



Atlantic Richfield Company (a BP affiliated company)

P.O. Box 6549 Moraga, California 94570 Phone: (925) 299-8891 Fax: (925) 299-8872

December 29, 2003

Fourth Quarter 2003 Groundwater Monitoring Report ARCO Service Station #0374 6407 Telegraph Ave. Oakland, CA URS Project #38486310

I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct.

Submitted by:

Environmental Business Manager

December 29, 2003

Mr. Don Hwang Alameda County Health Care Services 1131 Harbor Bay Parkway, 2nd Floor Alameda, CA 94502

Alamodo County Fourth Quarter 2003 Groundwater Monitoring Report Re:

ARCO Service Station #0374 6407 Telegraph Avenue Oakland, California **URS Project #38486310**

Dear Mr. Hwang:

On behalf of Atlantic Richfield Company (ARCO – a BP affiliated company), URS Corporation (URS) is submitting the Fourth Quarter 2003 Groundwater Monitoring Report for ARCO Service Station #0374, located at 6407 Telegraph Avenue, Oakland, California.

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

Sincerely,

URS CORPORATION

cott Robinson Project Manager

Enclosure:

Fourth Quarter 2003 Groundwater Monitoring Report

Mr. Chuck Headlee, California Regional Water Quality Control Board 1515 cc:

James F. Durkin, C.Hg.

Senior Geologist

Clay Street, Suite 1400 Oakland, CA 94612

Mr. Paul Supple, ARCO, (electronic copy uploaded to ENFOS)

URS Corporation 500 12th Street, Suite 200 Oakland, CA 94607-4014 Tel: 510.893 3600 Fax: 510.874.3268

FOURTH QUARTER 2003 GROUNDWATER MONITORING

ARCO SERVICE STATION #0374 6407 TELEGRAPH AVENUE OAKLAND, CALIFORNIA

Prepared for Atlantic Richfield Company

December 29, 2003



URS Corporation 500 12th Street, Suite 200 Oakland, California 94607

 Date:
 December 29, 2003

 Quarter:
 4Q 03

ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.:	0374	Address:	6407 Telegraph Avenue, Oakland CA					
ARCO Environmental Business Manager			Paul Supple					
Consulting Co./	Contact Person:		URS Corporation / Scott Robinson					
Consultant Proje	ect No.:		38486310					
Primary Agency	,		Alameda County Health Care Services Agency (ACHCSA)					

WORK PERFORMED THIS QUARTER

(Fourth - 2003):

- 1. Performed fourth quarter groundwater monitoring event on November 20, 2003.
- 2. Prepared and submitted fourth quarter 2003 groundwater monitoring report.
- 3. Replaced ORC socks in wells MW-3 and MW-4 on November 20,2003.
- Well repairs are scheduled for the end of the quarter. They will be reported in the first quarter 2004 groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (First – 2004):

- 1. Perform first quarter 2004 groundwater monitoring event.
- 2. Prepare and submit first quarter 2004 groundwater monitoring report.

Current Phase of Project:	GW monitoring/sampling
Frequency of Groundwater Sampling:	Quarterly: MW-1 Semi-Annually (2 nd & 4 th quarters): MW-2, MW-4
	Annually (2 nd quarter): MW-3, MW-5, MW-6
Frequency of Groundwater Monitoring:	Quarterly
Is Free Product (FP) Present On-Site:	No
Current Remediation Techniques:	ORC Socks (MW-3 and MW-4)
Approximate Depth to Groundwater:	6.31 (MW-6) to 8.73 (MW-4) feet
Groundwater Gradient (direction):	Southwest
Groundwater Gradient (magnitude):	0.029 feet per foot

DISCUSSION:

In the only well sampled this quarter (MW-1), TPH-g was detected above laboratory reporting limits at 1,600 μ g/L and MTBE was detected above laboratory reporting limits at 1,500 μ g/L. BTEX and all other fuel oxygenates were not detected above their respective reporting limits.

RECOMMENDATIONS:

Beginning this quarter the sampling frequency of the following wells was increased: MW-1 from annually to quarterly and MW-2 from annually to semi-annually.

Also, the sampling frequency of well MW-5 was decreased from quarterly to annually and well MW-3 was decreased from semi-annually to annually.

ATTACHMENTS:

- Figure 1 Groundwater Elevation Contour and Analytical Summary Map November 20, 2003
- Table 1 Groundwater Elevation and Analytical Data
- Table 2 Groundwater Flow Direction and Gradient
- Table 3 Fuel Oxygenate Analytical Data
- Attachment A Field Procedures and Field Data Sheets
- Attachment B -- Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment C Historic Groundwater Data
- Attachment D EDCC Report and EDF/Geowell Submittal Confirmation

