

August 27, 2004

Alameda County
Environmental Health
SEP 01 2004

Mr. Robert Shultz
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-8577

**Re: Third Quarter 2004 Groundwater Monitoring Report
Former BP Service Station #11102
100 MacArthur Boulevard
Oakland, California
URS Project #38486804**

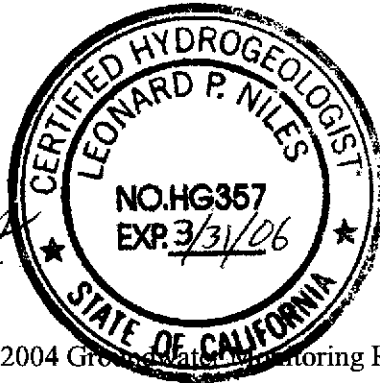
Dear Mr. Shultz:

On behalf of the Atlantic Richfield Company (RM), a BP affiliated company, URS Corporation (URS) is submitting the *Third Quarter 2004 Groundwater Monitoring Report* for Former BP Service Station #11102, located at 100 MacArthur Boulevard, Oakland, California.

If you have any questions regarding this submission, please call (510) 874-1720.

Sincerely,
URS CORPORATION

Leonard P. Niles
Leonard P. Niles, R.G., C.H.G.
Project Manager



Enclosure: Third Quarter 2004 Groundwater Monitoring Report

cc: Mr. Kyle Christie, RM, (electronic copy uploaded to ENFOS)
Ms. Liz Sewell, ConocoPhillips, 76 Broadway, Sacramento, CA 95818
Mr. Chris Jimmerson, Delta Environmental Consultants, 3164 Gold Camp Drive, Suite 200,
Rancho Cordova, California 95670-6021

R E P O R T

**THIRD QUARTER 2004
GROUNDWATER MONITORING**

**FORMER BP SERVICE STATION #11102
100 MACARTHUR BOULEVARD,
OAKLAND, CALIFORNIA**

Alameda County
SEP 01 2004
Environmental Health

Prepared for
Atlantic Richfield Company

August 27, 2004

URS

URS Corporation
1333 Broadway
Oakland, California 94612

38486804

Date: August 27, 2004
Quarter: 3Q 04

BP QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 11102 Address: 100 MacArthur Boulevard, Oakland, CA
RM Environmental Business Manager: Kyle Christie
Consulting Co./Contact Person: URS Corporation/ Leonard Niles
Consultant Project No.: 38486804
Primary Agency/Case #: Alameda County Department of Environmental Health
(ACDEH)/Case #RO0000456

WORK PERFORMED THIS QUARTER (Third – 2004):

1. Performed third quarter 2004 groundwater monitoring event on July 1, 2004.
2. Prepared and submitted third quarter 2004 groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (Fourth – 2004):

1. Perform fourth quarter 2004 groundwater monitoring event.
2. Prepare and submit fourth quarter 2004 groundwater monitoring report.
3. Begin implementing workplan for subsurface investigation pending agency approval.

Current Phase of Project:	<u>GW monitoring/sampling</u>
Frequency of Groundwater Sampling:	<u>Wells MW-1 through MW-3 quarterly</u>
Frequency of Groundwater Monitoring:	<u>Quarterly</u>
Is Free Product (FP) Present On-Site:	<u>Monitored Natural Attenuation</u>
Current Remediation Techniques:	<u>None</u>
Approximate Depth to Groundwater:	<u>11.52 (MW-1) to 15.19 (MW-3) feet</u>
Groundwater Gradient (direction):	<u>West</u>
Groundwater Gradient (magnitude):	<u>0.077 feet per foot</u>

DISCUSSION:

Gasoline Range Organics (GRO) were detected above laboratory reporting limits in one of the three wells sampled this quarter at a concentration of 360 µg/L (MW-1). Benzene was not detected above laboratory reporting limits in any of the wells sampled. Methyl tert-butyl ether (MTBE) was detected in all three wells at concentrations of 48 µg/L (MW-3), 96 µg/L (MW-1), and 5,200 µg/L (MW-2). TBA was detected above laboratory reporting limits two wells at concentrations of 2,000 µg/L (MW-1) and 2,900 µg/L (MW-2). TAME was detected above laboratory reporting limits in two wells at concentrations of 0.52 µg/L (MW-3) and 110 µg/L (MW-2). URS is currently awaiting approval by ACDEH of a plume delineation workplan submitted on April 14, 2004. In the interim, URS proposes coordinating groundwater monitoring events and data sharing with the consultant for the adjacent Quick Stop (former Tosco/ ConocoPhillips) service station at 66 (formerly 96) MacArthur Boulevard. At least two of the Quick Stop monitoring wells are located downgradient from the former BP site, which would aid in delineating the extent of the dissolved-phase petroleum hydrocarbon plume.

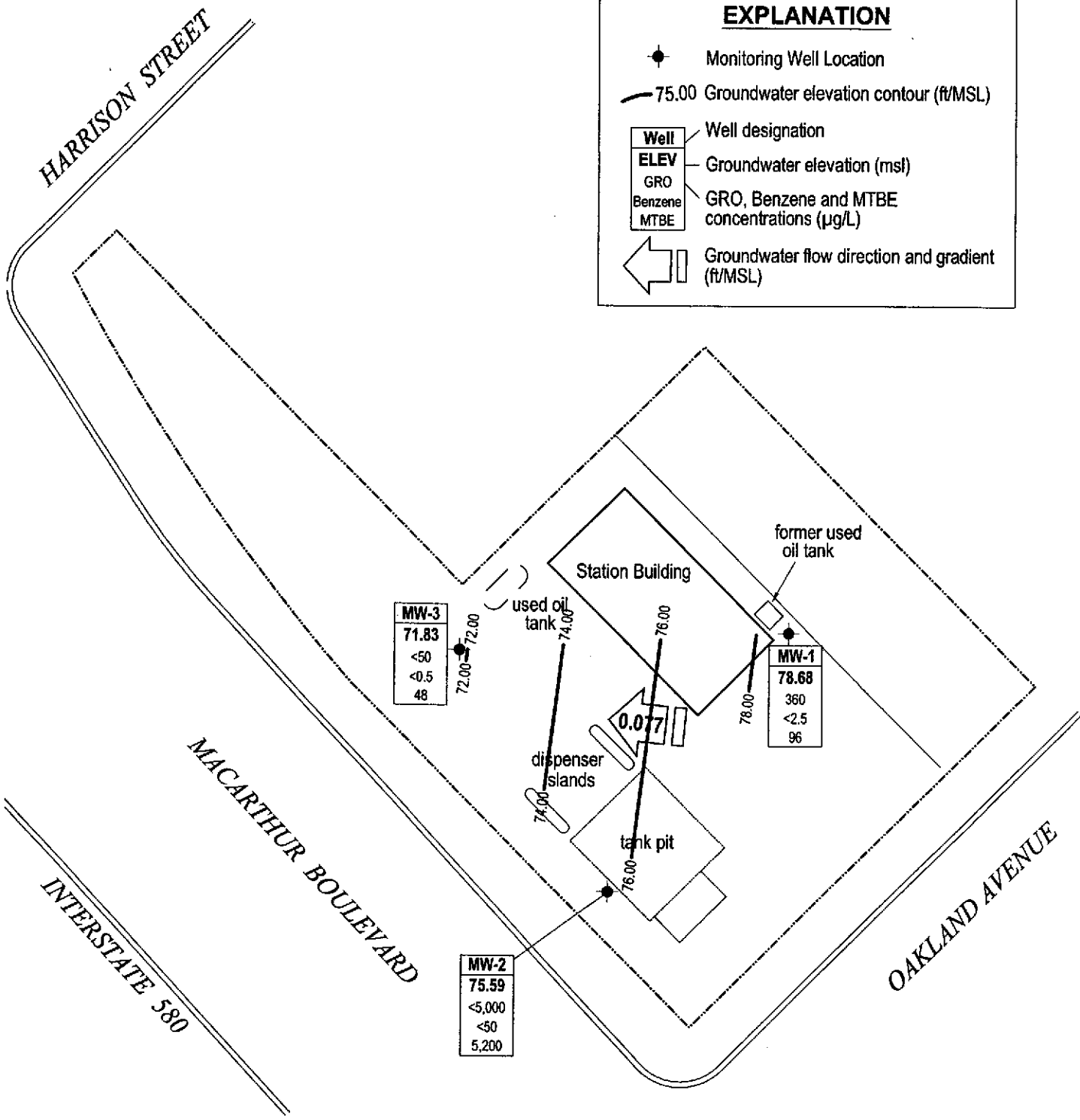
ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – July 1, 2004
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Additive Analytical Data
- Chart 1 – Concentration and Water Level Trends, Well MW-1
- Chart 2 – Concentration and Water Level Trends, Well MW-2
- Chart 3 – Concentration and Water Level Trends, Well MW-3
- Attachment A – Field Procedures and Field Data Sheets
- Attachment B – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment C – EDCC Report and EDF/Geowell Submittal Confirmation

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X:\x_env\waste\BP_GEM\Sites\L Niles Steel\11102\Reports\Monitoring\Ctr. 3. 2004\Drawings\GWEC-AS_7-1.dwg, 09/25/2004 03:15:03 PM, jking0



EXPLANATION

- Monitoring Well Location
- 75.00 Groundwater elevation contour (ft/MSL)
- | |
|---------|
| Well |
| ELEV |
| GRO |
| Benzene |
| MTBE |

 Well designation
- | |
|---------|
| ELEV |
| GRO |
| Benzene |
| MTBE |

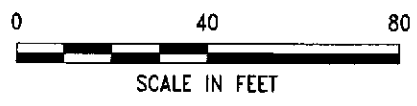
 Groundwater elevation (msl)
- | |
|---------|
| ELEV |
| GRO |
| Benzene |
| MTBE |

 GRO, Benzene and MTBE concentrations (µg/L)
- Groundwater flow direction and gradient (ft/MSL)

MW-3
71.83
<50
<0.5
48

MW-1
78.68
360
<2.5
96

MW-2
75.59
<5,000
<50
5,200



NOTE: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES.
SITE DIMENSIONS AND FIGURES FACILITY LOCATIONS NOT VERIFIED.

