

October 29, 2004

Mr. Robert Schultz
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

**Re: Third Quarter 2004 Groundwater Monitoring Report
ARCO Service Station #4977
2770 Castro Valley Blvd
Castro Valley, California
URS Project #38486724**

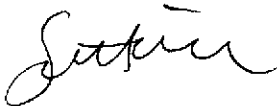
Dear Mr. Schultz:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *Third Quarter 2004 Groundwater Monitoring Report* for ARCO Service Station #4977, located at 2770 Castro Valley Blvd, Castro Valley, California.

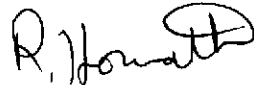
If you have any questions regarding this submission, please call (510) 874-3280.

Sincerely,

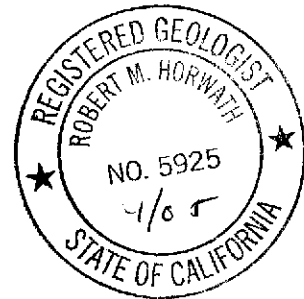
URS CORPORATION



Scott Robinson
Project Manager



Robert Horwath, R.G.
Portfolio Manager



Enclosure: Third Quarter 2004 Groundwater Monitoring Report

cc: Mr. Paul Supple, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS

R E P O R T

**THIRD QUARTER 2004
GROUNDWATER MONITORING**

ARCO SERVICE STATION #4977
2770 CASTRO VALLEY BLVD
CASTRO VALLEY, CALIFORNIA

Prepared for
RM

October 29, 2004

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

38486724

Date: October 29, 2004
Quarter: 3Q 04

RM QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 4977 Address: 2770 Castro Valley Blvd, Castro Valley, CA
RM Environmental Business Manager: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Consultant Project No.: 38486724
Primary Agency: Alameda County Environmental Health (ACEH)

WORK PERFORMED THIS QUARTER (Third – 2004):

1. Performed third quarter groundwater monitoring event on September 22, 2004.
2. Prepared and submitted second quarter 2004 groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (Fourth – 2004):

1. Prepare and submit this third quarter 2004 groundwater monitoring report.
2. Perform fourth quarter groundwater monitoring event.
3. Prepare and submit fourth quarter 2004 groundwater monitoring report.

Current Phase of Project: Groundwater monitoring/sampling
Frequency of Groundwater Sampling: Quarterly: Wells MW-1 through MW-3
Frequency of Groundwater Monitoring: Quarterly
Is Free Product (FP) Present On-Site: No
Current Remediation Techniques: Natural Attenuation
Approximate Depth to Groundwater: 7.63 ft (MW-2) to 9.42 ft (MW-1)
Groundwater Gradient (direction): South
Groundwater Gradient (magnitude): 0.025 feet per foot