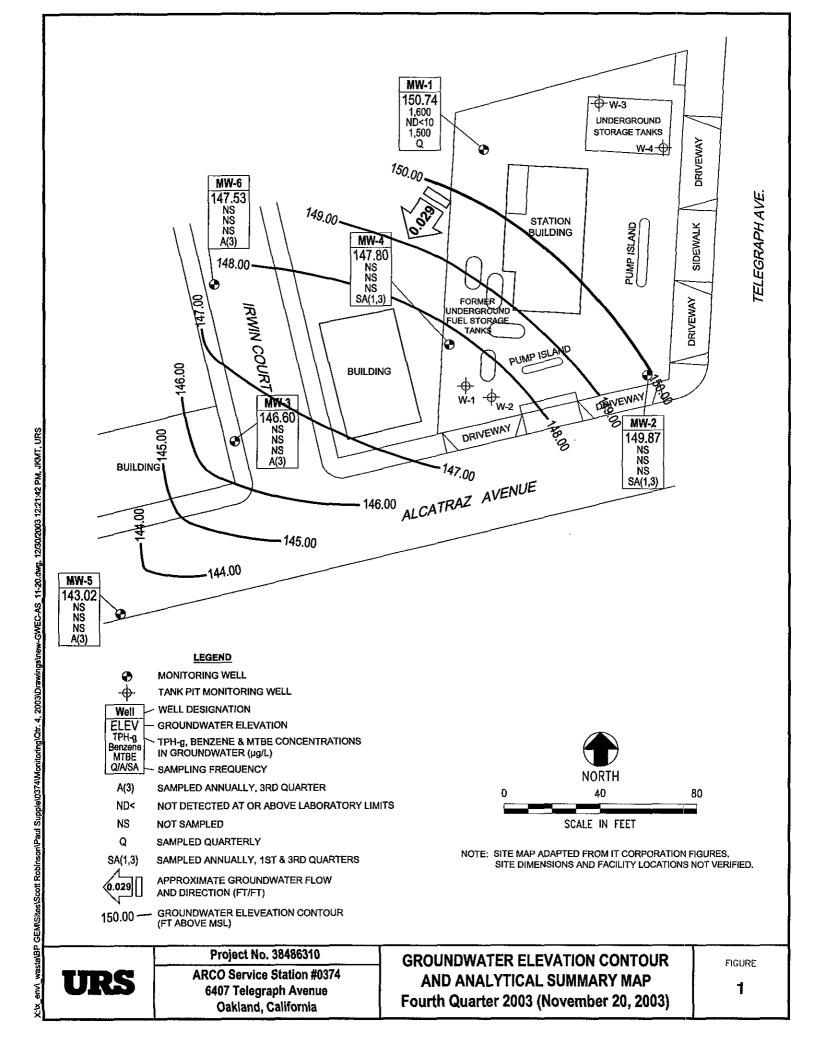


Table 1 Groundwater Elevation and Analytical Data

ARCO Service Station #0374 6407 Telegraph Avenue Oakland, California

Well Number	Date Sampled	Top of Riser Elevation (ft)	Top of Screen Elevation (ft)	Bottom of Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as Gasoline (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 Level ^c
MW-I	06/20/00	158.91	151.91	132.61	6.86	152.05	NS	NS	NS	NS	NS	NS	NM	NM
	09/28/00				7.50	151.41	NS	NS	NS	NS	NS	NS	NM	NM
	12/17/00				7.49	151.42	NS	NS	NS	NS	NS	NS	NM	NM
	03/23/01				5.90	153.01	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2,710	NA	NA
	06/21/01				7.45	151.46	NS	NS	NS	NS	NS	NS	NM	NM
	09/23/01				8.46	150.45	NS	NS	NS	NS	NS	NS	NM	NM
	12/31/01				5.50	153.41	NS	NS	NS	NS	NS	NS	NM	NM
	03/21/02				4,71	154.2	ND<5,000	ND<50	ND<50	ND<50	ND<50	2,000	NA	NA
	04/17/02				5.54	153.37	NS	NS	NS	NS	NS	NS	NM	NM
	08/12/02				7.77	151.14	NS	NS	NS	NS	NS	NS	NM	NM
	12/06/02				7.65	151.26	NS	NS	NS	NS	NS	NS	NM	NM
	01/29/03 ^b				5.88	153.03	NS	NS	NS	NS	NS	NS	NM	NM
	05/23/03				5.62	153.29	ND<10,000	ND<100	ND<100	ND<100	ND<100	1,600	1.3	7.1
	09/04/03				7.85	151.06	NS	NS	NS	NS	NS	NS	NM	NM
	11/20/03				8.17	150.74	1,600	ND<10	ND<10	ND<10	ND<10	1,500	1.7	6.7
MW-2	06/20/00	157.92	150.92	132.02	7.67	150.25	NS	NS	NS	NS	NS	NS	NM	NM
	09/28/00				8.51	149.41	NS	NS	NS	NS	NS	NS	NM	NM
	12/17/00				8.14	149.78	NS	NS	NS	NS	NS	NS	NM	NM
	03/23/01				7.21	150.71	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	06/21/01				7.99	149.93	NS	NS	NS	NS	NS	NS	NM	NM
	09/23/01				8.52	149.4	NS	NS	NS	NS	NS	NS	NM	NM
	12/31/01				6.01	151.91	NS	NS	NS	NS	NS	NS	NM	NM
	03/21/02				5.95	151.97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	45	NA	NA
	04/17/02				6.45	151.47	NS	NS	NS	NS	NS	NS	NM	NM
	08/12/02				8.08	149.84	NS	NS	NS	NS	NS	NS	NM	NM
	12/06/02				8.29	149.63	NS	NS	NS	NS	NS	NS	NM	NM
	01/29/03 ^b				7.22	150.70	NS	NS	NS	NS	NS	NS	NM	NM
	05/23/03				6.85	151.07	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	55	1.4	7.2
	09/04/03				7.94	149.98	NS	NS	NS	NS	NS	NS	NM	NM
	11/20/03				8.05	149.87	NS	NS	NS	NS	NS	NS	NM	NM

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #0374 6407 Telegraph Avenue Oakland, California

