BP OIL

ENVIRONMENTAL PROTECTION
96 NOV 32 AM 10:49

BP Oil Company
Environmental Resources Management
Building 13, Suite N
295 SW 41st Street
Renton, Washington 98055-4931
(206) 251-0867
Fax No: (206) 251-0736

April 25, 1996

Ms. Jennifer Eberle
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway Room 250
Oakland CA 94612

RE: BP OIL FACILITY #11102
100 MacArthur Blvd
Oakland CA

Dear Ms. Eberle:

Attached please find our **GROUNDWATER MONITORING AND SAMPLING REPORT DATED AUGUST 20, 1996** for the above referenced facility. We plan to continue groundwater monitoring during the next quarter.

If you should have any questions regarding this site, I may be reached at (206) 251-0689.

Respectfully,

Scott T. Hooton
Environmental Resources Management
Corrective Action Manager

STH:sb msword\ERM11102

cc: Mr. Richard Hiett, CRWQCB, San Francisco Bay Region, 2101 Webster Street, Suite 500 Oakland CA 94612

Mr. Brady Nagle, Alisto Engineering Group, 1575 Treat Blvd., Suite 201, Walnut Creek, CA 94598

Site File

GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11102
100 MacArthur Boulevard
Oakland, California

Project No. 10-076-05-002

Prepared for:

BP Oil Company
Environmental Resources Management
295 S.W. 41st Street
Building 13, Suite N
Renton, Washington

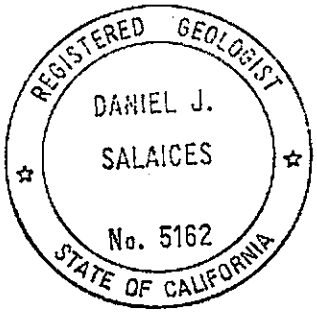
Prepared by:

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

August 20, 1996

William Howell
Project Manager

Dan Salaices
Registered Geologist



GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11102
100 MacArthur Boulevard
Oakland, California

Project No. 10-076-05-002

August 20, 1996

INTRODUCTION

This report presents the results and findings of the June 13, 1996 groundwater monitoring and sampling conducted by Alisto Engineering Group at BP Oil Company Service Station No. 11102, 100 MacArthur Boulevard, Oakland, California. A site vicinity map is shown on 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 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, electrical conductivity, and dissolved oxygen. 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 on Figure 2. The results of groundwater analysis are shown on Figure 3. The laboratory report and chain of custody record are presented in Appendix B.

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO.11102
100 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-076

