



Atlantic Richfield Company
(a BP affiliated company)

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Alameda County
FEB 18 2003
Environmental Health

February 13, 2003

Re: Fourth Quarter 2002 Groundwater Monitoring Report
ARCO Station 6041
7249 Village Pkwy.
Oakland, 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



February 13, 2003

Ms. Eva Chu
Hazardous Materials Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Alameda County
FEB 18 2003
Environmental Health

**Re: Fourth Quarter 2002 Groundwater Monitoring Report
ARCO Service Station # 6041
7249 Village Parkway
Dublin, California
URS Project #38465976**

Dear Ms. Chu:

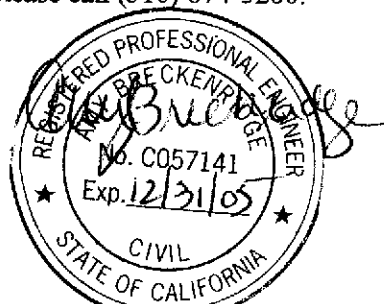
On behalf of Atlantic Richfield Company (ARCO-an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Fourth Quarter 2002 Groundwater Monitoring Report* for the ARCO Service Station #6041, located at 7249 Village Parkway, Dublin, California.

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

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager



Amy P. Breckenridge, P.E.
Portfolio Manager

Enclosure: Fourth Quarter 2002 Groundwater Monitoring Report

cc: Ms. Karen Petryna, Equiva Services, LLC, PO Box 7869, Burbank, California 91510-7869
Mr. Paul Supple, ARCO, PO Box 6549 Moraga, CA 94570

REPORT

FOURTH QUARTER 2002 GROUNDWATER MONITORING

ARCO SERVICE STATION #6041
7249 VILLAGE PARKWAY
DUBLIN, CALIFORNIA

Alameda County
FEB 18 2003
Environmental Health

Prepared for
Atlantic Richfield Company

February 13, 2003

URS

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

38465976

Date: February 13 , 2003
Quarter: 4Q 02

ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

Former Facility No.: 6041 Address: 7249 Village Parkway, Dublin, California
Atlantic Richfield Co. Environmental Engineer: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Consultant Project No.: 38465976
Primary Agency: ACHCSA

WORK PERFORMED THIS QUARTER (Fourth – 2002):

1. Performed fourth quarter 2002 groundwater monitoring event.
2. Prepared third quarter 2002 groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (First – 2003):

1. Perform first quarter 2003 groundwater monitoring event.
2. Prepare and submit fourth quarter 2002 groundwater monitoring report.
3. Repair and re-survey wells MW-2 and MW-3.

Current Phase of Project:	<u>GW monitoring/sampling</u>
Frequency of Groundwater Sampling:	<u>Wells MW-2 through MW-6, MW-8</u>
Frequency of Groundwater Monitoring:	<u>Quarterly</u>
Is Free Product (FP) Present On-Site:	<u>No</u>
Bulk Soil Removed to Date:	<u>3,208 cubic yards</u>
Current Remediation Techniques:	<u>Natural Attenuation</u>
Approximate Depth to Groundwater:	<u>7.15 (MW-2) to 7.74 (MW-7)</u>
Groundwater Gradient (direction):	<u>East</u>
Groundwater Gradient (magnitude):	<u>0.011 feet per foot</u>

DISCUSSION:

TPH-g was detected in three of the seven wells sampled this quarter at concentrations ranging from 350 µg/L (MW-8) to 1,500 µg/L (MW-3). Benzene was detected in two wells at concentrations of 13 µg/L (MW-8) to 300 µg/L (MW-3). MTBE was detected in all seven wells at concentrations ranging from 0.91 µg/L (MW-6) to 1,100 µg/L (MW-3). TBA was detected in one well (MW-8) at a concentration of 260 µg/L.

We recommend changing well MW-6 from quarterly to bi-annual sampling. This well is the farthest upgradient well and historically has either been non-detect or had very low detections for the constituents of concern.

ATTACHMENTS:

- Table 1 - Groundwater Elevation and Analytical Data
- Table 2 - Groundwater Flow Direction and Gradient
- Table 3 - Oxygenate Analytical Data
- Figure 1 - Groundwater Elevation Contour and Analytical Summary Map – December 27, 2002
- Attachment A - Field Procedures and Field Data Sheets
- Attachment B - Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records
- Attachment C - EDCC and EDF/Geowell Submittal Confirmation

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #6041
7249 Village Parkway
Dublin, California

Well Number	Date of Sampling/ Monitoring	TOC Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	TPH Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
MW-1	02/15/95	336.56	8.53	328.03	820	15	<1	5.2	1.4	--	--	
	05/24/95		9.00	327.56	640	12	<1	7.3	<1	--	--	
	08/25/95		10.30	326.26	780	2	<1	2	2	2,500	--	
	11/28/95		11.01	325.55	570	2.2	<0.5	1.4	0.9	--	--	
	02/26/96		7.35	329.21	1,100	28	<7	13	7	3,400	--	
	05/23/96		8.73	327.83	560	8.5	<1	1.1	<1	3,900	--	
	08/23/96		10.25	326.31	860	<1	<1	<4	2	5,600	--	
	03/21/97		9.35	327.21	520	12	<0.5	2.7	1.5	6,200	--	
	08/20/97		10.75	325.81	<5,000	<50	<50	<50	<50	7,400	--	
	11/21/97		11.10	325.46	<5,000	<50	<50	<50	<50	8,500	--	
	02/12/98	P	7.05	329.51	210	<0.5	<0.5	<0.5	<0.5	8,900	--	1.71
	07/31/98	P	10.04	326.52	<20,000	<200	<200	<200	<200	18,000	--	2.43
	02/17/99		8.50	328.06	<20,000	<200	<200	<200	<200	16,000	--	1.0
	08/24/99	P	10.40	326.16	190	<0.5	4.4	<0.5	1.1	15,000	--	
	03/01/00	P	8.85	327.71	310	20	0.5	7.6	4	80,000	--	1.57
	08/18/00	P	9.35	327.21	<10,000	<100	<100	<100	<100	48,400	63,700	1.50
	12/27/00	P	10.81	325.75	<10,000	309	<100	<100	289	44,400	--	0.51
	02/09/01	P	10.65	325.91	2,820	368	<25.0	116	176	23,300	--	0.58
DUP	02/09/01	NR	NR	NR	3,490	432	9.56	146	235	31,800	--	
DUP	04/17/01	P	11.09	325.47	2,900	66.0	<10.0	33.2	25.1	46,500	--	0.63
	04/17/01	NR	NR	NR	2,600	70.1	<20.0	32.7	30.6	45,400	--	
	07/17/01	P	11.07	325.49	<10,000	<100	<100	130	520	42,000	--	0.69
	12/21/01	Well abandoned during station upgrade activities										

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ARCO Service Station #6041
7249 Village Parkway
Dublin, California

Well Number	Date of Sampling/ Monitoring	TOC Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	TPH Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
MW-2	02/15/95	334.80	6.75	328.05	730	110	1.7	25	66	--	--	
	05/24/95		6.88	327.92	370	110	<1	17	1.9	--	--	
	08/25/95		7.91	326.89	150	6	<1	<1	<1	2,700	--	
	11/28/95		9.06	325.74	<50	<0.5	<0.5	<0.5	0.8	--	--	
	02/26/96		6.65	328.15	350	66	<0.5	11	1.7	<3	--	
	05/23/96		6.90	327.90	540	140	<2.5	13	<2.5	4,600	--	
	08/23/96		8.45	326.35	180	0.8	2	0.7	2.6	4,000	--	
	03/21/97		7.28	327.52	410	90	<1	14	4	3,800	--	
	08/20/97		8.87	325.93	<5,000	<50	<50	<50	<50	3,100	--	
	11/21/97		9.28	325.52	<2,000	<20	<20	<20	<20	2,600	--	
	02/12/98		5.90	328.90	310	54	<0.5	6.2	1.1	3,800	--	3.76
	07/31/98		8.12	326.68	6,100	52	220	110	1100	7,700	--	2.96
	02/17/99		7.18	327.62	<5,000	<50	<50	<50	<50	4,200	--	1.0
	08/24/99		8.68	326.12	200	1.8	16	3.0	32	3,100	--	
	03/01/00		7.02	327.78	760	24	12	13	59	6,300	--	1.92
	08/18/00		7.75	327.05	<500	<5.00	<5.00	<5.00	<5.00	1,610	1,980	2.03
	12/27/00		8.85	325.95	Not Sampled: Well sampled during first and third quarters							
	02/09/01		8.50	326.30	<50.0	<0.500	<0.500	<0.500	<0.500	9.11	--	0.53
	04/17/01		9.12	325.68	Not Sampled: Well sampled during first and third quarters							
	07/17/01		8.99	325.81	1,200	<10	<10	<10	<10	4,200	--	0.69
DUP	07/17/01	NR	NR	NR	3,500	<10	<10	<10	<10	3,500	--	
	12/21/01		8.65	326.15	65	<0.50	1.2	0.61	6.7	11	6.5	0.48
	03/06/02		8.61	326.19	<50	<0.50	<0.50	<0.50	1.8	31	--	0.35
	04/26/02		8.20	326.60	92	<0.5	<0.50	<0.50	0.64	98	180	0.19
	09/23/02		8.50 ⁴	326.30 ⁴	250 ¹	<1.2	<1.2	<1.2	<1.2	NA	1,500	2.1
	12/27/02		7.15 ⁴	327.65 ⁴	440 ¹	<2.5	<2.5	<2.5	<2.5	NA	790	1.4