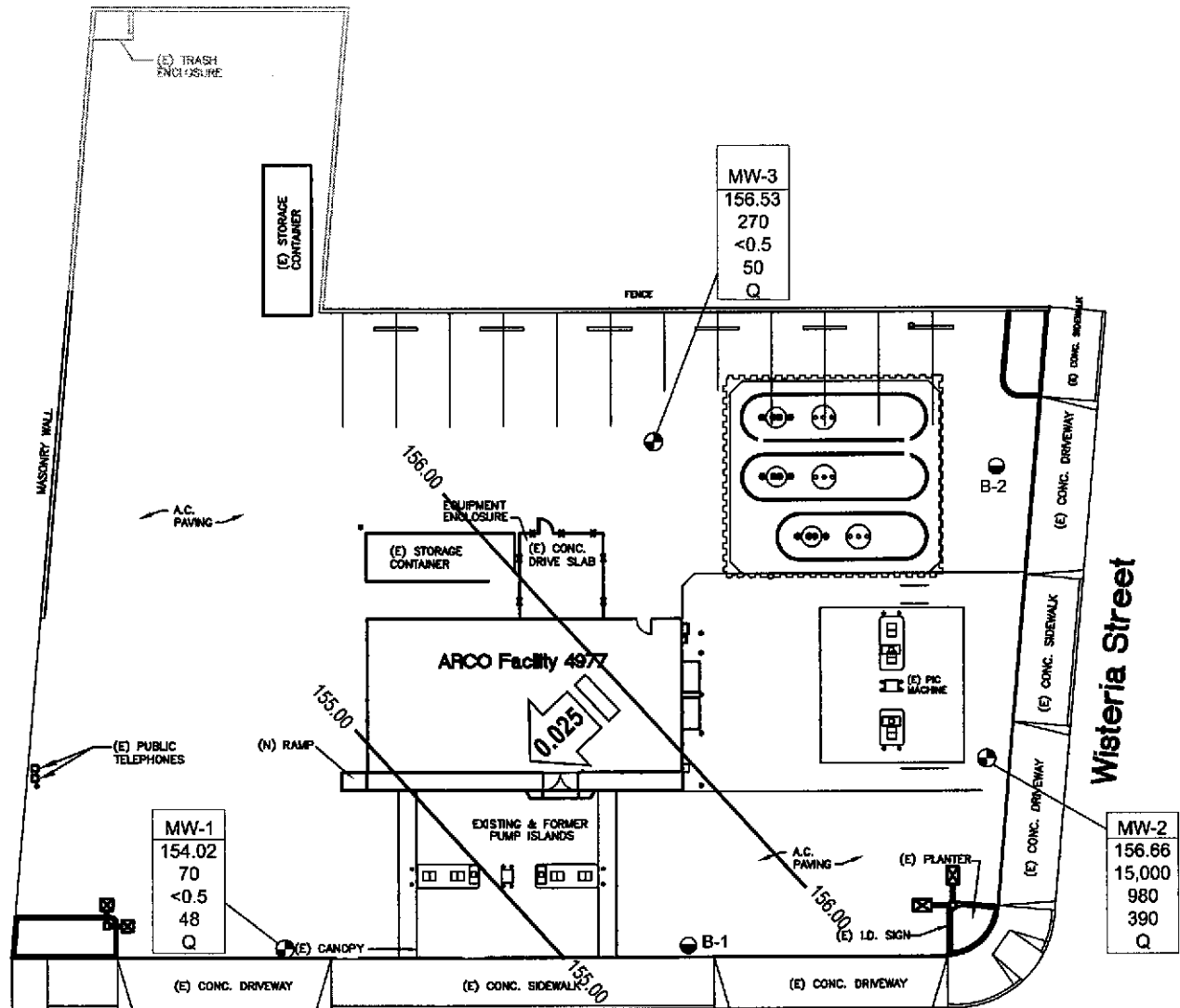
DISCUSSION:

Gasoline range organics (GRO) were detected above laboratory reporting limits in the three wells sampled this quarter at concentrations ranging from 70 µg/L (MW-1) to 15,000 µg/L (MW-2). Benzene was detected above laboratory reporting limits in one well (MW-2) at concentrations of 980 µg/L. Methyl-tert-butyl ether (MTBE) was detected above laboratory reporting limits in all three wells at concentrations ranging from 48 µg/L (MW-1) to 390 µg/L (MW-2). Tert-butyl alcohol (TBA) and tert-amyl methyl ether (TAME) were both detected above laboratory reporting limits in well MW-3 at concentrations of 28 µg/L and 0.51 µg/L, respectively.

ATTACHMENTS:

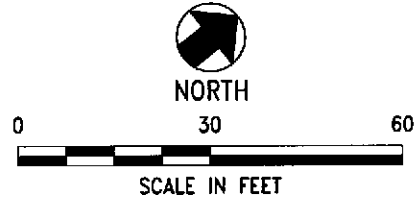
- Figure 1 - Groundwater Elevation Contour and Analytical Summary Map – September 22, 2004
- Table 1 - Groundwater Elevation and Analytical Data
- Table 2 - Groundwater Flow Direction and Gradient
- Table 3 - Fuel Additives Analytical Data
- Attachment A - Field Procedures and Field Data Sheets
- Attachment B - Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records
- Attachment C – Error Check Report and EDF/Geowell Submittal Confirmation

Dec 28, 2004 - 10:36am
 K:\x_env\waste\BP_GEM\Stes\Scott Robinson\Paul Supple\4977\Monitoring\Gtr_3_2004\Drawings\GVEE-AS_6-2-04.dwg



LEGEND

- MONITORING WELL
- SOIL BORING
- Well** WELL DESIGNATION
- ELEV** GROUNDWATER ELEVATION (FT ABOVE MSL)
- GRO** CONCENTRATION OF GRO, BENZENE AND MTBE IN GROUNDWATER (µg/L)
- Benzene**
- MTBE**
- Q** SAMPLING FREQUENCY
- ND< NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS
- Q SAMPLED QUARTERLY
- 155.00 GROUNDWATER ELEVATION CONTOUR (FT ABOVE MSL)
- GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)