URS	Project No. 38486804	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Third Quarter 2004 (July 1, 2004)	FIGURE 1
	Former BP Service Station #11102 100 MacArthur Boulevard Oakland, California		

Table 1
Groundwater Elevation and Analytical Data
Former BP Station No. 11102
100 MacArthur Blvd., Oakland, CA

Well No.	Date	P/ NP	Foot Note	TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	DRO/TPH-d (µg/L)	TOG (µg/L)	HVOC (µg/L)
MW-1	11/4/1989	--	--	90.20	13.21	--	76.99	<500	3.4	0.6	<0.3	<0.3	--	--	SAL	--	<50	<5000	--
	11/11/1989	--	--	90.20	13.32	--	76.88	--	--	--	--	--	--	--	---	--	--	---	---
	4/3/1990	--	--	90.20	12.46	--	77.74	820	64	1.9	23	34	--	--	ANA	--	--	---	---
	7/30/1990	--	--	90.20	12.92	--	77.28	190	11	<5.0	<5.0	<5.0	--	--	ANA	--	<50	<5000	---
	11/20/1990	--	--	90.20	14.08	--	76.12	50	2.4	<0.3	<0.3	<0.3	--	--	SAL	--	79	<5000	---
	3/1/1991	--	--	90.20	13.61	--	76.59	<100	0.9	<0.3	<0.3	0.3	--	--	SAL	--	<1000	14,000	---
	8/19/1991	--	--	90.20	15.74	--	74.46	370	35	0.73	6.4	5.6	--	--	SEQ	--	<50	<5000	---
	11/13/1991	--	--	90.20	14.08	--	76.12	60	0.68	<0.3	<0.3	<0.3	--	--	SEQ	--	<50	<5000	---
	2/24/1992	--	--	90.20	12.52	--	77.68	140	3.9	0.66	1.2	3.8	--	--	SEQ	--	100	<5000	---
	5/19/1992	--	--	90.20	11.80	--	78.40	4,200	440	21	250	37	--	--	SEQ	--	910	<5000	---
	6/17/1992	--	--	90.20	12.01	--	78.19	4,000	350	14	150	17	--	--	SEQ	--	560	<5000	---
	7/22/1992	--	--	90.20	12.42	--	77.78	4,000	<5.0	19	210	61	--	--	ANA	--	--	---	---
	8/14/1992	--	--	90.20	12.75	--	77.45	2,400	330	20	150	47	--	--	SEQ	--	1,700	<5000	---
	11/11/1992	--	--	90.20	13.69	--	76.51	260	30	3.4	7.6	6.8	--	--	ANA	--	92	<5000	---
	6/7/1993	--	c	90.20	--	--	--	3,700	120	12	26	9.5	--	--	PACE	--	--	---	---
	6/7/1993	--	--	90.20	10.93	--	79.27	3,400	98	11	21	7.6	--	--	PACE	--	440	---	---
	12/2/1993	--	--	90.20	12.72	--	77.48	1,100	8.3	3.6	0.6	1.5	--	--	PACE	--	120	<5000	---
	6/22/1994	--	c	90.20	--	--	--	2,100	30	3.2	2	15	2,000 d	--	PACE	--	--	---	---
	6/22/1994	--	--	90.20	11.81	--	78.39	2,100	32	3.8	2.2	17	4,000 d	3.2	PACE	--	<50	<5000	---
	1/10/1995	--	c	90.20	--	--	--	<500	120	<5	5	<10	--	--	ATI	--	--	---	---
	1/10/1995	--	--	90.20	10.97	--	79.23	<500	120	<5	<5	<10	--	3.9	ATI	--	420	---	---
	6/21/1995	--	c,e	90.20	--	--	--	3,600	<13	<5.0	<5.0	<10	--	--	ATI	--	--	---	---
	6/21/1995	--	--	90.20	9.38	--	80.82	4,700	16	<5.0	<5.0	<10	--	6.7	ATI	--	1,300	2,900	0.6
	12/27/1995	--	--	90.20	11.55	--	78.65	430	<2.5	<2.5	<2.5	<5.0	1,200	6.3	ATI	--	2,100	640	---
	6/13/1996	--	--	90.20	9.28	--	80.92	3,200	51	<12	<12	<12	4,000	6.3	SPL	--	920	2,000	---
	12/4/1996	--	f	90.20	11.91	--	78.29	1,400	6.2	<5	<5	<5	2,600	6.7	SPL	--	280	2,000	6
	6/10/1997	--	c	90.20	--	--	--	7,700	14	<25	<25	<25	13,000	--	SPL	--	--	---	---
	6/10/1997	--	--	90.20	8.97	--	81.23	7,900	12	<10	<10	<10	15,000	6	SPL	--	1,700	<5	ND
	12/12/1997	--	--	90.20	11.37	--	78.83	440	8.8	<1.0	2.6	9.4	6,700	5.5	SPL	--	760	1,200	ND
	6/18/1998	--	--	90.20	8.02	--	82.18	7,500	<2.5	<5.0	<5.0	<5.0	5,600	4.9	SPL	--	2,900	<5	ND
	3/9/1999	--	--	90.20	9.80	--	80.40	32,000	100	16	72	110	49,000	--	SPL	--	--	---	---
	9/28/1999	--	--	90.20	10.78	--	79.42	1,000	<5.0	<5.0	<5.0	<5.0	730	--	SPL	--	--	---	<1.0
	10/14/1999	--	--	90.20	10.84	--	79.36	--	--	--	--	--	--	--	SPL	--	660	---	---
	3/27/2000	--	--	90.20	9.83	--	80.37	4,300	160	19	37	43	28,000	--	PACE	--	--	---	---