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Dublin, California

Well Number	Date of Sampling/ Monitoring	TOC Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	TPH Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
MW-3	02/15/95	335.53	8.55	326.98	100	14	<0.5	6.3	<0.5	--	--	
	05/24/95		8.17	327.36	110	8	<0.5	2.7	<0.5	--	--	
	08/25/95		9.27	326.26	210	3.6	<0.5	2.9	0.6	20,000	--	
	11/28/95		9.91	325.62	81	1.5	<0.5	1.4	<0.5	--	15,000	
	02/26/96		8.42	327.11	16,000	1,600	1,200	300	2,000	9,500	--	
	05/23/96		7.70	327.83	6,500	690	<10	120	14	8,600	--	
	08/23/96		9.25	326.28	1,700	85	2	61	5.3	11,000	--	
	03/21/97		8.72	326.81	100	2	<1	1	<1	6,600	--	
	08/20/97		9.73	325.80	<5,000	<50	<50	<50	<50	7,700	--	
	11/21/97		10.10	325.43	<5,000	<50	<50	<50	<50	9,700	--	
	02/12/98	P	6.68	328.85	110	11	<0.5	<0.5	1.9	10,000	--	1.02
	07/31/98	P	7.98	327.55	<10,000	<100	<100	<100	<100	13,000	--	2.59
	02/17/99	P	8.40	327.13	<20,000	<200	<200	<200	<200	23,000	--	1.0
	08/24/99	P	9.45	326.08	200	0.6	5.6	0.6	1.7	22,000	--	
	03/01/00	P	8.32	327.21	320	32	1.0	6.1	4	58,000	--	2.42
DUP	08/18/00	P	8.35	327.18	<10,000	<100	<100	<100	<100	46,200	55,600	1.59
	08/18/00	NR	NR	NR	<10,000	<100	<100	<100	<100	45,500	51,700	
	12/27/00	P	9.75	325.78	29,700	1,620	1,730	<250	6,230	62,600	--	1.59
	02/09/01	P	9.61	325.92	29,300	2,590	3,530	440	7,080	85,500	--	0.51
	04/17/01	P	9.94	325.59	16,400	1,680	<25.0	310	2,290	48,700	--	0.41
DUP	07/17/01	P	9.93	325.60	21,000	1,500	<100	1,100	690	82,000	--	0.51
	12/21/01	P	9.40	326.13	<5,000	<50	<50	<50	<50	4,300	3,800	0.40
	12/21/01	NR	NR	NR	<5,000	<50	<50	<50	<50	4,500	3,500	
	03/06/02	P	9.33	326.20	<50	1.2	<0.50	1.1	13	880	--	0.43
	04/26/02	P	9.19	326.34	260	3.7	<1.0	1.1	1.80	460	940	0.2
	09/23/02	P	9.30 ⁴	326.23 ⁴	1,500 ²	41	2.4	9.8	14	NA	980	1.5
	12/27/02	P	7.30 ⁴	328.23 ⁴	1,500 ³	300	100	21	66	NA	1,100	2.2

Table 1
Groundwater Elevation and Analytical Data

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7249 Village Parkway
Dublin, California

Well Number	Date of Sampling/ Monitoring	TOC Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	TPH Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
MW-4	02/15/95	334.22	7.85	326.37	<50	<0.5	<0.5	<0.5	<0.5	--	--	
	05/24/95		6.68	327.54	Not sampled: well sampled semi-annually, during the first and third quarters							
	08/25/95		6.93	327.29	<50	<0.5	<0.5	<0.5	<0.5	<3	--	
	11/28/95		8.21	326.01	Not sampled: well sampled semi-annually, during the first and third quarters							
	02/26/96		6.65	327.57	<50	<0.5	<0.5	<0.5	<0.5	<3	--	
	05/23/96		6.47	327.75	Not sampled: well sampled semi-annually, during the first and third quarters							
	08/23/96		7.66	326.56	Not sampled: well not part of sampling program							
	03/21/97		6.84	327.38	Not sampled: well not part of sampling program							
	08/20/97		8.32	325.90	Not sampled: well not part of sampling program							
	11/21/97		8.65	325.57	Not sampled: well not part of sampling program							
	02/12/98		6.35	327.87	Not sampled: well not part of sampling program							
	07/31/98		6.84	327.38	Not sampled: well not part of sampling program							
	02/17/99		7.50	326.72	Not sampled: well not part of sampling program							
	08/24/99		9.50	324.72	Not sampled: well not part of sampling program							
	03/01/00		6.93	327.29	Not sampled: well not part of sampling program							
	08/18/00		7.03	327.19	Not sampled: well not part of sampling program							
	12/27/00		8.10	326.12	Not sampled: well not part of sampling program							
	02/09/01		7.97	326.25	Not sampled: well not part of sampling program							
	04/17/01		8.90	325.32	Not sampled: well not part of sampling program							
	07/17/01		8.59	325.63	Not sampled: well not part of sampling program							
	12/21/01	NP	8.31	325.91	<50	<0.50	<0.50	<0.50	<0.50	4.1	2.0	0.68
	03/06/02	P	8.27	325.95	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	0.37
	04/26/02	P	8.05	326.17	<50	<0.50	<0.50	<0.50	<0.50	3.6	--	0.3
	09/23/02	P	7.94	326.28	<50	<0.50	<0.50	<0.50	<0.50	NA	2.9	4.1
	12/27/02	P	7.56	326.66	<50	<0.50	<0.50	<0.50	<0.50	NA	2.6	2.1

Table 1
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7249 Village Parkway
Dublin, California

Well Number	Date of Sampling/ Monitoring	TOC Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	TPH Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)	
MW-5	02/15/95	335.87	7.80	328.07	<50	<0.5	<0.5	<0.5	<0.5	--	--		
	05/24/95		8.10	327.77	Not sampled: well sampled annually, during the first quarter								
	08/25/95		9.43	326.44	Not sampled: well sampled annually, during the first quarter								
	11/28/95		10.12	325.75	Not sampled: well sampled annually, during the first quarter								
	02/26/96		6.73	329.14	03-13-96	<0.5	<0.5	<0.5	<0.5	<3	--		
	05/23/96		7.87	328.00	Not sampled: well sampled annually, during the first quarter								
	08/23/96		9.46	326.41	Not sampled: well not part of sampling program								
	03/21/97		8.23	327.64	Not sampled: well not part of sampling program								
	08/20/97		9.92	325.95	Not sampled: well not part of sampling program								
	11/21/97		10.18	325.69	Not sampled: well not part of sampling program								
	02/12/98		6.45	329.42	Not sampled: well not part of sampling program								
	07/31/98		8.98	326.89	Not sampled: well not part of sampling program								
	02/17/99		7.65	328.22	Not sampled: well not part of sampling program								
	08/24/99		8.10	327.77	Not sampled: well not part of sampling program								
	03/01/00		7.31	328.56	Not sampled: well not part of sampling program								
	08/18/00		8.65	327.22	Not sampled: well not part of sampling program								
	12/27/00		9.80	326.07	Not sampled: well not part of sampling program								
	02/09/01		9.65	326.22	Not sampled: well not part of sampling program								
	04/17/01		9.92	325.95	Not sampled: well not part of sampling program								
	07/17/01		9.95	325.92	Not sampled: well not part of sampling program								
	12/21/01		Well inaccessible										
	03/06/02		Well inaccessible										
	04/26/02		Well inaccessible										
	09/23/02			7.94	327.93	Not sampled: well not part of sampling program							
	12/27/02	P	7.57	328.30	<50	<0.50	<0.50	<0.50	0.76	NA	15	0.7	

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7249 Village Parkway
Dublin, California

Well Number	Date of Sampling/ Monitoring	TOC Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	TPH Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
MW-6	02/15/95	335.84	7.81	328.03	<50	<0.5	<0.5	<0.5	<0.5	--	--	
	05/24/95		8.35	327.49	Not sampled: well sampled annually, during the first quarter							
	08/25/95		9.71	326.13	Not sampled: well sampled annually, during the first quarter							
	11/28/95		10.28	325.56	Not sampled: well sampled annually, during the first quarter							
	02/26/96		6.60	329.24	<50	<0.5	<0.5	<0.5	<0.5	<3	--	
	05/23/96		8.05	327.79	Not sampled: well sampled annually, during the first quarter							
	08/23/96		9.58	326.26	Not sampled: well not part of sampling program							
	03/21/97		8.39	327.45	Not sampled: well not part of sampling program							
	08/20/97		9.98	325.86	Not sampled: well not part of sampling program							
	11/21/97		10.31	325.53	Not sampled: well not part of sampling program							
	02/12/98		3.15	332.69	Not sampled: well not part of sampling program							
	07/31/98		9.29	326.55	Not sampled: well not part of sampling program							
	02/17/99		7.72	328.12	Not sampled: well not part of sampling program							
	08/24/99		9.65	326.19	Not sampled: well not part of sampling program							
	03/01/00		7.35	328.49	Not sampled: well not part of sampling program							
	08/18/00		8.65	327.19	Not sampled: well not part of sampling program							
	12/27/00		9.83	326.01	Not sampled: well not part of sampling program							
	02/09/01		9.62	326.22	Not sampled: well not part of sampling program							
	04/17/01		10.03	325.81	Not sampled: well not part of sampling program							
	07/17/01		9.95	325.89	Not sampled: well not part of sampling program							
	12/21/01	NP	9.47	326.37	<50	<0.50	<0.50	<0.50	0.57	<2.5	--	0.55
	03/06/02	P	9.31	326.53	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	0.33
	04/26/02	P	9.09	326.75	<50	<0.50	<0.50	<0.50	0.7	<2.5	--	0.31
	09/23/02	P	9.14	326.70	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	2.1
	12/27/02	P	7.26	328.58	<50	<0.50	<0.50	<0.50	0.63	NA	0.91	0.8