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

URS	Project No. 38486724	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Third Quarter 2004 (September 22, 2004)	FIGURE 1
	Arco Service Station #4977 2770 Castro Valley Boulevard Castro Valley, California		

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #4977
2770 Castro Valley Boulevard
Castro Valley, California

Sample ID	Date	Top of Casing Elevation (ft amsl)	Depth to Top of Screen (ft., bgs)	Depth of Well/Bottom of Screen (ft., bgs)	Depth to Groundwater (ft btc)	Groundwater Elevation (ft amsl)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen ^c (mg/L)	pH ^c	
MW-1	04/19/02	161.11	5.0	15.0	11.21	149.90	660	12	1.3	4.3	0.80	38	NA	NA	
	09/27/02				9.29	151.82	130	7.7	0.87	5.4	0.79	39	1.7	6.9	
	12/16/02 ^a				8.55	152.56	77	1.8	ND<0.50	0.69	ND<1.0	42	1.6	6.9	
	03/11/03				8.07	153.04	140	9.8	ND<0.50	5.6	ND<0.50	20	1.4	7.4	
	06/17/03				8.31	152.80	510	60	1.4	81	ND<1.0	23	2.2	7.0	
	09/18/03 ^b				9.45	151.66	72	2.4	1.4	1.6	1.5	39	2.7	7.0	
	12/11/03				8.80	152.31	79	1.5	ND<0.50	1.5	4.4	48	2.1	7.0	
	3/11/2004 ^d				163.44	7.61	155.83	ND<50	1.3	ND<0.50	0.77	1.3	17	1.4	6.8
	06/02/04				8.95	154.49	53	1.4	ND<0.50	0.93	ND<0.50	39	2.3	7.1	
	09/22/04	9.42	154.02	70	ND<0.50	ND<0.50	ND<0.50	ND<0.50	48	1.7	6.8				
MW-2	04/19/02	161.87	5.0	15.0	6.59	155.28	28,000	970	120	860	6,900	760	NA	NA	
	09/27/02				7.18	154.69	17,000	1,400	ND<50	1,200	3,700	1,400	1.5	6.8	
	12/16/02 ^a				7.31	154.56	17,000	1,000	ND<50	980	3,300	980	1.9	6.8	
	03/11/03				6.02	155.85	24,000	1,600	70	1,300	4,300	920	1.7	7.4	
	06/17/03				6.31	155.56	28,000	1,300	55	1,300	4,500	610	1.4	6.9	
	09/18/03				7.61	154.26	19,000	960	63	1,100	3,100	580	2.7	6.8	
	12/11/03				6.50	155.37	29,000	710	53	1,300	3,800	490	2.0	7.0	
	3/11/2004 ^d				164.29	6.02	158.27	19,000	830	49	1,500	4,000	410	0.8	6.5
	06/02/04				7.14	157.15	25,000	680	ND<50	1,300	3,900	240	4.3	7.1	
	09/22/04	7.63	156.66	15,000	980	ND<25	980	940	390	--	6.7				
MW-3	04/19/02	162.14	5.0	15.0	6.94	155.20	1,200	29	1.1	43	62	1,700	NA	NA	
	09/27/02				8.26	153.88	740	7.8	ND<2.5	6.8	4.4	1,100	1.0	6.7	
	12/16/02 ^a				6.76	155.38	1,200	13	ND<10	170	88	910	2.3	6.8	
	03/11/03				6.92	155.22	ND<2,500	ND<25	ND<25	ND<25	ND<25	470	1.7	7.5	
	06/17/03				7.44	154.70	ND<1,000	ND<10	ND<10	14	ND<10	530	1.9	7.0	
	09/18/03				8.43	153.71	470	4.8	ND<2.5	10	9.2	300	2.9	6.8	
	12/11/03				6.72	155.42	ND<500	ND<5.0	ND<5.0	7.0	13	180	1.9	6.9	
	3/11/2004 ^d				164.53	6.09	158.44	360	1.9	ND<1.0	5.6	5.0	110	2.6	6.8
	06/02/04				7.50	157.03	380	2.8	ND<5.0	8.0	2.1	43	3.6	7.3	
	09/22/04	8.00	156.53	270	ND<5.0	ND<5.0	0.54	ND<5.0	50	1.8	6.9				