Table 1

Groundwater Elevation and Analytical Data

Former BP Station No. 11102
100 MacArthur Blvd., Oakland, CA

Well No.	Date	P/ NP	Foot Note	TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	DRO/TPH-d (µg/L)	TOG (µg/L)	HVOC (µg/L)
MW-1	9/28/2000	--	--	90.20	11.33	--	78.87	2,700	10	2.6	1.1	2.7	28,000	--	PACE	--	--	---	---
	3/8/2001	--	--	90.20	10.96	--	79.24	8,200	23.5	6.09	5.23	8.97	11,600	--	PACE	--	--	---	---
	9/21/2001	--	--	90.20	12.07	--	78.13	6,000	37.9	<0.5	<0.5	<1.5	7,370	--	PACE	--	--	---	---
	2/28/2002	--	--	90.20	10.48	--	79.72	6,400	60.8	<5.0	6.43	<10	7,750	--	PACE	--	--	---	---
	9/6/2002	--	*	90.20	11.20	--	79.00	1,400	<5.0	<5.0	<5.0	<5.0	6,000	--	SEQ	--	--	---	---
	2/19/2003	--	h	90.20	11.29	--	78.91	<10000	<100	110	<100	<100	4,500	--	SEQ	--	--	---	---
	7/14/2003	--	--	90.20	11.18	--	79.02	710	11	<10	<10	<10	940	--	SEQ	--	--	---	---
	01/14/2004	--	odor	90.20	11.74	--	78.46	<500	<5.0	<5.0	<5.0	<5.0	220	--	SEQM	6.6	--	--	--
	04/23/2004	P	--	90.20	11.95	--	78.25	470 l	3.4	<2.5	<2.5	<2.5	150	--	SEQM	6.7	--	--	--
	07/01/2004	P	--	90.20	11.52	--	78.68	360	<2.5	<2.5	<2.5	<2.5	96	--	SEQM	6.0	--	--	--
MW-2	11/4/1989	--	--	87.91	15.84	--	72.07	<500	6.5	<0.3	<0.3	<0.3	--	--	SAL	--	--	---	---
	11/11/1989	--	--	87.91	14.75	--	73.16	--	--	--	--	--	--	--	---	--	--	---	---
	4/3/1990	--	--	87.91	15.25	--	72.66	<500	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	---	---
	7/30/1990	--	--	87.91	15.59	--	72.32	61	6.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	---	---
	11/20/1990	--	--	87.91	17.81	--	70.10	<50	0.3	<0.3	<0.3	<0.3	--	--	SAL	--	--	---	---
	3/1/1991	--	--	87.91	17.11	--	70.80	<100	0.4	<0.3	<0.3	<0.3	--	--	SAL	--	--	---	---
	8/19/1991	--	--	87.91	17.97	--	69.94	<30	<0.3	<0.3	<0.3	<0.3	--	--	SEQ	--	--	---	---
	11/13/1991	--	--	87.91	16.76	--	71.15	38	0.32	<0.3	<0.3	<0.3	--	--	SEQ	--	--	---	---
	2/24/1992	--	--	87.91	15.07	--	72.84	<50	<0.5	<0.5	<0.5	0.58	--	--	SEQ	--	--	---	---
	5/19/1992	--	--	87.91	14.70	--	73.21	<50	0.55	<0.5	<0.5	<0.5	--	--	SEQ	--	--	---	---
	7/22/1992	--	--	87.91	15.60	--	72.31	90	1.3	0.6	0.9	1.9	--	--	ANA	--	--	---	---
	8/14/1992	--	--	87.91	15.88	--	72.03	--	--	--	--	--	--	--	---	--	--	---	---
	11/11/1992	--	c	87.91	--	--	--	65	3.2	<0.5	<0.5	1	--	--	ANA	--	--	---	---
	11/11/1992	--	--	87.91	16.19	--	71.72	52	2.8	<0.5	<0.5	0.9	--	--	ANA	--	--	---	---
	6/7/1993	--	--	87.91	14.42	--	73.49	1,200	14	2.8	1.9	1.71	--	--	PACE	--	--	---	---
	12/2/1993	--	c	87.91	--	--	--	2,100	32	3.8	2.2	17	3,700 d	--	PACE	--	--	---	---
	12/2/1993	--	--	87.91	14.94	--	72.97	790	3.4	0.5	10	<0.5	3,700 d	--	PACE	--	--	---	---
	6/22/1994	--	--	87.91	14.25	--	73.66	110	<0.5	<0.5	<0.5	<0.5	120 d	3.9	PACE	--	--	---	---
	1/10/1995	--	--	87.91	13.64	--	74.27	<50	<0.5	<0.5	0.6	1	--	4.3	ATI	--	--	---	---
6/21/1995	--	--	87.91	11.66	--	76.25	4,700	<10	<10	<10	<20	--	7.8	ATI	--	--	---	---	
12/27/1995	--	c	87.91	--	--	--	6,300	<25	<25	<25	<50	19,000	--	ATI	--	--	---	---	
12/27/1995	--	--	87.91	13.11	--	74.80	6,100	<25	<25	<25	<50	20,000	6.7	ATI	--	--	---	---	
6/13/1996	--	c	87.91	--	--	--	8,700	<5	<5	<5	<5	13,000	--	SPL	--	--	---	---	

Table 1

Groundwater Elevation and Analytical Data

Former BP Station No. 11102
100 MacArthur Blvd., Oakland, CA

Well No.	Date	P/ NP	Foot Note	TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	DRO/TPH-d (µg/L)	TOG (µg/L)	HVOC (µg/L)
MW-2	6/13/1996	--	--	87.91	10.86	--	77.05	8,300	<2.5	<2.5	<2.5	<2.5	13,000	6.5	SPL	--	--	---	---
	12/4/1996	--	c	87.91	--	--	--	5,900	<2.5	<5	<5	<5	11,000	--	SPL	--	--	---	---
	12/4/1996	--	--	87.91	13.03	--	74.88	5,900	<2.5	<5	<5	<5	11,000	6.3	SPL	--	--	---	---
	6/10/1997	--	--	87.91	10.04	--	77.87	<50	<0.5	<1.0	<1.0	<1.0	<10	5.8	SPL	--	--	---	---
	12/12/1997	--	--	87.91	12.44	--	75.47	<50	<0.5	<1.0	<1.0	<1.0	<10	5.7	SPL	--	--	---	---
	6/18/1998	--	c	87.91	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	--	SPL	--	--	---	---
	6/18/1998	--	--	87.91	8.89	--	79.02	50	<0.5	<1.0	<1.0	<1.0	<10	5.3	SPL	--	--	---	---
	3/9/1999	--	--	87.91	10.20	--	77.71	15,000	<5.0	<5.0	<5.0	<5.0	23,000	--	SPL	--	--	---	---
	9/28/1999	--	--	87.91	11.81	--	76.10	36,000	<5.0	12	7	26	35,000	--	SPL	--	--	---	<5.0
	10/14/1999	--	--	87.91	10.27	--	77.64	--	--	--	--	--	--	--	SPL	--	100	---	---
	3/27/2000	--	--	87.91	9.98	--	77.93	1,300	<0.5	<0.5	0.51	<0.5	5,800	--	PACE	--	--	---	---
	9/28/2000	--	--	87.91	11.40	--	76.51	1,600	1.8	1.7	0.54	2.2	15,000	--	PACE	--	--	---	---
	3/8/2001	--	--	87.91	11.16	--	76.75	20,000	<0.5	<0.5	<0.5	<0.5	29,100	--	PACE	--	--	---	---
	9/21/2001	--	--	87.91	11.65	--	76.26	5,000	<0.5	<0.5	<0.5	<1.5	6,110	--	PACE	--	--	---	---
	2/28/2002	--	--	87.91	9.86	--	78.05	3,200	35.1	<0.5	<0.5	<1.0	4,620	--	PACE	--	--	---	---
	9/6/2002	--	*	87.91	12.32	--	75.59	1,900	<10	<10	<10	<10	15,000	--	SEQ	--	--	---	---
	2/19/2003	--	h	87.91	11.63	--	76.28	45,000	<250	<250	<250	<250	32,000	--	SEQ	--	--	---	---
	7/14/2003	--	--	87.91	12.07	--	75.84	9,300	<500	<500	<500	<500	24,000	--	SEQ	--	--	---	---
	01/14/2004	P	--	87.91	11.45	--	76.46	<50,000	<500	<500	<500	<500	21,000	--	SEQM	6.9	--	--	--
	04/23/2004	P	--	87.91	11.45	--	76.46	5,100	<250	<250	<250	<250	22,000	--	SEQM	6.8	--	--	--
	07/01/2004	P	--	87.91	12.32	--	75.59	<5,000	<50	<50	<50	<50	5,200	--	SEQM	5.6	--	--	--
MW-3	11/4/1989	--	--	87.02	15.40	--	71.62	<500	<0.3	<0.3	<0.3	<0.3	--	--	SAL	--	--	---	---
	11/11/1989	--	--	87.02	14.10	--	72.92	--	--	--	--	--	--	--	---	--	--	---	---
	4/3/1990	--	--	87.02	13.90	--	73.12	<100	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	---	---
	7/30/1990	--	--	87.02	13.77	--	73.25	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	<5000	---
	11/20/1990	--	--	87.02	14.67	--	72.35	<50	0.3	0.8	0.4	1.5	--	--	SAL	--	--	---	---
	3/1/1991	--	--	87.02	15.22	--	71.80	<100	0.4	<0.3	<0.3	<0.3	--	--	SAL	--	--	---	---
	8/19/1991	--	--	87.02	13.15	--	73.87	<30	<0.3	<0.3	<0.3	<0.3	--	--	SEQ	--	--	---	---
	11/13/1991	--	--	87.02	15.66	--	71.36	<30	<0.3	<0.3	<0.3	<0.3	--	--	SEQ	--	--	---	---
	2/24/1992	--	--	87.02	15.01	--	72.01	<50	0.65	1.4	0.66	4.4	--	--	SEQ	--	--	---	---
	5/19/1992	--	--	87.02	15.52	--	71.50	<50	<0.5	<0.5	<0.5	<0.5	--	--	SEQ	--	--	---	---
	7/22/1992	--	--	87.02	15.63	--	71.39	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	<50	<5000	---
	8/14/1992	--	--	87.02	13.57	--	73.45	--	--	--	--	--	--	--	---	--	--	---	---