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Groundwater Elevation and Analytical Data

ARCO Service Station #6041
7249 Village Parkway
Dublin, California

Well Number	Date of Sampling/ Monitoring		TOC Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	TPH Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
MW-7	12/21/01		NR	NR	NR	Not sampled: well dry							
	03/06/02		NR	NR	NR	Not sampled: well dry							
	04/26/02		NR	NR	NR	Not sampled: well dry							
	09/23/02		NR	NR	NR	Not sampled: well dry							
	12/27/02	P ⁵	NR	7.74	NR	<50	<0.50	<0.50	<0.50	<0.50	NA	4.7	2.7
MW-8	12/21/01	NP	NR	8.70	NR	<5,000	67	<50	<50	<50	2,400	1,300	0.60
	03/06/02	P	NR	8.63	NR	210	41	0.64	0.79	2.0	940	--	0.25
	03/06/02		NR	NR	NR	170	37	0.67	0.70	1.9	740	--	
	04/26/02	P	NR	8.15	NR	680	95	<1.0	14	2.5	490	--	0.31
	04/26/02		NR	NR	NR	480	74	3.5	11.00	<1.0	640	--	
	09/30/02	P	NR	9.37	NR	1,100 ³	120	<5.0	57	8.7	NA	1,100	1.3
	12/27/02	P	NR	7.55	NR	350 ²	13	<0.50	2.4	2.2	NA	73	0.8
VW-2	03/21/97		NR	8.22	NR	150	8.9	<0.5	<0.5	0.6	270	--	
	08/20/97		NR	9.16	NR	Not sampled: well not part of sampling program							
	11/21/97		NR	8.27	NR	<200	3	<2	<2	<2	180	--	
	02/12/98		NR	6.65	NR	200	19	<0.5	0.6	<0.5	2,200	--	
	07/31/98		NR	7.01	NR	Not sampled: well not part of sampling program							
	02/17/99		NR	8.47	NR	Not sampled: well not part of sampling program							
	08/24/99		NR	8.20	NR	Not sampled: well not part of sampling program							
	03/01/00		NR	8.72	NR	Not sampled: well not part of sampling program							
	08/18/00	NP	NR	8.40	NR	<250	<2.50	<2.50	<2.50	<2.50	537	--	1.59
	12/27/00		NR	8.95	NR	Not sampled: Well Dry							
	02/09/01		NR	8.87	NR	Not sampled: Well Dry							
	04/17/01		NR	9.00	NR	Not sampled: Well Dry							
	07/17/01		NR	8.97	NR	Not sampled: Well Dry							
	12/21/01	Well abandoned during station upgrade activities											

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #6041
7249 Village Parkway
Dublin, California

Well Number	Date of Sampling/ Monitoring		TOC Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	TPH Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
Shell MW-6 DUP	12/27/00	P	NR	9.13	NR	74.7	<0.500	<0.500	<0.500	<0.500	<2.50	--	1.30
	12/27/00		NR	NR	NR	79.3	<0.500	<0.500	<0.500	<0.500	<2.50	--	
	02/09/01	P	NR	9.05	NR	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	1.29
	04/17/01	P	NR	10.17	NR	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	0.95
	07/17/01	P	NR	9.50	NR	<50	<0.50	<0.50	<0.50	<0.50	4.2	--	1.03
	12/21/01	P	NR	9.98	NR	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	0.97
	03/06/02	P	NR	9.90	NR	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	0.97
	04/26/02	P	NR	9.47	NR	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	0.97
	09/27/02		Well destroyed										
Shell MW-7	12/27/00	P	NR	6.45	NR	<50.0	<0.500	0.696	<0.500	0.795	<2.50	--	1.33
	02/09/01	P	NR	6.39	NR	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	1.13
	04/17/01	P	NR	7.22	NR	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	1.12
	07/17/01	P	NR	6.93	NR	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	1.05
	12/21/01	P	NR	7.15	NR	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	
	03/06/02	P	NR	7.03	NR	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	0.95
	04/26/02	P	NR	7.15	NR	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	0.95
	09/27/02		Well destroyed										

Notes:

- TOC: = Top of casing
- ft-MSL = Elevation in feet, relative to mean sea level
- TPH = Total Petroleum Hydrocarbons analyzed using EPA Method 8015B modified
- BTEX = Benzene, toluene, ethylbenzene, total xylenes by EPA method 8021B. (EPA method 8020 prior to 03/01/00).
- MTBE = Methyl tert-butyl ether analyzed using EPA Method 8260B
- EPA = United States Environmental Protection Agency
- * = EPA method 8020 prior to 03/01/00
- µg/L = Micrograms per liter
- mg/L = Milligrams per liter
- NR = Not reported; data not available or not measurable
- = Not analyzed or not applicable
- < = Denotes concentration not present at or above laboratory detection limit stated to the right.
- ** = For previous historical groundwater elevation and analytical data please refer to Fourth Quarter 1995 Groundwater Monitoring Program Results, ARCO Service Station 6041, Dublin, California, (EMCON, February 26, 1996).
- DUP = Duplicate
- 1 = Discrete peak at C6-C7.
- 2 = Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- 3 = Chromatogram Pattern: C6-C10
- 4 = Well casing broken, TOC unknown.
- 5 = Well mistakenly sampled this quarter

Source The data within this table collected prior to September 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 #6041
7249 Village Parkway
Dublin, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
02/15/95	NR	NR
05/24/95	East-Southeast	0.002
08/25/95	Northwest	0.006
11/28/95	North	0.006
02/26/96	East	0.012
05/23/96	Flat Gradient	Flat Gradient
08/23/96	Flat Gradient	Flat Gradient
03/21/97	South-Southeast	0.005
08/20/97	South-Southwest	0.001
11/21/97	South-Southwest	0.002
02/12/98	East	0.024
07/31/98	Northwest	0.01
02/17/99	Southeast	0.007
08/24/99	South-Southwest	0.013
03/01/00	South-Southeast	0.005
09/26/00	South-Southeast	0.002
12/27/00	West-Southwest	0.003
02/09/01	West-Southwest	0.003
04/17/01	South-Southwest	0.015
07/17/01	South-Southwest	0.003
12/21/01	East	0.002
03/06/02	East	0.003
04/26/02	Southeast	0.003
09/27/02	South	0.013
12/27/02	Southeast	0.011

Source:

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

Table 3
Oxygenate Analytical Data

ARCO Service Station #6041
7249 Village Parkway
Dublin, California

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-Dichloro- ethane (µg/L)	Ethylene Dibromide (µg/L)
MW-2	12/27/02	ND<20,000	ND<10,000	790	ND<250	ND<250	ND<250	ND<250	ND<250
MW-3	12/27/02	ND<40,000	ND<20,000	1,100	ND<500	ND<500	ND<500	ND<500	ND<500
MW-4	12/27/02	ND<40	ND<20	2.6	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-5	12/27/2002	ND<40	ND<20	15	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-6	12/27/02	ND<40	ND<20	0.91	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-7	12/27/02	ND<40	ND<20	4.7	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-8	12/27/02	ND<400	260	73	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0

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
µg/L = micrograms per liter

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 # 021227-RH1

Date 12/27/02

Client Arc0 6041

Site 7249 Village Pkwy, Dublin

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					7.15*	9.60		NP @ 10'
mw-3	4		gauged w/ stinger in well			7.30*	14.10		
mw-4	4					7.96	14.56		
mw-5	4					7.57	17.93		
mw-6	4					7.26	12.34		
mw-7	4					7.74 7.55	8.16		
mw-8	4	odor				7.55	12.66		
Shell mw-6			destroyed						
Shell mw-7			destroyed						
* casing cracked, can't tell where TOC is exactly									

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>021227-RH1</u>	Station # <u>6041</u>
Sampler: <u>Ryan H.</u>	Date: <u>12/27/02</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>9.60</u>	Depth to Water: <u>7.15</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: Bailer
~~Disposable Bailer~~
Middleburg
~~Electric Submersible~~
Extraction Pump

Sampling Method: Bailer
~~Disposable Bailer~~
Extraction Port
 Other: _____

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.

