



Atlantic Richfield Company
(a BP affiliated company)

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Alameda County

JUN 23 2003

Environmental Health



June 10, 2003

Re: Second Quarter 2003 Monitoring Report
BP Station #2162
15135 Hesperian Blvd.
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



Alameda County

JUN 23 2003

Environmental Health

May 30, 2003

Mr. Scott Seery
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

**Re: Second Quarter 2003 Groundwater Monitoring Report
ARCO Service Station #2162
15135 Hesperian Boulevard
San Leandro, California
URS Project #38486120**

Dear Mr. Seery:

On behalf of Atlantic Richfield Company (ARCO – an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Second Quarter 2003 Groundwater Monitoring Report* for the ARCO Service Station #2162, located at 15135 Hesperian Boulevard, San Leandro, California.

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

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager

James F. Durkin, C.Hg
Senior Geologist



Enclosure: Second Quarter 2003 Groundwater Monitoring Report

cc: Mr. Paul Supple, ARCO, PO Box 6549 Moraga, CA 94570
Mr. Mike Bakaldin, City of San Leandro Environmental Services Division, 835 East 14th St., San Leandro, CA 94577
Mr. John Jang, RWQCB, S.F. Bay Region, 1515 Clay St., Ste. 1400, Oakland, CA 94612

Date: May 30, 2003
Quarter: 2Q 03

ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 2162 Address: 15135 Hesperian Boulevard, San Leandro, CA
Atlantic Richfield Co. Environmental Engineer: Paul Supple
Consulting Co./Contact Person: URS Corporation/ Scott Robinson
Consultant Project No.: 38486120
Primary Agency: Alameda County Health Care Services Agency (ACHCSA)

WORK PERFORMED THIS QUARTER (Second – 2003):

1. Performed second quarter groundwater monitoring and sampling event on April 7, 2003.
2. Prepared and submitted first quarter 2003 groundwater monitoring report.
3. Prepared second quarter 2003 groundwater monitoring report.
4. Prepared and submitted report on product line replacement work.

WORK PROPOSED FOR NEXT QUARTER (Third – 2003):

1. Perform third quarter 2003 groundwater monitoring event.
2. Prepare and submit third quarter 2003 groundwater monitoring report.

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Quarterly: MW-1, MW-2, MW-3, MW-4
Frequency of Groundwater Monitoring: Quarterly
Is Free Product (FP) Present On-Site: No
Current Remediation Techniques: Natural Attenuation
Approximate Depth to Groundwater: 7.36 ft (MW-2) to 8.78 ft (MW-4) feet
Groundwater Gradient (direction): Southwest
Groundwater Gradient (magnitude): 0.011 feet per foot

DISCUSSION:

TPH-g was detected in one of the four wells sampled this quarter (MW-3) at a concentration of 56 micrograms per liter ($\mu\text{g/L}$). Benzene was not detected in any of the four wells sampled. MTBE was detected in two wells at concentrations of 14 $\mu\text{g/L}$ (MW-4) and 56 $\mu\text{g/L}$ (MW-3). Fuel oxygenates TBA, DIPE, ETBE, and TAME were reported at non-detect levels in all wells sampled, except for 0.72 $\mu\text{g/L}$ TAME in well MW-3.

RECOMMENDATIONS:

We recommend changing the sampling frequency of wells MW-3 and MW-4 to semi-annually and wells MW-1 and MW-2 to annually. The constituents of concern have consistently had low to non-detect values at all four wells for the past 2 years.

ATTACHMENTS:

- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Groundwater Analytical Data - Fuel Oxygenates
- Table 3 – Groundwater Flow Direction and Gradient
- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – April 7, 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

R E P O R T

**SECOND QUARTER 2003
GROUNDWATER MONITORING**

**ARCO SERVICE STATION #2162
15135 HESPERIAN BOULEVARD
SAN LEANDRO, CALIFORNIA**

Prepared for
Atlantic Richfield Company

May 30, 2003

URS

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

38486120

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station # 2162
15135 Hesperian Boulevard
San Leandro, California