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (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)	TOG (ug/l)	1,1-DCA (ug/l)	1,2-DCA (ug/l)	VOC (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-1	11/04/89	90.20	13.21	76.99	ND<500	ND<50	3.4	0.6	ND<0.3	ND<0.3	ND<5000	--	0.9	--	--	--	SAL
MW-1	32823.00	90.20	13.32	76.88	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	32966.00	90.20	12.46	77.74	820	--	64	1.9	23	34	--	--	--	--	--	--	ANA
MW-1	33084.00	90.20	12.92	77.28	190	ND<50	11	ND<5.0	ND<5.0	ND<5.0	ND<5000	--	ND	--	--	--	ANA
MW-1	33197.00	90.20	14.08	76.12	50	79	2.4	ND<0.3	ND<0.3	ND<0.3	ND<5000	--	4.0	--	--	--	SAL
MW-1	33298.00	90.20	13.61	76.59	ND<100	ND<1000	0.9	ND<0.3	ND<0.3	0.3	14000	--	ND	--	--	--	SAL
MW-1	33469.00	90.20	15.74	74.46	370	ND<50	35	0.73	6.4	5.6	ND<5000	--	1.4	--	--	--	SEQ
MW-1	33555.00	90.20	14.08	76.12	60	ND<50	0.68	ND<0.3	ND<0.3	ND<0.3	ND<5000	--	1.0	--	--	--	SEQ
MW-1	33658.00	90.20	12.52	77.68	140	100	3.9	0.68	1.2	3.8	ND<5000	--	1.7	--	--	--	SEQ
MW-1	33743.00	90.20	11.80	78.40	4200	910	440	21	250	37	ND<5000	--	ND	--	--	--	SEQ
MW-1	33772.00	90.20	12.01	78.19	4000	560	350	14	150	17	ND<5000	--	ND	--	--	--	SEQ
MW-1	33807.00	90.20	12.42	77.78	4000	--	ND<5.0	19	210	61	--	--	--	--	--	--	ANA
MW-1	33830.00	90.20	12.75	77.45	2400	1700	330	20	150	47	ND<5000	--	ND<2.5	--	--	--	SEQ
MW-1	33919.00	90.20	13.69	76.51	260	92	30	3.4	7.6	6.8	ND<5000	--	ND<2.5	--	--	--	ANA
MW-1	34127.00	90.20	10.93	79.27	3400	440	98	11	21	7.6	--	6.2	0.9	--	--	--	PACE
QC-1 (c)	34127.00	--	--	--	3700	--	120	12	26	9.5	--	--	--	--	--	--	PACE
MW-1	12/02/93	90.20	12.72	77.48	1100	120	8.3	3.8	0.6	1.5	ND<5000	2.6	1.8	--	--	--	PACE
MW-1	06/22/94	90.20	11.81	78.39	2100	ND<50	32	3.9	2.2	17	ND<5000	2.3	3.3	--	--	3.2	PACE
QC-1 (c)	06/22/94	--	--	--	2100	--	30	3.2	2.0	15	--	--	--	--	--	--	PACE
MW-1	01/10/95	90.20	10.97	79.23	ND<500	420	120	ND<5	ND<5	ND<10	--	ND<1	1	--	--	3.9	ATI
QC-1 (c)	01/10/95	--	--	--	ND<500	--	120	ND<5	5	ND<10	--	--	--	--	--	--	ATI
MW-1	06/21/95	90.20	9.38	80.82	4700	1300	16	ND<5.0	ND<5.0	ND<10	2900	2.0	0.38	0.60 (d)	--	6.7	ATI
QC-1 (c)	06/21/95	--	--	--	3600	--	ND<13	ND<5.0	ND<5.0	ND<10	--	--	--	--	--	--	ATI
MW-1	12/27/95	90.20	11.55	78.65	430	2100	ND<2.5	ND<2.5	ND<2.5	ND<5.0	640	0.67	ND<0.20	--	1200	6.3	ATI
MW-1	06/13/96	90.20	9.28	80.92	3200	920	51	ND<12	ND<12	ND<12	2000	--	--	--	4000	6.3	SPL
MW-2	11/04/89	87.91	15.84	72.07	ND<500	--	6.5	ND<0.3	ND<0.3	ND<0.3	--	--	--	--	--	--	SAL
MW-2	32823.00	87.91	14.75	73.16	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	32966.00	87.91	15.25	72.66	ND<500	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--	--	ANA
MW-2	33084.00	87.91	15.59	72.32	61	--	6.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--	--	ANA
MW-2	33197.00	87.91	17.81	70.10	ND<50	--	0.3	ND<0.3	ND<0.3	ND<0.3	--	--	--	--	--	--	SAL
MW-2	33298.00	87.91	17.11	70.80	ND<100	--	0.4	ND<0.3	ND<0.3	ND<0.3	--	--	4.0	--	--	--	SAL
MW-2	33469.00	87.91	17.97	69.94	ND<30	--	ND<0.3	ND<0.3	ND<0.3	ND<0.3	--	--	--	--	--	--	SEQ
MW-2	33555.00	87.91	16.76	71.15	38	--	0.32	ND<0.3	ND<0.3	ND<0.3	--	--	--	--	--	--	SEQ
MW-2	33658.00	87.91	15.07	72.84	ND<50	--	ND<0.5	ND<0.5	ND<0.5	0.58	--	--	16	--	--	--	SEQ
MW-2	33743.00	87.91	14.70	73.21	ND<50	--	0.55	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--	--	SEQ
MW-2	33807.00	87.91	15.60	72.31	90	--	1.3	0.6	0.9	1.9	--	--	--	--	--	--	ANA
MW-2	33830.00	87.91	15.88	72.03	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	33919.00	87.91	16.19	71.72	52	--	2.8	ND<0.5	ND<0.5	0.9	--	--	--	--	--	--	ANA
QC-1 (c)	33919.00	--	--	--	65	--	3.2	ND<0.5	ND<0.5	1.0	--	--	--	--	--	--	ANA
MW-2	34127.00	87.91	14.42	73.49	1200	--	14	2.8	1.9	1.7	--	--	--	--	--	--	PACE
MW-2	12/02/93	87.91	14.94	72.97	790	--	3.4	0.5	10	ND<0.5	--	--	--	--	--	--	PACE
QC-1 (c)	12/02/93	--	--	--	2100	--	32	3.8	2.2	17.00	--	2.3	--	--	--	--	PACE
MW-2	06/22/94	87.91	14.25	73.66	110	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--	3.9	PACE
MW-2	01/10/95	87.91	13.64	74.27	ND<50	--	ND<0.5	ND<0.5	0.8	1	--	--	--	--	--	4.3	ATI
MW-2	06/21/95	87.91	11.66	76.25	4700	--	ND<10	ND<10	ND<10	ND<20	--	--	--	--	--	7.8	ATI
MW-2	12/27/95	87.91	13.11	74.80	6100	--	ND<25	ND<25	ND<25	ND<50	--	--	--	--	20000	6.7	ATI
QC-1 (c)	12/27/95	--	--	--	6300	--	ND<25	ND<25	ND<25	ND<50	--	--	--	--	19000	--	ATI
MW-2	06/13/96	87.91	10.86	77.05	8300	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	--	--	--	13000	6.5	SPL
QC-1 (c)	06/13/96	--	--	--	8700	--	ND<5	ND<5	ND<5	ND<5	--	--	--	--	13000	--	SPL

high aerobic

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO.11102
100 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-076

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (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)	TOG (ug/l)	1,1-DCA (ug/l)	1,2-DCA (ug/l)	VOC (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-3	11/04/89	87.02	15.40	71.62	ND<500	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SAL
MW-3	32623.00	87.02	14.10	72.92	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	32969.00	87.02	13.90	73.12	ND<100	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	ANA
MW-3	33084.00	87.02	13.77	73.25	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000	---	---	---	---	---	ANA
MW-3	33197.00	87.02	14.67	72.35	ND<50	---	0.3	0.8	0.4	1.5	---	---	---	---	---	---	SAL
MW-3	33289.00	87.02	15.22	71.80	ND<100	---	0.4	ND<0.3	ND<0.3	ND<0.3	---	---	ND	---	---	---	SAL
MW-3	33469.00	87.02	13.15	73.87	ND<30	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SEQ
MW-3	33555.00	87.02	15.68	71.38	ND<30	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SEQ
MW-3	33658.00	87.02	15.01	72.01	ND<50	---	0.65	1.4	0.66	4.4	---	---	ND	---	---	---	SEQ
MW-3	33743.00	87.02	15.52	71.50	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	SEQ
MW-3	33807.00	87.02	15.63	71.39	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000	---	ND<0.50	---	---	---	ANA
MW-3	33830.00	87.02	13.57	73.45	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	33919.00	87.02	14.13	72.89	ND<50	---	ND<0.5	0.7	ND<0.5	1.3	---	---	---	---	---	---	ANA
MW-3	34127.00	87.02	12.13	74.89	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
MW-3	12/02/93	87.02	13.29	73.73	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
MW-3	06/22/94	87.02	12.78	74.24	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	2.9	PACE
MW-3	01/10/95	87.02	12.01	75.01	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	1	---	---	3.8	ATI
MW-3	06/21/95	87.02	11.57	75.45	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	7.4	ATI
MW-3	12/27/95	87.02	13.47	73.55	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	5.7	7.3	ATI
MW-3	06/13/96	87.02	11.22	75.80	60	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ND<10	6.8	SPL
QC-2	(e) 33919.00	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	ANA
QC-2	(e) 34127.00	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
QC-2	(e) 12/02/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
QC-2	(e) 06/22/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
QC-2	(e) 01/10/95	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	---	---	ATI
QC-2	(e) 06/21/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	ATI
QC-2	(e) 12/27/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	ND<5.0	---	ATI
QC-2	(e) 06/13/96	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ND<10	---	SPL

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as diesel
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
TOG	Total oil and grease
1,1-DCA	1,1-Dichloroethane
1,2-DCA	1,2-Dichloroethane
VOC	Volatile organic compounds
MTBE	Methyl tert butyl ether
DO	Dissolved oxygen
ug/l	Micrograms per liter
ppm	Parts per million
ND	Not detected above reported detection limit
---	Not analyzed/measured/applicable
SAL	Superior Analytical Laboratory
ANA	Anametrix, Inc.
SEQ	Sequoia Analytical Laboratory
PACE	Pace, Inc.
ATI	Analytical Technologies, Inc.
SPL	Southern Petroleum Laboratories

NOTES:

(a) Top of casing elevations surveyed to the nearest 0.01 foot above mean sea level.

