RO-494

Atlantic Richfield Company
(a BP affiliated company)

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

April 4, 2003

Re: First Quarter 2003 Groundwater Monitoring Report
ARCO Station 2111
1156 Davis St.
San Leandro, CA.

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:

Paul Supple
Environmental Business Manager

URS

April 4, 2003

Ms. Eva Chu
Hazardous Materials Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: First Quarter 2003 Groundwater Monitoring Report
ARCO Service Station # 2111
1156 Davis Street
San Leandro, California
URS Project #38486093

Dear Ms. Chu:

On behalf of Atlantic Richfield Company (ARCO – an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *First Quarter 2003 Groundwater Monitoring Report* for ARCO Service Station #2111, located at 1156 Davis Street, San Leandro, California.

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

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager

David A. Bero, P.G., R.G.
Senior Geologist

Enclosure: First Quarter 2003 Groundwater Monitoring Report

cc: Mr. Paul Supple, ARCO, P.O. Box 6549, Moraga, CA 94570

URS Corporation
500 12th Street, Suite 200
Oakland, CA 94607-4014
Tel: 510.893.3600
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REPORT

FIRST QUARTER 2003 GROUNDWATER MONITORING

ARCO SERVICE STATION #2111
1156 DAVIS STREET
SAN LEANDRO, CALIFORNIA

Prepared for
Atlantic Richfield Company

April 4, 2003

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

38486093

Date: April 4, 2003

Quarter: 1Q 03

ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

Former Facility No.:	2111	Address:	1156 Davis Street, San Leandro, California
Atlantic Richfield Co. Environmental Engineer:			Paul Supple
Consulting Co./Contact Person:			URS Corporation / Scott Robinson
Consultant Project No.:			38486093
Primary Agency:			Alameda County Health Care Services Agency (ACHCSA)

WORK PERFORMED THIS QUARTER (First – 2003):

1. Performed first quarter 2003 groundwater monitoring event on January 13, 2003.
2. Prepared and submitted fourth quarter 2002 groundwater monitoring report.
3. Well MW-2 checked monthly for free product.

WORK PROPOSED FOR NEXT QUARTER (Second – 2003):

1. Perform second quarter 2003 groundwater monitoring event.
2. Prepare and submit first quarter 2003 groundwater monitoring report.
3. Check MW-2 monthly for free product.

Current Phase of Project:	GW monitoring/sampling
Frequency of Groundwater Sampling:	Quarterly: Wells MW-1 through MW-7
Frequency of Groundwater Monitoring:	Quarterly
Is Free Product (FP) Present On-Site:	0.26 feet of FP in MW-2
FP recovered this quarter:	0.13 gallons
Cumulative FP Recovered to Date:	Approximately 2.11 gallons
Current Remediation Techniques:	Bailing free product as needed/ORC socks in wells MW-1 & MW-5
Approximate Depth to Groundwater:	12.27 (MW-6) to 15.37 (MW-1) feet
Groundwater Gradient (direction):	Southwest
Groundwater Gradient (magnitude):	0.0043 feet per foot

DISCUSSION:

TPH-g was detected in three of the six wells sampled this quarter at concentrations ranging from 52 µg/L (MW-4) to 6,400 µg/L (MW-5). Benzene was detected in one well at a concentration of 34 µg/L (MW-1). MTBE was detected in five wells at concentrations ranging from 22 µg/L (MW-4) to 33,000 µg/L (MW-7). FP was bailed from MW-2 during the groundwater sampling event in January. No FP was detected during the site visits in February and March. Starting in the second quarter, groundwater samples will be analyzed by EPA Method 8260 for TPH-g, BTEX, and fuel oxygenates.

RECOMMENDATIONS:

For well MW-3, we recommend reducing the sampling frequency from quarterly to semi-annually. This well is cross-gradient and has stable readings. For well MW-6, we recommend reducing the sampling from quarterly to annually. This well is up-gradient with no detection of the constituents of concern. Furthermore, as stated in the Corrective Action Plan submitted in October 2002, we recommend the installation of additional down-gradient wells.

ATTACHMENTS:

- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Groundwater Flow Direction and Gradient
- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – January 13, 2003
- 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 and EDF/Geowell Submittal Confirmation

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station # 2111
1156 Davis Street
San Leandro, California

Well Number	Date Sampled		Top of Riser Elevation (feet, MSL)	Depth to Groundwater (feet, TOC)	Groundwater Elevation (feet, MSL)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (8020) (µg/L)	MTBE (8260) (µg/L)	Dissolved Oxygen (mg/L)
MW-1	06/26/00		39.60	16.46	23.14	NA	NA	NA	NA	NA	NA	NA	NA
	07/20/00			16.89	22.71	360	110	<0.5	<0.5	2.7	2,100	NA	NA
	09/19/00			17.62	21.98	290	76	<0.5	<0.5	2.3	1,500	NA	NA
	12/21/00			17.39	22.21	257	64	2.89	1.31	4.57	1,080	1,060	NA
	03/13/01			15.7	23.90	<500	52.5	<5.0	<5.0	<5.0	1,430	1,370	NA
	09/18/01			18.24	21.36	<500	64	7.3	<5.0	52	810	1,100	NA
	12/28/01			15.95	23.65	<500	<5.0	<5.0	5.00	22	1,200	1,100	NA
	03/14/02			16.01	23.59	<50	<0.5	<0.5	<0.5	<0.5	34	40	NA
	04/23/02			15.43	24.17	<50	<0.5	<0.5	<0.5	<0.5	30	NA	NA
	07/17/02	NP		17.50	22.10	<50	1.2	<0.50	<0.50	<0.50	29	NA	1.6
	10/09/02			18.27	21.33	240[c]	4.9	<1.0	4.1	7.0	290	310	1.2
	01/13/03		**Free Product**	**15.37**	**24.23**	**760 [c]**	**34**	**11**	**17**	**56**	**300**	**NA**	**1.0**
MW-2	06/26/00		37.99	14.60	23.39[a]	NA	NA	NA	NA	NA	NA	NA	NA
	07/20/00			15.14	22.85	95,000	2,300	18,000	2,500	19,000	13,000	NA	NA
	09/19/00			15.95	22.04	63,000	1,200	6,300	2,000	14,000	19,000	NA	NA
	12/21/00			15.60	22.39	45,900		2,130	1,160	9,460	22,400	24,700	NA
	12/21/00[b]			NM	NC	5,010	360	189	213	626	54,300	89,200	NA
	03/13/01			13.77	23.9	3,650	98.1	<5.0	<5.0	6.42	3,590	3,260	NA
	3/13/2001[b]			NM	NC	<20,000	525	466	408	1,460	91,700	76,000	NA
	9/18/2001[a]			16.86	21.13	NS	NS	NS	NS	NS	NS	NS	NA
	12/28/01			14.28	23.71	31,000	1,500	3,800	1,300	4,800	9,300	8,800	NA
	03/14/02			14.15	23.84	1,800	25	43	43	270	990	960	NA
	04/23/02			13.60	24.39	9,000	220	110	470	2,500	8,500	NA	NA
	07/17/02	NP	SHEEN	15.75	22.24	74,000 [c]	280	290	820	10,000	19,000	NA	0.4
	10/9/02 [g]	NP		16.69	21.30	NS	NS	NS	NS	NS	NS	NS	NA
	01/13/03 [g]		**FREE PRODUCT**	**13.59**	**24.61 [h]**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NA**	**NA**