Well Number	Date Sampled	Top of Riser Elevation (ft)	Top of Screen Elevation (ft)	Bottom of Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as Gasoline (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 Level ^c
MW-3	06/20/00	153.64	146.64	127.14	6.42	147.22	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<10	NA	NA
	09/28/00				7.31	146.33	NS	NS	NS	NS	NS	NS	NM	NM
	12/17/00				6.45	147.19	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/23/01				6.01	147.63	NS	NS	NS	NS	NS	NS	NM	NM
	06/21/01				6.80	146.84	110	5.5	ND<0.5	5.4	4.1	2.5	NA	NA
	09/23/01				7.32	146.32	NS	NS	NS	NS	NS	NS	NM	NM
	12/31/01				4.48	149.16	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.9	NA	NA
	03/21/02				4.36	149.28	NS	NS	NS	NS	NS	NS	NM	NM
	04/17/02				5.31	148.33	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.7	NA	NA
	08/12/02				7.00	146.64	NS	NS	NS	NS	NS	NS	NM	NM
	12/06/02				7.32	146.32	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.2	1.4	6.7
	01/29/03 ^b				6.07	147.57	NS	NS	NS	NS	NS	NS	NM	NM
	05/23/03				6.45	147.19	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.6	0.9	7.7
	09/04/03				6.93 ^d	146.71	NS	NS	NS	NS	NS	NS	NM	NM
	11/20/03				7.04 ^d	146.6	NS	NS	NS	NS	NS	NS	NM	NM
MW-4	06/20/00	156.53	149.53	129.93	7.50	149.03	20,000	5,100	440	1,000	1,700	ND<250	NA	NA
	09/28/00				8.20	148.33	NS	NS	NS	NS	NS	NS	NM	NM
	12/17/00				8.11	148.42	4,320	1,240	ND<20	27.2	249	ND<100	NA	NA
	03/23/01				6.69	149.84	NS	NS	NS	NS	NS	NS	NM	NM
	06/21/01				8.01	148.52	2,800	470	16	19	160	130	NA	NA
	09/23/01				8.91	147.62	NS	NS	NS	NS	NS	NS	NM	NM
	12/31/01				4.42	152.11	4,600	1,500	100	160	210	160	NA	NA
	03/21/02				4.98	151.55	NS	NS	NS	NS	NS	NS	NM	NM
	04/17/02				6.23	150.30	7,100	2,200	110	290	450	ND<250	NA	NA
	08/12/02				8.24	148.29	NS	NS	NS	NS	NS	NS	NM	NM
	12/06/02				8.42	148.11	1,500 ^a	410	6.8	20	29	43	1.1	6.7
	01/29/03 ^b				7.20	149.33	NS	NS	NS	NS	NS	NS	NM	NM
	05/23/03				7.18	149.35	ND<5,000	1,300	89	210	260	ND<50	1.4	6.9
	09/04/03				8.15 ^d	148.38	NS	NS	NS	NS	NS	NS	NM	NM
	11/20/03				8.73 ^d	147.80	NS	NS	NS	NS	NS	NS	NM	NM

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #0374 6407 Telegraph Avenue Oakland, California

Well Number	Date Sampled	Top of Riser Elevation (ft)	Top of Screen Elevation (ft)	Bottom of Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as Gasoline (µg/L)	Beπzene (μg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen ^c (mg/L)	pH Level ^c
MW-5	06/20/00	151.33	141.33	128.63	7.84	143.49	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<10	NA	NA
	09/28/00				8.37	142.96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	12/17/00				8.36	142.97	ND<50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND<2.5	NA	NA
	03/23/01				7.55	143.78	ND<50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND<2.5	NA	NA
	06/21/01				8.20	143.13	ND<50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND<2.5	NA	NA
	09/23/01				8.68	142.65	ND<50	ND<0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND<2.5	NA	NA
	12/31/01				7.57	143.76	ND<50	ND<0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND<2.5	NA	NA
	03/21/02				6.12	145.21	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.2	NA	NA
	04/17/02				6.61	144.72	ND<50	ND<0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND<2.5	NA	NA
	08/12/02				8.14	143.19	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	4.1	7.6
	12/06/02				8.65	142.68	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	1.1	6.8
	01/29/03 ^b				7.22	144.11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.0	6.6
	05/23/03				7.31	144.02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.1	6.6
	09/04/03				9.50	141.83	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.2	6.7
	11/20/03				8.31	143.02	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	06/20/00	153.84	148	138.34	4.79	149.05	NS	NS	NS	NS	NS	NS	NM	NM
	09/28/00				5.39	148.45	NS	NS	NS	NS	NS	NS	NM	NM
	12/17/00				4.71	149.13	NS	NS	NS	NS	NS	NS	NM	NM
	03/23/01				4.69	149.15	ND<50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND<2.5	NA	NA
	06/21/01				5.22	148.62	NS	NS	NS	NS	NS	NS	NM	NM
	09/23/01				5.40	148.44	NS	NS	NS	NS	NS	NS	NM	NM
	12/31/01				3.95	149.89	NS	NS	NS	NS	NS	NS	NM	NM
	03/21/02				2.94	150.9	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.2	NA	NA
	04/17/02				5.11	148.73	NS	NS	NS	NS	NS	NS	NM	NM
	08/12/02				5.23	148.61	NS	NS	NS	NS	NS	NS	NM	NM
	12/06/02				5.29	148.55	NS	NS	NS	NS	NS	NS	NM	NM
	01/29/03 ^b				4.79	149.05	NS	NS	NS	NS	NS	NS	NM	NM
	05/23/03				4.31	149.53	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.4	1.0	6.7
	09/04/03 ^e				NM	NM	NS	NS	NS	NS	NS	NS	NM	NM
	11/20/03				6.31	147.53	NS	NS	NS	NS	NS	NS	NM	NM

Table 1 Groundwater Elevation and Analytical Data

ARCO Service Station #0374 6407 Telegraph Avenue Oakland, California

ТРН	= Total Petroleum Hydrocarbons
MTBE	= Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted (prior to 01/29/03)
μg/L	= Micrograms per liter
mg/L	= Milligram per liter
NM	= Not measured
NS	= Not sampled
ND<	= Not detected at or above the laboratory reporting limit.
NA	= Not Avaliable
NM	= Not Measured
a	= Chromatogram Pattern: Gasoline C6-C10
b	= Beginning this quarter, groundwater samples were analyzed by EPA method 8260B for TPH-g, BTEX, and fuel oxygenates.
С	= Dissolved oxygen and pH level are field measurements.
d	= Wells gauged with ORC sock in well.
e	= Well inaccessible