<u>1.6</u>	X	<u>3</u>	=	<u>4.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

6041

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>456</u>	<u>70.4</u>	<u>6.9</u>	<u>3438</u>	<u>1.6</u>	<u>brown, slightly silty</u>
<u>459</u>	<u>72.0</u>	<u>6.9</u>	<u>3620</u>	<u>3.2</u>	<u>"</u>
	<u>well dewatered @ 4.0 gal</u>				<u>DTW = 8.70</u>
<u>6035</u>	<u>69.8</u>	<u>6.9</u>	<u>3612</u>	<u>4.0</u>	<u>cloudy</u> <u>DTW = 7.20</u>

Did well dewater? Yes No Gallons actually evacuated: 4.0

Sampling Time: 1035 Sampling Date: 12/27/02

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Oxygenates, ethanol, 1,2-DCA + EDB (8260)

D.O. (if req'd):	Pre-purge:	<u>mEq/L</u>	Post-purge:	<u>1.4</u> <u>mEq/L</u>
O.R.P. (if req'd):	Pre-purge:	<u>mV</u>	Post-purge:	<u>mV</u>

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>021227-RH1</u>	Station # <u>6041</u>
Sampler: <u>Ryan H.</u>	Date: <u>12/27/02</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>14.10</u>	Depth to Water: <u>7.30</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: Bailer Sampling Method: Bailer
 Disposable Bailer Disposable Bailer
 Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump
 Other: _____

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

<u>4.4</u>	X	<u>3</u>	=	<u>13.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>931</u>	<u>70.5</u>	<u>8.4</u>	<u>349.5</u>	<u>4.4</u>	<u>cloudy w/ black particles</u>
					<u>Well dewatered @ 6.0 gal</u>
					<u>DTW = 12.08</u>
<u>1050</u>	<u>70.4</u>	<u>8.6</u>	<u>642</u>	<u>6.0</u>	<u>cloudy</u>
					<u>DTW = 7.55</u>

Did well dewater? <u>Yes</u> No		Gallons actually evacuated: <u>6.0</u>	
Sampling Time: <u>1050</u>		Sampling Date: <u>12/27/02</u>	
Sample I.D.: <u>MW-3</u>		Laboratory: Pace <u>Sequoia</u> Other _____	
Analyzed for: <u>TPH-G</u> <u>BTX</u> MTBE TPH-D Other: <u>oxygenates, ethanol, 1,2-DCA + EDB (8260)</u>			
D.O. (if req'd):	Pre-purge:	<u>mg/L</u>	Post-purge: <u>2.2</u> <u>mg/L</u>
O.R.P. (if req'd):	Pre-purge:	<u>mV</u>	Post-purge: <u>mV</u>

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 021227-RH1	Station # 6041
Sampler: Ryan H.	Date: 12/27/02
Well I.D.: MW-4	Well Diameter: 2 3 4 6 8
Total Well Depth: 14.56	Depth to Water: 7.56
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 Sampling Method: Bailer
 Disposable Bailer ~~Disposable Bailer~~
 Middleburg Extraction Port
 ~~Electric Submersible~~
 Extraction Pump
 Other: _____

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

4.5	X	3	=	13.5	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
845	69.3	6.8	5181	4.5	clear
846	70.4	6.8	5089	9.0	"
	Well dewatered		10.0 gal.		DTW = 12.23
1025	68.1	6.9	4755	10.0	clear DTW = 6.93

Did well dewater? <u>Yes</u> No	Gallons actually evacuated: 10.0
Sampling Time: 1025	Sampling Date: 12/27/02
Sample I.D.: MW-4	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G</u> <u>BTEX</u> MTBE TPH-D Other: oxygenates, ethanol, 1,2-DCA + EDB (8260)	
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: <u>2.1</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 021227-RH1	Station # 6041
Sampler: Ryan H.	Date: 12/27/02
Well I.D.: MW-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 17.53	Depth to Water: 7.57
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: Bailer Sampling Method: Bailer
 Disposable Bailer ~~Disposable Bailer~~
 Middleburg Extraction Port
 ~~Electric Submersible~~
 Extraction Pump
 Other: _____

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

6.5
1 Case Volume (Gals.)

x

3
Specified Volumes

=

19.5
Calculated Volume

Gals.

60000

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
908	67.8	6.9	3990	6.5	clear w/ black flakes
909-910	68.2	6.9	3943	13.0	clear
911-	68.4	6.9	4007	19.5	"

Did well dewater? Yes <u>No</u>		Gallons actually evacuated: 19.5	
Sampling Time: 916		Sampling Date: 12/27/02	
Sample I.D.: MW-5		Laboratory: Pace <u>Sequoia</u> Other _____	
Analyzed for: <u>TPH-G</u> <u>BTEX</u> MTBE TPH-D Other: oxygenates, ethanol, 1,2-DCA + EDB (8200)			
D.O. (if req'd):	Pre-purge:	mg/L	Post-purge: <u>0.7</u> mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>021227-RH1</u>	Station # <u>6041</u>
Sampler: <u>Ryan H.</u>	Date: <u>12/27/02</u>
Well I.D.: <u>MW-6</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth: <u>12.34</u>	Depth to Water: <u>7.26</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: Bailer Sampling Method: Bailer
 Disposable Bailer Disposable Bailer
 Middleburg Extraction Port
 Electric Submersible Other:
 Extraction Pump
 Other:

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

<u>3.3</u>	X	<u>3</u>	=	<u>9.9</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>827</u>	<u>67.9</u>	<u>7.0</u>	<u>2207</u>	<u>3.3</u>	<u>cloudy</u>
	<u>Well dewatered @ 3.5 gal</u>				<u>DTW = 10.71</u>
<u>958</u>	<u>69.9</u>	<u>7.0</u>	<u>3357</u>	<u>3.5</u>	<u>cloudy</u> <u>DTW = 7</u>

Did well dewater? <u>Yes</u> No	Gallons actually evacuated: <u>3.5</u>
Sampling Time: <u>958</u>	Sampling Date: <u>12/27/02</u>
Sample I.D.: <u>MW-6</u>	Laboratory: Pace <u>Sequoia</u> Other <u> </u>
Analyzed for: <u>TPH-G</u> <u>BTEX</u> MTBE TPH-D Other: <u>Oxygenates, ethanol, 1,2-DCA + EDB (8260)</u>	
D.O. (if req'd):	Pre-purge: <u> </u> mg/L Post-purge: <u>0.8</u> mg/L
O.R.P. (if req'd):	Pre-purge: <u> </u> mV Post-purge: <u> </u> mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>021227-RH1</u>	Station # <u>6041</u>
Sampler: <u>Ryan H.</u>	Date: <u>12/27/02</u>
Well I.D.: <u>MW-7</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>8.16</u>	Depth to Water: <u>7.74</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: Bailer Sampling Method: Bailer
~~Disposable Bailer~~ ~~Disposable Bailer~~
Middleburg Extraction Port
~~Electric Submersible~~
Extraction Pump
Other: _____

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

0.3
1 Case Volume (Gals.)

X

3
Specified Volumes

=

0.9
Calculated Volume

6041

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
837	65.6	6.9	1604	0.3	turbid
					Well dewatered @ 0.4 gal
1010	64.7	7.0	1547	0.3	DTW = 7.95
					DTW = 7.76

Did well dewater? <u>Yes</u> No	Gallons actually evacuated: <u>0.3</u>
Sampling Time: <u>1010</u>	Sampling Date: <u>12/27/02</u>
Sample I.D.: <u>MW-7</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G</u> <u>BTEX</u> MTBE TPH-D Other: <u>Oxygenates, ethanol, 1,2-DCA + EDB (g260)</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: <u>2.1</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 021227-RH1	Station # 6041
Sampler: Ryan H.	Date: 12/27/02
Well I.D.: MW-8	Well Diameter: 2 3 4 6 8
Total Well Depth: 12.66	Depth to Water: 7.55
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.

$$\frac{3.3}{1 \text{ Case Volume (Gals.)}} \times \frac{3}{\text{Specified Volumes}} = \frac{9.9}{\text{Calculated Volume}} \text{ Gals.}$$

6000

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
941	69.1	6.8	894	3.3	black, odor
942	69.5	6.9	1105	6.6	clearing up
943	69.8	6.9	1125	9.9	cloudy

Did well dewater? Yes (No) Gallons actually evacuated: 9.9

Sampling Time: 948 Sampling Date: 12/27/02

Sample I.D.: mw-8 Laboratory: Price Sequoia Other _____

Analyzed for: TPH-G BTEx MTBE TPH-D Other: oxygenates, ethanol, 1,2-DCA + EDB (8260)

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 #: 021227-RH1	Station # 6041
Sampler: Ryan H.	Date: 12/27/02
Well I.D.: Shell MW-6	Well Diameter: 2 3 4 6 8
Total Well Depth:	Depth to Water:
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: ☐ Bailor
☐ Disposable Bailor
☐ Middleburg
☒ Electric Submersible
☐ Extraction Pump
Other: ☐

Sampling Method: Boiler
~~Disposable Boiler~~
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.

$$\frac{\text{1 Case Volume (Gals.)}}{\text{Specified Volumes}} \times \frac{3}{1} = \frac{\text{Calculated Volume}}{\text{Gals.}}$$
[illegible]

Did well dewater? Yes No		Gallons actually evacuated:	
Sampling Time:		Sampling Date:	
Sample I.D.: mud-		Laboratory: Pace Sequoia Other	
Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: oxygenates, ethanol, 1,2-DCA + EDB (8260)			
D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 021227-RH1	Station # 6041
Sampler: Ryan H.	Date: 12/27/02
Well I.D.: Shell MW-7	Well Diameter: 2 3 4 6 8
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grnde	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** Sampling Method: **Bailer**
 Disposable Bailer **Disposable Bailer**
 Middleburg **Extraction Port**
 Electric Submersible Other: _____
 Extraction Pump
 Other: _____

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

1 Case Volume (Gals.)	X	3	=	Gals.
		Specified Volumes		Calculated Volume

6041

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations

Well destroyed

Did well dewater? Yes ☒ No ☐		Gallons actually evacuated:	
Sampling Time: _____		Sampling Date: _____	
Sample I.D.: mw-		Laboratory: Pace Sequoia Other: _____	
Analyzed for: TPH-G BTX MTBE TPH-D Other: Oxygenates, ethanediol, 1,2-DCA + EDB (8260)			
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: _____ mg/L	
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020930-EM3</u>	Station # <u>6041</u>
Sampler: <u>EM</u>	Date: _____
Well I.D.: <u>MW-8</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 _____
Total Well Depth: <u>12.65</u>	Depth to Water: <u>9.30</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>(PVC)</u> Grade _____	D.O. Meter (if req'd): _____

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.