Well Number	Date Sampled	Top of Riser Elevation (feet, MSL)	Depth to Groundwater (feet, TOC)	Groundwater Elevation (feet, MSL)	TPH					Dissolved Oxygen (mg/L)		
					as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)		MTBE (µg/L)	
MW-1	06/20/00	31.19	8.33	22.86	ND<50	ND<0.5	0.8	ND<0.5	ND<1.0	ND<10	NA	
	09/29/00		9.07	22.12	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	
	12/17/00		8.69	22.50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	
	03/23/01		8.19	23.00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	
	06/20/01		8.97	22.22	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	
	09/22/01		9.56	21.63	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	
	12/28/01		8.40	22.79	ND<50	ND<0.5	ND<0.5	ND<0.5	0.63	ND<2.5	NA	
	03/14/02		8.05	23.14	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	170	NA	
	04/18/02		8.27	22.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NA	
	07/19/02		NP	8.88	22.31	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	1.0
	10/09/02 ^a		NP	NM	NM	NS	NS	NS	NS	NS	NS	NS
	03/28/03 ^{a,c}		NP	NM	NM	NS	NS	NS	NS	NS	NS	NS
	04/07/03		NP	8.28	22.91	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.6
	MW-2		06/20/00	30.38	7.38	23.00	NS	NS	NS	NS	NS	NS
09/29/00		8.08	22.30		266	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	
12/17/00		7.80	22.58		175	ND<0.5	ND<0.5	0.659	ND<0.5	ND<2.5	NA	
03/23/01		7.23	23.15		351	ND<0.5	ND<0.5	0.912	ND<0.5	ND<2.5	NA	
06/20/01		7.98	22.40		360	ND<0.5	ND<0.5	0.74	ND<0.5	ND<2.5	NA	
09/22/01		8.55	21.83		190	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	
12/28/01		7.53	22.85		130	ND<0.5	0.93	ND<0.5	0.51	ND<2.5	NA	
03/14/02		7.17	23.21		ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	
04/18/02		7.31	23.07		74	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NA	
07/19/02		P	7.93		22.45	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	1.1
10/09/02		P	8.55		21.83	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	0.7
03/28/03 ^c		P	7.30		23.08	ND<50	ND<0.50	0.83	ND<0.50	ND<0.50	ND<0.50	1.48
04/07/03		P	7.36		23.02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.4

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station # 2162
15135 Hesperian Boulevard
San Leandro, California

Well Number	Date Sampled	Top of Riser Elevation (feet, MSL)	Depth to Groundwater (feet, TOC)	Groundwater Elevation (feet, MSL)	TPH					MTBE (µg/L)	Dissolved Oxygen (mg/L)
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)		
MW-3	06/20/00	30.30	7.75	22.55	NS	NS	NS	NS	NS	NS	NA
	09/29/00		8.46	21.84	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	128	NA
	12/17/00		8.01	22.29	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	46.7	NA
	03/23/01		7.70	22.60	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	26.8	NA
	06/20/01		8.23	22.07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	30	NA
	09/22/01		8.89	21.41	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	12	NA
	12/28/01		7.83	22.47	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.2	NA
	03/14/02		7.48	22.82	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	47	NA
	04/18/02		7.62	22.68	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NA
	07/19/02	P	8.23	22.07	100 ^b	ND<1.0	ND<1.0	ND<1.0	ND<1.0	330	0.9
	10/09/02	P	8.83	21.47	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	61	0.5
	03/28/03 ^c	P	7.85	22.45	52	ND<0.50	1.2	ND<0.50	ND<0.50	45	1.42
	04/07/03	P	7.71	22.59	56	ND<0.50	ND<0.50	ND<0.50	ND<0.50	56	1.1
MW-4	06/20/00	30.39	8.87	21.52	NS	NS	NS	NS	NS	NS	NA
	09/29/00		9.61	20.78	ND<50	1.02	ND<0.5	ND<0.5	ND<0.5	12.2	NA
	12/17/00		9.17	21.22	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.81	NA
	03/23/01		8.70	21.69	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.04	NA
	06/20/01		9.51	20.88	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA
	09/22/01		10.06	20.33	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.2	NA
	12/28/01		8.86	21.53	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.3	NA
	03/14/02		8.52	21.87	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.1	NA
	04/18/02		8.76	21.63	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NA
	07/19/02	NP	9.39	21.00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	30	1.8
	10/09/02	NP	10.08	20.31	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	28	1.0
	03/28/03 ^c	NP	8.88	21.51	ND<50	ND<0.50	1.3	ND<0.50	ND<0.50	4.4	0.98
	04/07/03	NP	8.78	21.61	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	14	1.1

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station # 2162
15135 Hesperian Boulevard
San Leandro, California

TPH	= Total petroleum hydrocarbons
MTBE	= Methyl tertiary butyl ether
µg/L	= Micrograms per liter equivalent to parts per billion (ppb)
mg/L	= Milligrams per liter equivalent to parts per million (ppm)
ND<	= Not detected at or above specified laboratory method detection limit
MSL	= Mean sea level
TOC	= Top of casing
P	= Purge
NP	= No Purge
NS	= Not sampled
a	= Well not accessible - car parked over.
b	= Hydrocarbon pattern is present in the requested fuel quantitation range but does not represent the pattern of the requested fuel
c	=TPH-g, BTEX and MTBE analyzed by EPA method 8260 beginning on 1st Quarter 2003 sampling event (3/28/03)
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
Fuel Oxygenate Analytical Data