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Well Number	Date Sampled		Top of Riser Elevation (feet, MSL)	Depth to Groundwater (feet, TOC)	Groundwater Elevation (feet, MSL)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (8020) (µg/L)	MTBE (8260) (µg/L)	Dissolved Oxygen (mg/L)
MW-3	06/26/00		39.32	15.96	23.36	NA	NA	NA	NA	NA	NA	NA	NA
	07/20/00			16.42	22.90	<50	<0.5	<0.5	<0.5	<1.0	130	NA	NA
	09/19/00			17.18	22.14	190	17	<0.5	1.4	2.4	160	NA	NA
	12/21/00			16.97	22.35	187	17.8	<0.5	2.47	2.5	143	125	NA
	03/13/01			15.17	24.15	72.4	2.83	<0.5	<0.5	<0.5	126	122	NA
	09/18/01			17.81	21.51	140	6.4	<0.5	3.5	1.6	110	75	NA
	12/28/01			15.44	23.88	130	5.9	<0.5	0.99	0.55	90	63	NA
	03/14/02			15.50	23.82	<50	<0.5	<0.5	<0.5	<0.5	100	88	NA
	04/23/02			14.96	24.36	<50	<0.5	<0.5	<0.5	<0.5	77	NA	NA
	07/17/02	NP		17.09	22.23	<50	<0.50	<0.50	<0.50	<0.50	47	NA	0.8
	10/09/02	NP		17.87	21.45	<50	<0.50	<0.50	<0.50	<0.50	26	29	1.3
	01/13/03	**NP**		**14.78**	**24.54**	**ND<50**	**ND<0.50**	**ND<0.50** [l]	**ND<0.50**	**ND<0.50**	**59** [m]	**NA**	**0.8**
MW-4	06/26/00		38.10	14.59	23.51	NA	NA	NA	NA	NA	NA	NA	NA
	07/20/00			15.04	23.06	97	7.9	<0.5	<0.5	1.1	51	NA	NA
	09/19/00			15.83	22.27	110	7.0	<0.5	<0.5	<1.0	60	NA	NA
	12/21/00			15.59	22.51	120	5.6	<0.5	1.72	<0.5	46.3	48.6	NA
	03/13/01			13.73	24.37	76	0.796	<0.5	<0.5	<0.5	53.7	50.0	NA
	09/18/01			16.50	21.60	<50	<0.5	<0.5	<0.5	<0.5	25	26.0	NA
	12/28/01			14.03	24.07	<50	<0.5	<0.5	<0.5	<0.5	15	11.0	NA
	03/14/02			14.10	24.00	<50	<0.5	<0.5	<0.5	<0.5	31	28	NA
	04/23/02			13.57	24.53	<50	3	<0.5	<0.5	<0.5	42	NA	NA
	07/17/02	NP		15.76	22.34	<50	<0.50	<0.50	<0.50	<0.50	16	NA	1.2
	10/09/02	NP		16.59	21.51	<50	2.2	<0.50	<0.50	<0.50	20	23	0.8
	01/13/03	**NP**		**13.43**	**24.67**	**52** [d]	**ND<0.50**	**1.6**	**ND<0.50**	**ND<0.50**	**22**	**NA**	**0.6**

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Well Number	Date Sampled		Top of Riser Elevation (feet, MSL)	Depth to Groundwater (feet, TOC)	Groundwater Elevation (feet, MSL)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (8020) (µg/L)	MTBE (8260) (µg/L)	Dissolved Oxygen (mg/L)
MW-5	06/26/00		37.21	14.27	22.94	NA	NA	NA	NA	NA	NA	NA	NA
	07/20/00			14.69	22.52	55	<0.5	<0.5	<0.5	<1.0	14,000	NA	NA
	09/19/00			15.36	21.85	54	<0.5	<0.5	<0.5	<1.0	13,000	NA	NA
	12/21/00			15.15	22.06	72.9	2.51	<0.5	<0.5	0.961	19,200	21,200	NA
	03/13/01			13.5	23.71	<500	<5	<5	<5	<5	15,900	20,000	NA
	09/18/01			15.94	21.27	<10,000	<100	<100	<100	<1,000	22,000	20,000	NA
	12/28/01			13.45	23.76	<10,000	<100	<100	<100	<100	10,000	10,000	NA
	03/14/02			13.82	23.39	<5,000	<50	<50	<50	<50	7,100	7,700	NA
	04/23/02			13.25	23.96	<5,000	<50	<50	<50	<50	8,900	NA	NA
	07/17/02	NP		15.27	21.94	7,900 [d]	<50	<50	<50	<50	13,000	NA	1.1
	10/09/02	NP		16.02	21.19	2,400[e]	<20	<20	<20	<20	7,300	7,500	1.2
	01/13/03	**NP**		**13.20**	**24.01**	**6,400 [e]**	**ND<50 [J]**	**ND<50**	**ND<50**	**ND<50 [j]**	**8,900 [k]**	**NA**	**1.3**
MW-6	06/26/00		37.11	13.46	23.65	NA	NA	NA	NA	NA	NA	NA	NA
	07/20/00			13.94	23.17	<50	<0.5	<0.5	<0.5	<1.0	<3.0	NA	NA
	09/19/00			14.41	22.70	<50	<0.5	<0.5	<0.5	<1.0	<3.0	NA	NA
	12/21/00			14.53	22.58	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA
	03/13/01			12.67	24.44	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA
	09/18/01			15.42	21.69	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<2.0	NA
	12/28/01			12.96	24.15	<50	<0.5	<0.5	<0.5	<0.5	12	<0.5	NA
	03/14/02			12.98	24.13	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA
	04/23/02			12.44	24.67	<50	<0.5	<0.5	<0.5	<0.5	3	NA	NA
	07/17/02	NP		14.65	22.46	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	1.3
	10/09/02	NP		15.51	21.60	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	1.3
	01/13/03	**NP**		**12.27**	**24.84**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<2.5**	**NA**	**1.1**

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1156 Davis Street
San Leandro, California

Well Number	Date Sampled		Top of Riser Elevation (feet, MSL)	Depth to Groundwater (feet, TOC)	Groundwater Elevation (feet, MSL)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (8020) (µg/L)	MTBE (8260) (µg/L)	Dissolved Oxygen (mg/L)
MW-7	06/26/00		38.68	14.34	24.34	NA	NA	NA	NA	NA	NA	NA	NA
	07/20/00			15.26	23.42	14,000	5.4	<0.5	2.8	5.9	71,000	NA	NA
	09/19/00			15.70	22.98	8,400	420	38	470	220	5,600	NA	NA
	12/21/00			16.02	22.66	NS[a]	NS[a]	NS[a]	NS[a]	NS[a]	NS[a]	NS[a]	NA
	03/13/01			14.18	24.50	<2,000	154	63	46.3	127	175,000	160,000	NA
	09/18/01			17.02	21.66	<100,000	1,900	<1,000	<1,000	2,800	190,000	370,000	NA
	12/28/01			14.81	23.87	<20,000	<200	<200	<200	<200	84,000	72,000	NA
	03/14/02			14.60	24.08	<50,000	<500	<500	<500	<500	85,000	85,000	NA
	04/23/02			13.94	24.74	<20,000	530	200	220	800	67,000	NA	NA
	07/17/02	NP		16.27	22.41	26,000 [d]	720	<250	<250	860	120,000	NA	1.0
	10/09/02	NP		17.16	21.52	110,000[d]	1,500	4,400	820	5,400	97,000	120,000	0.9
	01/13/03	**NP**		**13.82**	**24.86**	**ND<50,000 [f]**	**ND<500 [f]**	**ND<500 [f]**	**ND<500 [f]**	**2,200 [f]**	**33,000 [f]**	**NA**	**0.8**