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #4977
2770 Castro Valley Boulevard
Castro Valley, California

Notes:

Please note that beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list. Total Petroleum Hydrocarbons as Gasoline (TPHg) has been changed to Gasoline Range Organics (GRO). The resulting data may be impacted by the potenti

amsl = above mean sea level

bgs = below ground surface

btc = below top of casing

ft = feet

GRO = Gasoline Range Organics C6 - C10 Range

mg/L = milligrams per liter

MTBE = Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted. (before 12/16/02)

ND< = Not detected at or above laboratory reporting limits

TPH-g = Total petroleum hydrocarbons in the gasoline range (C5-C9).

µg/L = micrograms per liter

a =TPH, BTEX, and MTBE analyzed by EPA Method 8260B beginning on 4th Quarter Sampling event (12/16/02)

b = This sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. The results may still be used for their intended purpose.

c = Dissolved oxygen and pH are field measurements.

d = Wells re-survey on 03/23/04

Source : The data within this table collected prior to September 2002 was provided to URS by RM and their previous consultants. URS has not verified the accuracy of this information.

Table 2
Groundwater Flow Direction and Gradient

ARCO Service Station #4977
2770 Castro Valley Boulevard
Castro Valley, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
04/19/02	Southwest	0.038
09/27/02	Southwest	0.021
12/16/02	Southeast	0.029
03/11/03	South	0.024
06/17/03	South-Southwest	0.022
09/18/03	South-Southwest	0.022
12/11/03	South-Southwest	0.024
03/11/04	South-Southwest	0.024
06/02/04	South	0.025
09/22/04	South	0.025

Source : The data within this table collected prior to September 2002 was provided to URS by RM and their previous consultants. URS has not verified the accuracy of this information.

**Table 3
Fuel Oxygenate Analytical Data**

ARCO Service Station #4977
2770 Castro Valley Boulevard
Castro Valley, California

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	12/16/02	ND<50	ND<5.0	42	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	03/11/03	ND<100	ND<20	20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	06/17/03	ND<200	ND<40	23	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
	09/18/03 ^a	ND<100	ND<20	39	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	12/11/03	ND<100	ND<20	48	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	03/11/04	ND<100	ND<20	17	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	06/02/04	ND<100	ND<20	39	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	09/22/04	ND<100	ND<20	48	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-2	12/16/02	ND<5,000	ND<500	980	ND<50	ND<50	ND<50	ND<50	ND<50
	03/11/03	ND<10,000	ND<2,000	920	ND<50	ND<50	ND<50	ND<50	ND<50
	06/17/03	ND<10,000	ND<2,000	610	ND<50	ND<50	ND<50	ND<50	ND<50
	09/18/03	ND<5,000	ND<1,000	580	ND<25	ND<25	ND<25	ND<25	ND<25
	12/11/03	ND<5,000	ND<1,000	490	ND<25	ND<25	ND<25	ND<25	ND<25
	03/11/04	ND<2,000	ND<400	410	ND<10	ND<10	ND<10	ND<10	ND<10
	06/02/04	ND<10,000	ND<2,000	240	ND<50	ND<50	ND<50	ND<50	ND<50
	09/22/04	ND<5,000	ND<1,000	390	ND<25	ND<25	ND<25	ND<25	ND<25
MW-3	12/16/02	ND<1,000	ND<100	910	ND<10	ND<10	12	ND<10	ND<10
	03/11/03	ND<5,000	ND<1,000	470	ND<25	ND<25	ND<25	ND<25	ND<25
	06/17/03	ND<2,000	ND<400	530	ND<10	ND<10	ND<10	ND<10	ND<10
	09/18/03	ND<500	ND<100	300	ND<2.5	ND<2.5	3.2	ND<2.5	ND<2.5
	12/11/03	ND<1,000	ND<200	180	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	03/11/04	ND<200	570	110	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
	06/02/04	ND<100	130	43	ND<0.50	ND<0.50	0.56	ND<0.50	ND<0.50
	09/22/04	ND<100	28	50	ND<0.50	ND<0.50	0.51	ND<0.50	ND<0.50

Note = All fuel oxygenate compounds analyzed using EPA Method 8260B
1,2-DCE = 1,2-Dichloroethane
DIPE = Di-isopropyl ether
EDB = 1, 2 Dibromoethane
ETBE = Ethyl tert butyl ether
MTBE = Methyl tert-butyl ether
ND< = Not detected at or above laboratory reporting limit
TAME = tert-Amyl methyl ether
TBA = tert-Butyl alcohol
µg/L = micrograms per liter

a = This sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. The results may still be used for their intended purpose. For more details see Attachment B.