Table 1

Groundwater Elevation and Analytical Data

Former BP Station No. 11102
100 MacArthur Blvd., Oakland, CA

Well No.	Date	P/ NP	Foot Note	TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	DRO/ TPH-d (µg/L)	TOG (µg/L)	HVOC (µg/L)
MW-3	11/11/1992	--	--	87.02	14.13	--	72.89	<50	<0.5	0.7	<0.5	1.3	--	--	ANA	--	--	---	---
	6/7/1993	--	--	87.02	12.13	--	74.89	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	---	---
	12/2/1993	--	--	87.02	13.29	--	73.73	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	---	---
	6/22/1994	--	--	87.02	12.78	--	74.24	<50	<0.5	<0.5	<0.5	<0.5	--	2.9	PACE	--	--	---	---
	1/10/1995	--	--	87.02	12.01	--	75.01	<50	<0.5	<0.5	<0.5	<1	--	3.8	ATI	--	--	---	---
	6/21/1995	--	--	87.02	11.57	--	75.45	<50	<0.50	<0.50	<0.50	<1.0	--	7.4	ATI	--	--	---	---
	12/27/1995	--	--	87.02	13.47	--	73.55	<50	<0.50	<0.50	<0.50	<1.0	5.7	7.3	ATI	--	--	---	---
	6/13/1996	--	--	87.02	11.22	--	75.80	60	<0.5	<0.5	<0.5	<0.5	<10	6.8	SPL	--	--	---	---
	12/4/1996	--	--	87.02	13.28	--	73.74	<50	<0.5	<1	<1	<1	<10	6.7	SPL	--	--	---	---
	6/10/1997	--	--	87.02	10.22	--	76.80	<50	<0.5	<1.0	<1.0	<1.0	<10	6.1	SPL	--	--	---	---
	12/12/1997	--	c	87.02	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	--	SPL	--	--	---	---
	12/12/1997	--	--	87.02	12.61	--	74.41	<50	<0.5	<1.0	<1.0	<1.0	<10	5.6	SPL	--	--	---	---
	6/18/1998	--	--	87.02	12.80	--	74.22	--	--	--	--	--	--	--	---	--	--	---	---
	6/18/1998	--	--	87.02	9.07	--	77.95	50	<0.5	<1.0	<1.0	<1.0	<10	5.3	SPL	--	--	---	---
	9/28/1999	--	--	87.02	13.76	--	73.26	--	--	--	--	--	--	--	---	--	--	---	---
	3/27/2000	--	--	87.02	13.77	--	73.25	<50	<0.5	<0.5	<0.5	<0.5	1.6	--	PACE	--	--	---	---
	9/28/2000	--	--	87.02	11.28	--	75.74	<50	<0.5	7.4	<0.5	1.3	2	--	PACE	--	--	---	---
	3/8/2001	--	--	87.02	11.75	--	75.27	<50	<0.5	<0.5	<0.5	<0.5	60.4	--	PACE	--	--	---	---
	9/21/2001	--	--	87.02	11.33	--	75.69	<50	<0.5	<0.5	<0.5	<1.5	8.18	--	PACE	--	--	---	---
	2/28/2002	--	--	87.02	10.86	--	76.16	<50	<0.5	<0.5	<0.5	<1.0	25.5	--	PACE	--	--	---	---
	9/6/2002	--	*	87.02	12.73	--	74.29	<50	1.2	<0.5	<0.5	1	16	--	SEQ	--	--	---	---
	2/19/2003	--	h	87.02	11.72	--	75.30	<500	<5.0	<5.0	<5.0	<5.0	110	--	SEQ	--	--	---	---
	7/14/2003	--	--	87.02	13.76	--	73.26	<50	<0.50	<0.50	<0.50	0.67	28	--	SEQ	--	--	---	---
	01/14/2004	P	--	87.02	14.83	--	72.19	550	<5.0	<5.0	<5.0	<5.0	380	--	SEQM	8.1	--	--	--
	04/23/2004	P	--	87.02	13.17	--	73.85	<200	<25	<25	<25	<25	560	--	SEQM	6.8	--	--	--
	07/01/2004	P	--	87.02	15.19	--	71.83	<50	<0.50	<0.50	<0.50	0.50	48	--	SEQM	6.4	--	--	--
QC-2	11/11/1992	--	g	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	---	---
	6/7/1993	--	g	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	---	---
	12/2/1993	--	g	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	---	---
	6/22/1994	--	g	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	---	---
	1/10/1995	--	g	--	--	--	--	<50	<0.5	<0.5	<0.5	<1	--	--	ATI	--	--	---	---
	6/21/1995	--	g	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	ATI	--	--	---	---
	12/27/1995	--	g	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	--	---	---

Table 1

Groundwater Elevation and Analytical Data

Former BP Station No. 11102
100 MacArthur Blvd., Oakland, CA

Well No.	Date	P/ NP	Foot Note	TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	DRO/ TPH-d (µg/L)	TOG (µg/L)	HVOC (µg/L)
QC-2	6/13/1996	--	g	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<10	--	SPL	--	--	---	---

Table 1
Groundwater Elevation and Analytical Data
Former BP Station No. 11102
100 MacArthur Blvd., Oakland, CA

Abbreviations:

TPH-g = Total petroleum hydrocarbons as gasoline
GRO = Gasoline Range Organics
TPH-d = Total petroleum hydrocarbons as diesel
DRO = Diesel Range Organics
GWE = Groundwater Elevation, feet above mean sea level
TOG = Total oil and grease
HVOC = Halogenated volatile organic compounds
MTBE = Methyl tert-butyl ether
DIPE = Di-Isopropyl Ether
EtBE = Ethyl tert-Butyl Ether
TAME = tert-Amyl Methyl Ether
DO = Dissolved oxygen
ug/l = Micrograms per liter
< = Not detected at or 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 = A copy of the documentation for this data is included in Appendix C of Alisto report 10-076-06-002.
e = Tetrachloroethene.
f = Trans-1,2-Dichloroethene
g = Travel blank.
h = TPH-g, BTEX, and MTBE analyzed by EPA Method 8260B beginning on 1st Quarter Sampling event (2/19/03)
i = Discrete peak @ C6-C7.
j = Please note that beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list. Total Petroleum Hydrocarbons as Gasoline (TPH-g) has been changed to Gasoline Range Organics (GRO). The resulting data may be impacted by the potential inclusion of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported.
k = Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12.
l = GRO analyzed by EPA Method 8015B
*The data within this table collected prior to June 2002 was provided to URS by Atlantic Richfield Company and their previous consultants. URS has not verified the accuracy of this information.

Table 2

Fuel Additives Analytical Data
 Former BP Station No. 11102
 100 MacArthur Blvd., Oakland, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MtBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-1	7/14/2003	<2000	2,700	940	<20	<20	<20	--	--
	01/14/2004	<1,000	2,500	220	<5.0	<5.0	<5.0	<5.0	<5.0
	04/23/2004	<500	2,500	150	<2.5	<2.5	<2.5	<2.5	<2.5
	07/01/2004	<500	2,000	96	<2.5	<2.5	<2.5	<2.5	<2.5
MW-2	7/14/2003	<100000	<20000	24,000	<1000	<1000	<1000	--	--
	01/14/2004	<100,000	<20,000	21,000	<500	<500	<500	<500	<500
	04/23/2004	<50,000	11,000	22,000	<250	<250	420	<250	<250
	07/01/2004	<10,000	2,900	5,200	<50	<50	110	<50	<50
MW-3	7/14/2003	<100	<20	28	<1.0	<1.0	<1.0	--	--
	01/14/2004	<1,000	<200	380	<5.0	<5.0	<5.0	<5.0	<5.0
	04/23/2004	<5,000	<1,000	560	<25	<25	<25	<25	<25
	07/01/2004	<100	<20	48	<0.50	<0.50	0.52	<0.50	<0.50

Table 2

Fuel Additives Analytical Data
Former BP Station No. 11102
100 MacArthur Blvd., Oakland, CA

Abbreviations:

