLAND, CALIFORNIA
 PROJECT NO. 10-024



LEGEND

- ⊕ GROUNDWATER MONITORING WELL
- ⊞ GROUNDWATER RECOVERY WELL
- TPH-G
B | T
E | X
CONCENTRATION OF CONSTITUENTS IN PARTS PER BILLION
- TPH-G
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- B BENZENE
- T TOLUENE
- E ETHYLBENZENE
- X TOTAL XYLENES
- ND NOT DETECTED ABOVE REPORTED DETECTION LIMIT
- ←0.005 CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

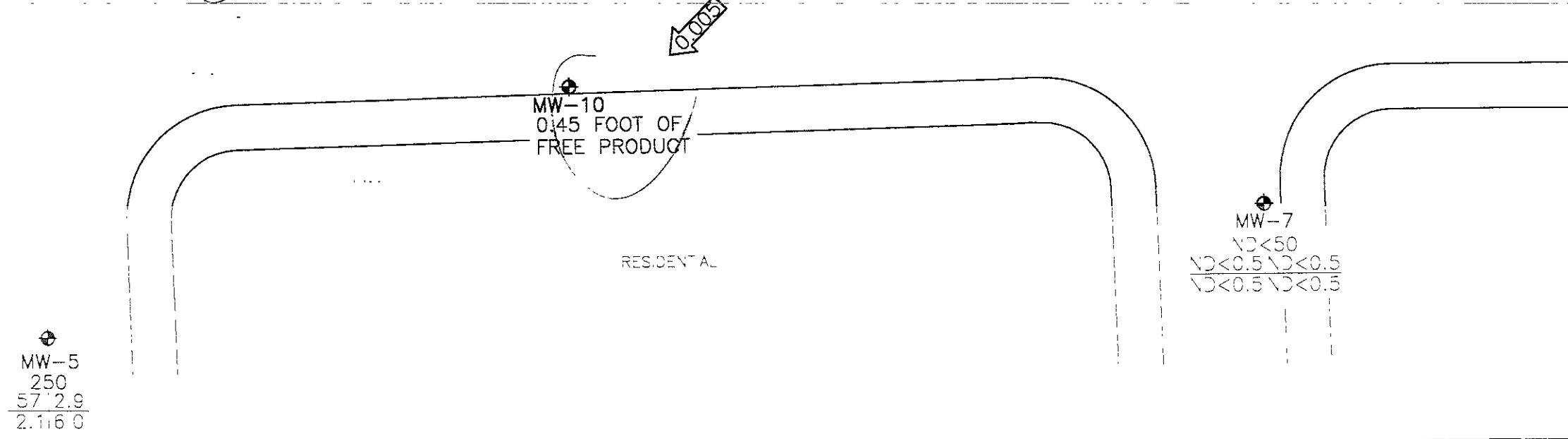


FIGURE 3
CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER
 JULY 12, 1993
 BP OIL SERVICE STATION NO. 11132
 3201 35TH STREET
 OAKLAND, CALIFORNIA
 PROJECT NO. 10-024

APPENDIX A
WATER SAMPLING FIELD SURVEY FORMS

Birch
Technical
Services

Field Report / Data Sheet

10-024-02-001
 Groundwater Sampling Groundwater Monitoring Well Development Drill Support Stockpile Sampling

Firm: ALUSTO Date: 7/12/93 Station #: BP1132 Day: (M) Tu W Th F
 Field Technician: DAN BIRCH Address: 222 Weather: Clear
3201 35TH ST.
OAKLAND Milage: _____ mi

116 Liberty st
 Santa Cruz, Ca 95060
 (408) 459-0718
 Project Number: 10-024-02-001

DT/Order	Well ID	Lock	Exp Cap	Total Depth (feet)	1st Depth to Water (feet)	2nd Depth to Water (feet)	Depth to Product (feet)	Product Thickness	Comments	WELL Diam.
9	MW-1	ok	ok	44.08	22.02	22.02	21.53	0.49		2"
10	MW-2	ok	ok	34.31	20.46	20.46	20.40	0.06		2"
2	MW-3	ok	ok	34.58	19.16	19.16				2"
3	MW-4	ok	ok	38.74	21.74	21.74				2"
6	MW-5	ok	ok	30.88	18.06	18.06				2"
1	MW-6	ok	ok	34.56	17.36	17.36				2"
4	MW-7	ok	ok	34.47	19.84	19.84				2"
7	MW-8	ok	ok	38.72	18.30	18.50		sheen		2"
8	MW-9	ok	ok	29.49	18.44	18.44				2"
8	MW-10	ok	ok	34.00	19.78	19.78	19.33	0.45		2"
11	RW-1	ok	ok	38.41	20.18	20.18	20.12	0.06		6"