<u>2.1</u>	x	<u>3</u>	=	<u>6.3</u>
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
15:17	80.5	6.9	1780	2.1	odor
15:18	77.7	6.9	2377	4.2	"
15:19	76.2	6.9	2390	6.3	"

Did well dewater? Yes (No)

Gallons actually evacuated: 6.3

Sampling Time: 15:25

Sampling Date: 9/30/02

Sample I.D.: MW-8

Laboratory: Pace (Sequoia) Other _____

Analyzed for: (TPH-C) (BTEX) MTBE TPH-D Other: Refer to 50W

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



Chain of Custody Record

Page 1 of 1

Project Name _____
BP BU/GEM CO Portfolio: _____
BP Laboratory Contract Number: _____

ate: 12/27/02

Requested Due Date (mm/dd/yy) _____

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

id To:	BP/GEM Facility No.:	Consultant/Contractor: URS
Name: SEQUOIA	BP/GEM Facility Address: 7249 Village PKWY, DUBLIN, CA	Address: 500 12th St., Ste. 200
Address: 885 Jarvis Dr. Morgan Hill, CA 95037	Site ID No. ARCO 6041	Oakland, CA 94608-4014
	Site Lat/Long:	e-mail EDD: syed_rehan@urscorp.com
	California Global ID #:	Consultant/Contractor Project No.: 15-00006041.01 00427
PM: Latonya Pelt	BP/GEM PM Contact: PAUL SUPPLE	Consultant Tele/Fax: 510-874-1735/510-874-3268
o/Fax: 408-776-9600 / 408-782-6308	Address:	Consultant/Contractor PM: Scott Robinson
ort Type & QC Level: Send EDF Reports		Invoice to: Consultant/Contractor or BP/GEM (circle one)
GEM Account No.:	Tele/Fax:	BP/GEM Work Release No: INTRIM -50691

Bottle Order No:			Matrix				Laboratory No.	No. of containers	Preservatives					Requested Analysis							Sample Point Lat/Long and Comments	
m No.	Sample Description	Time	Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl		TPH-G / BTEX (8015 / 8021)	TPH -D (8015)	MTBE (8021)	MTBE, TAME, ETBE DIPE, TBA (8260)	1,2-DCA & EDB (8260)	Ethanol			
1	MW-2	1035		X						X		X			X	X	X	X				
2	MW-3	1050		X						X		X			X	X	X	X				
3	MW-4	1025		X						X		X			X	X	X	X				
4	MW-5	916		X						X		X			X	X	X	X				
5	MW-6	958		X						X		X			X	X	X	X				
6	MW-7	1010		X						X		X			X	X	X	X				
7	MW-8	948		X						X		X			X	X	X	X				
8																						
9																						
10																						

ampler's Name: Ryan Hamstedt	Relinquished By / Affiliation: Ryan Hamstedt / BTS	Date:	Time:	Accepted By / Affiliation:	Date:	Time:
ampler's Company: Blaine Tech						
ipment Date:						
ipment Method:						
ipment Tracking No:						

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

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

Page 1 of 1

Job Number 021227-R#1 Technician Ryan Hanstedt

[illegible]

NOTES: _____

BP GEM OIL COMPANY TYPE **A** BILL OF LADING

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

The contractor performing this work is 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 to the designated destination point via another BP
GEM facility; from a BP GEM facility to the designated
destination point via the contractor's facility, or any combination
thereof. The Non-Hazardous Well Purgewater is and remains the
property of BP GEM Oil Company.

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

6041

Station #

7249 Village Pkwy, Dublin

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

53.0

added equip.
rinse water

3.0

any other
adjustments

TOTAL GALS.
RECOVERED

56.0

loaded onto
BTS vehicle #

15

BTS event #

time

date

021227-RT1

1100

12/27/02

signature

[Signature]

REC'D AT

time

date

unloaded by
signature

/ /

ATTACHMENT B

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

LABORATORY PROCEDURES

Laboratory Procedures

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

23 January, 2003

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

RE: ARCO #6041, Dublin, Ca
Sequoia Work Order: MLL0980

Enclosed are the results of analyses for samples received by the laboratory on 12/30/02 16:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt
Project Manager
CA ELAP Certificate #1210



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

Project: ARCO #6041, Dublin, Ca
Project Number: ARCO #6041, Dublin, CA
Project Manager: Scott Robinson

MLL0980
Reported:
01/23/03 14:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	MLL0980-01	Water	12/27/02 10:35	12/30/02 16:25
MW-3	MLL0980-02	Water	12/27/02 10:50	12/30/02 16:25
MW-4	MLL0980-03	Water	12/27/02 10:25	12/30/02 16:25
MW-5	MLL0980-04	Water	12/27/02 09:16	12/30/02 16:25
MW-6	MLL0980-05	Water	12/27/02 09:58	12/30/02 16:25
MW-7	MLL0980-06	Water	12/27/02 10:10	12/30/02 16:25
MW-8	MLL0980-07	Water	12/27/02 09:48	12/30/02 16:25

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



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

Project: ARCO #6041, Dublin, Ca
Project Number: ARCO #6041, Dublin, CA
Project Manager: Scott Robinson

MLL0980
Reported:
01/23/03 14:44

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

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (MLL0980-01) Water Sampled: 12/27/02 10:35 Received: 12/30/02 16:25									
Gasoline Range Organics (C6-C10)	440	250	ug/l	5	3A08003	01/08/03	01/08/03	8015Bm/8021B	HC-19
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		98.3 %	55-142		"	"	"	"	
MW-3 (MLL0980-02) Water Sampled: 12/27/02 10:50 Received: 12/30/02 16:25									
Gasoline Range Organics (C6-C10)	1500	500	ug/l	10	3A08005	01/08/03	01/08/03	8015Bm/8021B	HC-21
Benzene	300	5.0	"	"	"	"	"	"	
Toluene	100	5.0	"	"	"	"	"	"	
Ethylbenzene	21	5.0	"	"	"	"	"	"	
Xylenes (total)	66	5.0	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		90.5 %	55-142		"	"	"	"	
MW-4 (MLL0980-03) Water Sampled: 12/27/02 10:25 Received: 12/30/02 16:25									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	3A07003	01/07/03	01/07/03	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		111 %	55-142		"	"	"	"	
MW-5 (MLL0980-04) Water Sampled: 12/27/02 09:16 Received: 12/30/02 16:25									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	3A07003	01/07/03	01/07/03	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	0.76	0.50	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		100 %	55-142		"	"	"	"	



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

Project: ARCO #6041, Dublin, Ca
Project Number: ARCO #6041, Dublin, CA
Project Manager: Scott Robinson

MLL0980
Reported:
01/23/03 14:44

**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEX by EPA 8021B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (MLL0980-05) Water Sampled: 12/27/02 09:58 Received: 12/30/02 16:25									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	3A07003	01/07/03	01/07/03	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	0.63	0.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		93.0 %	55-142		"	"	"	"	
MW-7 (MLL0980-06) Water Sampled: 12/27/02 10:10 Received: 12/30/02 16:25									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	3A07003	01/07/03	01/07/03	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		100 %	55-142		"	"	"	"	
MW-8 (MLL0980-07) Water Sampled: 12/27/02 09:48 Received: 12/30/02 16:25									
Gasoline Range Organics (C6-C10)	350	50	ug/l	1	3A07003	01/07/03	01/07/03	8015Bm/8021B	HC-12
Benzene	13	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	2.4	0.50	"	"	"	"	"	"	
Xylenes (total)	2.2	0.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99.2 %	55-142		"	"	"	"	



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

Project: ARCO #6041, Dublin, Ca
Project Number: ARCO #6041, Dublin, CA
Project Manager: Scott Robinson

MLL0980
Reported:
01/23/03 14:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (MLL0980-01) Water Sampled: 12/27/02 10:35 Received: 12/30/02 16:25									
Ethanol	ND	20000	ug/l	500	3A08010	01/06/03	01/06/03	EPA 8260B	
tert-Butyl alcohol	ND	10000	"	"	"	"	"	"	
Methyl tert-butyl ether	790	250	"	"	"	"	"	"	
Di-isopropyl ether	ND	250	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	250	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	250	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>107 %</i>	<i>78-129</i>		"	"	"	"	
MW-3 (MLL0980-02) Water Sampled: 12/27/02 10:50 Received: 12/30/02 16:25									
Ethanol	ND	40000	ug/l	1000	3A08010	01/06/03	01/06/03	EPA 8260B	
tert-Butyl alcohol	ND	20000	"	"	"	"	"	"	
Methyl tert-butyl ether	1100	500	"	"	"	"	"	"	
Di-isopropyl ether	ND	500	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	500	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	500	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	500	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>105 %</i>	<i>78-129</i>		"	"	"	"	
MW-4 (MLL0980-03) Water Sampled: 12/27/02 10:25 Received: 12/30/02 16:25									
Ethanol	ND	40	ug/l	1	3A08010	01/06/03	01/06/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	2.6	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>114 %</i>	<i>78-129</i>		"	"	"	"	