(b) Groundwater elevations in feet above mean sea level.

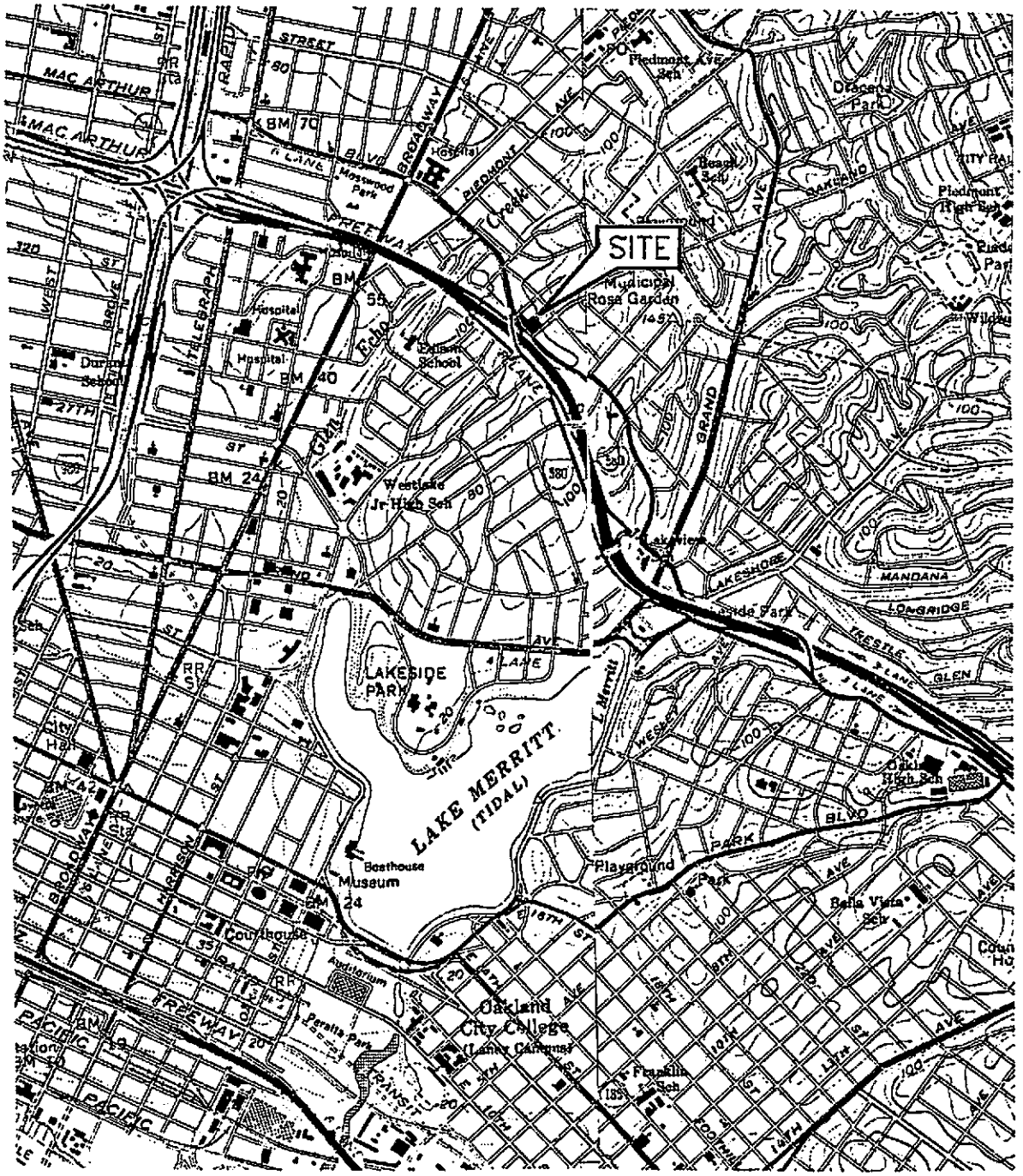
(c) Blind duplicate.

(d) Tetrachloroethene.

(e) Travel blank.

E:\0\10-076-5-1

09-Aug-96



SOURCE:
USGS MAP, OAKLAND EAST & WEST QUADRANGLES, CALIFORNIA. 7.5 MINUTE SERIES. 1959. PHOTOREVISED 1980.

N

0 1000' 2000'