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

Table 2 Groundwater Flow Direction and Gradient

ARCO Service Station #0374 6407 Telegraph Avenue Oakland, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
1/31/96	Southwest	0.04
4/10/96	Southwest	0.04
7/16/96	Southwest	0.03
10/14/96	Southwest	0.03
3/27/97	Southwest	0.04
5/27/97	Southwest	0.03
8/12/97	Southwest	0.04
11/17/97	Southwest	0.03
3/16/98	Southwest	0.03
5/12/98	Southwest	0.04
07/27/98	Southwest	0.04
10/15/98	Southwest	0.02
02/18/99	Southwest	0.05
05/24/99	Southwest	0.03
08/27/99	Southwest	0.03
10/26/99	Southwest	0.03
02/03/00	Southwest	0.047
06/20/00	Southwest	0.035
09/28/00	Southwest	0.034
12/17/00	Southwest	0.032
03/23/01	Southwest	0.034
06/21/01	Southwest	0.032
09/23/01	Southwest	0.029
12/31/01	Southwest	0.043
03/21/02	Southwest	0.038
04/17/02	Southwest	0.031
08/12/02	Southwest	0.032
12/06/02	Southwest	0.020
01/29/03	Southwest	0.027
05/23/03	Southwest	0.039
09/04/03	Southwest	0.033
11/20/03	Southwest	0.029

Note:

The data within this table collected prior to August 2002 was provided to URS by ARCO and its previous consultants. URS has not verified the accuracy of this information.

Table 3 Fuel Oxygenate Analytical Data

ARCO Service Station #0374 6407 Telegraph Avenue Oakland, California

Well	Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB
Number	Sampled	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
MW-1	05/23/03	ND<20,000	ND<4,000	1,600	ND<100	ND<100	ND<100	NA	NA
MW-I	11/20/03	ND<2,000 (a)	ND<400	1,500	ND<10	ND<10	ND<10	NA	NA
MW-2	05/23/03	ND<100	ND<20	55	ND<0.50	ND<0.50	0.53	NA	NA
MW-3	05/23/03	ND<100	ND<20	1.6	ND<0.50	ND<0.50	ND<0.50	NA	NA
MW-4	05/23/03	ND<10,000	ND<2,000	ND<50	ND<50	ND<50	ND<50	NA	NA
MW-5	01/29/03	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	05/23/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	09/04/03	ND<100	ND<20	ND<0 50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-6	05/23/03	ND<100	ND<20	9.4	ND<0.50	ND<0.50	ND<0.50	NA	NA

Note:	All fuel oxygenate compounds analyzed using EPA Method 8260B
TBA	= tert-Butyl alcohol
MTBE	= Methyl tert-butyl ether
DIPE	= Di-isopropyl ether
ETBE	= Ethyl tert butyl ether
TAME	= tert-Amyl methyl ether
1,2-DCA	= 1,2-Dichloroethane
EDB	= 1,2-Dibromoethane

EDB = 1,2-Dibromoethane μ g/L = micrograms per liter

ND< = Not detected at or above the laboratory reporting limit

NA = Not analyzed

=The continuing calibration verification was outside of client contractual limits by 23.2% high.

However, it was within method acceptance limits. The data should still be useful for its intended purpose.

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 TeflonTM 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 # Date Date	11/20/03	Client Arco 374
Site 6407 Telegraph 1	we, date sund	

	Well		Depth to	Thickness of	Volume of Immiscibles			Survey	
Well ID	Size (in.)	Sheen / Odor	Immiscible Liquid (ft.)	Immiscible Liquid (ft.)	l	Depth to water (ft.)	Depth to well bottom (ft.)	Point: TOB	
mun	4					8.17	26.70		
mu-z	4					2.05	26.35		
MW-3	4		OR	n w	()	7.04	26.70		
mar 4	4		ORC	in w	11	8.73	56.85	-	
nu-5	4						1	,	ļ
mw-5 mw-6	4					6.31	23.05	دلسد	

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573

ARCO / BP WELL MONITORING DATA SHEET

BTS#: c	731/20-	moz		Station # Mrco 374						
Sampler:	1	De,	Jorg	Date:	20/03					
Well I.D.	· MOV-(Well Diamete	··· /	8				
Total We	ll Depth:	26.7	එ	Depth to Water: 8,/7						
Depth to	Free Produ	ct:		Thickness of Free Product (feet):						
Reference	ed to:	(EVC)	Grade	D.O. Meter (if req'd): (YST) HACH						
	Well Diams			Vell Diameter	Multiplier	1				
	} " 2"		0.04 0.16	4# 6"	0.65 1.47					
	3"		0.37		dius ² * 0.163					
Purge Metho	od:	Bailer	<u> </u>	Sampling Metho						
I thigo thiothe		isposable Bai	ler	C	Disposable Bailer					
		e Air Displac			Extraction Port					
	€ le	ctric Submers	ible	Othe	er:					
		xtraction Pun	•							
	Other:									
Top of Scree	en:		If well is listed as a	i no-purge, confict	m that water level is below	the top				
·			of screen. Otherwi	se, the well must l	be purged.					
	1.)	r->							
	10000	<u> </u>	X		S G Gals.					
	1 Case Voi	ume (Gals.)	Specified Vo	rumes C	alculated Volume					
			Conductivity		}					
Time	Temp (°F)	pH	(mS o(µS)	Gals. Removed	d Observations					
1301	66.8	6,8	894	12	Char, Wa	odor				
1303	66,4	6.7	896	24						
1305	656	6.7	920	36						
					,					
		_			·					
Did well	dewater?	Yes ((II)	Gallons actua	lly evacuated: 3	6				
Sampling	Time:	<u>.</u>	1315	Sampling Dat	te: 11/20/03					
Sample I.	D.: M	いつ	·	Laboratory:	Pace Sequoia (Other				
Analyzed	for: (TP)	I-G) BIEX	MTBE TPH-D	Other: OKYS	والمناكات					
D.O. (if r	eq'd):		Pre-purge:	mg	/L Post purge:	1 F ing/				
O.R.P. (if			Pre-purge:	B		m√				
Blaine T	ech Serv	ices, Inc	. 1680 Rogers	s Ave., San J	lose, CA 95112 (41	08) 573-0555				