Sequoia Analytical - Morgan Hill

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



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

Project: ARCO #6041, Dublin, Ca
Project Number: ARCO #6041, Dublin, CA
Project Manager: Scott Robinson

MLL0980
Reported:
01/23/03 14:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (MLL0980-04) Water Sampled: 12/27/02 09:16 Received: 12/30/02 16:25									
Ethanol	ND	40	ug/l	1	3A08010	01/06/03	01/06/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	15	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		119 %	78-129		"	"	"	"	
MW-6 (MLL0980-05) Water Sampled: 12/27/02 09:58 Received: 12/30/02 16:25									
Ethanol	ND	40	ug/l	1	3A08010	01/06/03	01/06/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	0.91	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		119 %	78-129		"	"	"	"	
MW-7 (MLL0980-06) Water Sampled: 12/27/02 10:10 Received: 12/30/02 16:25									
Ethanol	ND	40	ug/l	1	3A08010	01/06/03	01/06/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	4.7	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		115 %	78-129		"	"	"	"	

Sequoia Analytical - Morgan Hill

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

Project: ARCO #6041, Dublin, Ca
Project Number: ARCO #6041, Dublin, CA
Project Manager: Scott Robinson

MLL0980
Reported:
01/23/03 14:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (MLL0980-07) Water Sampled: 12/27/02 09:48 Received: 12/30/02 16:25									
Ethanol	ND	400	ug/l	10	3A08031	01/07/03	01/08/03	EPA 8260B	
tert-Butyl alcohol	260	200	"	"	"	"	"	"	
Methyl tert-butyl ether	73	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %		78-129	"	"	"	"	



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Oakland CA, 94607

Project: ARCO #6041, Dublin, Ca
Project Number: ARCO #6041, Dublin, CA
Project Manager: Scott Robinson

MLL0980
Reported:
01/23/03 14:44

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEX 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 3A07003 - EPA 5030B [P/T]										
Blank (3A07003-BLK1)				Prepared & Analyzed: 01/07/03						
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	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	11.8		"	10.0		118	55-142			
Laboratory Control Sample (3A07003-BS1)				Prepared & Analyzed: 01/07/03						
Benzene	10.9	0.50	ug/l	10.0		109	68-140			
Toluene	10.3	0.50	"	10.0		103	76-127			
Ethylbenzene	11.4	0.50	"	10.0		114	77-130			
Xylenes (total)	32.2	0.50	"	30.0		107	78-128			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	11.2		"	10.0		112	55-142			
Laboratory Control Sample (3A07003-BS2)				Prepared & Analyzed: 01/07/03						
Gasoline Range Organics (C6-C10)	223	50	ug/l	250		89.2	62-134			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	13.0		"	10.0		130	55-142			
Matrix Spike (3A07003-MS1)				Source: MLL0981-06	Prepared & Analyzed: 01/07/03					
Gasoline Range Organics (C6-C10)	407	50	ug/l	550	ND	74.0	62-134			O-11
Benzene	9.24	0.50	"	6.80	ND	134	68-140			O-11
Toluene	38.5	0.50	"	41.0	ND	93.5	76-127			O-11
Ethylbenzene	8.78	0.50	"	9.80	ND	89.6	77-130			O-11
Xylenes (total)	44.4	0.50	"	47.9	ND	92.7	78-128			O-11
Surrogate: <i>a,a,a</i> -Trifluorotoluene	13.0		"	10.0		130	55-142			O-11
Matrix Spike Dup (3A07003-MSD1)				Source: MLL0981-06	Prepared & Analyzed: 01/07/03					
Gasoline Range Organics (C6-C10)	450	50	ug/l	550	ND	81.8	62-134	10.0	41	O-11
Benzene	11.2	0.50	"	6.80	ND	162	68-140	19.2	30	O-11, QM-07
Toluene	47.7	0.50	"	41.0	ND	116	76-127	21.3	30	O-11

Sequoia Analytical - Morgan Hill

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URS Corporation
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Project: ARCO #6041, Dublin, Ca
Project Number: ARCO #6041, Dublin, CA
Project Manager: Scott Robinson

MLL0980
Reported:
01/23/03 14:44

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEX 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 3A07003 - EPA 5030B [P/T]										
Matrix Spike Dup (3A07003-MSD1)			Source: MLL0981-06		Prepared & Analyzed: 01/07/03					
Ethylbenzene	11.2	0.50	ug/l	9.80	ND	114	77-130	24.2	21	O-11,QR-02
Xylenes (total)	54.9	0.50	"	47.9	ND	115	78-128	21.1	21	O-11,QR-02
Surrogate: a,a,a-Trifluorotoluene	13.8		"	10.0		138	55-142			O-11

Batch 3A08003 - EPA 5030B [P/T]

Blank (3A08003-BLK1)			Prepared & Analyzed: 01/08/03							
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	"							
Surrogate: a,a,a-Trifluorotoluene	11.8		"	10.0		118	55-142			

Laboratory Control Sample (3A08003-BS1)

Laboratory Control Sample (3A08003-BS1)				Prepared & Analyzed: 01/08/03			
Benzene	11.1	0.50	ug/l	10.0	111	68-140	
Toluene	11.2	0.50	"	10.0	112	76-127	
Ethylbenzene	11.6	0.50	"	10.0	116	77-130	
Xylenes (total)	34.5	0.50	"	30.0	115	78-128	
Surrogate: a,a,a-Trifluorotoluene	11.4		"	10.0	114	55-142	

Laboratory Control Sample (3A08003-BS2)

Laboratory Control Sample (3A08003-BS2)				Prepared & Analyzed: 01/08/03		
Gasoline Range Organics (C6-C10)	218	50	ug/l	250	87.2	62-134
Surrogate: a,a,a-Trifluorotoluene	12.2		"	10.0	122	55-142

Batch 3A08005 - EPA 5030B [P/T]

Blank (3A08005-BLK1)			Prepared & Analyzed: 01/08/03							
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							

Sequoia Analytical - Morgan Hill

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Oakland CA, 94607

Project: ARCO #6041, Dublin, Ca
Project Number: ARCO #6041, Dublin, CA
Project Manager: Scott Robinson

MLL0980
Reported:
01/23/03 14:44

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEX 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
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Batch 3A08005 - EPA 5030B [P/T]

Blank (3A08005-BLK1)

Prepared & Analyzed: 01/08/03

Ethylbenzene	ND	0.50	ug/l							
Xylenes (total)	ND	0.50	"							

<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>11.5</i>		<i>"</i>	<i>10.0</i>		<i>115</i>	<i>55-142</i>			
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Laboratory Control Sample (3A08005-BS1)

Prepared & Analyzed: 01/08/03

Benzene	10.9	0.50	ug/l	10.0		109	68-140			
Toluene	10.9	0.50	"	10.0		109	76-127			
Ethylbenzene	9.90	0.50	"	10.0		99.0	77-130			
Xylenes (total)	33.2	0.50	"	30.0		111	78-128			

<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>10.5</i>		<i>"</i>	<i>10.0</i>		<i>105</i>	<i>55-142</i>			
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Laboratory Control Sample (3A08005-BS2)

Prepared & Analyzed: 01/08/03

Gasoline Range Organics (C6-C10)	233	50	ug/l	250		93.2	62-134			
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<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>10.5</i>		<i>"</i>	<i>10.0</i>		<i>105</i>	<i>55-142</i>			
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Laboratory Control Sample Dup (3A08005-BSD1)

Prepared: 01/08/03 Analyzed: 01/09/03

Benzene	10.9	0.50	ug/l	10.0		109	68-140	0.00	30	
Toluene	11.0	0.50	"	10.0		110	76-127	0.913	30	
Ethylbenzene	10.0	0.50	"	10.0		100	77-130	1.01	21	
Xylenes (total)	33.7	0.50	"	30.0		112	78-128	1.49	21	

<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>9.13</i>		<i>"</i>	<i>10.0</i>		<i>91.3</i>	<i>55-142</i>			
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Laboratory Control Sample Dup (3A08005-BSD2)

Prepared: 01/08/03 Analyzed: 01/09/03

Gasoline Range Organics (C6-C10)	239	50	ug/l	250		95.6	62-134	2.54	41	
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<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>9.33</i>		<i>"</i>	<i>10.0</i>		<i>93.3</i>	<i>55-142</i>			
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Sequoia Analytical - Morgan Hill

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URS Corporation
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Oakland CA, 94607

Project: ARCO #6041, Dublin, Ca
Project Number: ARCO #6041, Dublin, CA
Project Manager: Scott Robinson

MLL0980
Reported:
01/23/03 14:44

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3A08010 - EPA 5035

Blank (3A08010-BLK1)

Prepared & Analyzed: 01/06/03

Ethanol	ND	40	ug/l							
tert-Butyl alcohol	ND	20	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							

Surrogate: 1,2-Dichloroethane-d4 5.51 " 5.00 110 78-129

Laboratory Control Sample (3A08010-BS1)