FIGURE 1

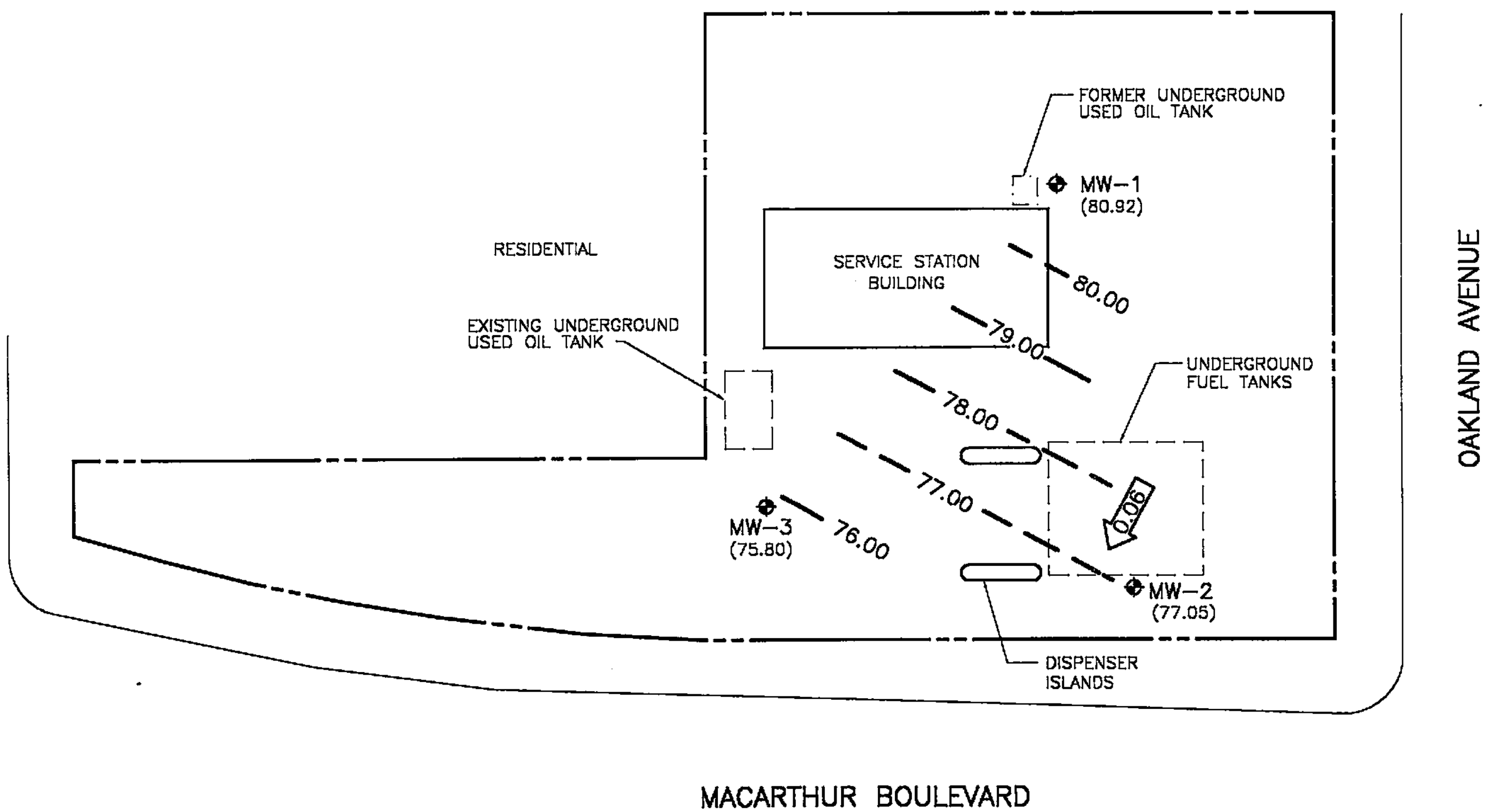
SITE VICINITY MAP

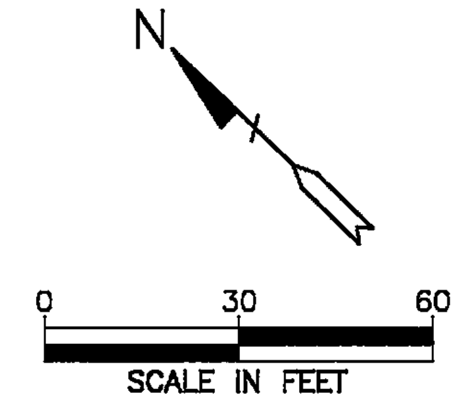
BP OIL SERVICE STATION NO. 11102
100 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. 10-076

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10076D---DWG 7-18-03 KH 1=1





LEGEND

⊕	GROUNDWATER MONITORING WELL
(75.80)	GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
76.00	GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL—1.0 FOOT)
0.06	CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 2

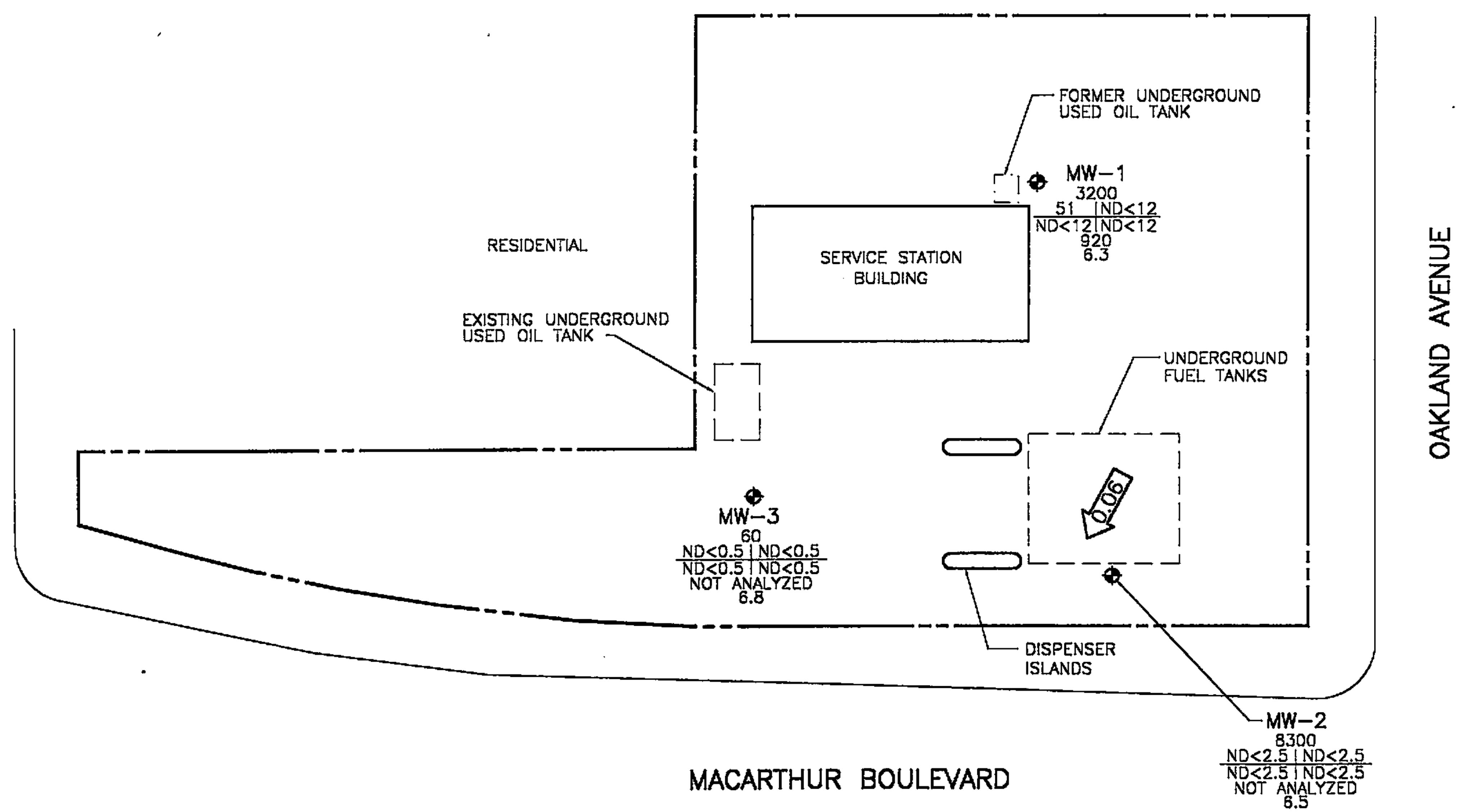
POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP

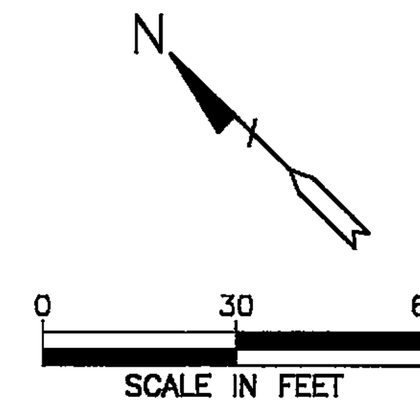
JUNE 13, 1996

BP OIL SERVICE STATION NO. 11102
100 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. 10-076

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA





LEGEND

⊕	GROUNDWATER MONITORING WELL
TPH-G / B | T / E | X / TPH-D / DO	CONCENTRATION OF CONSTITUENTS IN MICROGRAMS PER LITER, EXCEPT DISSOLVED OXYGEN, WHICH IS IN PARTS PER MILLION
TPH-G	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES
TPH-D	TOTAL PETROLEUM HYDROCARBONS AS DIESEL
DO	DISSOLVED OXYGEN
ND	NOT DETECTED ABOVE REPORTED DETECTION LIMIT
⇦ 0.06	CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 3

CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER

JUNE 13, 1996

BP OIL SERVICE STATION NO. 11102
100 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. 10-076

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

APPENDIX A

WATER SAMPLING FIELD SURVEY FORMS

KS

ALISTO

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

Field Report / Sampling Data Sheet

Project No. 10-076-05-002 Date: 6/13/96
Address 100 MacArthur Blvd Day: M T W (H) F
Contract No. G602063 City: Oakland
Station No. BP 11102 Sampler: LB

DEPTH TO GROUNDWATER SUMMARY QC-2 = S-5

WELL ID	SAMPLE ID	WELL DIAM	TOTAL DEPTH	DEPTH TO WATER	PRODUCT THICKNESS	TIME MONITORED	COMMENTS: Semi=June/Dec
MW-1	S-3	4"	23.20	9.28	Ø	1239	
MW-2	S-2	4"	24.80	10.86	"	1335	QC-1 S-4 from this well
MW-3	S-1	4"	23.60	11.22	↓	1231	

FIELD INSTRUMENT CALIBRATION DATA

pH METER Aqua Check 4.00 4 7.00 7 10.00 10 TEMPERATURE COMPENSATED (Y) N TIME 1215 WEATHER Clear
D.O. METER Aqua check ZERO d.O. SOLUTION 0 BAROMETRIC PRESSURE 760 TEMP 67
CONDUCTIVITY METER Aqua check 10,000 _____ TURBIDITY METER _____ 5.0 NTU _____ OTHER X

Well ID	Depth to Wate	Diam	Cap/Lock	Product Dept	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.
MW-3	11.22	4"	OK	Ø	Y (N)	8	1250	68.7	7.22	1.18 ms	6.6
Total Depth - Water Level=	x Well Vol. Factor=	x#vol. to Purge	PurgeVol.			16		67.9	7.14	1.09 ms	
23.60 - 11.22 = 12.38 X .65 = 8.0513 = 24.15						24.5	1301	67.3	7.10	1.06 ms	6.8

Purge Method: (S)Surface Pump ODisp.Tube OWinch ODisp. Baller(s)___ OSys Port
Comments:

O EPA 601 ____
Ø TPH-G/BTEX ALL
Ø TPH Diesel ____
O TOG 5520 ____
TIME/SAMPLE ID: 1310

Well ID	Depth to Wate	Diam	Cap/Lock	Product Dept	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.
MW-2	10.86	4"	OK	Ø	Y (N)	9	1316	67.9	7.11	1.32 ms	6.4
Total Depth - Water Level=	x Well Vol. Factor=	x#vol. to Purge	PurgeVol.			18		66.6	6.97	1.27 ms	
24.80 - 10.86 = 13.94 X .65 = 9.06 X3 = 27.18						27.5	1328	66.3	6.86	1.24 ms	6.5

Purge Method: (S)Surface Pump ODisp.Tube OWinch ODisp. Baller(s)___ OSys Port
Comments: QC-1 S-4 from this well

O EPA 601 ____
Ø TPH-G/BTEX ALL
O TPH Diesel ____
O TOG 5520 ____
TIME/SAMPLE ID: 1330

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. 10-076-05-002 Date: 6/13/96
Address 100 MacArthur Blvd Day: M T W (TH) F
Contract No. G602063 City: Oakland
Station No. BP 11102 Sampler: LB