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station # 2111
1156 Davis Street
San Leandro, California

TPH	= Total Petroleum Hydrocarbons
MTBE	= Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted
µg/L	= Micrograms per liter
NA	= Not available
NM	= Not measured
NC	= Not calculated
NP	= Well not purged before sampling
MSL	= Mean sea level
TOC	= Top of casing
<	= Not detected at or above specified laboratory method detection limit
a	= Product sheen noted
b	= Well was sampled after batch extraction event.
c	= Chromatogram Pattern: Gasoline C6-C10
d	= Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel
e	= Discrete peak @C6-C7
f	= This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
g	= Well not sampled due to the detection of free product.
h	= Groundwater elevation adjusted for free product: (thickness of free product x 0.8) + measured groundwater elevation
j	= The closing calibration was outside acceptance limits by 1%. This should be considered in evaluating the result. The average % difference for all analytes met the 15% requirement and the QC suggests that calibration linearity is not a factor.
k	= The closing calibration was outside acceptance limits by 6%. This should be considered in evaluating the result. The average % difference for all analytes met the 15% requirement and the QC suggests that calibration linearity is not a factor.
l	= This analyse was not confirmed using a secondary column in accordance to client contract.
m	= This analyze was not confirmed using a secondary column in accordance to client contract.
Source:	The data within this table collected prior to July 2002 was provided to URS by Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.

Table 2

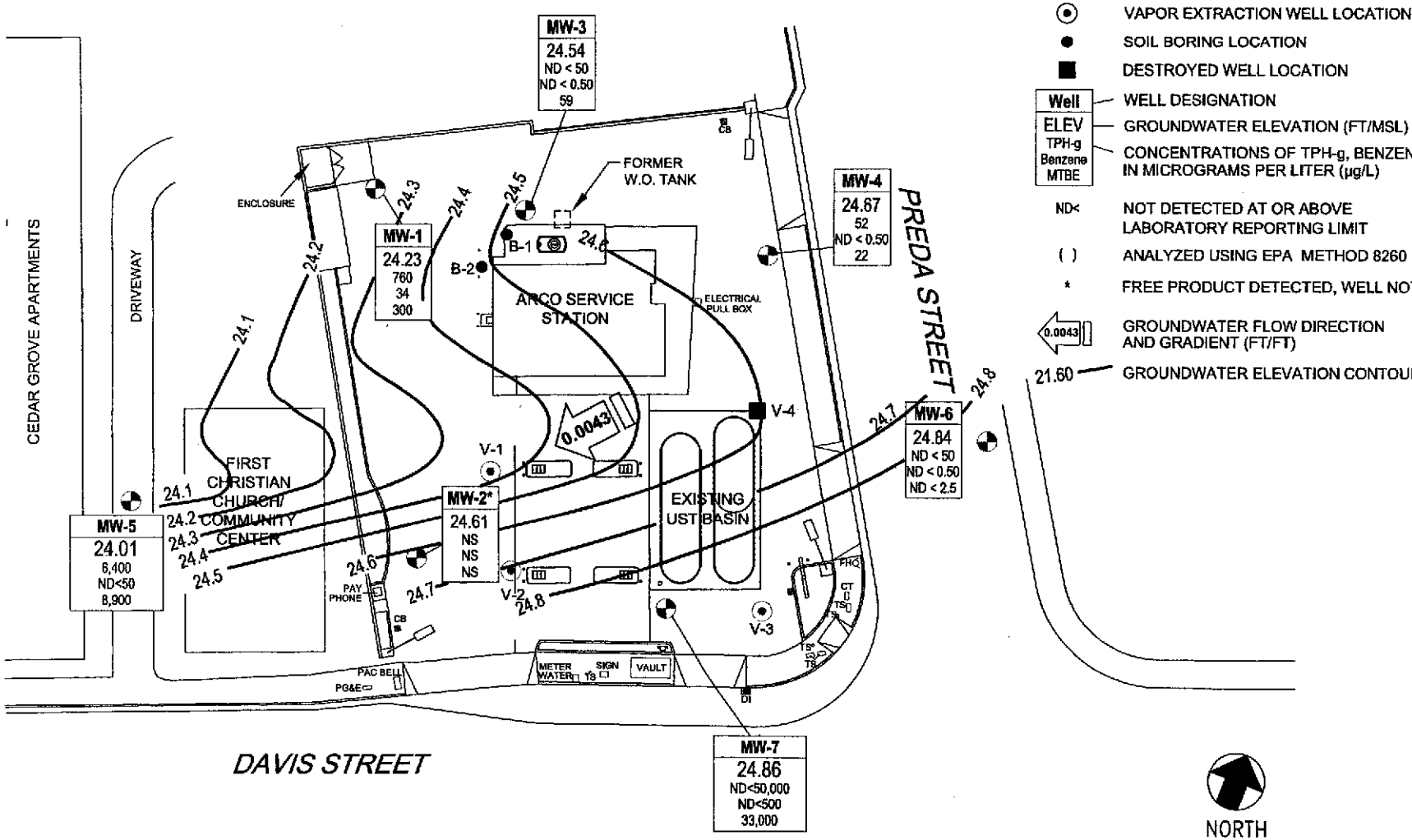
Groundwater Flow Direction and Gradient

ARCO Service Station # 2111
1156 Davis Street
San Leandro, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
07/20/00	West-Northwest	0.006
09/19/00	West-Northwest	0.004
12/21/00	West-Northwest	0.004
03/13/01	West-Northwest	0.005
05/30/01	West-Northwest	0.004
09/18/01	West-Northwest	0.003
12/28/01	West-Northwest	0.003
03/14/02	West	0.004
04/23/02	West	0.006
07/17/02	West	0.003
10/09/02	West	0.002
01/13/03	**Southwest**	**0.004**

Note: The data within this table collected prior to July 2002 was provided to URS by Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.