Prepared & Analyzed: 01/06/03

Methyl tert-butyl ether	9.30	0.50	ug/l	10.0		93.0	63-137			
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Surrogate: 1,2-Dichloroethane-d4 5.20 " 5.00 104 78-129

Laboratory Control Sample Dup (3A08010-BSD1)

Prepared & Analyzed: 01/06/03

Methyl tert-butyl ether	10.2	0.50	ug/l	10.0		102	63-137	9.23	13	
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Surrogate: 1,2-Dichloroethane-d4 5.16 " 5.00 103 78-129

Batch 3A08031 - EPA 5030B P/T

Blank (3A08031-BLK1)

Prepared & Analyzed: 01/07/03

Ethanol	ND	40	ug/l							
tert-Butyl alcohol	ND	10	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							

Surrogate: 1,2-Dichloroethane-d4 5.69 " 5.00 114 78-129

Sequoia Analytical - Morgan Hill

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Sequoia Analytical

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URS Corporation
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Oakland CA, 94607

Project: ARCO #6041, Dublin, Ca
Project Number: ARCO #6041, Dublin, CA
Project Manager: Scott Robinson

MLL0980
Reported:
01/23/03 14:44

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3A08031 - EPA 5030B P/T									
Laboratory Control Sample (3A08031-BS1)					Prepared & Analyzed: 01/07/03				
Methyl tert-butyl ether	10.3	0.50	ug/l	10.0		103	63-137		
Surrogate: 1,2-Dichloroethane-d4	5.27		"	5.00		105	78-129		
Laboratory Control Sample (3A08031-BS2)					Prepared & Analyzed: 01/07/03				
Methyl tert-butyl ether	9.24	0.50	ug/l	8.40		110	63-137		
Surrogate: 1,2-Dichloroethane-d4	5.06		"	5.00		101	78-129		
Laboratory Control Sample Dup (3A08031-BSD1)					Prepared & Analyzed: 01/07/03				
Methyl tert-butyl ether	10.2	0.50	ug/l	10.0		102	63-137	0.976	13
Surrogate: 1,2-Dichloroethane-d4	5.35		"	5.00		107	78-129		
Laboratory Control Sample Dup (3A08031-BSD2)					Prepared & Analyzed: 01/07/03				
Methyl tert-butyl ether	9.59	0.50	ug/l	8.40		114	63-137	3.72	13
Surrogate: 1,2-Dichloroethane-d4	5.35		"	5.00		107	78-129		

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Project: ARCO #6041, Dublin, Ca
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MLL0980
Reported:
01/23/03 14:44

Notes and Definitions

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

O-11 The continuing calibration standard was outside of the acceptance criteria. This should be considered in evaluating the result for its intended purpose.

QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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.

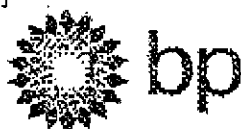
DET Analyte DETECTED

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

Page 1 of 1

Project Name _____
BP BU/GEM CO Portfolio: _____
BP Laboratory Contract Number: _____

Date: 12/27/02

Requested Due Date (mm/dd/yy)

11160980

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

BP/GEM Facility No.:
BP/GEM Facility Address: 7249 Village PKWY, DUBLIN, CA
Site ID No. ARCO 6041
Site Lat/Long:
California Global ID #:

Consultant/Contractor: URS
Address: 500 12th St., Ste. 200
Oakland, CA 94609-4014
e-mail EDD: syed.rehan@urscorp.com

Lab PM: Latonya Pelt
Tele/Fax: 408-776-9800 / 408-782-6308

BP/GEM PM Contact: PAUL SUPPLE
Address:

Consultant/Contractor Project No.: JS-00006041.01 00427
Consultant Tele/Fax: 510-874-1735/510-874-3268
Consultant/Contractor PM: Scott Robinson

Report Type & QC Level: Send EDF Reports

BP/GEM Account No.:

Tele/Fax:

Invoice to: Consultant/Contractor or BP/GEM (circle one)
BP/GEM Work Release No: ENTRIM-50691

Lab Bottle Order No.			Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis						Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TPH-G/HXN (8015/8021)	TPH-D (8015)	MTBE (8021)	MTBE, TAME, ETBE DIBP, TBA (8269)	1,2-DCA & EDB (8269)	Ethanol	
1	mw-2 ✓	1035	X				01	1				X	X		X	X	X	X	
2	mw-3 ✓	1050	X				02	1				X	X		X	X	X	X	
3	mw-4 ✓	1005	X				03	1				X	X		X	X	X	X	
4	mw-5 ✓	916	X				04	1				X	X		X	X	X	X	
5	mw-6 ✓	958	X				05	1				X	X		X	X	X	X	
6	mw-7 ✓	1010	X				06	1				X	X		X	X	X	X	
7	mw-8 ✓	948	X				07	1				X	X		X	X	X	X	
8																			
9																			
10																			

Sampler's Name: Ryan Hamstedt

Relinquished By / Affiliation

Date

Time

Accepted By / Affiliation

Date

Time

Sampler's Company: Blaine Tech

12/27/02 0835

12/27/02 1625

12/27/02 8:35

12/27/02 1625

Shipment Date:

Shipment Method:

Shipment Tracking No:

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

Seals In Place Yes No ✓

Temperature Blank Yes No ✓

Cooler Temperature on Receipt 3 °F(°C)

Trip Blank Yes No ✓

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

BP COC Rev. 1 2/5/02

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: <u>UPS</u>		DATE Received at Lab: <u>12/30/02</u>		Drinking water for regulatory purposes: YES / <u>(NO)</u>	
REC. BY (PRINT) <u>HT</u>		TIME Received at Lab: <u>1625</u>		Wastewater for regulatory purposes: YES / <u>(NO)</u>	
WORKORDER: <u>726 0980</u>		LOG IN DATE: <u>12-31-02</u>			

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	#	CLIENT ID	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / <u>(Absent)</u> Intact / Broken*	01		MW2	6 vol (HCL)	1	12/27	
2. Chain-of-Custody	<u>(Present)</u> / Absent*	02		3				
3. Traffic Reports or Packing List:	Present / <u>(Absent)</u>	04		4				
4. Airbill:	Airbill / Sticker Present / <u>(Absent)</u>	05		5				
5. Airbill #:		06		6				
6. Sample Labels:	<u>(Present)</u> / Absent	07		7				
7. Sample IDs:	<u>(Listed)</u> / Not Listed on Chain-of-Custody	08		8				
8. Sample Condition:	<u>(Intact)</u> / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample labels agree?	<u>(Yes)</u> / No*							
10. Sample received within hold time:	<u>(Yes)</u> / No*							
11. Proper Preservatives used:	<u>(Yes)</u> / No*							
12. Temp Rec. at Lab: Is temp 4 +/-2°C?	<u>(Yes)</u> / No**							
(Acceptance range for samples requiring thermal pres.)								
**Exception (if any): Metals / DFF on ice? / DFF no ice? or Problem COC								

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

ATTACHMENT C

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

01/29/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #6041, Dublin, Ca
Work Order Number:	MLL0980
Global ID:	NA
Lab Report Number:	MLL0980012320031444

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Animcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
MLL09800123200 31444	MW-2	MLL098001	W	CS	8260+OX	SW5035	12/27/02	01/06/03	01/06/03	3A08010	1	
MLL09800123200 31444	MW-2	MLL098001	W	CS	SW8021B	SW5030B	12/27/02	01/08/03	01/08/03	3A08003	1	
MLL09800123200 31444	MW-3	MLL098002	W	CS	8260+OX	SW5035	12/27/02	01/06/03	01/06/03	3A08010	1	
MLL09800123200 31444	MW-3	MLL098002	W	CS	SW8021B	SW5030B	12/27/02	01/08/03	01/08/03	3A08005	1	
MLL09800123200 31444	MW-4	MLL098003	W	CS	8260+OX	SW5035	12/27/02	01/06/03	01/06/03	3A08010	1	
MLL09800123200 31444	MW-4	MLL098003	W	CS	SW8021B	SW5030B	12/27/02	01/07/03	01/07/03	3A07003	1	
MLL09800123200 31444	MW-5	MLL098004	W	CS	8260+OX	SW5035	12/27/02	01/06/03	01/06/03	3A08010	1	
MLL09800123200 31444	MW-5	MLL098004	W	CS	SW8021B	SW5030B	12/27/02	01/07/03	01/07/03	3A07003	1	
MLL09800123200 31444	MW-6	MLL098005	W	CS	8260+OX	SW5035	12/27/02	01/06/03	01/06/03	3A08010	1	
MLL09800123200 31444	MW-6	MLL098005	W	CS	SW8021B	SW5030B	12/27/02	01/07/03	01/07/03	3A07003	1	
MLL09800123200 31444	MW-7	MLL098006	W	CS	8260+OX	SW5035	12/27/02	01/06/03	01/06/03	3A08010	1	
MLL09800123200 31444	MW-7	MLL098006	W	CS	SW8021B	SW5030B	12/27/02	01/07/03	01/07/03	3A07003	1	
MLL09800123200 31444	MW-8	MLL098007	W	CS	8260+OX	SW5030B	12/27/02	01/07/03	01/08/03	3A08031	1	
MLL09800123200 31444	MW-8	MLL098007	W	CS	SW8021B	SW5030B	12/27/02	01/07/03	01/07/03	3A07003	1	
		MLL098106	W	NC	SW8021B	SW5030B	//	01/07/03	01/07/03	3A07003	1	
		3A07003BS1	WQ	BS1	SW8021B	SW5030B	//	01/07/03	01/07/03	3A07003	1	
		3A07003BS2	WQ	BS2	SW8021B	SW5030B	//	01/07/03	01/07/03	3A07003	1	
		3A07003BLK1	WQ	LB1	SW8021B	SW5030B	//	01/07/03	01/07/03	3A07003	1	
		3A07003MS1	W	MS1	SW8021B	SW5030B	//	01/07/03	01/07/03	3A07003	1	
		3A07003MSD1	W	SD1	SW8021B	SW5030B	//	01/07/03	01/07/03	3A07003	1	
		3A08003BS1	WQ	BS1	SW8021B	SW5030B	//	01/08/03	01/08/03	3A08003	1	
		3A08003BS2	WQ	BS2	SW8021B	SW5030B	//	01/08/03	01/08/03	3A08003	1	
		3A08003BLK1	WQ	LB1	SW8021B	SW5030B	//	01/08/03	01/08/03	3A08003	1	
		3A08005BSD1	WQ	BD1	SW8021B	SW5030B	//	01/08/03	01/09/03	3A08005	1	