ug/L = Micrograms per liter

< = Not detected at or above laboratory detection limit

TBA = tert-Butyl Alcohol

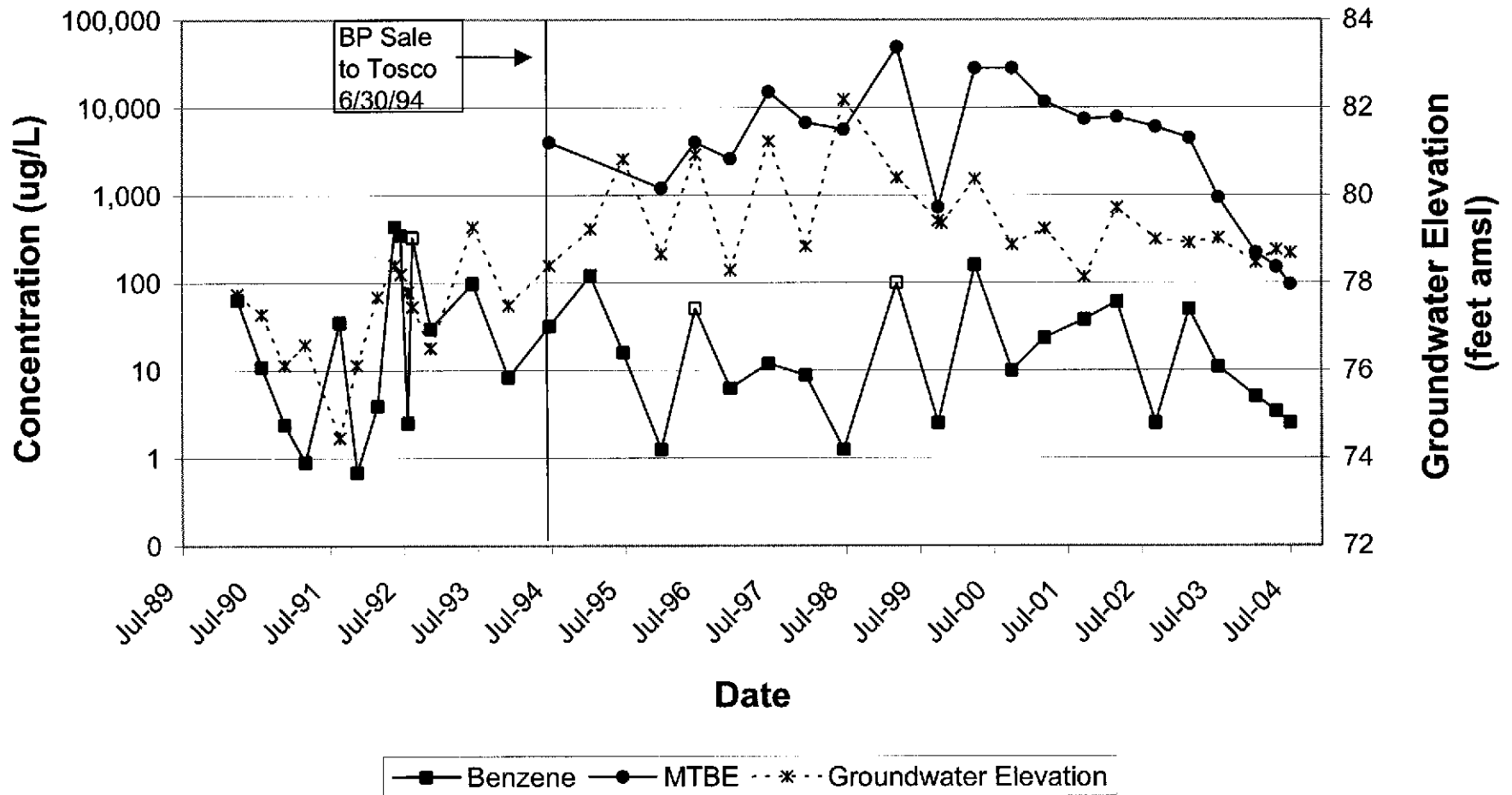
MtBE = Methyl tert butyl ether

DIPE = Di-Isopropyl Ether

EtBE = Ethyl t-Butyl Ether

TAME = tert-Amyl Methyl Ether

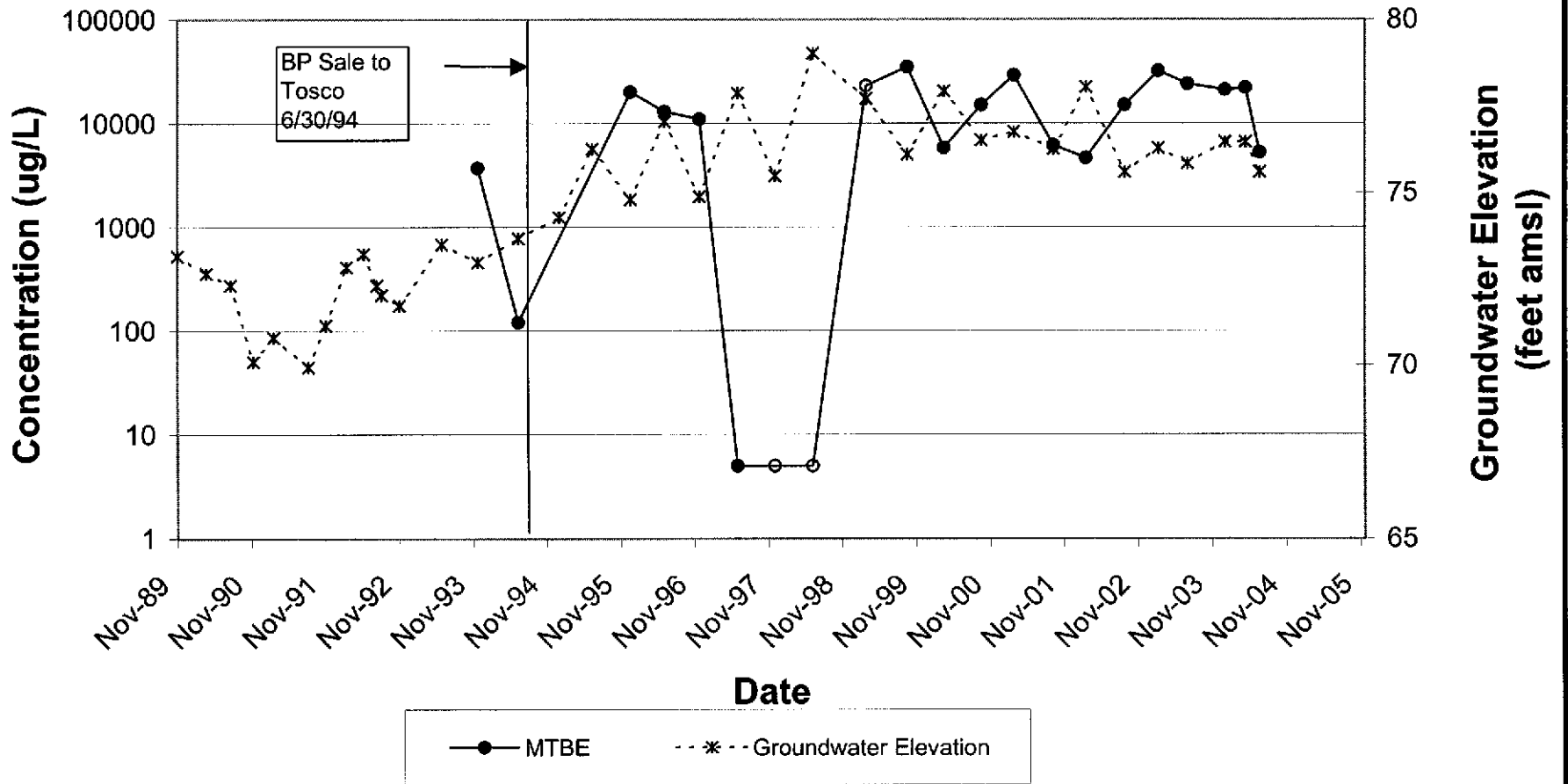
Concentration and Water Level Trends Well MW-1



Former BP Service Station #11102
100 MacArthur Blvd
Oakland, CA

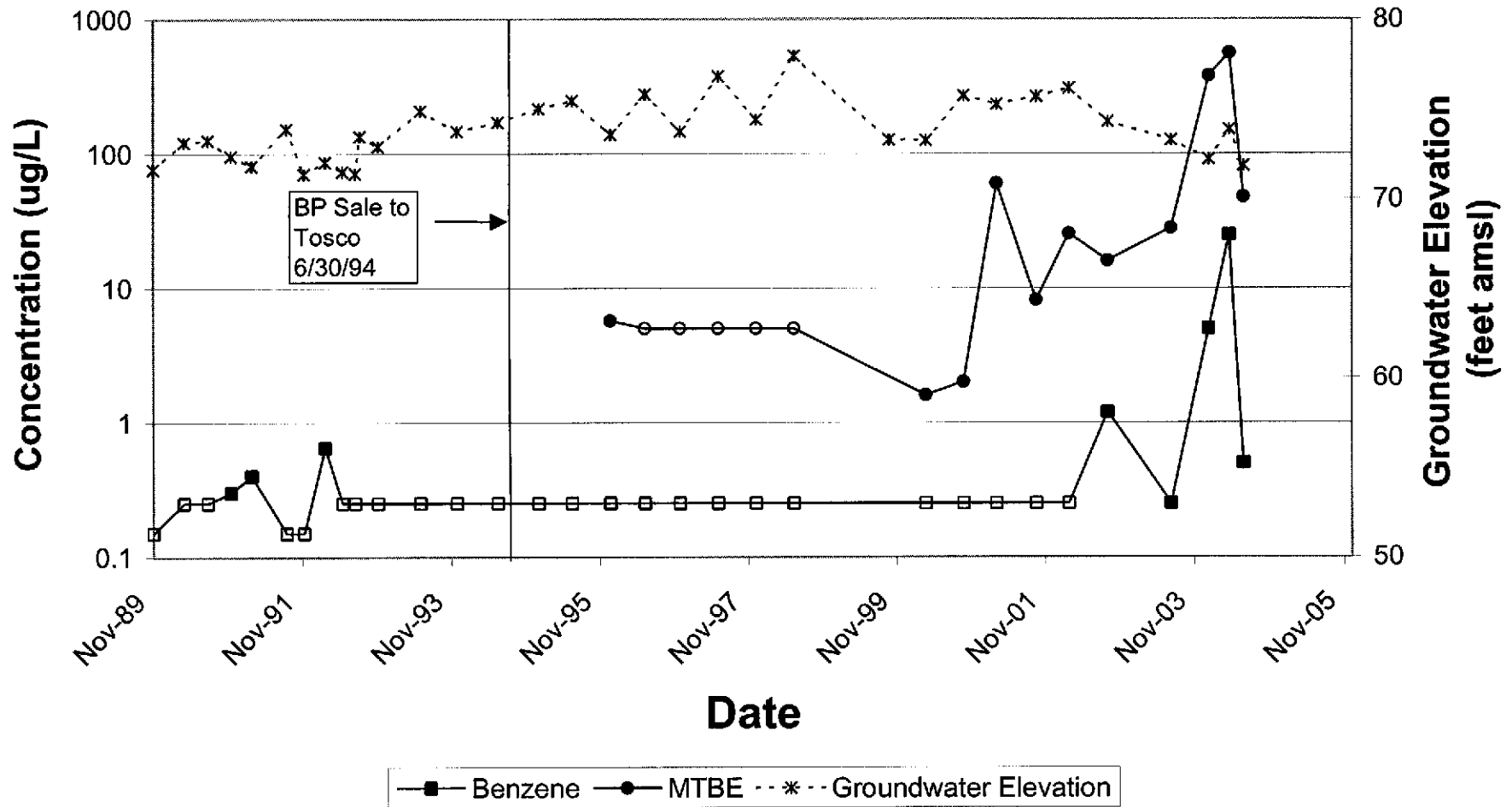
Chart 1

Concentration and Water Level Trends Well MW-2



Former BP Service Station #11102
 100 MacArthur Blvd
 Oakland, CA

Concentration and Water Level Trends Well MW-3



BP Oil Site No. 11102
100 MacArthur Boulevard
Oakland, California

ATTACHMENT A
FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

Sampling Procedures

The sampling procedure for each well consists first of measuring the water level and depth to bottom, and checking for the presence of free phase petroleum product (free product), using either an electronic indicator and a clear Teflon™ bailer or an oil-water interface probe.