X:\x_env\waste\BP GEM\Sites\Scott Robinson\Paul Supple\2111\Reports\Monitoring\Qtr. 1, 2003\Drawings\GWEC-AS_01-13.dwg



LEGEND

- MONITORING WELL LOCATION
- VAPOR EXTRACTION WELL LOCATION
- SOIL BORING LOCATION
- DESTROYED WELL LOCATION
- Well — WELL DESIGNATION
- ELEV — GROUNDWATER ELEVATION (FT/MSL)
- TPH-g, Benzene, MTBE — CONCENTRATIONS OF TPH-g, BENZENE & MTBE IN MICROGRAMS PER LITER (µg/L)
- ND< — NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMIT
- ( ) — ANALYZED USING EPA METHOD 8260
- * — FREE PRODUCT DETECTED, WELL NOT SAMPLED
- 0.0043 — GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)
- 21.60 — GROUNDWATER ELEVATION CONTOUR (FT/MSL)

NORTH

0 40 80

SCALE IN FEET

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

URS	Project No. 38486093 Arco Service Station #2111 1156 Davis Street San Leandro, California	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP First Quarter 2003 (January 13, 2003)	FIGURE 1

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 # 030113-BA2 Date 1/13/03 Client Aeco 211

Site 1156 Davis St, San Leandro

JP	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 TOC	
2.5'	MW-1	4					15.37 *	26.22	TOC	ORCs
2'	MW-2	4	odor	13.33	.26	500	13.59	26.68		
1.9'	MW-3	4					14.78	26.65		
0'	MW-4	4					13.43	21.63		
1.4'	MW-5	2					13.20 *	23.85		ORCs
0'	MW-6	2	pressure - allowed to stabilize				12.27	24.82		
2'	MW-7	4					13.82	27.18		

* Gauged w/ ORCs in well

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030113-BA2	Station # 2111
Sampler: Brian Allcorn	Date: 01/13/03
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 26.22	Depth to Water: 15.37
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) 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	radius² * 0.163

Purge Method: Bailer / Disposable Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: ___

Top of Screen: 12.5'

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

1 Case Volume (Gals.)	x	Specified Volumes	=	Calculated Volume
/	x	No Purge	=	/ Gals.

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
1150	66.6	6.8	709	/	clear

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

Sampling Time: 1150 Sampling Date: 1/13/03

Sample I.D.: MW-1 Laboratory: Pace (Sequoia) Other ___

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge:) 1.0	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030113-BA2	Station # 2111
Sampler: BRIAN ALCORN	Date: 01/13/03
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 26.68	Depth to Water: 13.59
Depth to Free Product: 13.33	Thickness of Free Product (feet): .26
Referenced to: (PVC) 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: Bailer / Disposable Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / Disposable Bailer / Extraction Port / Other: ___

Top of Screen: 12'

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

1 Case Volume (Gals.)	X	Specified Volumes	=	Calculated Volume	Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
	FREE PRODUCT ENCOUNTERED				
	BAILED INTO STEEL DRUM LEFT ON SITE				

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: Sampling Date:

Sample I.D.: Laboratory: Pace Sequoia Other ___

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

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 #: 030113-BA2	Station # 2111
Sampler: BRIAN ALLORN	Date: 01/13/03
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 26.65	Depth to Water: 14.78
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) 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	radius² * 0.163

Purge Method: Bailer / Disposable Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: ___

Top of Screen: 11.9'

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

1 Case Volume (Gals.)	x	Specified Volumes	=	Calculated Volume
/	x	No Purge	=	/ Gals.

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
1135	67.2	6.8	672	/	clear

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

Sampling Time: 1135 Sampling Date: 1/13/03

Sample I.D.: MW-3 Laboratory: Pace (Sequoia) Other ___

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030113-BA2	Station # 2111
Sampler: BRIAN ALLORN	Date: 01/13/03
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 21.63	Depth to Water: 13.43
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) 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	radius² * 0.163

Purge Method: Bailer / ~~Disposable Bailer~~ / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: ___

Top of Screen: 10' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

1 Case Volume (Gals.)	x	Specified Volumes	=	Calculated Volume
___	x	No Purge	=	___ Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1110	69.8	6.16	801	/	clear

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

Sampling Time: 1110 Sampling Date: 1/13/03

Sample I.D.: MW-4 Laboratory: Pace (Sequoia) Other ___

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	0.6 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030113-BA2	Station # 2111
Sampler: Brian Alcorn	Date: 01/13/03
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 23.85	Depth to Water: 13.20
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) 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	radius² * 0.163

Purge Method: Bailer / Disposable Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: ___

Top of Screen: 9.4' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

1 Case Volume (Gals.)	X	Specified Volumes	=	Calculated Volume
/	X	No Purge	=	/ Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1210	65.6	6.8	702	/	clear / mild odor

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

Sampling Time: 1210 Sampling Date: 1/13/03

Sample I.D.: MW-5 Laboratory: Pace (Sequoia) Other ___

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge)	1.3 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030113-BA2	Station # 2111
Sampler: BRIAN ALLCORN	Date: 01/13/03
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 24.82	Depth to Water: 12.27
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) 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	radius² * 0.163

Purge Method: Bailer / Disposable Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: ____

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: ____

Top of Screen: 10'

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

1 Case Volume (Gals.)	x	Specified Volumes	=	Calculated Volume
✓	x	No Purge	=	✓ Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1050	67.8	6.8	825	✓	cloudy brown

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

Sampling Time: 1050 Sampling Date: 1/13/03

Sample I.D.: MW-6 Laboratory: Pace (Sequoia) Other ____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge)	1.1 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030113-BA2	Station # 2111
Sampler: BRIAN ALLORN	Date: 01/13/03
Well I.D.: MW-7	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 27.18	Depth to Water: 13.82
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) 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	radius² * 0.163

Purge Method: Bailer / (Disposable Bailer) / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: ___

Top of Screen: 12'

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

1 Case Volume (Gals.)	x Specified Volumes	= Calculated Volume
/	x No Purge	/ Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1225	67.4	6.6	1024	/	clear/odor

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

Sampling Time: 1225 Sampling Date: 1/13/03

Sample I.D.: MW-7 Laboratory: Pace (Sequoia) Other ___

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other:

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

Chain of Custody Record

Project Name
BP BU/GEM CO Portfolio:
BP Laboratory Contract Number:
Requested Due Date (mm/dd/yy) Standard

On-site Time:	Temp:
Off- site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

ate: 1/13/03

ıd To:	
Name:	SEQUOIA
Address:	885 Jarvis Dr. Morgan Hill, CA 95037
PM:	Latonya Pelt
e/Fax:	408-776-9600 / 408-782-6308
port Type & QC Level:	Send EDF Reports
/GEM Account No.:	
Bottle Order No:	

BP/GEM Facility No.:	
BP/GEM Facility Address:	1156 DAVIS ST, San Leandro, CA
Site ID No.	ARCO 2111
Site Lat/Long:	
California Global ID #:	T0600101764
BP/GEM PM Contact:	PAUL SUPPLE
Address:	
Tele/Fax:	

Consultant/Contractor:	URS
Address:	500 12th St., Ste. 200 Oakland, CA 94608-4014
e-mail EDD:	syed_rehan@urscorp.com
Consultant/Contractor Project No.:	15-00002111.01 00427
Consultant Tele/Fax:	510-874-1735/510-874-3268
Consultant/Contractor PM:	Scott Robinson
Invoice to:	Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Work Release No:	INTRIM -50277

em No.	Sample Description	Time	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Sediments	Matrix: Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Requested Analysis: TPH-G / BTEX (8015 / 8021)	Requested Analysis: TPH-D (8015)	Requested Analysis: MTBE (8021)	Requested Analysis: MTBE, TAME, ETBE DIPE, TBA (8260)	Requested Analysis: 1,2-DCA & EDB (8260)	Sample Point Lat/Long and Comments
1	MW-1	1150		X				3				X	X		X			
2	~~MW-2~~																	
3	MW-3	1135		X				3				X	X		X			
4	MW-4	1110		X				3				X	X		X			
5	MW-6	1050		X				3				X	X		X			
6	MW-7	1225		X				6				X	X		X			
7																		
8																		
9																		
10																		

ımpler's Name:	Brian Alcorn	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
ımpler's Company:	Blaine Tech Services						
ıipment Date:							
ıipment Method:							
ıipment Tracking No:							