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.

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040922-DA2	Station # Arco 4977
Sampler: DA / WC	Date: 9/22/04
Well I.D.: MW-1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 15.02	Depth to Water: 9.92
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: Bailer Sampling Method: Bailer

Disposable Bailer Disposable Bailer

Positive Air Displacement Extraction Port

Electric Submersible Other: _____

Extraction Pump

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>3.6</u>	x	<u>3</u>	=	<u>10.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1445	77.7	6.7	1007	4	
1446	76.9	6.8	1107	8	
1447	76.6	6.8	1140	11	

Did well dewater? Yes No Gallons actually evacuated: 11

Sampling Time: 1450 Sampling Date: 9/22/04

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

Analyzed for: GRO BTEX MTBE DRO Other: see COC

D.O. (if req'd):	Pre-purge:	$\frac{mg}{L}$	Post-purge:	<u>1.7</u>	$\frac{mg}{L}$
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040922-DA2</u>	Station # <u>Arco 4977</u>
Sampler: <u>NA / WC</u>	Date: <u>9/22/04</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>14.76</u>	Depth to Water: <u>7.53</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVS)</u> Grade	D.O. Meter (if req'd): <u>(YSI)</u> 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>4.7</u>	x	<u>3</u>	=	<u>14.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1517	78.5	6.7	850.2	5	grey, cloudy, odor
1518	77.8	6.7	870.6	10	
1519	78.6	6.7	874.3	15	

Did well dewater? Yes No Gallons actually evacuated: 15

Sampling Time: 1524 Sampling Date: 9/22/04

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

Analyzed for: GRO BTEX MTBE DRO Other: see COL

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
			<u>0.8</u>	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040922-DA2</u>	Station # <u>Arco 4977</u>
Sampler: <u>DA / WC</u>	Date: <u>9/22/04</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth: <u>15.01</u>	Depth to Water: <u>8.00</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> 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: <u>Bailer</u> <u>Disposable Bailer</u> <u>Positive Air Displacement</u> <u>+ Electric Submersible</u> <u>Extraction Pump</u> Other: <u> </u>	Sampling Method: <u>Bailer</u> <u>+ Disposable Bailer</u> <u>Extraction Port</u> Other: <u> </u>
--	--

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>4.6</u>	x	<u>3</u>	=	<u>13.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1501	78.7	6.8	805.8	4	grey, cloudy
1502	79.0	6.8	751.1	5	"
1504	79.4	6.9	725.6	5	"

Did well dewater? Yes <u>NO</u>	Gallons actually evacuated: <u>14</u>
Sampling Time: <u>1509</u>	Sampling Date: <u>9/22/04</u>
Sample I.D.: <u>MW-3</u>	Laboratory: Pace <u>Sequoia</u> Other <u> </u>
Analyzed for: GRO BTEX MTBE DRO	Other: <u>see COL</u>
D.O. (if req'd):	Pre-purge: <u> </u> ^{mg/L}
	Post-purge: <u>1.8</u> ^{mg/L}
O.R.P. (if req'd):	Pre-purge: <u> </u> mV
	Post-purge: <u> </u> 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:

Arco 4977
 Station #

2770 Castro Valley Blvd, Castro Valley
 Station Address

Total Gallons Collected From Groundwater Monitoring Wells:
40 gal

added equip. 5^{gals} any other adjustments —
 rinse water 5^{gals}

TOTAL GALS. RECOVERED 50 gal loaded onto BTS vehicle # 49

BTS event # 040922-DA2 time 1540 date 9/22/04

signature [Signature]

 REC'D AT _____ 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.