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
MW-1	9.28	4"	OK	Ø	Y (N)	9	1341	68.7	7.44	1.26mS	6.1
Total Depth - Water Level=	x Well Vol. Factor=	x#vol. to Purge	PurgeVol.			18		67.2	7.24	1.18mS	
23.20 - 9.28 = 13.92	X .65 = 9.05	X 3 = 27.15				27.5	1356	66.8	7.21	1.12mS	6.3

Purge Method: (X) Surface Pump ( ) Disp.Tube ( ) Winch ( ) Disp. Bailer(s)___ ( ) Sys Port

Comments:

(X) EPA 601 HCL
(X) TPH-G/BTEX HCL
(X) TPH Diesel HCL
(X) TOG 5520 HCL

TIME/SAMPLE ID
1400

APPENDIX B

LABORATORY REPORT AND CHAIN OF CUSTODY RECORD

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Southern Petroleum Laboratories, Inc.

Certificate of Analysis Number: 96-06-751

Approved for Release by:

Ed Fry, Project Manager

Date: 6/26/96

Greg Grandits
Laboratory Director

Idelis Williams
Quality Assurance Officer

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9606751-01

BP Oil Company
295 SW 41st St, Bldg 13,Ste N
Renton, WA 98055
ATTN: Scott Hooton

P.O.# G602063,COC#070741
DATE: 06/26/96

PROJECT: BP Oil #11102
SITE: Oakland, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-1

PROJECT NO: 10-076-05/002
MATRIX: WATER
DATE SAMPLED: 06/13/96
DATE RECEIVED: 06/15/96

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	10 P	µg/L
Benzene	ND	0.5 P	µg/L
Toluene	ND	0.5 P	µg/L
Ethylbenzene	ND	0.5 P	µg/L
Total Xylene	ND	0.5 P	µg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	103		
4-Bromofluorobenzene	123		
METHOD 8020***			
Analyzed by: LJ			
Date: 06/23/96			
Total Petroleum Hydrocarbons-Gasoline	0.060	0.05 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	97		
4-Bromofluorobenzene	113		
CA LUFT - Gasoline			
Analyzed by: LJ			
Date: 06/23/96 03:38:00			

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL California License # 1903

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9606751-02

BP Oil Company
295 SW 41st St, Bldg 13,Ste N
Renton, WA 98055
ATTN: Scott Hooton

P.O.# G602063,COC#070741
DATE: 06/26/96

PROJECT: BP Oil #11102
SITE: Oakland, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-2

PROJECT NO: 10-076-05/002
MATRIX: WATER
DATE SAMPLED: 06/13/96
DATE RECEIVED: 06/15/96

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	13000	1000 P	µg/L
Benzene	ND	2.5 P	µg/L
Toluene	ND	2.5 P	µg/L
Ethylbenzene	ND	2.5 P	µg/L
Total Xylene	ND	2.5 P	µg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	91		
4-Bromofluorobenzene	95		
METHOD 8020***			
Analyzed by: YN			
Date: 06/24/96			
Total Petroleum Hydrocarbons-Gasoline	8.3	0.25 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	87		
4-Bromofluorobenzene	80		
CA LUFT - Gasoline			
Analyzed by: LJ			
Date: 06/24/96 01:07:00			

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9606751-03

BP Oil Company
295 SW 41st St, Bldg 13,Ste N
Renton, WA 98055
ATTN: Scott Hooton

P.O.# G602063,COC#070741
DATE: 06/26/96

PROJECT: BP Oil #11102
SITE: Oakland, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-3

PROJECT NO: 10-076-05/002
MATRIX: WATER
DATE SAMPLED: 06/13/96
DATE RECEIVED: 06/15/96

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	4000	250 P	µg/L
Benzene	51	12 P	µg/L
Toluene	ND	12 P	µg/L
Ethylbenzene	ND	12 P	µg/L
Total Xylene	ND	12 P	µg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	92		
4-Bromofluorobenzene	93		
METHOD 8020***			
Analyzed by: YN			
Date: 06/24/96			
Total Petroleum Hydrocarbons-Gasoline	3.2	0.25 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	87		
4-Bromofluorobenzene	73		
CA LUFT - Gasoline			
Analyzed by: LJ			
Date: 06/23/96 09:20:00			
Total Petroleum Hydrocarbons-Diesel	0.92	0.050 P	mg/L
Surrogate	**% Recovery**		
o-Terphenyl	CI		

(P) - Practical Quantitation Limit ND - Not detected.
CI - Coeluting interference.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL California License # 1903

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9606751-03

BP Oil Company
295 SW 41st St, Bldg 13,Ste N
Renton, WA 98055
ATTN: Scott Hooton

P.O.# G602063,COC#070741
DATE: 06/26/96

PROJECT: BP Oil #11102
SITE: Oakland, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-3

PROJECT NO: 10-076-05/002
MATRIX: WATER
DATE SAMPLED: 06/13/96
DATE RECEIVED: 06/15/96

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
2-Fluorobiphenyl	CI		
CA LUFT - Diesel			
Analyzed by: LT/			
Date: 06/19/96 11:42:00			
BENZENE	45	25 P	ug/L
TOLUENE	ND	25 P	ug/L
ETHYLBENZENE	ND	25 P	ug/L
TOTAL XYLENE	ND	25 P	ug/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	45		ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	92		
4-Bromofluorobenzene	96		
METHOD 602 *			
Analyzed by: LJ			
Date: 06/23/96			
Liquid-liquid extraction	06/18/96		
METHOD 3510B ***			
Analyzed by: MF			
Date: 06/18/96 14:00:00			
Hydrocarbons by Gravimetry	2	0.5	mg/L
Method 5520 B & F **			
Analyzed by: JN			
Date: 06/18/96 08:00:00			

CI - Coeluting interference. (P) - Practical Quantitation Limit
ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9606751-04

BP Oil Company
295 SW 41st St, Bldg 13,Ste N
Renton, WA 98055
ATTN: Scott Hooton

P.O.# G602063,COC#070741
DATE: 06/26/96

PROJECT: BP Oil #11102
SITE: Oakland, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-4