Notes: 1 Drum left at site

Inv#:

Birch Technical Services

GROUNDWATER SAMPLING FORM

116 Liberty Street
 Santa Cruz, Ca 95060
 (408) 459-0718

Well Number: MW-1

Project Number: 10-025-02-001

Sample Type: Groundwater Trip Blank Duplicate of _____

Station Number: BD11132

Sampled by: DAN BIRCH

Date: 7 / 12 / 93

WELL PURGING

PURGE VOLUME

Casing Diameter (inches) 2" O3" O4" O4.5" O6" O____
 Volume Factors: 0.1632 0.3672 0.6528 0.826 1.469 _____

Total Depth of Well 44.08

Initial Water Level: 22.02

PURGE METHOD:

- Honda Pump
- Disposable Poly Tubing (____ ft)
- Speed Winch
- Disposable PVC Bailer(s) (____)
- Other _____

Total Volume Purged: _____

Time Elapsed: _____

Calculated Purge Volume:

_____ - _____ = _____ x _____ = _____ x _____ = _____ (gallons)
 Total Depth Water Level Well Vol. Fac. #of vol. to Purge Calculated Purge Volume

Subjective Analysis Prior to Purging

SHEEN Depth to Product Product Thickness
 Yes No 21.53 (ft) 0.49 (ft)

PARAMETER EQUIPMENT CALIBRATION

pH Meter #: _____ Time: _____
 Solution pH 7.00 _____ at _____ °F
 Solution pH 4.00 _____ at _____ °F
 Solution pH 10.00 _____ at _____ °F
 Water Level Meter#: _____

COMMENTS:

0.49' Product prevents sampling.

SAMPLING METHOD

OPVC Disposable Bailer Time Sampled
 OTeflon Bailer (24 hour clock)
 OOther: _____ NOT

WELL SAMPLING PARAMETERS

Gallons Removed	Time	Temp °F	pH	Cond. (umhos/cm)

Analysis Required	No. of	Container Type	Preservatives
EPA 601		VOA's	
TPH-G/BTEX		VOA's	HCl
TPH- Diesel		Amber Liter	
TOG 5520 BF		Amber Liter	H ₂ SO ₄

Birch Technical Services

GROUNDWATER SAMPLING FORM

116 Liberty Street
 Santa Cruz, Ca 95060
 (408) 459-0718

Well Number: MW-5

Project Number: 10-025

Sample Type: Groundwater Trip Blank Duplicate of _____

Station Number: BP11132

Sampled by: DAN BIRCH

Date: 7/12/93

WELL PURGING

PURGE VOLUME Casing Diameter (inches) 2" 3" 4" 4.5" 6" 0
 Volume Factors: 0.1632 0.3672 0.6528 0.826 1.469 _____

Total Depth of Well 30.88

Initial Water Level: 14.06

PURGE METHOD:

Total Volume Purged: 7

Time Elapsed: 9

- Honda Pump
- Disposable Poly Tubing (32 ft)
- Speed Winch
- Disposable PVC Bailer(s) (____)
- Other _____

Calculated Purge Volume:

$$\begin{matrix} 30.88 & - & 14.06 & = & 16.82 & \times & 0.16 & = & 2.69 & \times & 3 & = & 8.07 & \text{ (gallons)} \end{matrix}$$

Total Depth Water Level Well Vol. Fac. #of vol. to Purge Calculated Purge Volume

Subjective Analysis Prior to Purging

SHEEN Depth to Product None (ft) Product Thickness None (ft)
 OYes ONo

PARAMETER EQUIPMENT CALIBRATION

pH Meter #: 9112 Time: 1200
 Solution pH 7.00 7 at 74 °F
 Solution pH 4.00 4 at 74 °F
 Solution pH 10.00 10 at 74 °F
 Water Level Meter#: 10337

COMMENTS:

SAMPLING METHOD

PVC Disposable Bailer Time Sampled (24 hour clock) 1414
 Teflon Bailer
 Other: _____

WELL SAMPLING PARAMETERS

Gallons Removed	Time	Temp °F	pH	Cond. (umhos/cm)
2	1407	72.9	6.79	0.67
4	1409	69.8	6.81	0.65
7	1414	69.9	6.80	0.65

Analysis Required	No. of	Container Type	Preservatives
EPA 601		VOA's	
<input checked="" type="checkbox"/> TPH-G/BTEX	3	VOA's	HCl
TPH- Diesel		Amber Liter	
TOG 5520 BF		Amber Liter	H ₂ SO ₄