RM



7 October, 2004

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

RE: ARCO #4977, Castro Valley, CA
Work Order: MNI0711

Enclosed are the results of analyses for samples received by the laboratory on 09/23/04 15:43. 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: ARCO #4977, Castro Valley, CA
Project Number: INTRIM-50467
Project Manager: Scott Robinson

MNI0711
Reported:
10/07/04 15:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MNI0711-01	Water	09/22/04 14:50	09/23/04 15:43
MW-2	MNI0711-02	Water	09/22/04 15:24	09/23/04 15:43
MW-3	MNI0711-03	Water	09/22/04 15:09	09/23/04 15:43
TB-4977-09222004	MNI0711-04	Water	09/22/04 00:00	09/23/04 15:43

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: ARCO #4977, Castro Valley, CA
 Project Number: INTRIM-50467
 Project Manager: Scott Robinson

 MNI0711
 Reported:
 10/07/04 15:16

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MNI0711-01) Water Sampled: 09/22/04 14:50 Received: 09/23/04 15:43									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4J04002	10/04/04	10/05/04	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)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	70	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94 %		78-129	"	"	"	"	
MW-2 (MNI0711-02) Water Sampled: 09/22/04 15:24 Received: 09/23/04 15:43									
tert-Amyl methyl ether	ND	25	ug/l	50	4J04002	10/04/04	10/05/04	EPA 8260B	
Benzene	980	25	"	"	"	"	"	"	
tert-Butyl alcohol	ND	1000	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
Ethanol	ND	5000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Ethylbenzene	980	25	"	"	"	"	"	"	
Methyl tert-butyl ether	390	25	"	"	"	"	"	"	
Toluene	ND	25	"	"	"	"	"	"	
Xylenes (total)	940	25	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	15000	2500	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95 %		78-129	"	"	"	"	

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

Project: ARCO #4977, Castro Valley, CA
Project Number: INTRIM-50467
Project Manager: Scott Robinson

MNI0711
Reported:
10/07/04 15:16

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MNI0711-03) Water Sampled: 09/22/04 15:09 Received: 09/23/04 15:43									
tert-Amyl methyl ether	0.51	0.50	ug/l	1	4J04002	10/04/04	10/05/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	28	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	0.54	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	50	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	270	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94 %		78-129	"	"	"	"	

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

Project: ARCO #4977, Castro Valley, CA
Project Number: INTRIM-50467
Project Manager: Scott Robinson

MNI0711
Reported:
10/07/04 15:16

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 4J04002 - EPA 5030B P/T
Blank (4J04002-BLK1)

Prepared & Analyzed: 10/04/04

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>	4.92		"	5.00		98	78-129			

Laboratory Control Sample (4J04002-BS1)

Prepared & Analyzed: 10/04/04

tert-Amyl methyl ether	9.70	0.50	ug/l	10.0		97	82-140			
Benzene	10.1	0.50	"	10.0		101	69-124			
tert-Butyl alcohol	49.6	20	"	50.0		99	56-131			
Di-isopropyl ether	9.98	0.50	"	10.0		100	76-130			
1,2-Dibromoethane (EDB)	10.2	0.50	"	10.0		102	77-132			
1,2-Dichloroethane	11.1	0.50	"	10.0		111	77-136			
Ethanol	216	100	"	200		108	31-143			
Ethyl tert-butyl ether	10.2	0.50	"	10.0		102	81-121			
Ethylbenzene	9.51	0.50	"	10.0		95	84-132			
Methyl tert-butyl ether	9.94	0.50	"	10.0		99	63-137			
Toluene	8.93	0.50	"	10.0		89	78-129			
Xylenes (total)	28.1	0.50	"	30.0		94	83-137			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.89		"	5.00		98	78-129			

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

 Project: ARCO #4977, Castro Valley, CA
 Project Number: INTRIM-50467
 Project Manager: Scott Robinson

 MNI0711
 Reported:
 10/07/04 15:16

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 4J04002 - EPA 5030B P/T
Laboratory Control Sample (4J04002-BS2)

Prepared & Analyzed: 10/04/04

Benzene	5.30	0.50	ug/l	6.40		83	69-124			
Ethylbenzene	8.26	0.50	"	7.52		110	84-132			
Methyl tert-butyl ether	8.26	0.50	"	9.92		83	63-137			
Toluene	31.5	0.50	"	31.9		99	78-129			
Xylenes (total)	41.3	0.50	"	36.6		113	83-137			
Gasoline Range Organics (C4-C12)	452	50	"	440		103	70-124			
Surrogate: 1,2-Dichloroethane-d4	4.86		"	5.00		97	78-129			

Laboratory Control Sample Dup (4J04002-BSD1)