PROJECT NO: 10-076-05/002
MATRIX: WATER
DATE SAMPLED: 06/13/96
DATE RECEIVED: 06/15/96

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	13000	1000 P	µg/L
Benzene	ND	5 P	µg/L
Toluene	ND	5 P	µg/L
Ethylbenzene	ND	5 P	µg/L
Total Xylene	ND	5 P	µg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	93		
4-Bromofluorobenzene	93		
METHOD 8020***			
Analyzed by: YN			
Date: 06/24/96			
Total Petroleum Hydrocarbons-Gasoline	8.7	0.5 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	87		
4-Bromofluorobenzene	77		
CA LUFT - Gasoline			
Analyzed by: LJ			
Date: 06/23/96 10:17:00			

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL California License # 1903

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9606751-05

BP Oil Company
295 SW 41st St, Bldg 13,Ste N
Renton, WA 98055
ATTN: Scott Hooton

P.O.# G602063,COC#070741
DATE: 06/26/96

PROJECT: BP Oil #11102
SITE: Oakland, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-5

PROJECT NO: 10-076-05/002
MATRIX: WATER
DATE SAMPLED: 06/13/96
DATE RECEIVED: 06/15/96

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	10 P	µg/L
Benzene	ND	0.5 P	µg/L
Toluene	ND	0.5 P	µg/L
Ethylbenzene	ND	0.5 P	µg/L
Total Xylene	ND	0.5 P	µg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	90		
4-Bromofluorobenzene	97		
METHOD 8020***			
Analyzed by: LJ			
Date: 06/23/96			
Total Petroleum Hydrocarbons-Gasoline	ND	0.05 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	87		
4-Bromofluorobenzene	77		
CA LUFT - Gasoline			
Analyzed by: LJ			
Date: 06/23/96 10:45:00			

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL California License # 1903

QUALITY CONTROL

DOCUMENTATION

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL BATCH QUALITY CONTROL REPORT **
METHOD 8020/602

Matrix: Aqueous
Units: µg/L

Batch Id: HP_N960622104200

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	50	47	94.0	20 - 110
Benzene	ND	50	48	96.0	62 - 121
Toluene	ND	50	47	94.0	66 - 136
EthylBenzene	ND	50	51	102	70 - 136
O Xylene	ND	50	49	98.0	74 - 134
M & P Xylene	ND	100	100	100	77 - 140

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	ND	20	23	115	23	115	0	20	39 - 150
BENZENE	ND	20	23	115	23	115	0	25	39 - 150
TOLUENE	ND	20	22	110	22	110	0	26	56 - 134
ETHYLBENZENE	ND	20	24	120	23	115	4.26	38	61 - 128
O XYLENE	ND	20	23	115	23	115	0	29	40 - 130
M & P XYLENE	ND	40	49	122	50	125	2.43	20	43 - 152

Analyst: LJ
Sequence Date: 06/24/96
SPL ID of sample spiked: 9606750-05A
Sample File ID: N___757.TX0
Method Blank File ID:
Blank Spike File ID: N___750.TX0
Matrix Spike File ID: N___772.TX0
Matrix Spike Duplicate File ID: N___773.TX0

* = Values Outside QC Range
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [(<1> - <2>) / <3>] x 100
LCS % Recovery = (<1> / <3>) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100
(**) = Source: SPL-Houston Historical Data (3rd Q '95)
(***) = Source: SPL-Houston Historical Data (2nd Q '95)

SAMPLES IN BATCH(SPL ID):

9606751-01A 9606A02-05A 9606751-03A 9606751-03D
9606751-04A 9606751-05A 9606A02-01A 9606A02-03A
9606A02-04A 9606751-02A 9606750-05A 9606749-08A
9606749-09A 9606749-10A 9606749-11A 9606750-01A
9606750-02A 9606750-03A 9606750-04A

QC Officer

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL BATCH QUALITY CONTROL REPORT **
METHOD 8020/602

Matrix: Aqueous
Units: µg/L

Batch Id: HP_N960624023200

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	50	52	104	20 - 110
Benzene	ND	50	49	98.0	62 - 121
Toluene	ND	50	45	90.0	66 - 136
EthylBenzene	ND	50	51	102	70 - 136
O Xylene	ND	50	51	102	74 - 134
M & P Xylene	ND	100	110	110	77 - 140

MATRIX SPIKES

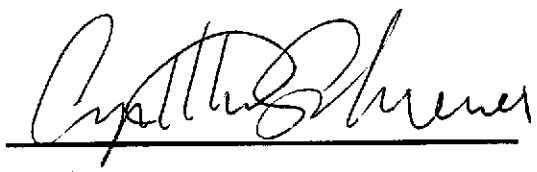
SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	ND	20	19	95.0	19	95.0	0	20	39 - 150
BENZENE	ND	20	19	95.0	19	95.0	0	25	39 - 150
TOLUENE	22	20	39	85.0	39	85.0	0	26	56 - 134
ETHYLBENZENE	1	20	20	95.0	20	95.0	0	38	61 - 128
O XYLENE	1	20	19	90.0	19	90.0	0	29	40 - 130
M & P XYLENE	2	40	40	95.0	40	95.0	0	20	43 - 152

Analyst: YN
Sequence Date: 06/24/96
SPL ID of sample spiked: 9606A04-02A
Sample File ID: N___812.TX0
Method Blank File ID:
Blank Spike File ID: N___788.TX0
Matrix Spike File ID: N___818.TX0
Matrix Spike Duplicate File ID: N___819.TX0

* = Values Outside QC Range
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [(<1> - <2>) / <3>] x 100
LCS % Recovery = (<1> / <3>) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100
(**) = Source: SPL-Houston Historical Data (3rd Q '95)
(***) = Source: SPL-Houston Historical Data (2nd Q '95)

SAMPLES IN BATCH(SPL ID):

9606973-06A 9606973-05A 9606973-04A 9606973-03A
9606973-02A 9606973-01A 9606A04-05A 9606751-02A
9606751-04A 9606751-03A 9606A04-04A 9606A04-01A
9606A04-02A 9606A04-03A 9606973-08A 9606973-10A
9606973-11A 9606973-09A 9606A02-06A 9606973-07A