Wells not containing free product are purged approximately three casing volumes of water (or until dewatered) using a centrifugal pump, gas displacement pump, or bailer. Equipment and purging method used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially (approximately 80%) recover. Groundwater samples (both purge and no purge) are collected using a Teflon bailer, placed into appropriate Environmental Protection Agency- (EPA) approved containers, labeled, logged onto chain-of-custody records, and transported on ice to a California State-certified laboratory. Wells with free product are not sampled and free product is removed according to California Code of Regulation, Title 23, Div. 3, Chap. 16, Section 2655, UST Regulations.

WELL GAUGING DATA

Project # 040701-PC1 Date 7/1/04 Client # 11102

Site 100 MacArthur Blvd., Oakland

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOO
MW-1	4					11.52	32.01	↓
MW-2	4					12.32	32.31 32.19	
MW-3	4					15.19	32.45	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040701-PC1	Station # BP 1102
Sampler: PC	Date: 7/1/04
Well I.D.: MW-1	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: 32.01	Depth to Water: 11.52
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input checked="" type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
---	---

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>13.3</u>	X	<u>3</u>	=	<u>40.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
948	66.0	6.5	724	13.5	clear
952	66.4	6.3	801	27	↓
955	64.9	6.0	798	29.40.5	

Did well dewater? Yes No Gallons actually evacuated: 40.5

Sampling Time: 1008 Sampling Date: 7/1/04

Sample I.D.: MW-1 Laboratory: Pace Sequoia Other _____

Analyzed for: GRO BTEX MTBE DRO Other: Orgs, EOB, 1,1,2-DCA & Ethanol by 8260

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
------------------	------------	------	-------------	------

O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV
--------------------	------------	----	-------------	----

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040701-PC1</u>	Station # <u>BP 1102</u>
Sampler: <u>PC</u>	Date: <u>7/1/04</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>32.31</u>	Depth to Water: <u>12.32</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVP</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input checked="" type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
---	---

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>13</u>	x	<u>3</u>	=	<u>39</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1018	68.0	5.5	620	13	clear
1021	68.1	5.8	728	26	↓
1025	67.1	5.6	800	39	

Did well dewater? Yes (No) Gallons actually evacuated: 39

Sampling Time: 1025 Sampling Date: 7/1/04

Sample I.D.: MW-2 Laboratory: Pace Sequoia Other _____

Analyzed for: ~~GRO~~ ~~BTEX~~ MTBE DRO Other: Oxyg, EOB, 1,2-DCA & Ethanol by 8260

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040701-AC1</u>	Station # <u>1102 BP</u>
Sampler: <u>PC</u>	Date: <u>7/1/04</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>⊕</u> 6 8 _____
Total Well Depth: <u>32.45</u>	Depth to Water: <u>15.19</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>RVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input checked="" type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
---	---

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>11.2</u>	x	<u>3</u>	=	<u>33.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
924	68.1	6.3	712	11.2	clear
926	68.5	6.4	649	22.4	↓
928	67.7	6.4	678	33.6	

Did well dewater? Yes <input type="checkbox"/> <input checked="" type="checkbox"/> No	Gallons actually evacuated: <u>33.6</u>
Sampling Time: <u>9:38</u>	Sampling Date: <u>7/1/04</u>
Sample I.D.: <u>MW-3</u>	Laboratory: Pace <u>See report</u> Other _____
Analyzed for: <u>GRO BTEX</u> MTBE DRO	Other: <u>Oxys, EDB, 1,2-DCA, Ethanol by 8260</u>
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

BP GEM OIL COMPANY TYPE A BILL OF LADING

SOURCE RECORD BILL OF LADING FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT BP GEM OIL COMPANY FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY DILLARD ENVIRONMENTAL TO THE ALTAMONT LANDFILL AND RESOURCE RECOVERY FACILITY IN LIVERMORE, CALIFORNIA.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BTS), 1680 Rogers Avenue, San Jose, CA 95112 (phone [408] 573-0555). Blaine Tech Services, Inc. is authorized by BP GEM OIL COMPANY to recover, collect, apportion into loads the Non-Hazardous Well Purgewater that is drawn from wells at the BP GEM Oil Company facility indicated below and deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one BP GEM facility to the designated destination point; from one BP GEM facility to the designated destination point via another BP GEM facility; from a BP GEM facility to the designated destination point via the contractor's facility, or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of BP GEM Oil Company.

This Source Record BILL OF LADING was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the BP GEM Oil Company facility described below:

BP 11102

Station #

100 MacArthur Blvd., Oakland

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

110

added equip. rinse water 10

any other adjustments _____

TOTAL GALS. RECOVERED 120

loaded onto BTS vehicle # 22

BTS event # 040701-PC1

time 1000 date 7/1/04

signature AA-GW

REC'D AT BTS

time _____ date / /

unloaded by signature _____

ATTACHMENT B

**LABORATORY PROCEDURES,
CERTIFIED ANALYTICAL REPORTS,
AND CHAIN-OF-CUSTODY RECORDS**

LABORATORY PROCEDURES

Laboratory Procedures

The groundwater samples were analyzed for the presence of the chemicals mentioned in the chain of custody using standard EPA methods. The methods of analysis for the groundwater samples are documented in the certified analytical report. The certified analytical reports and chain-of-custody record are presented in this attachment. The analytical data provided by the laboratory approved by Atlantic Richfield Company have been reviewed and verified by that laboratory.



19 July, 2004

Leonard Niles
URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland, CA 94612

RE: BP Heritage #11102, Oakland, CA
Work Order: MNG0067

Enclosed are the results of analyses for samples received by the laboratory on 07/02/04 13:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210



URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: BP Heritage #11102, Oakland, CA
Project Number: N/P
Project Manager: Leonard Niles

MNG0067
Reported:
07/19/04 16:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MNG0067-01	Water	07/01/04 10:08	07/02/04 13:15
MW-2	MNG0067-02	Water	07/01/04 10:35	07/02/04 13:15
MW-3	MNG0067-03	Water	07/01/04 09:38	07/02/04 13:15
TB-111027012004	MNG0067-04	Water	07/01/04 00:00	07/02/04 13:15

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies.

These samples were received with intact custody seals.

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: BP Heritage #11102, Oakland, CA
Project Number: N/P
Project Manager: Leonard Niles

MNG0067
Reported:
07/19/04 16:19

**Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MNG0067-01) Water Sampled: 07/01/04 10:08 Received: 07/02/04 13:15									
tert-Amyl methyl ether	ND	2.5	ug/l	5	4G12010	07/12/04	07/12/04	EPA 8260B	
Benzene	ND	2.5	"	"	"	"	"	"	
tert-Butyl alcohol	2000	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	96	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	360	250	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		116 %	78-129	"	"	"	"	"	
MW-2 (MNG0067-02) Water Sampled: 07/01/04 10:35 Received: 07/02/04 13:15									
tert-Amyl methyl ether	110	50	ug/l	100	4G12010	07/12/04	07/12/04	EPA 8260B	
Benzene	ND	50	"	"	"	"	"	"	
tert-Butyl alcohol	2900	2000	"	"	"	"	"	"	
Di-isopropyl ether	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	
Ethanol	ND	10000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Methyl tert-butyl ether	5200	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Xylenes (total)	ND	50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	5000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	78-129	"	"	"	"	"	

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MNG0067
Reported:
07/19/04 16:19

**Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-3 (MNG0067-03) Water Sampled: 07/01/04 09:38 Received: 07/02/04 13:15										
tert-Amyl methyl ether	0.52	0.50		ug/l	1	4G12010	07/12/04	07/12/04	EPA 8260B	
Benzene	ND	0.50		"	"	"	"	"	"	
tert-Butyl alcohol	ND	20		"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50		"	"	"	"	"	"	
Ethanol	ND	100		"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	ND	0.50		"	"	"	"	"	"	
Methyl tert-butyl ether	48	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Xylenes (total)	0.50	0.50		"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50		"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		106 %		78-129		"	"	"	"	

URS Corporation [Arco]
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 MNG0067
 Reported:
 07/19/04 16:19

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4G12010 - EPA 5030B P/T
Blank (4G12010-BLK1)