Birch Technical Services

116 Liberty Street
 Santa Cruz, Ca 95060
 (408) 459-0718

GROUNDWATER SAMPLING FORM

Well Number: MW-7

Project Number: 10-025
 Station Number: 13P11172
 Date: 7/12/93

Sample Type: Groundwater Trip Blank Duplicate of _____
 Sampled by: DAN BIRCH

WELL PURGING

PURGE VOLUME Casing Diameter (inches) 2" O3" O4" O4.5" O6" O_____
 Volume Factors: 0.1632 0.3672 0.6528 0.826 1.469 _____

Total Depth of Well 34.49 Initial Water Level: 19.84

Total Volume Purged: 7 Time Elapsed: 7

PURGE METHOD:

- Honda Pump
 Disposable Poly Tubing (37 ft)
 Speed Winch
 Disposable PVC Bailer(s) (____)
 Other _____

Calculated Purge Volume:

34.49 - 19.84 = 14.65 x 0.16 = 2.3 x 3 = 7.0 (gallons)
 Total Depth Water Level Well Vol. Fac. #of vol. to Purge Calculated Purge Volume

Subjective Analysis Prior to Purging

SHEEN No Yes
 Depth to Product None (ft) Product Thickness None (ft)

PARAMETER EQUIPMENT CALIBRATION

pH Meter #: 9112 Time: 1200
 Solution pH 7.00 7 at 74 °F
 Solution pH 4.00 4 at 74 °F
 Solution pH 10.00 10 at 74 °F
 Water Level Meter#: 16337

COMMENTS:

SAMPLING METHOD

PVC Disposable Bailer Time Sampled (24 hour clock) 1336
 Teflon Bailer
 Other: _____

WELL SAMPLING PARAMETERS

Gallons Removed	Time	Temp °F	pH	Cond. (umhos/cm)
2	1331	71.7	7.04	0.65
4	1333	70.1	7.05	0.65
7	1336	70.1	7.06	0.66

Analysis Required	No. of	Container Type	Preservatives
EPA 601		VOA's	
<input checked="" type="checkbox"/> TPH-G/BTEX	<u>3</u>	VOA's	HCl
TPH- Diesel		Amber Liter	
TOG 5520 BF		Amber Liter	H ₂ SO ₄

APPENDIX B
LABORATORY REPORT AND CHAIN OF CUSTODY RECORD



REPORT OF LABORATORY ANALYSIS

Alisto Engineering Group
1777 Oakland Blvd., Ste. 200
Walnut Creek, CA 94596

July 26, 1993
PACE Project Number: 430713511

Attn: Mr. Bill Howell

Client Reference: BP Station # 11132

PACE Sample Number: 70 0112230
Date Collected: 07/12/93
Date Received: 07/13/93
Client Sample ID: MW-3

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS			
TOTAL FUEL HYDROCARBONS, (LIGHT):		-	07/22/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	250
PURGEABLE AROMATICS (BTXE BY EPA 8020M):		-	07/22/93
Benzene	ug/L	0.5	12
Toluene	ug/L	0.5	4.2
Ethylbenzene	ug/L	0.5	12
Xylenes, Total	ug/L	0.5	16

Mr. Bill Howell

Page 2

July 26, 1993

PACE Project Number: 430713511

Client Reference: BP Station # 11132

PACE Sample Number:

70 0112249

Date Collected:

07/12/93

Date Received:

07/13/93

Client Sample ID:

MW-4

Parameter

Units

MDL

DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):

Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	-	07/20/93
--	------	----	---	----------

PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	07/20/93
--	--	--	---	----------

Benzene	ug/L	0.5	ND	07/20/93
---------	------	-----	----	----------

Toluene	ug/L	0.5	ND	07/20/93
---------	------	-----	----	----------

Ethylbenzene	ug/L	0.5	ND	07/20/93
--------------	------	-----	----	----------

Xylenes, Total	ug/L	0.5	ND	07/20/93
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Mr. Bill Howell
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July 26, 1993
 PACE Project Number: 430713511

Client Reference: BP Station # 11132

PACE Sample Number: 70 0112257
 Date Collected: 07/12/93
 Date Received: 07/13/93
 Client Sample ID: MW-5

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS			
TOTAL FUEL HYDROCARBONS, (LIGHT):			07/21/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	250
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			07/21/93
Benzene	ug/L	0.5	57
Toluene	ug/L	0.5	2.9
Ethylbenzene	ug/L	0.5	2.1
Xylenes, Total	ug/L	0.5	6.0