ıecial Instructions: Address Invoice to BP/GEM but send to URS for approval Confirm MTBE Hit on MW-7 by 8260

ustody Seals In Place Yes___ No___ Temperature Blank Yes___ No___ Cooler Temperature on Receipt ___°F/C Trip Blank Yes___ No___

Chain of Custody Record

bp

Project Name
BP BU/GEM CO Portfolio:
BP Laboratory Contract Number:
Requested Due Date (mm/dd/yy) Standard

On-site Time:	Temp:
Off- site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Date: 1/13/03

nd To:	
b Name:	SEQUOIA
b Address:	885 Jarvis Dr. Morgan Hill, CA 95037
b PM:	Latonya Pelt
le/Fax:	408-776-9600 / 408-782-6308
:port Type & QC Level:	Send EDF Reports
P/GEM Account No.:	
ab Bottle Order No:	

BP/GEM Facility No.:	
BP/GEM Facility Address:	1156 DAVIS ST, San Leandro, CA
Site ID No.	ARCO 2111
Site Lat/Long:	
California Global ID #:	T0600101764
BP/GEM PM Contact:	PAUL SUPPLE
Address:	
Tele/Fax:	

Consultant/Contractor:	URS
Address:	500 12th St., Ste. 200 Oakland, CA 94609-4014
e-mail EDD:	syed_rehan@urscorp.com
Consultant/Contractor Project No.:	J5-00002111.01 00427
Consultant Tele/Fax:	510-874-1735/510-874-3268
Consultant/Contractor PM:	Scott Robinson
Invoice to:	Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Work Release No:	INTRIM -50277

Item No.	Sample Description	Time	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Sediments	Matrix: Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Requested Analysis: TPH-G / BTEX (8015 / 8021)	Requested Analysis: TPH –D (8015)	Requested Analysis: MTBE (8021)	Requested Analysis: MTBE, TAME, ETBE DIPE, TBA (8260)	Requested Analysis: 1,2-DCA & EDB (8260)	Sample Point Lat/Long and Comments
1	MW-5	1210						6				X	X		X			
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: Brian Alcorn						
Sampler's Company: Blaine Tech Services						
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Address Invoice to BP/GEM but send to URS for approval Confirm MTBE Hit by 8260

Custody Seals In Place Yes___ No___ Temperature Blank Yes___ No___ Cooler Temperature on Receipt ___°F/C Trip Blank Yes___ No___

WELLHEAD INSPECTION CHECKLIST

Client ARCO 2111 Date 1/13/03

Site Address 1156 DAVIS ST, SAN LEANDRO

Job Number 030113-BA2 Technician BRIAN ALLORD

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-1	X							X
MW-2								
MW-3	X							X
MW-4	X							X
MW-5	X							X
MW-6		X	X					X
MW-7	~~X~~ NO				X			X

NOTES:

WELL GAUGING DATA

Project # 030324-554 Date 03/24/03 Client Kleen #2111

Site 1154 DAVIS ST. SAN LEANDRO, CA.

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 TOC	
MW-2	4	ODOR				14.45	26.69	TOC	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030214-MT3	Station # 2111
Sampler: M. Toll	Date: 02-14-03
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 26.68	Depth to Water: 14.25
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) 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: Bailer / Disposable Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / Disposable Bailer / 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.

1 Case Volume (Gals.)	X	Specified Volumes	=	Calculated Volume Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
	No SPH detected				

Did well dewater? Yes No		Gallons actually evacuated:	
Sampling Time:		Sampling Date:	
Sample I.D.:		Laboratory: Pace Sequoia Other_____	
Analyzed for: TPH-G BTEX MTBE TPH-D Other:			
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

WELLHEAD INSPECTION CHECKLIST

Client ARCO #2111 Date

Site Address 1150 DAVIS ST. SAN LEANDRO CA

Job Number 020324-554 Technician SOOCH

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-2	X							

NOTES:

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 Group Environmental Management Company have been reviewed and verified by that laboratory.

Sequoia Analytical

885 Jarvis Dr
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

19 February, 2003

Scott Robinson
URS Corporation
500 12th Street, Suite 100
Oakland, CA 94607

RE: ARCO #2111, San Leandro, Ca
Sequoia Work Order: MMA0279

Enclosed are the results of analyses for samples received by the laboratory on 01/14/03 10:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya K. Pelt

Latonya Pelt
Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

885 Jarvis Dr
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

URS Corporation	Project: ARCO #2111, San Leandro, Ca	MMA0279
500 12th Street, Suite 100	Project Number: ARCO #2111, San Leandro, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	02/19/03 07:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MMA0279-01	Water	01/13/03 11:50	01/14/03 10:45
MW-3	MMA0279-02	Water	01/13/03 11:35	01/14/03 10:45
MW-4	MMA0279-03	Water	01/13/03 11:10	01/14/03 10:45
MW-6	MMA0279-04	Water	01/13/03 10:50	01/14/03 10:45
MW-7	MMA0279-05	Water	01/13/03 12:25	01/14/03 10:45
MW-5	MMA0279-06	Water	01/13/03 12:10	01/14/03 10:45

There were no custody seals that were received with this project.

Sequoia Analytical

885 Jarvis Dr
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

URS Corporation	Project: ARCO #2111, San Leandro, Ca	MMA0279
500 12th Street, Suite 100	Project Number: ARCO #2111, San Leandro, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	02/19/03 07:20

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (MMA0279-04) Water Sampled: 01/13/03 10:50 Received: 01/14/03 10:45									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	3A27004	01/27/03	01/27/03	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93.0 %*		*55-142*	"	"	"	"	
MW-7 (MMA0279-05) Water Sampled: 01/13/03 12:25 Received: 01/14/03 10:45									
Gasoline Range Organics (C6-C10)	ND	50000	ug/l	1000	3B05002	02/05/03	02/05/03	8015Bm/8021B	HT-04
Benzene	ND	500	"	"	"	"	"	"	HT-04
Toluene	ND	500	"	"	"	"	"	"	HT-04
Ethylbenzene	ND	500	"	"	"	"	"	"	HT-04
Xylenes (total)	**2200**	500	"	"	"	"	"	"	HT-04
Methyl tert-butyl ether	**33000**	2500	"	"	"	"	"	"	HT-04
Surrogate: a,a,a-Trifluorotoluene		*101 %*		*55-142*	"	"	"	"	*HT-04*
MW-5 (MMA0279-06) Water Sampled: 01/13/03 12:10 Received: 01/14/03 10:45									
Gasoline Range Organics (C6-C10)	**6400**	5000	ug/l	100	3A27004	01/27/03	01/27/03	8015Bm/8021B	HC-19
Benzene	ND	50	"	"	"	"	"	"	Q-23
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Xylenes (total)	ND	50	"	"	"	"	"	"	Q-23
Methyl tert-butyl ether	**8900**	250	"	"	"	"	"	"	Q-23a
Surrogate: a,a,a-Trifluorotoluene		*97.3 %*		*55-142*	"	"	"	"	

Sequoia Analytical

885 Jarvis Dr
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

URS Corporation	Project: ARCO #2111, San Leandro, Ca	MMA0279
500 12th Street, Suite 100	Project Number: ARCO #2111, San Leandro, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	02/19/03 07:20