Prepared & Analyzed: 07/12/04

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.05</i>		<i>"</i>	<i>5.00</i>		<i>101</i>	<i>78-129</i>			

Laboratory Control Sample (4G12010-BS1)

Prepared & Analyzed: 07/12/04

tert-Amyl methyl ether	8.78	0.50	ug/l	10.0		88	56-140			
Benzene	8.85	0.50	"	10.0		88	78-124			
tert-Butyl alcohol	58.1	20	"	50.0		116	0-206			
Di-isopropyl ether	8.09	0.50	"	10.0		81	76-130			
1,2-Dibromoethane (EDB)	7.95	0.50	"	10.0		80	77-132			
1,2-Dichloroethane	7.69	0.50	"	10.0		77	77-136			
Ethanol	216	100	"	200		108	31-186			
Ethyl tert-butyl ether	7.72	0.50	"	10.0		77	61-141			
Ethylbenzene	8.28	0.50	"	10.0		83	84-117			QC02
Methyl tert-butyl ether	7.85	0.50	"	10.0		78	63-137			
Toluene	9.06	0.50	"	10.0		91	78-129			
Xylenes (total)	26.9	0.50	"	30.0		90	83-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.74</i>		<i>"</i>	<i>5.00</i>		<i>95</i>	<i>78-129</i>			

URS Corporation [Arco]
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 Oakland CA, 94612

 Project: BP Heritage #11102, Oakland, CA
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 MNG0067
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 07/19/04 16:19

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%RBC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4G12010 - EPA 5030B P/T
Laboratory Control Sample (4G12010-BS2)

Prepared & Analyzed: 07/12/04

Benzene	5.40	0.50	ug/l	6.40		84	78-124			
Ethylbenzene	7.27	0.50	"	6.96		104	84-117			
Methyl tert-butyl ether	7.65	0.50	"	9.92		77	63-137			
Toluene	33.8	0.50	"	29.7		114	78-129			
Xylenes (total)	39.8	0.50	"	33.7		118	83-125			
Gasoline Range Organics (C4-C12)	399	50	"	440		91	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.95</i>		"	<i>5.00</i>		<i>99</i>	<i>78-129</i>			

Laboratory Control Sample Dup (4G12010-BSD1)

Prepared & Analyzed: 07/12/04

tert-Amyl methyl ether	9.58	0.50	ug/l	10.0		96	56-140	9	12	
Benzene	9.02	0.50	"	10.0		90	78-124	2	12	
tert-Butyl alcohol	44.3	20	"	50.0		89	0-206	27	22	QC21
Di-isopropyl ether	8.60	0.50	"	10.0		86	76-130	6	9	
1,2-Dibromoethane (EDB)	8.94	0.50	"	10.0		89	77-132	12	9	QC21
1,2-Dichloroethane	8.12	0.50	"	10.0		81	77-136	5	13	
Ethanol	185	100	"	200		92	31-186	15	37	
Ethyl tert-butyl ether	8.42	0.50	"	10.0		84	61-141	9	9	
Ethylbenzene	8.05	0.50	"	10.0		80	84-117	3	10	QC02
Methyl tert-butyl ether	8.92	0.50	"	10.0		89	63-137	13	13	
Toluene	8.97	0.50	"	10.0		90	78-129	1	10	
Xylenes (total)	25.7	0.50	"	30.0		86	83-125	5	11	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.14</i>		"	<i>5.00</i>		<i>103</i>	<i>78-129</i>			

Matrix Spike (4G12010-MS1)

Source: MNG0055-06

Prepared & Analyzed: 07/12/04

Benzene	8.79	0.50	ug/l	6.40	3.8	78	78-124			
Ethylbenzene	7.10	0.50	"	6.96	0.29	98	84-117			
Methyl tert-butyl ether	28.4	0.50	"	9.92	15	135	63-137			
Toluene	34.3	0.50	"	29.7	0.13	115	78-129			
Xylenes (total)	38.8	0.50	"	33.7	ND	115	83-125			
Gasoline Range Organics (C4-C12)	835	50	"	440	500	76	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.32</i>		"	<i>5.00</i>		<i>106</i>	<i>78-129</i>			

URS Corporation [Arco]
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Project: BP Heritage #11102, Oakland, CA
Project Number: N/P
Project Manager: Leonard Niles

MNG0067
Reported:
07/19/04 16:19

**Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4G12010 - EPA 5030B P/T

Matrix Spike Dup (4G12010-MSD1)

Source: MNG0055-06

Prepared & Analyzed: 07/12/04

Benzene	8.64	0.50	ug/l	6.40	3.8	76	78-124	2	12	QM02
Ethylbenzene	6.99	0.50	"	6.96	0.29	96	84-117	2	10	
Methyl tert-butyl ether	20.0	0.50	"	9.92	15	50	63-137	35	13	QC20, QM02
Toluene	33.8	0.50	"	29.7	0.13	113	78-129	1	10	
Xylenes (total)	38.0	0.50	"	33.7	ND	113	83-125	2	11	
Gasoline Range Organics (C4-C12)	731	50	"	440	500	52	70-124	13	20	QM02
Surrogate: 1,2-Dichloroethane-d4	5.60		"	5.00		112	78-129			

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Project: BP Heritage #11102, Oakland, CA
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Notes and Definitions

- QM02 The spike recovery was below control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QC21 The RPD result exceeded the control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QC20 The RPD was outside control limits. The results may still be useful for their intended purpose.
- QC02 The percent recovery was below the control limits. The sample results may still be useful for their intended purpose.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



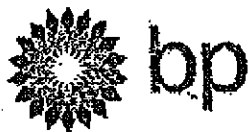
URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: BP Heritage #11102, Oakland, CA
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MNG0067
Reported:
07/19/04 16:19

EDF Notes and Definitions

Qualifier	LNote	LNote description
QM02	LN	MS and/or MSD below acceptance limits. See Blank Spike(LCS).
QC21	RB	RPD exceeded method control limit; % recoveries within limits.
QC20	BA	Relative percent difference out of control
OC02	HM	Analyte recovery below established limit



Chain of Custody Record

Project Name 1102 GWM

BP BU/GEM CO Portfolio Retail

BP Laboratory Contract Number: Atlantic Richfield Company

MNG 0047

Date: 7/10/04

Requested Due Date (mm/dd/yy) 14 day TAT

On-site Time: <u>830</u>	Temp: <u>60°F</u>
Off-site Time: <u>1050</u>	Temp: <u>60°F</u>
Sky Conditions: <u>cloudy</u>	
Meteorological Events: <u>none</u>	
Wind Speed:	Direction:

Send To:	BP/GEM Facility No.: <u>11102</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>100 MCARTHUR BLVD., OAKLAND, CA</u>	Address: <u>1333 Broadway, Suite 800</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>11102</u>	<u>Oakland, CA 94612</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long:	e-mail EDD: <u>donna.cosper@URSCorp.com</u>
Lab PM <u>Lisa Race</u>	California Global ID #: <u>T0800100908</u>	Consultant/Contractor Project No.:
Tele/Fax: <u>408-776-9600 / 408-782-6308</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3268</u>
Report Type & QC Level: <u>1 Send EDF Reports</u>	Address: <u>P.O. Box 6549</u>	Consultant/Contractor PM: <u>Leonard Niles</u>
BP/GEM Account No.: <u>400-6-21124</u>	<u>Moraga, CA 94570</u>	Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one)
	Tele/Fax: <u>925-299-8891/925-299-8872</u>	BP/GEM Work Release No.:

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis						Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	GRO/BTEX (\$260)	DRO w/SC (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE (\$260)	DIPE, TBA (\$260)	
1	MW-1	1008		X			01	3					X			X	X	X	
2	MW-2	1035		X			02	3					X			X	X	X	
3	MW-3	938		X			03	3					X			X	X	X	
4	TB-1102 201204	-		X			04	2											on hold
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>Peter Cornish</u>	Relinquished By / Affiliation: <u>URS</u>	Date: <u>7/2/04</u>	Time: <u>11:50</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>7/2/04</u>	Time: <u>13:15</u>
Sampler's Company: <u>Blaine Tech</u>						
Shipment Date:						
Shipment Method:						
Shipment Tracking No.:						

Special Instructions: Address Invoice to BP/GEM but send to URS for approval

Seals In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt 6.0°F Trip Blank Yes No

ATTACHMENT C

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

08/19/04

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	BP Heritage #11102, Oakla
Work Order Number:	MNG0067
Global ID:	T0600100908
Lab Report Number:	MNG0067071920041619

Report Summary

Labreport	Sampled	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
MNG0067071920 041619	MW-1	MNG006701	W	CS	8260FA	SW5030B	07/01/04	07/12/04	07/12/04	4G12010	1	
MNG0067071920 041619	MW-2	MNG006702	W	CS	8260FA	SW5030B	07/01/04	07/12/04	07/12/04	4G12010	1	
MNG0067071920 041619	MW-3	MNG006703	W	CS	8260FA	SW5030B	07/01/04	07/12/04	07/12/04	4G12010	1	
		MNG005506	W	NC	8260FA	SW5030B	//	07/12/04	07/12/04	4G12010	1	
		4G12010BSD1	WQ	BD1	8260FA	SW5030B	//	07/12/04	07/12/04	4G12010	1	
		4G12010BS1	WQ	BS1	8260FA	SW5030B	//	07/12/04	07/12/04	4G12010	1	
		4G12010BS2	WQ	BS2	8260FA	SW5030B	//	07/12/04	07/12/04	4G12010	1	
		4G12010BLK1	WQ	LB1	8260FA	SW5030B	//	07/12/04	07/12/04	4G12010	1	
		4G12010MS1	W	MS1	8260FA	SW5030B	//	07/12/04	07/12/04	4G12010	1	
		4G12010MSD1	W	SD1	8260FA	SW5030B	//	07/12/04	07/12/04	4G12010	1	