Mr. Bill Howell
 Page 4

July 26, 1993
 PACE Project Number: 430713511

Client Reference: BP Station # 11132

PACE Sample Number: 70 0112265
 Date Collected: 07/12/93
 Date Received: 07/13/93
 Client Sample ID: MW-6

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	07/21/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	07/21/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	07/21/93
Benzene	ug/L	0.5	ND	07/21/93
Toluene	ug/L	0.5	ND	07/21/93
Ethylbenzene	ug/L	0.5	ND	07/21/93
Xylenes, Total	ug/L	0.5	0.7	07/21/93

REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
 Page 5

July 26, 1993
 PACE Project Number: 430713511

Client Reference: BP Station # 11132

PACE Sample Number: 70 0112273
 Date Collected: 07/12/93
 Date Received: 07/13/93
 Client Sample ID: MW-7

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS			
TOTAL FUEL HYDROCARBONS, (LIGHT):		-	07/20/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND 07/20/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			
Benzene	ug/L	0.5	ND 07/20/93
Toluene	ug/L	0.5	ND 07/20/93
Ethylbenzene	ug/L	0.5	ND 07/20/93
Xylenes, Total	ug/L	0.5	ND 07/20/93

REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
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July 26, 1993
 PACE Project Number: 430713511

Client Reference: BP Station # 11132

PACE Sample Number: 70 0112281
 Date Collected: 07/12/93
 Date Received: 07/13/93
 Client Sample ID: MW-9

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS			
TOTAL FUEL HYDROCARBONS, (LIGHT):			07/22/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	250	13000
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			07/22/93
Benzene	ug/L	2.5	1400
Toluene	ug/L	2.5	1100
Ethylbenzene	ug/L	2.5	360
Xylenes, Total	ug/L	2.5	1400

REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
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July 26, 1993
 PACE Project Number: 430713511

Client Reference: BP Station # 11132

PACE Sample Number: 70 0112290
 Date Collected: 07/12/93
 Date Received: 07/13/93
 Client Sample ID: QC-1

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS			
TOTAL FUEL HYDROCARBONS, (LIGHT):		-	07/22/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	250	10000
PURGEABLE AROMATICS (BTXE BY EPA 8020M):		-	07/22/93
Benzene	ug/L	2.5	1200
Toluene	ug/L	2.5	900
Ethylbenzene	ug/L	2.5	310
Xylenes, Total	ug/L	2.5	1200

Mr. Bill Howell
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July 26, 1993
PACE Project Number: 430713511

Client Reference: BP Station # 11132


PACE Sample Number: 70 0112303
Date Collected: 07/12/93
Date Received: 07/13/93
Client Sample ID: QC-2

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):				
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	-	07/20/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):				
Benzene	ug/L	0.5	ND	07/20/93
Toluene	ug/L	0.5	ND	07/20/93
Ethylbenzene	ug/L	0.5	ND	07/20/93
Xylenes, Total	ug/L	0.5	ND	07/20/93

These data have been reviewed and are approved for release.


Darrell C. Cain
Regional Director



REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
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FOOTNOTES
for pages 1 through 8

July 26, 1993
PACE Project Number: 430713511

Client Reference: BP Station # 11132

MDL Method Detection Limit
ND Not detected at or above the MDL.

Mr. Bill Howell
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QUALITY CONTROL DATA

July 26, 1993
 PACE Project Number: 430713511

Client Reference: BP Station # 11132

PURGEABLE FUELS AND AROMATICS
 Batch: 70 22993
 Samples: 70 0112273, 70 0112303

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	1000	80%	86%	7%
Benzene	ug/L	0.5	100	91%	96%	5%
Toluene	ug/L	0.5	100	93%	99%	6%
Ethylbenzene	ug/L	0.5	100	92%	97%	5%
Xylenes, Total	ug/L	0.5	300	96%	101%	5%

Mr. Bill Howell
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QUALITY CONTROL DATA

July 26, 1993
 PACE Project Number: 430713511

Client Reference: BP Station # 11132

PURGEABLE FUELS AND AROMATICS

Batch: 70 23023
 Samples: 70 0112265

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	1000	110%	105%	4%
Benzene	ug/L	0.5	40.0	111%	111%	0%
Toluene	ug/L	0.5	40.0	106%	107%	0%
Ethylbenzene	ug/L	0.5	40.0	105%	101%	3%
Xylenes, Total	ug/L	0.5	120	108%	105%	2%

REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
 Page 12

QUALITY CONTROL DATA

July 26, 1993
 PACE Project Number: 430713511

Client Reference: BP Station # 11132

PURGEABLE FUELS AND AROMATICS

Batch: 70 23026
 Samples: 70 0112281, 70 0112290

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	1000	101%	101%	0%
Benzene	ug/L	0.5	100	105%	107%	1%
Toluene	ug/L	0.5	100	104%	106%	1%
Ethylbenzene	ug/L	0.5	100	108%	110%	1%
Xylenes, Total	ug/L	0.5	300	105%	107%	1%

Mr. Bill Howell
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QUALITY CONTROL DATA

July 26, 1993
 PACE Project Number: 430713511

Client Reference: BP Station # 11132

PURGEABLE FUELS AND AROMATICS

Batch: 70 23065
 Samples: 70 0112249

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	1000	102%	98%	4%
Benzene	ug/L	0.5	40.0	97%	88%	9%
Toluene	ug/L	0.5	40.0	99%	90%	9%
Ethylbenzene	ug/L	0.5	40.0	104%	96%	8%
Xylenes, Total	ug/L	0.5	120	99%	93%	6%

Mr. Bill Howell
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QUALITY CONTROL DATA

July 26, 1993
 PACE Project Number: 430713511

Client Reference: BP Station # 11132

PURGEABLE FUELS AND AROMATICS

Batch: 70 23066
 Samples: 70 0112257

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dup1 Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	1000	109%	102%	6%
Benzene	ug/L	0.5	40.0	98%	97%	1%
Toluene	ug/L	0.5	40.0	101%	99%	2%
Ethylbenzene	ug/L	0.5	40.0	105%	108%	2%
Xylenes, Total	ug/L	0.5	120	101%	104%	2%

Mr. Bill Howell
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QUALITY CONTROL DATA

July 26, 1993
 PACE Project Number: 430713511

Client Reference: BP Station # 11132

PURGEABLE FUELS AND AROMATICS

Batch: 70 23067
 Samples: 70 0112230

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	1000	100%	103%	2%
Benzene	ug/L	0.5	40.0	97%	92%	5%
Toluene	ug/L	0.5	40.0	99%	95%	4%
Ethylbenzene	ug/L	0.5	40.0	103%	101%	1%
Xylenes, Total	ug/L	0.5	120	99%	97%	2%

Mr. Bill Howell
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FOOTNOTES
for pages 10 through 15

July 26, 1993
PACE Project Number: 430713511

Client Reference: BP Station # 11132

MDL Method Detection Limit
ND Not detected at or above the MDL.
RPD Relative Percent Difference



B.P. OIL COMPANY
 16400 Southcenter Parkway, Suite 301, Tukwila, WA 98188
CHAIN OF CUSTODY

430713.5#511 No 0105

Novato, CA, 11 Digital Drive, 94949
 Phone: (415) 883-6100 Fax: (415) 883-2673

Huntington Beach, CA, 5702 Bolsa Avenue, 92649
 Phone: (714) 892-2565 Fax: (714) 890-4032

Consultant's Name: **ALISTO ENGINEERING** Consultant Project #: **10-025-02-001 10-024-02-1** Page **1** of **1**

Address: **1777 OAKLAND BLVD., STE 200, WALNUT CREEK**

Project Contact: **Bill Howell** Phone #: _____ Fax #: _____ Consultant Work Order #: **10-025-02-001**

Sampled by (print): **DAN BURCH** Sampler's Signature: *[Signature]* B.P. Site Location #: **BSP1132**

Shipment Method: _____ Airbill #: _____ Shipment Date: **7/13/93** B.P. Site Location: **3201 35th OAKLAND.**

TAT: 24 hr 48 hr 72 hr Standard (10 day) ANALYSIS REQUIRED

Sample Condition as Received
 Temperature ° C: _____
 Cooler #: _____
 Inbound Seal Yes No
 Outbound Seal Yes No

Sample Description	Collection Date/Time	Matrix Soil/Water	Prsv	# of Cont	PACE Sample #	TPH/GAS/BTEX EPA 801.5/8020	TPH/Diesel EPA 801.5	TRPH EPA 418.1	HVOC 8010											COMMENTS			
MW-3	7/12/93	W	H2O	3	1123.0	X																	
MW-4	↓	↓	↓	↓	24.9	X																	
MW-5					25.7	X																	
MW-6					26.5	X																	
MW-7					27.3	X																	
MW-9					28.1	X																	
Q (-1)					29.0	X																	
Q (-2)					30.3	X		2															
14/2																							

Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time	Additional Comments:
<i>[Signature]</i>	7/13/93	1310	<i>[Signature]</i> Pace	7/15/93	1310	

Distribution: White - Original Yellow - B.P. Off Pink - Lab Goldenrod - Consultant Field Staff