Prepared & Analyzed: 10/04/04

tert-Amyl methyl ether	9.97	0.50	ug/l	10.0		100	82-140	3	20	
Benzene	9.92	0.50	"	10.0		99	69-124	2	20	
tert-Butyl alcohol	48.9	20	"	50.0		98	56-131	1	20	
Di-isopropyl ether	9.94	0.50	"	10.0		99	76-130	0.4	20	
1,2-Dibromoethane (EDB)	10.3	0.50	"	10.0		103	77-132	1	20	
1,2-Dichloroethane	11.4	0.50	"	10.0		114	77-136	3	20	
Ethanol	200	100	"	200		100	31-143	8	20	
Ethyl tert-butyl ether	10.2	0.50	"	10.0		102	81-121	0	20	
Ethylbenzene	8.93	0.50	"	10.0		89	84-132	6	20	
Methyl tert-butyl ether	10.1	0.50	"	10.0		101	63-137	2	20	
Toluene	8.85	0.50	"	10.0		88	78-129	0.9	20	
Xylenes (total)	26.3	0.50	"	30.0		88	83-137	7	20	
Surrogate: 1,2-Dichloroethane-d4	4.89		"	5.00		98	78-129			

Matrix Spike (4J04002-MS2)

Source: MNI0711-02

Prepared: 10/04/04 Analyzed: 10/05/04

Benzene	1260	25	ug/l	320	980	88	69-124			
Ethylbenzene	1340	25	"	376	980	96	84-132			
Methyl tert-butyl ether	868	25	"	496	390	96	63-137			
Toluene	1540	25	"	1600	22	95	78-129			
Xylenes (total)	2780	25	"	1830	940	101	83-137			
Gasoline Range Organics (C4-C12)	35900	2500	"	22000	15000	95	70-124			
Surrogate: 1,2-Dichloroethane-d4	4.82		"	5.00		96	78-129			

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

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

Project: ARCO #4977, Castro Valley, CA
Project Number: INTRIM-50467
Project Manager: Scott Robinson

MNI0711
Reported:
10/07/04 15:16

**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 4J04002 - EPA 5030B P/T

Matrix Spike Dup (4J04002-MSD2)	Source: MNI0711-02		Prepared: 10/04/04		Analyzed: 10/05/04					
Benzene	1270	25	ug/l	320	980	91	69-124	0.8	20	
Ethylbenzene	1390	25	"	376	980	109	84-132	4	20	
Methyl tert-butyl ether	861	25	"	496	390	95	63-137	0.8	20	
Toluene	1580	25	"	1600	22	97	78-129	3	20	
Xylenes (total)	2900	25	"	1830	940	107	83-137	4	20	
Gasoline Range Organics (C4-C12)	37000	2500	"	22000	15000	100	70-124	3	20	
Surrogate: 1,2-Dichloroethane-d4	4.79		"	5.00		96	78-129			



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

Project: ARCO #4977, Castro Valley, CA
Project Number: INTRIM-50467
Project Manager: Scott Robinson

MNI0711
Reported:
10/07/04 15:16

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference



Chain of Custody Record

Project Name 4977 GWM
 BP BU/GEM CO Portfolio Retail
 BP Laboratory Contract Number: Atlantic Richfield Company
 Requested Due Date (mm/dd/yy) 14 day TAT

On-site Time: 1430 Temp: 80.1 °F
 Off-site Time: 1535 Temp: 81.6 °F
 Sky Conditions: Sunny w/ light clouds
 Meteorological Events: _____
 Wind Speed: 5 mph Direction: NW

Date: 9/22/04

Send To:	BP/GEM Facility No.: <u>ARCO 4977</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>2770 Castro Valley Rd, Castro Valley, CA</u>	Address: <u>1333 Broadway, Suite 800</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>ARCO 4977</u>	<u>Oakland, CA 94612</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long:	e-mail EDD: <u>donna.cosper@URSCorp.com</u>
	California Global ID #:	Consultant/Contractor Project No.: <u>J5-00004977.01 00427</u>
Lab PM <u>Lisa Race</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3268</u>
Tele/Fax: <u>408-776-9600 / 408-782-6308</u>	Address: <u>P.O. Box 6549</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
Report Type & QC Level: <u>1 Send EDF Reports</u>	<u>Moraga, CA 94570</u>	Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one)
BP/GEM Account No.:	Tele/Fax: <u>925-299-8891/925-299-8872</u>	BP/GEM Work Release No: <u>INTRIM -50467</u>