EDFSAMP: Error Summary Log

08/19/04

Error type	Logcode	Projname	Npdlwo	Sampid	Matrix
There are no errors in this data file					

EDFTEST: Error Summary Log

08/19/04

Error type	Labsampid	Qccode	Anmcode	Exmcode	Anadate	Run number
There are no errors in this data file					//	0

EDFRES: Error Summary Log

08/19/04

Error type	Labsampid	Qcocode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	4G12010MS1	MS1	W	8260FA	PR	07/12/04	1	BZ
Warning: extra parameter	4G12010MS1	MS1	W	8260FA	PR	07/12/04	1	BZME
Warning: extra parameter	4G12010MS1	MS1	W	8260FA	PR	07/12/04	1	DCA12D4
Warning: extra parameter	4G12010MS1	MS1	W	8260FA	PR	07/12/04	1	EBZ
Warning: extra parameter	4G12010MS1	MS1	W	8260FA	PR	07/12/04	1	GROC4C12
Warning: extra parameter	4G12010MS1	MS1	W	8260FA	PR	07/12/04	1	XYLENES
Warning: extra parameter	4G12010MSD1	SD1	W	8260FA	PR	07/12/04	1	BZ
Warning: extra parameter	4G12010MSD1	SD1	W	8260FA	PR	07/12/04	1	BZME
Warning: extra parameter	4G12010MSD1	SD1	W	8260FA	PR	07/12/04	1	DCA12D4
Warning: extra parameter	4G12010MSD1	SD1	W	8260FA	PR	07/12/04	1	EBZ
Warning: extra parameter	4G12010MSD1	SD1	W	8260FA	PR	07/12/04	1	GROC4C12
Warning: extra parameter	4G12010MSD1	SD1	W	8260FA	PR	07/12/04	1	XYLENES
Warning: extra parameter	MNG005506	NC	W	8260FA	PR	07/12/04	1	BZ
Warning: extra parameter	MNG005506	NC	W	8260FA	PR	07/12/04	1	BZME
Warning: extra parameter	MNG005506	NC	W	8260FA	PR	07/12/04	1	DCA12D4
Warning: extra parameter	MNG005506	NC	W	8260FA	PR	07/12/04	1	EBZ
Warning: extra parameter	MNG005506	NC	W	8260FA	PR	07/12/04	1	GROC4C12
Warning: extra parameter	MNG005506	NC	W	8260FA	PR	07/12/04	1	XYLENES
Warning: extra parameter	MNG006701	CS	W	8260FA	PR	07/12/04	1	BZ
Warning: extra parameter	MNG006701	CS	W	8260FA	PR	07/12/04	1	BZME
Warning: extra parameter	MNG006701	CS	W	8260FA	PR	07/12/04	1	DCA12D4
Warning: extra parameter	MNG006701	CS	W	8260FA	PR	07/12/04	1	EBZ
Warning: extra parameter	MNG006701	CS	W	8260FA	PR	07/12/04	1	GROC4C12
Warning: extra parameter	MNG006701	CS	W	8260FA	PR	07/12/04	1	XYLENES
Warning: extra parameter	MNG006702	CS	W	8260FA	PR	07/12/04	1	BZ

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MNG006702	CS	W	8260FA	PR	07/12/04	1	BZME
Warning: extra parameter	MNG006702	CS	W	8260FA	PR	07/12/04	1	DCA12D4
Warning: extra parameter	MNG006702	CS	W	8260FA	PR	07/12/04	1	EBZ
Warning: extra parameter	MNG006702	CS	W	8260FA	PR	07/12/04	1	GROC4C12
Warning: extra parameter	MNG006702	CS	W	8260FA	PR	07/12/04	1	XYLENES
Warning: extra parameter	MNG006703	CS	W	8260FA	PR	07/12/04	1	BZ
Warning: extra parameter	MNG006703	CS	W	8260FA	PR	07/12/04	1	BZME
Warning: extra parameter	MNG006703	CS	W	8260FA	PR	07/12/04	1	DCA12D4
Warning: extra parameter	MNG006703	CS	W	8260FA	PR	07/12/04	1	EBZ
Warning: extra parameter	MNG006703	CS	W	8260FA	PR	07/12/04	1	GROC4C12
Warning: extra parameter	MNG006703	CS	W	8260FA	PR	07/12/04	1	XYLENES
Warning: extra parameter	4G12010BLK1	LB1	WQ	8260FA	PR	07/12/04	1	BZ
Warning: extra parameter	4G12010BLK1	LB1	WQ	8260FA	PR	07/12/04	1	BZME
Warning: extra parameter	4G12010BLK1	LB1	WQ	8260FA	PR	07/12/04	1	DCA12D4
Warning: extra parameter	4G12010BLK1	LB1	WQ	8260FA	PR	07/12/04	1	EBZ
Warning: extra parameter	4G12010BLK1	LB1	WQ	8260FA	PR	07/12/04	1	GROC4C12
Warning: extra parameter	4G12010BLK1	LB1	WQ	8260FA	PR	07/12/04	1	XYLENES
Warning: extra parameter	4G12010BS1	BS1	WQ	8260FA	PR	07/12/04	1	BZ
Warning: extra parameter	4G12010BS1	BS1	WQ	8260FA	PR	07/12/04	1	BZME
Warning: extra parameter	4G12010BS1	BS1	WQ	8260FA	PR	07/12/04	1	DCA12D4
Warning: extra parameter	4G12010BS1	BS1	WQ	8260FA	PR	07/12/04	1	EBZ
Warning: extra parameter	4G12010BS1	BS1	WQ	8260FA	PR	07/12/04	1	XYLENES
Warning: extra parameter	4G12010BS2	BS2	WQ	8260FA	PR	07/12/04	1	BZ
Warning: extra parameter	4G12010BS2	BS2	WQ	8260FA	PR	07/12/04	1	BZME
Warning: extra parameter	4G12010BS2	BS2	WQ	8260FA	PR	07/12/04	1	DCA12D4
Warning: extra parameter	4G12010BS2	BS2	WQ	8260FA	PR	07/12/04	1	EBZ
Warning: extra parameter	4G12010BS2	BS2	WQ	8260FA	PR	07/12/04	1	GROC4C12
Warning: extra parameter	4G12010BS2	BS2	WQ	8260FA	PR	07/12/04	1	XYLENES
Warning: extra parameter	4G12010BSD1	BD1	WQ	8260FA	PR	07/12/04	1	BZ

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	4G12010BSD1	BD1	WQ	8260FA	PR	07/12/04	1	BZME
Warning: extra parameter	4G12010BSD1	BD1	WQ	8260FA	PR	07/12/04	1	DCA12D4
Warning: extra parameter	4G12010BSD1	BD1	WQ	8260FA	PR	07/12/04	1	EBZ
Warning: extra parameter	4G12010BSD1	BD1	WQ	8260FA	PR	07/12/04	1	XYLENES
Error: LNOTE has an invalid note	4G12010MSD1	SD1	W	8260FA	PR	07/12/04	1	BZ
Error: LNOTE has an invalid note	4G12010MSD1	SD1	W	8260FA	PR	07/12/04	1	GROC4C12
Error: LNOTE has an invalid note	4G12010MSD1	SD1	W	8260FA	PR	07/12/04	1	MTBE
Error: LNOTE has an invalid note	4G12010MSD1	SD1	W	8260FA	PR	07/12/04	1	MTBE

EDFQC: Error Summary Log

08/19/04

Error type	Lablotcti	Anmcode	Parlabel	Qccode	Labqcid
There are no errors in this data files					

EDFCL: Error Summary Log

08/19/04

Error type	Clevdate	Anmcode	Exmcode	Parlabel	Cicode
There are no errors in this data file	//				

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Confirmation Number: 2416876912
Date/Time of Submittal: 8/19/2004 3:52:12 PM
Facility Global ID: T0600100908
Facility Name: BP
Submittal Title: 3rd Qtr 2004 Monitoring Report #11102
Submittal Type: GW Monitoring Report

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BP 100 MACARTHUR BLVD OAKLAND, CA 94610	Regional Board - Case #: 01-0985 SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) Local Agency (lead agency) - Case #: 1108 ALAMEDA COUNTY LOP - (UNK)
--	--

CONF #	TITLE	QUARTER
2416876912	3rd Qtr 2004 Monitoring Report #11102	Q3 2004
SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	8/19/2004	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	3
# FIELD POINTS WITH DETECTIONS	3
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	2
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES DBFM TO BE TESTED	
- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	N
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

SAMPLE	COLLECTED	DETECTIONS > REPD
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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