QC Officer

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL BATCH QUALITY CONTROL REPORT **

CA LUFT

Matrix: Aqueous

Batch Id: HP_N960623123500

Units: mg/L

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
Petroleum Hydrocarbons-Gas	ND	1.0	1.1	110	50 - 150

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
PETROLEUM HYDROCARBONS-GAS	ND	0.9	0.94	104	0.94	104	0	50	50 - 150

Analyst: LJ

Sequence Date: 06/22/96

SPL ID of sample spiked: 9606750-03A

Sample File ID: NN__764.TX0

Method Blank File ID:

Blank Spike File ID: NN__753.TX0

Matrix Spike File ID: NN__774.TX0

Matrix Spike Duplicate File ID: NN__775.TX0

* = Values Outside QC Range

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

LCS % Recovery = (<1> / <3>) x 100

Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100

(**) = Source: Temporary Limits

(***) = Source: Temporary Limits

SAMPLES IN BATCH(SPL ID):

9606749-09A 9606749-10A 9606749-11A 9606750-01A
9606750-02A 9606750-03A 9606750-04A 9606751-01A
9606A02-05A 9606751-03A 9606751-04A 9606751-05A
9606A02-01A 9606A02-02A 9606A02-03A 9606A02-04A
9606751-02A 9606750-05A 9606749-08A

QC Officer

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL BATCH QUALITY CONTROL REPORT ** PAGE

Mod. 8015 - Diesel

Matrix: Aqueous

Batch Id: HPTT960619053300

Units: mg/L

BLANK SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(**) (Advisory) RPD Max.	QC Limits(**) (Advisory) Recovery Range
DIESEL PETR. HYDROCARBONS	ND	5.0	5.56	111	5.34	107	3.67	43	20 - 130

Analyst: LT/

Sequence Date: 06/19/96

Method Blank File ID:

Sample File ID:

Blank Spike File ID: TT__794.TX0

Matrix Spike File ID:

Matrix Spike Duplicate File ID:

* = Values Outside QC Range

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100

(**) = Source: SPL-Houston Historical Data

SAMPLES IN BATCH(SPL ID): 9606751-03B 9606734-06B 9606708-01B 9606708-02B 9606355-02C 9606630-01B 9606734-01B 9606734-03B 9606734-04B

QC Officer

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL QUALITY CONTROL REPORT **

Matrix: Aqueous

Reported on: 06/18/96
Analyzed on: 06/18/96
Analyst: JN

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Hydrocarbons by Gravimetry
Method 5520 B & F **

SPL Sample ID Number	Blank Value mg/L	Amt Added mg/L	Matrix Spike Recovery %	Matrix Spike Duplicate Recovery %	Relative Percent Difference %	QC Limits Recovery	RPD Max.
BLANK	ND	4.1	105	102	2.9	82. - 112	9.8

960618JN -9606641

Samples in batch:

9606708-01C 9606751-03C

COMMENTS:

SPL, Incorporated

QC Officer

CHAIN OF CUSTODY

AND

SAMPLE RECEIPT CHECKLIST

9606751

TK/SB 6/18/96

BP

CHAIN OF CUSTODY

No. 070741

Page 1 of 1

CONSULTANT'S NAME	ADDRESS	CITY	STATE	ZIP CODE
Alisto Engineering	1575 Treat Blvd #201	W C.	C	94598

BP SITE NUMBER	BP CORNER ADDRESS/CITY	CONSULTANT PROJECT NUMBER
11102	Oakland	10-076-05/002

CONSULTANT PROJECT MANAGER	PHONE NUMBER	FAX NUMBER	CONSULTANT CONTRACT NUMBER
Brady Nagle	(510) 295-1650	295-1823	G602063
BP CONTACT	**BP ADDRESS**	**PHONE NUMBER**	**FAX NO.**
Scott Hooton	Renton, WA	—	—
LAB CONTACT	**LABORATORY ADDRESS**	**PHONE NUMBER**	**FAX NO.**
SPL	Texas	—	—

SAMPLED BY (Please Print Name)	SAMPLED BY (Signature)	SHIPMENT DATE	SHIPMENT METHOD
Larry Buenavenida	[signature]		FedEx

TAT: ☐ 24 Hours ☐ 48 Hours ☐ 1 Week ☒ Standard 2 Weeks

AIRBILL NUMBER: 9404778040

ANALYSIS REQUIRED

SAMPLE DESCRIPTION	COLLECTION DATE / COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL.)	PRESERVATIVE LAB SAMPLE #	TPH-G BTEX	TPH-D	TPH-MO	Pb	TOG 5520					COMMENTS
S-1	6/13/96	W	10	HCL		X	X	X	X	X					
S-2	↓	↓	3	↓		↓	↓								
S-3	↓	↓	↓	↓		↓	↓	X	X	X					
S-4	↓	↓	↓	↓		↓	↓								
S-5	↓	↓	2	↓		↓	↓								

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Larry Buenavenida	6/14/96	0803	P. Yelton	6/14/96	0805
Patricia Yelton	6/14/96		Dwayne Bowie / SPL	6-15-96	1000

ADDITIONAL COMMENTS: 3°C Intact

CLV-16722
PKG/50

Distribution: White - Original (with Data) Yellow - BP Pink - Lab Blue - Consultant Field Staff

SPL Houston Environmental Laboratory

Sample Login Checklist

Date:	Time:
6/15/96	1000

SPL Sample ID:
9606751

			Yes	No
1	Chain-of-Custody (COC) form is present.		✓	
2	COC is properly completed.		✓	
3	If no, Non-Conformance Worksheet has been completed.			
4	Custody seals are present on the shipping container.		✓	
5	If yes, custody seals are intact.		✓	
6	All samples are tagged or labeled.		✓	
7	If no, Non-Conformance Worksheet has been completed.			
8	Sample containers arrived intact		✓	
9	Temperature of samples upon arrival:		3° C	
10	Method of sample delivery to SPL:	SPL Delivery		
		Client Delivery		
		FedEx Delivery (airbill #)	940477804(	
		Other:		
11	Method of sample disposal:	SPL Disposal	✓	
		HOLD		
		Return to Client		

Name:	Date:
D. Bond	6/15/96