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3A27003 - EPA 5030B [P/T]										
Blank (3A27003-BLK1)				Prepared & Analyzed: 01/27/03						
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*8.56*		"	*10.0*		*85.6*	*55-142*			
Laboratory Control Sample (3A27003-BS1)				Prepared & Analyzed: 01/27/03						
Benzene	8.57	0.50	ug/l	10.0		85.7	68-140			
Toluene	8.93	0.50	"	10.0		89.3	76-127			
Ethylbenzene	9.35	0.50	"	10.0		93.5	77-130			
Xylenes (total)	27.6	0.50	"	30.0		92.0	78-128			
Surrogate: a,a,a-Trifluorotoluene	*9.10*		"	*10.0*		*91.0*	*55-142*			
Laboratory Control Sample (3A27003-BS2)				Prepared & Analyzed: 01/27/03						
Gasoline Range Organics (C6-C10)	248	50	ug/l	250		99.2	62-134			
Surrogate: a,a,a-Trifluorotoluene	*11.1*		"	*10.0*		*111*	*55-142*			
Matrix Spike (3A27003-MS1)		**Source: MMA0564-01**		Prepared & Analyzed: 01/27/03						
Gasoline Range Organics (C6-C10)	496	50	ug/l	550	ND	90.2	62-134			
Benzene	8.19	0.50	"	6.80	ND	119	68-140			
Toluene	36.9	0.50	"	41.0	ND	89.3	76-127			
Ethylbenzene	9.00	0.50	"	9.80	ND	91.8	77-130			
Xylenes (total)	42.9	0.50	"	47.9	ND	89.0	78-128			
Surrogate: a,a,a-Trifluorotoluene	*13.4*		"	*10.0*		*134*	*55-142*			
Matrix Spike Dup (3A27003-MSD1)		**Source: MMA0564-01**		Prepared & Analyzed: 01/27/03						
Gasoline Range Organics (C6-C10)	513	50	ug/l	550	ND	93.3	62-134	3.37	41	
Benzene	8.77	0.50	"	6.80	ND	128	68-140	6.84	30	

Sequoia Analytical

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Morgan Hill, CA 95037
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URS Corporation	Project: ARCO #2111, San Leandro, Ca	MMA0279
500 12th Street, Suite 100	Project Number: ARCO #2111, San Leandro, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	02/19/03 07:20

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3A27003 - EPA 5030B [P/T]										
Matrix Spike Dup (3A27003-MSD1)		**Source: MMA0564-01**		Prepared & Analyzed: 01/27/03						
Toluene	39.1	0.50	ug/l	41.0	ND	94.7	76-127	5.79	30	
Ethylbenzene	9.57	0.50	"	9.80	ND	97.7	77-130	6.14	21	
Xylenes (total)	45.9	0.50	"	47.9	ND	95.3	78-128	6.76	21	
Surrogate: a,a,a-Trifluorotoluene	*13.1*		"	*10.0*		*131*	*55-142*			
Batch 3A27004 - EPA 5030B [P/T]										
Blank (3A27004-BLK1)				Prepared & Analyzed: 01/27/03						
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*9.43*		"	*10.0*		*94.3*	*55-142*			
Laboratory Control Sample (3A27004-BS1)				Prepared & Analyzed: 01/27/03						
Benzene	9.53	0.50	ug/l	10.0		95.3	68-140			
Toluene	9.59	0.50	"	10.0		95.9	76-127			
Ethylbenzene	9.91	0.50	"	10.0		99.1	77-130			
Xylenes (total)	30.1	0.50	"	30.0		100	78-128			
Surrogate: a,a,a-Trifluorotoluene	*9.79*		"	*10.0*		*97.9*	*55-142*			
Laboratory Control Sample (3A27004-BS2)				Prepared & Analyzed: 01/27/03						
Gasoline Range Organics (C6-C10)	282	50	ug/l	250		113	62-134			
Surrogate: a,a,a-Trifluorotoluene	*14.9*		"	*10.0*		*149*	*55-142*			*S-02*

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URS Corporation	Project: ARCO #2111, San Leandro, Ca	MMA0279
500 12th Street, Suite 100	Project Number: ARCO #2111, San Leandro, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	02/19/03 07:20

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3A27004 - EPA 5030B [P/T]										
Matrix Spike (3A27004-MS1)		**Source: MMA0279-04**		Prepared & Analyzed: 01/27/03						
Gasoline Range Organics (C6-C10)	489	50	ug/l	550	ND	88.9	62-134			
Benzene	7.55	0.50	"	6.80	ND	111	68-140			Q-23
Toluene	41.1	0.50	"	41.0	ND	99.9	76-127			
Ethylbenzene	9.07	0.50	"	9.80	ND	92.6	77-130			
Xylenes (total)	45.3	0.50	"	47.9	ND	94.6	78-128			Q-23
Surrogate: a,a,a-Trifluorotoluene	*17.0*		"	*10.0*		*170*	*55-142*			*S-02*
Matrix Spike Dup (3A27004-MSD1)		**Source: MMA0279-04**		Prepared & Analyzed: 01/27/03						
Gasoline Range Organics (C6-C10)	505	50	ug/l	550	ND	91.8	62-134	3.22	41	
Benzene	7.60	0.50	"	6.80	ND	112	68-140	0.660	30	Q-23
Toluene	43.1	0.50	"	41.0	ND	105	76-127	4.75	30	
Ethylbenzene	9.13	0.50	"	9.80	ND	93.2	77-130	0.659	21	
Xylenes (total)	45.7	0.50	"	47.9	ND	95.4	78-128	0.879	21	Q-23
Surrogate: a,a,a-Trifluorotoluene	*16.4*		"	*10.0*		*164*	*55-142*			*QM-07*
Batch 3B05002 - EPA 5030B [P/T]										
Blank (3B05002-BLK1)				Prepared & Analyzed: 02/05/03						
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*10.5*		"	*10.0*		*105*	*55-142*			
Laboratory Control Sample (3B05002-BS1)				Prepared & Analyzed: 02/05/03						
Benzene	8.51	0.50	ug/l	10.0		85.1	68-140			
Toluene	8.64	0.50	"	10.0		86.4	76-127			
Ethylbenzene	9.62	0.50	"	10.0		96.2	77-130			
Xylenes (total)	28.0	0.50	"	30.0		93.3	78-128			

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URS Corporation	Project: ARCO #2111, San Leandro, Ca	MMA0279
500 12th Street, Suite 100	Project Number: ARCO #2111, San Leandro, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	02/19/03 07:20

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3B05002 - EPA 5030B [P/T]										
Laboratory Control Sample (3B05002-BS1)				Prepared & Analyzed: 02/05/03						
Surrogate: a,a,a-Trifluorotoluene	*10.2*		*ug/l*	*10.0*		*102*	*55-142*			
Laboratory Control Sample (3B05002-BS2)				Prepared & Analyzed: 02/05/03						
Gasoline Range Organics (C6-C10)	237	50	ug/l	250		94.8	62-134			
Surrogate: a,a,a-Trifluorotoluene	*10.3*		*"*	*10.0*		*103*	*55-142*			
Laboratory Control Sample Dup (3B05002-BSD1)				Prepared & Analyzed: 02/05/03						
Benzene	9.17	0.50	ug/l	10.0		91.7	68-140	7.47	30	
Toluene	9.28	0.50	"	10.0		92.8	76-127	7.14	30	
Ethylbenzene	10.4	0.50	"	10.0		104	77-130	7.79	21	
Xylenes (total)	30.1	0.50	"	30.0		100	78-128	7.23	21	
Surrogate: a,a,a-Trifluorotoluene	*11.3*		*"*	*10.0*		*113*	*55-142*			
Laboratory Control Sample Dup (3B05002-BSD2)				Prepared: 02/05/03 Analyzed: 02/06/03						
Gasoline Range Organics (C6-C10)	218	50	ug/l	250		87.2	62-134	8.35	41	
Surrogate: a,a,a-Trifluorotoluene	*11.3*		*"*	*10.0*		*113*	*55-142*			