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
		3A08005BSD2	WQ	BD2	SW8021B	SW5030B	//	01/08/03	01/09/03	3A08005	1	
		3A08005BS1	WQ	BS1	SW8021B	SW5030B	//	01/08/03	01/08/03	3A08005	1	
		3A08005BS2	WQ	BS2	SW8021B	SW5030B	//	01/08/03	01/08/03	3A08005	1	
		3A08005BLK1	WQ	LB1	SW8021B	SW5030B	//	01/08/03	01/08/03	3A08005	1	
		3A08010BSD1	WQ	BD1	8260+OX	SW5035	//	01/06/03	01/06/03	3A08010	1	
		3A08010BS1	WQ	BS1	8260+OX	SW5035	//	01/06/03	01/06/03	3A08010	1	
		3A08010BLK1	WQ	LB1	8260+OX	SW5035	//	01/06/03	01/06/03	3A08010	1	
		3A08031BSD1	WQ	BD1	8260+OX	SW5030B	//	01/07/03	01/07/03	3A08031	1	
		3A08031BSD2	WQ	BD2	8260+OX	SW5030B	//	01/07/03	01/07/03	3A08031	1	
		3A08031BS1	WQ	BS1	8260+OX	SW5030B	//	01/07/03	01/07/03	3A08031	1	
		3A08031BS2	WQ	BS2	8260+OX	SW5030B	//	01/07/03	01/07/03	3A08031	1	
		3A08031BLK1	WQ	LB1	8260+OX	SW5030B	//	01/07/03	01/07/03	3A08031	1	

EDFSAMP: Error Summary Log

01/29/03

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

EDFTEST: Error Summary Log

01/29/03

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

EDFRES: Error Summary Log

01/29/03

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	3A07003MS1	MS1	W	SW8021B	PR	01/07/03	1	AAATFBZME
Warning: extra parameter	3A07003MS1	MS1	W	SW8021B	PR	01/07/03	1	GROC6C10
Warning: extra parameter	3A07003MS1	MS1	W	SW8021B	PR	01/07/03	1	XYLENES
Warning: extra parameter	3A07003MSD1	SD1	W	SW8021B	PR	01/07/03	1	AAATFBZME
Warning: extra parameter	3A07003MSD1	SD1	W	SW8021B	PR	01/07/03	1	GROC6C10
Warning: extra parameter	3A07003MSD1	SD1	W	SW8021B	PR	01/07/03	1	XYLENES
Warning: extra parameter	MLL098001	CS	W	SW8021B	PR	01/08/03	1	AAATFBZME
Warning: extra parameter	MLL098001	CS	W	SW8021B	PR	01/08/03	1	GROC6C10
Warning: extra parameter	MLL098001	CS	W	SW8021B	PR	01/08/03	1	XYLENES
Warning: extra parameter	MLL098002	CS	W	SW8021B	PR	01/08/03	1	AAATFBZME
Warning: extra parameter	MLL098002	CS	W	SW8021B	PR	01/08/03	1	GROC6C10
Warning: extra parameter	MLL098002	CS	W	SW8021B	PR	01/08/03	1	XYLENES
Warning: extra parameter	MLL098003	CS	W	SW8021B	PR	01/07/03	1	AAATFBZME
Warning: extra parameter	MLL098003	CS	W	SW8021B	PR	01/07/03	1	GROC6C10
Warning: extra parameter	MLL098003	CS	W	SW8021B	PR	01/07/03	1	XYLENES
Warning: extra parameter	MLL098004	CS	W	SW8021B	PR	01/07/03	1	AAATFBZME
Warning: extra parameter	MLL098004	CS	W	SW8021B	PR	01/07/03	1	GROC6C10
Warning: extra parameter	MLL098004	CS	W	SW8021B	PR	01/07/03	1	XYLENES
Warning: extra parameter	MLL098005	CS	W	SW8021B	PR	01/07/03	1	AAATFBZME
Warning: extra parameter	MLL098005	CS	W	SW8021B	PR	01/07/03	1	GROC6C10
Warning: extra parameter	MLL098005	CS	W	SW8021B	PR	01/07/03	1	XYLENES
Warning: extra parameter	MLL098006	CS	W	SW8021B	PR	01/07/03	1	AAATFBZME
Warning: extra parameter	MLL098006	CS	W	SW8021B	PR	01/07/03	1	GROC6C10
Warning: extra parameter	MLL098006	CS	W	SW8021B	PR	01/07/03	1	XYLENES
Warning: extra parameter	MLL098007	CS	W	SW8021B	PR	01/07/03	1	AAATFBZME

Error type	Labsampid	Qccode	Matrix	Anncode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MLL098007	CS	W	SW8021B	PR	01/07/03	1	GROC6C10
Warning: extra parameter	MLL098007	CS	W	SW8021B	PR	01/07/03	1	XYLENES
Warning: extra parameter	MLL098106	NC	W	SW8021B	PR	01/07/03	1	AAATFBZME
Warning: extra parameter	MLL098106	NC	W	SW8021B	PR	01/07/03	1	GROC6C10
Warning: extra parameter	MLL098106	NC	W	SW8021B	PR	01/07/03	1	XYLENES
Warning: extra parameter	3A07003BLK1	LB1	WQ	SW8021B	PR	01/07/03	1	AAATFBZME
Warning: extra parameter	3A07003BLK1	LB1	WQ	SW8021B	PR	01/07/03	1	GROC6C10
Warning: extra parameter	3A07003BLK1	LB1	WQ	SW8021B	PR	01/07/03	1	XYLENES
Warning: extra parameter	3A07003BS1	BS1	WQ	SW8021B	PR	01/07/03	1	AAATFBZME
Warning: extra parameter	3A07003BS1	BS1	WQ	SW8021B	PR	01/07/03	1	XYLENES
Warning: extra parameter	3A07003BS2	BS2	WQ	SW8021B	PR	01/07/03	1	AAATFBZME
Warning: extra parameter	3A07003BS2	BS2	WQ	SW8021B	PR	01/07/03	1	GROC6C10
Warning: extra parameter	3A08003BLK1	LB1	WQ	SW8021B	PR	01/08/03	1	AAATFBZME
Warning: extra parameter	3A08003BLK1	LB1	WQ	SW8021B	PR	01/08/03	1	GROC6C10
Warning: extra parameter	3A08003BLK1	LB1	WQ	SW8021B	PR	01/08/03	1	XYLENES
Warning: extra parameter	3A08003BS1	BS1	WQ	SW8021B	PR	01/08/03	1	AAATFBZME
Warning: extra parameter	3A08003BS1	BS1	WQ	SW8021B	PR	01/08/03	1	XYLENES
Warning: extra parameter	3A08003BS2	BS2	WQ	SW8021B	PR	01/08/03	1	AAATFBZME
Warning: extra parameter	3A08003BS2	BS2	WQ	SW8021B	PR	01/08/03	1	GROC6C10
Warning: extra parameter	3A08005BLK1	LB1	WQ	SW8021B	PR	01/08/03	1	AAATFBZME
Warning: extra parameter	3A08005BLK1	LB1	WQ	SW8021B	PR	01/08/03	1	GROC6C10
Warning: extra parameter	3A08005BLK1	LB1	WQ	SW8021B	PR	01/08/03	1	XYLENES
Warning: extra parameter	3A08005BS1	BS1	WQ	SW8021B	PR	01/08/03	1	AAATFBZME
Warning: extra parameter	3A08005BS1	BS1	WQ	SW8021B	PR	01/08/03	1	XYLENES
Warning: extra parameter	3A08005BS2	BS2	WQ	SW8021B	PR	01/08/03	1	AAATFBZME
Warning: extra parameter	3A08005BS2	BS2	WQ	SW8021B	PR	01/08/03	1	GROC6C10
Warning: extra parameter	3A08005BSD1	BD1	WQ	SW8021B	PR	01/09/03	1	AAATFBZME
Warning: extra parameter	3A08005BSD1	BD1	WQ	SW8021B	PR	01/09/03	1	XYLENES
Warning: extra parameter	3A08005BSD2	BD2	WQ	SW8021B	PR	01/09/03	1	AAATFBZME

EDFQC: Error Summary Log

01/29/03

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

EDFCL: Error Summary Log

01/29/03

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

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