ARCO / BP WELL MONITORING DATA SHEET

					·							
BTS#:	C31120 - 1	MOZ		Station # 374								
Sampler:	10			Date: 11/22	103							
Well I.D.:	14.60.	- 3		Well Diamete	r: 2	3	4	6	8			
Total Wel	ll Depth:	24.70		Depth to Wat	3r: 7	0~/						
Depth to I	Free Produ	ict:		Thickness of	Free P	roduc	ct (feet	:):	40,000			
Reference	ed to:	PVC	Grade	D.O. Meter (i	f req'd	<u>l):</u>	7	YSI	HACI			
	Well Diame	cr		Vell Diameter 4"	Multiplia 0.65	3C						
	1"		0.04 0,16	4" 6"	1.47							
	3"		0.37	Other m	iius² + 0.1	63						
Purge Metho	od:	Bailer		Sampling Metho	1:	Bailer	•					
		ispoșable Bai	iler		Disp	osable	Bailer		Market State of State			
		ve Air Displa		and the second	Ex	traction	Pari	August 1	and the same of th			
	Æle	ctric Submer	sible	Othe	r:	- marine	·	Market P.				
	Į,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	xtraction Put	np		, marketing	سسد د	Market Market Company					
				Car.	2	· WATER						
Two of Cours	en:	٠.	If well is listed as a	no-nurge, confin	n that w	vater le	vel is be	elow t	he top			
Tob or gene	GH		of screen. Otherwi				. ,		'			
		······										
	1		X	=			Gals.					
	1 Case Vol	ume (Gals.)	Specified Vo	Iumes C	alculated	l Volun	ne					
	<u> </u>		Conductivity	1								
Tr:	Temp (°F)	_LT	(mS or µS)	Gals. Remove		servat	Hions					
Time						Jack Val	EIONS					
	Ker	laciel	ORCS	160 6-61	/							
		 										
Did well	dewater?	Yes	No	Gallons actua	ally ev	acuat	ted:	/				
Sampling	***************************************			Sampling Da	fe:							
Sample I	<u> </u>	- Jakob -		Laboratory:	٠	Se	quoia	C)ther			
Analyzed		H-G BTE	X MTBE TPH-D	Other:		-			A STATE OF THE STA			
D.O. (if 1	/	1 /	Pre-purge:	T Com m	4/L	Post-	purge:					
O.R.P. (i		<u>/</u>	Pre-purge		V		purge:		, , , , , , , , , , , , , , , , , , ,			
1	<u>.</u>	rices. In	c. 1680 Roger		Jose.	CA 9	95112	(40	18) 573-0			
	1				•			-	-			

ARCO / BP WELL MONITORING DATA SHEET

BTS#:	E 372.60	pr 153 2		Station# 374									
Sampler:	e/p			Date: 11/25	103								
Well I.D.:	11 W . 4	,		Well Diameter:	2 3 4	6	8						
Total Wel	l Depth:	200.05		Depth to Water: 3.73									
Depth to 1	Free Produ	ct:		Thickness of Free Product (feet):									
Reference	ed to:	PVC	Grade	D.O. Meter (if req'd): YSI HACL									
11010110	Well Diamer	cr i		Vell Dinmeter M	ultiplier. 65	, , , , , , , , , , , , , , , , , , , 							
	2"		0.16	6" I.	47								
	3"		0.37	Other radius	² * 0.163]						
Purge Metho	od:	Bailer		Sampling Method:	Bailer								
<i>G</i>		isposable Bail	ег		Disposable Bailer		and Allerton William						
	Positiv	e Air Displac	ement	www.m.	Extraction Port	المعتبي المعتبي المعتبي	and the same special section is a second section of the second special section is a second section of the sec						
		ctric Submersi	/ '	Other:									
		xtráction Pum	P	armore and a second									
	Other:												
Top of Scree	en: "Arriva	Line	If well is listed as a	no-purge, confirm t	hat water level is b	elow th	ie top						
10,501000				ise, the well must be			•						
					<u> </u>								
	İ		x	=	Gals.								
	1 Case Vol	ume (Gals.)	Specified Vo	olumes Calc	ulated Volume								
	Ī		Conductivity										
Time	Temp (°F)	Нq	(mS or µS)	Gals. Removed	Observations								
1 11110	(-)	134.4	(
	Res	laced	BRCS 1	n week	•								
	<u> </u>												
Did well	dewater?	Yes	No	Gallons actuall	y évacuated:		Carrent Control of the Control of th						
Sampling	Time:	- James Market M		Sampling Date	-	a succession and the second							
Sample I	.D.:			Laboratory:	Pace Sequoia	Ot	her						
Analyzed	for: TP	H-G BTEX	MTBE TPH-D	Other:									
D.O. (if r	eq'd):	ART V	Pre-purge	ing.	Post-purge:								
O.R.P. (i			Pre-purge	mV	Post-purge:								

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-05

BP GEM OIL COMPANY TYPE A BILL OF LADING

BILL OF LADING FOR NON-RECORD SOURCE **PURGEWATER** RECOVERED FROM **HAZARDOUS** 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 PLAINE 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; from a BP GEM facility to the designated destination point via another BP GEM facility; from a BP GEM 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 374	
Station #	1
6407 Felegraph	- Ave, Oak land
Station Address	•
Total Gallons Collected From Gro	oundwater Monitoring Wells:
added equip.	any other adjustments
TOTAL GALS. RECOVERED 77	loaded onto BTS vehicle #
BTS event#	time date
031/20-MD2	1415 11 120103
signature of	
***********	**************************************
REC'D AT	
unloaded by 1 and	29 1515 11 120 103
signature // 8//VV/7	

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.