Sequoia Analytical

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URS Corporation	Project: ARCO #2111, San Leandro, Ca	MMA0279
500 12th Street, Suite 100	Project Number: ARCO #2111, San Leandro, CA	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	02/19/03 07:20

Notes and Definitions

A-01	This analyse was not confirmed using a sacondary columm in accordance to client contract.
A-01a	This analyze was not confirmed using a secondary columm in accordance to client contract.
HC-12	Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
HC-19	Discrete peak @ C6-C7.
HC-21	Chromatogram Pattern: Gasoline C6-C10
HT-04	This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
Q-23	The closing calibration was outside acceptance limits by 1%. This should be considered in evaluating the result. The average % difference for all analytes met the 15% requirement and the QC suggests that calibration linearity is not a factor.
Q-23a	The closing calibration was outside acceptance limits by 6%. This should be considered in evaluating the result. The average % difference for all analytes met the 15% requirement and the QC suggests that calibration linearity is not a factor.
QM-07	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
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

bp

Chain of Custody Record (MMA 0279)

Project Name:
BP BU/GEM CO Portfolio:
BP Laboratory Contract Number:
Requested Due Date (mm/dd/yy) Standard

Date: 1/13/03

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Send To:
Lab Name: SEQUOIA
Lab Address: 885 Jarvis Dr. Morgan Hill, CA 95037
Lab PM: Latonya Pelt
Tele/Fax: 408-776-9600 / 408-782-6308
Report Type & QC Level: Send EDF Reports
BP/GEM Account No.:
Lab Bottle Order No:

BP/GEM Facility No.:
BP/GEM Facility Address: 1156 DAVIS ST, San Leandro, CA
Site ID No. ARCO 2111
Site Lat/Long:
California Global ID #: T0600101764
BP/GEM PM Contact: PAUL SUPPLE
Address:
Tele/Fax:

Consultant/Contractor: URS
Address: 500 12th St., Ste. 200 Oakland, CA 94609-4014
e-mail EDD: syed_rehan@urscorp.com
Consultant/Contractor Project No.: 35-00002111.01 00427
Consultant Tele/Fax: 510-874-1735/510-874-3268
Consultant/Contractor PM: Scott Robinson
Invoice to: Consultant/Contractor or BP/GEM (circle one)
BP/GEM Work Release No: INTRIM -50277

Item No.	Sample Description	Time	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Sediments	Matrix: Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl			Requested Analysis: TPH-G / BTEX (8015 / 8021)	TPH - D (8015)	MTBE (8021)	MTBE, TAME, ETBE DIPE, TBA (8260)	1,2-DCA & EDB (8260)					Sample Point Lat/Long and Comments
1	MW-1	1150		X				3				X			X		X							
2	~~MW-2~~																							
3	MW-3	1135		X				3				X			X		X							
4	MW-4	1110		X				3				X			X		X							
5	MW-6	1050		X				3				X			X		X							
6	MW-7	1225		X				6				X			X		X							
7																								
8																								
9																								
10																								

Sampler's Name: Brian Alcorn
Sampler's Company: Blaine Tech Services
Shipment Date:
Shipment Method:
Shipment Tracking No:
Special Instructions: Address Invoice to BP/GEM but send to URS for approval. Confirm MTBE Hit on MW-7 by 8260

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
[signature]	1/14/03	1005	[signature]	1/14/03	1005
[signature]	1/14/03	1045	Aurelia Juado [signature]	1-14-03	1045

Custody Seals In Place Yes ___ No X Temperature Blank Yes ___ No X Cooler Temperature on Receipt 3.8 °F/C Trip Blank Yes ___ No X

White Copy - Laboratory / Yellow Copy - BP/GEM / Pink Copy - Consultant/Contractor

Chain of Custody Record

mmA0279

Project Name
BP BU/GEM CO Portfolio:
BP Laboratory Contract Number:
Date: 1/13/03 Requested Due Date (mm/dd/yy) Standard

On-site Time:	Temp:
Off- site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Send To:	
Lab Name:	SEQUOIA
Lab Address:	885 Jarvis Dr. Morgan Hill, CA 95037
Lab PM:	Latonya Pelt
Tele/Fax:	408-776-9600 / 408-782-6308
Report Type & QC Level:	Send EDF Reports
BP/GEM Account No.:	
Lab Bottle Order No:	

BP/GEM Facility No.:	
BP/GEM Facility Address:	1156 DAVIS ST. San Leandro, CA
Site ID No.	ARCO 2111
Site Lat/Long:	
California Global ID #:	T0600101764
BP/GEM PM Contact:	PAUL SUPPLE
Address:	
Tele/Fax:	

Consultant/Contractor:	URS
Address:	500 12th St., Ste. 200 Oakland, CA 94609-4014
e-mail EDD:	syed_rehan@urscorp.com
Consultant/Contractor Project No.:	38-00002111.01 00427
Consultant Tele/Fax:	510-874-1735/510-874-3268
Consultant/Contractor PM:	Scott Robinson
Invoice to:	Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Work Release No:	INTRIM -50277

Item No.	Sample Description	Time	Matrix: Soil/Solid	Water/Liquid	Sediments	Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	Requested Analysis: TPH-G / BTEX (8015 / 8021)	TPH-D (8015)	MTBE (8021)	NITDE, TAME, EDB, DIPE, TBA (8260)	1,2-DCA & EDB (8260)	Sample Point Lat/Long and Comments
1	MW-5	12:10						6				X	X		X			
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: Brian Alcaraz		1/14/03	1005		1/14/03	1005
Sampler's Company: Blaine Tech Services		1/14/03	1045	Claudia Jensen	1-14-03	1045
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Address Invoice to BP/GEM but send to URS for approval. Confirm MTBE Hit by 8260

Ice Chest Intact? Yes No Temperature Blank Yes No Cooler Temperature on Receipt °F/C Trip Blank Yes No

White Copy - Laboratory / Yellow Copy - BP/GEM / Pink Copy - Consultant/Contractor

BP COC Rev. 1 2/5/02

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

AD

CLIENT NAME: LARS
REC. BY (PRINT): AS
WORKORDER: MMA 0279

DATE Received at Lab: 1-14-03
TIME Received at Lab: 1045
LOG IN DATE: 1-14-03

Drinking water for regulatory purposes: YES / (NO)
Wastewater for regulatory purposes: YES / (NO)

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	#	CLIENT ID	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / (Absent)	1		MW-1	(3)VOAs HCl	L	1-13-03	Lot B 2270020
	Intact / Broken*	2		MW-3	↓	↓	↓	
2. Chain-of-Custody	(Present) / Absent*	3		MW-4	↓	↓	↓	
3. Traffic Reports or Packing List:	Present / (Absent)	4		MW-6	↓	↓	↓	
		5		MW-7	(6)VOAs HCl	↓	↓	
4. Airbill:	Airbill / Sticker Present / (Absent)	6		MW-5	↓	↓	↓	
5. Airbill #:								
6. Sample Labels:	(Present) / Absent							
7. Sample IDs:	(Listed) / Not Listed on Chain-of-Custody							
8. Sample Condition:	(Intact) / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample labels agree?	(Yes) / No*							
10. Sample received within hold time:	(Yes) / No*							
11. Proper Preservatives used:	(Yes) / No*							
12. Temp Rec. at Lab: 3.6°C								
Is temp 4 +/-2°C?	(Yes) / No**							

(Acceptance range for samples requiring thermal pres.)