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 (8015/8021/8260)	DRO w/SGC (8015)	MIBE (8021)	MIBE (8260)	MIBE, TAME, ETBE (8260)		1,2-DCA & EDB (8260)	Ethanol (8260)
1	MW-1	1450		X			MN10711	-1	3											
2	MW-2	1524		X				-2	1											
3	MW-3	1509		X				-3	1											
4	1B-4977-09222004			X				-4	2											on hold
5																				
6																				
7																				
8																				
9																				
10																				

Sampler's Name: <u>David Alkurt</u>	Relinquished By / Affiliation: <u>David Alkurt CRTS</u>	Date: <u>9/22/04</u>	Time: <u>1506</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>9/22/04</u>	Time: <u>1505</u>
Sampler's Company: <u>Blaine Tech</u>		Date: <u>9/23/04</u>	Time: <u>1543</u>		Date: <u>9/23/04</u>	Time: <u>1543</u>
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

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

Labels In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt °F/C Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: ARCO 4977
 REC. BY (PRINT): TD
 WORKORDER: MN10711

DATE REC'D AT LAB: 9/23/04
 TIME REC'D AT LAB: 6:43
 DATE LOGGED IN: 9/24/04

For Regulatory Purposes?
 DRINKING WATER YES/NO (NO)
 WASTE WATER (YES) NO

(For clients requiring preservation checks at receipt, document here ↓)

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) <u>(Present)</u> / Absent <u>(Intact)</u> / Broken*			MW-1	VOA (3)	HCl	-	W	9/23/04	TD 9/23/04 (A large diagonal line is drawn across the table from the bottom-left to the top-right.)
2. Chain-of-Custody <u>(Present)</u> / Absent*			-2	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	
3. Traffic Reports or Packing List: <u>(Present)</u> / Absent*			↓ -3	↓ (2)	↓	↓	↓	↓	
4. Airbill: Airbill / Sticker <u>(Present)</u> / Absent			TB-4977-09222004						
5. Airbill #:									
6. Sample Labels: <u>(Present)</u> / Absent									
7. Sample IDs: <u>(Listed)</u> / Not Listed on Chain-of-Custody									
8. Sample Condition: <u>(Intact)</u> / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? <u>(Yes)</u> / No*									
10. Sample received within hold time? <u>(Yes)</u> / No*									
11. Adequate sample volume received? <u>(Yes)</u> / No*									
12. Proper Preservatives used? <u>(Yes)</u> / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) <u>(Yes)</u> / No*									
14. Temp Rec. at Lab: <u>4.6</u> Is temp 4 +/-2°C? <u>(Yes)</u> / No** <small>(Acceptance range for samples requiring thermal pres.)</small>									

**Exception (if any): METALS / DFF ON ICE or Problem COC

IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION

ATTACHMENT C

~~EDCC~~ REPORT, AND EDF/GEOWELL SUBMITTAL CONFIRMATIONS

*error
check*

Electronic Submittal Information

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SUCCESSFUL EDF CHECK - NO ERRORS

<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	10/13/2004 3:11:58 PM
<u>GLOBAL ID:</u>	T0600100089
<u>FILE UPLOADED:</u>	ARCO#4977-EDF-MNI0711.zip

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ARCO 2770 CASTRO VALLEY BLVD CASTRO VALLEY, CA 94546	Regional Board - Case #: 01-0097 SAN FRANCISCO BAY RWQCB (REGION 2) - (RDB) Local Agency (lead agency) - Case #: 01-0097 ALAMEDA COUNTY LOP - (UNK)
---	---

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	N

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
<u>WATER SAMPLES FOR 8021/8260 SERIES</u>		
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%		Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%		Y
<u>SOIL SAMPLES FOR 8021/8260 SERIES</u>		
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
<u>FIELD QC SAMPLES</u>		
<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.

Electronic Submittal Information

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Your EDF file has been successfully uploaded!

Confirmation Number: 8067910432
Date/Time of Submittal: 10/13/2004 3:10:46 PM
Facility Global ID: T0600100089
Facility Name: ARCO
Submittal Title: Third Quarter 2004 QMR. Site #4977
Submittal Type: GW Monitoring Report

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ARCO 2770 CASTRO VALLEY BLVD CASTRO VALLEY, CA 94546	Regional Board - Case #: 01-0097 SAN FRANCISCO BAY RWQCB (REGION 2) - (RDB) Local Agency (lead agency) - Case #: 01-0097 ALAMEDA COUNTY LOP - (UNK)																						
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MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
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

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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