11 December, 2003

Scott Robinson URS Corporation [Arco] 500 12th Street, Suite 200 Oakland, CA 94607

RE: ARCO #0374, Oakland, CA Work Order: MMK0734

Enclosed are the results of analyses for samples received by the laboratory on 11/21/03 17:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Camnga Thach For Theresa Allen Project Manager

Camafalhach

CA ELAP Certificate #1210





Project: ARCO #0374, Oakland, CA

Project Number: INTRIM-50419 Project Manager: Scott Robinson MMK0734 Reported: 12/11/03 12:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MMK0734-01	Water	11/20/03 13:15	11/21/03 17:55
TB-374-11202003	MMK0734-02	Water	11/20/03 00:00	11/21/03 17:55





Project: ARCO #0374, Oakland, CA

Project Number: INTRIM-50419 Project Manager: Scott Robinson MMK0734 Reported: 12/11/03 12:31

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MMK0734-01) Water	Sampled: 11/20/03 13:15	Received	: 11/21/0	3 17:55			·		
Ethanol	ND	2000	ug/l	20	3L04009	12/04/03	12/04/03	EPA 8260B	0-12
tert-Butyl alcohol	ND	400	ıı	**	п	10	jt.	**	
Methyl tert-butyl ether	1500	10	54	п	10	1)	11	u	
Di-isopropyl ether	ND	10	11	**	11	1t	it.	11	
Ethyl tert-butyl ether	ND	10	(+	Щ	IF.	Ħ	+1	п	
tert-Amyl methyl ether	ND	10	11	31	11	п	n.	**	
Benzene	ND	10	11	11	11	**	**	п	
Toluenc	ND	10	11	It.)*	п	п	**	
Ethylbenzene	ND	10	11	*1	п	**	**	п	
Xylenes (total)	ND	10	1)	It	11	ii	n	**	
Gasoline Range Organics	1600	1000	11	11	n .	**	**	li	
Surrogate: 1,2-Dichloroethane-a	4	114 %	78-	129	"	"	"	"	





Project: ARCO #0374, Oakland, CA

Project Number: INTRIM-50419
Project Manager: Scott Robinson

MMK0734 Reported: 12/11/03 12:31

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
Batch 3L04009 - EPA 5030B P/T										
Blank (3L04009-BLK1)				Prepared	& Analyze	ed: 12/04/	03			
Ethanol	ND	100	ug/l							O-12
tert-Butyl alcohol	ND	20	It							
Methyl tert-butyl ether	ND	0.50	11							
Di-isopropyl ether	ND	0.50	11							
Ethyl tert-butyl ether	ND	0.50	**							
tert-Amyl methyl ether	ND	0.50	**							
1,2-Dichloroethanc	ND	0.50	11							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	11							
Toluene	ND	0.50	(†							
Ethylbenzene	ND	0.50	II							
Xylenes (total)	ND	0.50	10							
Gasoline Range Organics	ND	50	п							
Surrogate: 1,2-Dichloroethane-d4	5.28		n	5.00		106	78-129			
Laboratory Control Sample (3L04009-BS1)		_		Prepared a	& Analyze	d: 12/04/	03			
Ethanol	141	100	ug/l	200		70.5	31-186			O-12
tert-Butyl alcohol	52.4	20	n	50.0		105	0-206			
Methyl tert-butyl ether	9.51	0.50	**	10.0		95.1	63-137			
Di-isopropyl ether	9.37	0.50	D	10.0		93.7	76-130			
Ethyl tert-butyl ether	9.28	0.50	**	10.0		92.8	61-141			
tert-Amyl methyl ether	9.37	0.50	U	10.0		93.7	56-140			
1,2-Dichloroethane	8.87	0.50	**	10.0		88.7	77-136			
1,2-Dibromoethane (EDB)	10.1	0.50	μ	10.0		101	77-132			
Benzene	10.2	0.50	**	10.0		102	78-124			
Toluene	8.27	0.50	11	10.0		82.7	78-129			
Ethylbenzene	8.05	0.50	10	10.0		80.5	84-117			Q-LIM
Xylenes (total)	26.6	0.50	п	30.0		88.7	83-125			~ -Jan-
Surrogate: 1,2-Dichloroethane-d4	4.73		"	5.00		94.6	78-129			





Project: ARCO #0374, Oakland, CA

Project Number: INTRIM-50419 Project Manager: Scott Robinson MMK0734 Reported: 12/11/03 12:31