**Exception (if any): Metals / DFF on ice? / DFF no ice? or Problem COC

1-14-03 AS

*If Circled, contact Project Manager and attach record of resolution.

ATTACHMENT C

HISTORIC GROUNDWATER DATA

ATTACHMENT D

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

02/27/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #2111, San Leandro,
Work Order Number:	MMA0279
Global ID:	T0600101764
Lab Report Number:	MMA0279021920030720

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
MMA02790219200 30720	MW-1	MMA027901	W	CS	SW8021F	SW5030B	01/13/03	01/27/03	01/27/03	3A27003	1
MMA02790219200 30720	MW-3	MMA027902	W	CS	SW8021F	SW5030B	01/13/03	01/27/03	01/27/03	3A27003	1
MMA02790219200 30720	MW-4	MMA027903	W	CS	SW8021F	SW5030B	01/13/03	01/27/03	01/27/03	3A27004	1
MMA02790219200 30720	MW-5	MMA027906	W	CS	SW8021F	SW5030B	01/13/03	01/27/03	01/27/03	3A27004	1
MMA02790219200 30720	MW-6	MMA027904	W	CS	SW8021F	SW5030B	01/13/03	01/27/03	01/27/03	3A27004	1
MMA02790219200 30720	MW-7	MMA027905	W	CS	SW8021F	SW5030B	01/13/03	02/05/03	02/05/03	3B05002	1
		MMA056401	W	NC	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27003	1
		3A27003BS1	WQ	BS1	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27003	1
		3A27003BS2	WQ	BS2	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27003	1
		3A27003BLK1	WQ	LB1	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27003	1
		3A27003MS1	W	MS1	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27003	1
		3A27003MSD1	W	SD1	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27003	1
		3A27004BS1	WQ	BS1	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27004	1
		3A27004BS2	WQ	BS2	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27004	1
		3A27004BLK1	WQ	LB1	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27004	1
		3A27004MS1	W	MS1	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27004	1
		3A27004MSD1	W	SD1	SW8021F	SW5030B	/ /	01/27/03	01/27/03	3A27004	1
		3B05002BSD1	WQ	BD1	SW8021F	SW5030B	/ /	02/05/03	02/05/03	3B05002	1
		3B05002BSD2	WQ	BD2	SW8021F	SW5030B	/ /	02/05/03	02/06/03	3B05002	1
		3B05002BS1	WQ	BS1	SW8021F	SW5030B	/ /	02/05/03	02/05/03	3B05002	1
		3B05002BS2	WQ	BS2	SW8021F	SW5030B	/ /	02/05/03	02/05/03	3B05002	1
		3B05002BLK1	WQ	LB1	SW8021F	SW5030B	/ /	02/05/03	02/05/03	3B05002	1

EDFSAMP: Error Summary Log

02/27/03

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

EDFTEST: Error Summary Log

02/27/03

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

EDFRES: Error Summary Log

02/27/03

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	3A27003MS1	MS1	W	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	3A27003MS1	MS1	W	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	3A27003MSD1	SD1	W	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	3A27003MSD1	SD1	W	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	3A27004MS1	MS1	W	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	3A27004MS1	MS1	W	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	3A27004MSD1	SD1	W	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	3A27004MSD1	SD1	W	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	MMA027901	CS	W	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	MMA027901	CS	W	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	MMA027901	CS	W	SW8021F	PR	01/27/03	1	MTBE
Warning: extra parameter	MMA027902	CS	W	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	MMA027902	CS	W	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	MMA027902	CS	W	SW8021F	PR	01/27/03	1	MTBE
Warning: extra parameter	MMA027903	CS	W	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	MMA027903	CS	W	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	MMA027903	CS	W	SW8021F	PR	01/27/03	1	MTBE
Warning: extra parameter	MMA027904	CS	W	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	MMA027904	CS	W	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	MMA027904	CS	W	SW8021F	PR	01/27/03	1	MTBE
Warning: extra parameter	MMA027905	CS	W	SW8021F	PR	02/05/03	1	AAATFBZME
Warning: extra parameter	MMA027905	CS	W	SW8021F	PR	02/05/03	1	GROC6C10
Warning: extra parameter	MMA027905	CS	W	SW8021F	PR	02/05/03	1	MTBE
Warning: extra parameter	MMA027906	CS	W	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	MMA027906	CS	W	SW8021F	PR	01/27/03	1	GROC6C10

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MMA027906	CS	W	SW8021F	PR	01/27/03	1	MTBE
Warning: extra parameter	MMA056401	NC	W	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	MMA056401	NC	W	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	3A27003BLK1	LB1	WQ	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	3A27003BLK1	LB1	WQ	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	3A27003BLK1	LB1	WQ	SW8021F	PR	01/27/03	1	MTBE
Warning: extra parameter	3A27003BS1	BS1	WQ	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	3A27003BS2	BS2	WQ	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	3A27003BS2	BS2	WQ	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	3A27004BLK1	LB1	WQ	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	3A27004BLK1	LB1	WQ	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	3A27004BLK1	LB1	WQ	SW8021F	PR	01/27/03	1	MTBE
Warning: extra parameter	3A27004BS1	BS1	WQ	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	3A27004BS2	BS2	WQ	SW8021F	PR	01/27/03	1	AAATFBZME
Warning: extra parameter	3A27004BS2	BS2	WQ	SW8021F	PR	01/27/03	1	GROC6C10
Warning: extra parameter	3B05002BLK1	LB1	WQ	SW8021F	PR	02/05/03	1	AAATFBZME
Warning: extra parameter	3B05002BLK1	LB1	WQ	SW8021F	PR	02/05/03	1	GROC6C10
Warning: extra parameter	3B05002BLK1	LB1	WQ	SW8021F	PR	02/05/03	1	MTBE
Warning: extra parameter	3B05002BS1	BS1	WQ	SW8021F	PR	02/05/03	1	AAATFBZME
Warning: extra parameter	3B05002BS2	BS2	WQ	SW8021F	PR	02/05/03	1	AAATFBZME
Warning: extra parameter	3B05002BS2	BS2	WQ	SW8021F	PR	02/05/03	1	GROC6C10
Warning: extra parameter	3B05002BSD1	BD1	WQ	SW8021F	PR	02/05/03	1	AAATFBZME
Warning: extra parameter	3B05002BSD2	BD2	WQ	SW8021F	PR	02/06/03	1	AAATFBZME
Warning: extra parameter	3B05002BSD2	BD2	WQ	SW8021F	PR	02/06/03	1	GROC6C10

EDFQC: Error Summary Log

02/27/03

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

EDFCL: Error Summary Log

02/27/03

Error type	Clrevdate	Anmcode	Exmcode	Parlabel	Clcode
There are no errors in this data file	/ /				

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