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

Auglies	Damile	Reporting	T fortan	Spike	Source	a/DEC	%REC	n.n.	RPD	•
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3L04009 - EPA 5030B P/T			···.							
Laboratory Control Sample (3L04009-	BS2)			Prepared .	& Analyze	ed: 12/04/	03			
Methyl tert-butyl ether	8.95	0.50	ug/l	9.92		90.2	63-137			
Benzene	5.83	0.50	11	6.40		91.1	78~124			
Toluene	32.7	0.50	**	29.7		110	78-129			
Ethylbenzene	5.86	0.50	μ	6.96		84.2	84-117			
Xylenes (total)	34.8	0.50	(1	33.7		103	83-125			
Gasoline Range Organics	462	50	11	440		105	70-113			
Surrogate: 1,2-Dichloroethane-d4	5.34		"	5.00		107	78-129			
Laboratory Control Sample Dup (3L04	1009-BSD1)			Prepared .	& Analyze	ed: 12/04/	03			
Ethanol	168	100	ug/l	200		84.0	31-186	17.5	37	O-12
tert-Butyl alcohol	50.0	20	11	50.0		100	0-206	4.69	22	
Methyl tert-butyl ether	8.93	0.50	10	10.0		89.3	63-137	6.29	13	
Di-isopropyl ether	9.15	0.50	D	10.0		91.5	76-130	2.38	9	
Ethyl tert-butyl ether	9.21	0.50	**	10.0		92.1	61-141	0.757	9	
tert-Amyl methyl ether	8.71	0.50	n	0.01		87.1	56-140	7.30	12	
1,2-Dichloroethane	8.88	0.50	"	10.0		88.8	77-136	0.113	13	
1,2-Dibromoethane (EDB)	10.1	0.50	11	10.0		101	77-132	0.00	9	
Benzene	10.3	0.50	и	10.0		103	78-124	0.976	12	
Toluene	8.98	0.50	**	10.0		89.8	78-129	8.23	10	
Ethylbenzene	8.51	0.50	п	10.0		85.1	84-117	5.56	10	
Xylenes (total)	29.3	0.50	ft	30.0		97.7	83-125	9.66	11	
Surrogate: 1,2-Dichloroethane-d4	4.58		"	5.00	 *	91.6	78-129			
Laboratory Control Sample Dup (3L04	1009-BSD2)			Prepared a	& Analyze	d: 12/04/	03			
Methyl tert-butyl ether	8.71	0.50	ug/l	9.92		87.8	63-137	2.72	13	
Benzene	5.59	0.50	**	6.40		87.3	78-124	4.20	12	
Toluene	29.0	0.50	11	29.7		97.6	78-129	12.0	10	QR-02
Ethylbenzene	5.83	0.50	11	6.96		83.8	84-117	0.513	10	Q-LIM
Xylenes (total)	34.1	0.50	tf	33.7		101	83-125	2.03	11	-
Gasoline Range Organics	403	50	II	440		91.6	70-113	13.6	9	QR-02
Surrogate: 1,2-Dichloroethane-d4	4.65		"	5.00		93.0	78-129			





URS Corporation [Arco] Project: ARCO #0374, Oakland, CA MMK0734
500 12th Street, Suite 200 Project Number: INTRIM-50419 Reported:
Oakland CA, 94607 Project Manager: Scott Robinson 12/11/03 12:31

Notes and Definitions

O-12 The continuing calibration verification was outside of client contractual acceptance limits by 23.2% high. However, it was within method acceptance limits. The data should still be useful for its intended purpose.

Q-LIM The percent recovery was outside of the control limits. The samples results may still be useful for their intended purpose.

QR-02 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.

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 374 GWM BP BU/GEM CO Portfolio Retail

MMK0739

BP Laboratory Contract Number: Atlantic Richfield Company
Requested Due Date (mm/dd/yy) 14 DAY TAT

On-site Time: 1270 Temp: 66
Off-site Time: 14.15 Temp: 66
Sky Conditions: C/Ear, Sorum
Meteorological Events:
Wind Speed: Direction:

Send To	Send To:					BP/GEM Facility No.: ARCO 374								C	Consultant/Contractor: URS									
Lab Nam	e: .SEQUOIA .	: T			:	BP/GEM Facility A	\ddre:	ss: · (6407	TELE	GR	APH	AVE	OAKI	ANI), C	Α	A	ddress	: 50	0 12	h St.	, Ste	200
Lab Addr	ess: 885 Jarvis Dr.	·	-			Site ID No.			AŔÇ	0 37	4 :								Oakland, CA 94609-4014					
	Morgan Hill, CA 95	037 -				Site Lat/Long:			٠		٠.							e	e-mailEDD: donna cosper@URSCorp.co					
		: •			_ <	California Global ID#: T0600100106														No.: 15-0000				
Lab PM	Theresa Allen	- ;;		٠																3-3600/510-				
Tele/Fax:	408-776-9600 / 408	782-6308	3.																Scott Robinso					
Report Ty	pe & QC Level: I Send B	DF Report	<u>s_ =</u>		<u>.</u> .		Mó	raga	CA	9457	<u>g. </u>					٠		Li	yoice	to: Co	nsul	tant/C	Contra	ictor of BP/G
BP/GEM	Account No.:		•			Tele/Fax:	925	-299	889	1/925	-299	-887	2					В	P/GEN	vi Wor	k Re	lease	No: I	NTRIM -5041
Lab Bottl	e Order No:	. : .		Mati	ix		. [· <u>P</u>	reser	vativ	eš	·	I			Re	quest		alysis				
Item No.	Sample Description	Time	Soil/Solid	(Water/Liquid	Sediments	Laboratory No.	المن of containers	Tinneserved	H.SO.	HNO	(HCI			TPH-G / BTEX	TPH-D (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE DIPE, TBA (8260)	12-DCA & EDB (8260)	Ethanol (8260)				Sample Poi Co
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Sampler'	s Name: John the	Lod a	seg) .	R	elinquished By / Affilia	ation					Date		Time		Acc	epte	d By /	Affilia	tion	:			Date
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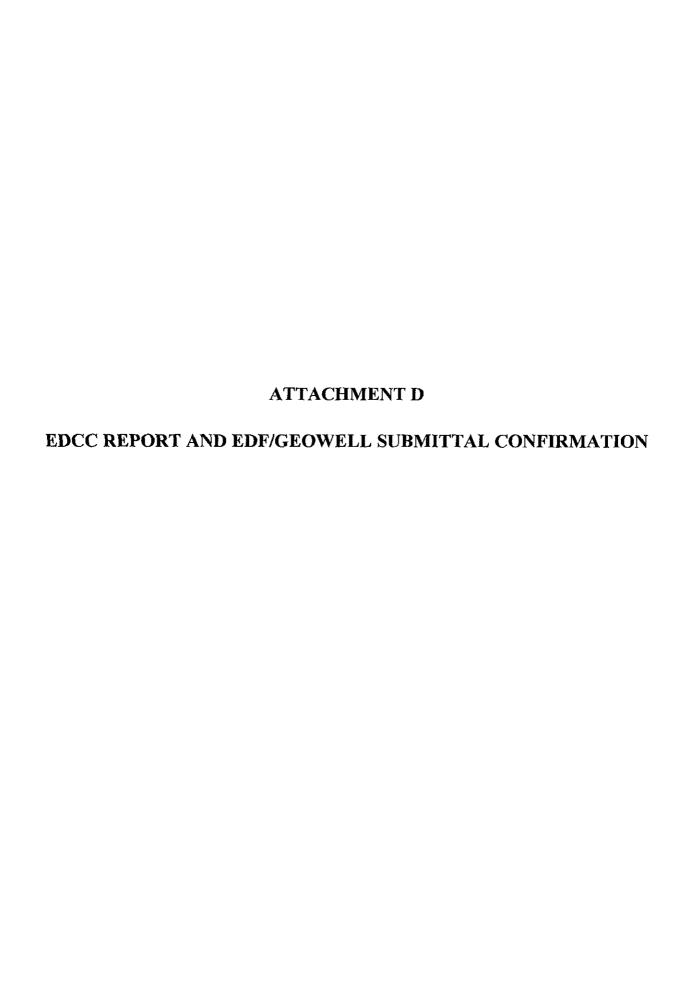
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•		/	-			<u> </u>		regulatory
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Custody Seal(s)	Present / Absent			MW-1	3) vous	nec		11/20/03
	Intact / Broken*				(2) voes		1	1770
2. Chain-of-Custody	Present PAbsent*							
3. Traffic Reports or								
Packing List:	Present / Absent				<u> </u>			
4. Airbill:	Airbill / Sticker	ν.						
	Present Absent							
5. Airbill #;								
	Present Absent							
7. Sample IDs:	Listed Not Listed							
	on Chain-of-Custody							
8. Sample Condition:	Intact / Broken* /							
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9. Does information on	. [1/1		
chain-of-custody, trai	ffic							
reports and sample					117			
labels agree?	(Yes) No*			¥**	V			
Sample received within		·			_ \ .			
hold time:	(res) No*							
 Adequate sample volur 	, ,							
received?	(7°ES) No*-							
12. Proper Preservatives			——					
used:	(Yes) No*							
3Temp Rec. at Lab:	4°C		/			<u>_</u> ,		
Is temp 4 +/-2°C?	(es) No**							·
Acceptance range for samples re		-/-						
*Exception (if any): META	ILS I DEFONICE							
or Problem COC			ania e					
SRL rv 4.xls Revision 4 (11/10/03)	.· =	*IF CIRC	LED,	CONTACT PROJECT	MANAGER	TTA CINA	ACH RE	CORD OF I

Revision 4 (11110/03) Replaces Revision 3 (03/18/03) Effective 11/10/03

ATTACHMENT C

HISTORIC GROUNDWATER DATA



Error Summary Log

12/19/03

EDF 1.2i All files present in deliverable.

Laboratory: Sequoia Analytical Laboratories, Inc., Morgan Hill, CA

Project Name: ARCO #0374, Oakland, CA

Work Order Number: MMK0734

Global ID: T0600100106

Lab Report Number: MMK0734121120031302

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC Anmo	de Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
MMK07341211 31302	200 MW-1	MMK073401	W	CS 8260T	PH SW5030B	11/20/03	12/04/03	12/04/03	3L04009	1
		3L04009BSD1	WQ	BD1 8260T	PH SW5030B	11	12/04/03	12/04/03	3L04009	1
		3L04009BSD2	WQ	BD2 8260T	PH SW5030B	11	12/04/03	12/04/03	3L04009	1
		3L04009BS1	WQ	BS1 8260T	PH SW5030B	11	12/04/03	12/04/03	3L04009	1
		3L04009BS2	WQ	BS2 8260T	PH SW5030B	11	12/04/03	12/04/03	3L04009	1
		3L04009BLK1	WQ	LB1 8260T	PH SW5030B	11	12/04/03	12/04/03	3L04009	1

EDFSAMP: Error Summary Log

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

EDFTEST: Error Summary Log

Error type	Labsampid	Qccode	Anmoode	Exmcode	Anadate	Run number
There are no errors in this data file					11	0

EDFRES: Error Summary Log

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Error: LNOTE has an invalid note	MMK073401	cs	W	8260TPH	PR	12/04/03	1	ETHANOL
Error: LNOTE has an invalid note	3L04009BLK1	LB1	WQ	8260TPH	PR	12/04/03	1	ETHANOL
Error: LNOTE has an invalid note	3L04009BS1	BS1	WQ	8260TPH	PR	12/04/03	1	ETHANOL
Error: LNOTE has an invalid note	3L04009BSD1	BD1	WQ	8260TPH	PR	12/04/03	1	ETHANOL

EDFQC: Error Summary Log

Error type	Lablotctl	Anmoode	Parlabel	Qccode	Labqcid
There are no errors in this data files					

EDFCL: Error Summary Log

Error type	Clrevdate	Anmoode	Exmcode	Parlabei	Clcode
There are no errors in this data file	11				

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Confirmation Number: 6723354458

Date/Time of Submittal: 12/19/2003 10:43:56 AM

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Facility Name: ARCO

Submittal Title: 4Q 2003 Quarter Groundwater Monitoring

Submittal Type: GW Monitoring Report

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4Q03 GW Quarterly Monitoring

Report

Submittal Date/Time: 12/19/2003 10:45:03 AM

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