ARCO Service Station # 2162
15135 Hesperian Boulevard
San Leandro, California

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-1	03/28/03	NS	NS	NS	NS	NS	NS	NS	NS
	04/07/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-2	03/28/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	04/07/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-3	03/28/03	ND<100	ND<20	45	ND<0.50	ND<0.50	0.73	ND<0.50	ND<0.50
	04/07/03	ND<100	ND<20	56	ND<0.50	ND<0.50	0.72	ND<0.50	ND<0.50
MW-4	03/28/03	ND<100	ND<20	4.4	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	04/07/03	ND<100	ND<20	14	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

Notes:

All fuel oxygenate compounds analyzed using EPA Method 8260B

ND< = Not detected at or above specified laboratory method detection limit

NS = Not sampled

TBA = Tert-butyl alcohol

MTBE = Methyl tert-butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tert butyl ether

TAME = Tert-amyl methyl ether

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromomethane

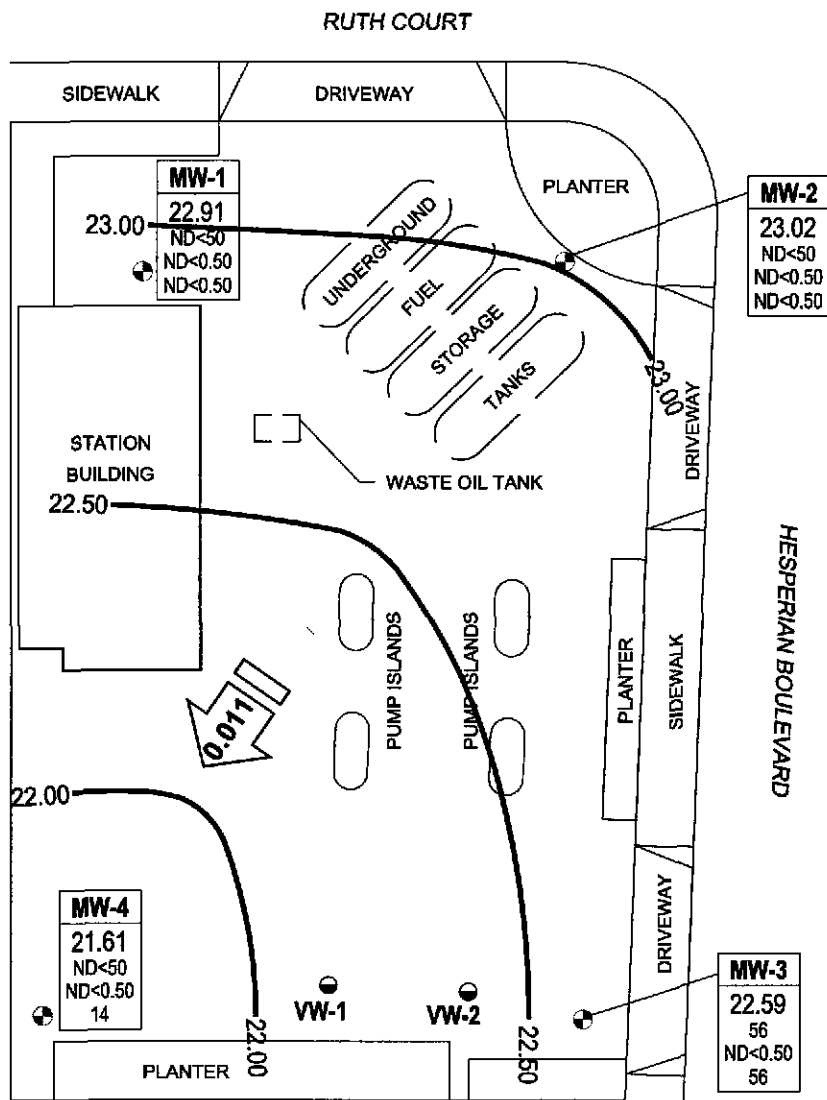
µg/L = Micrograms per liter

Table 3
Groundwater Flow Direction and Gradient

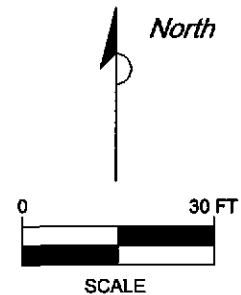
ARCO Service Station # 2162
15135 Hesperian Boulevard
San Leandro, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
06/20/00	Southwest	0.010
09/29/00	Southwest	0.010
12/17/00	Southwest	0.010
03/23/01	Southwest	0.011
06/20/01	Southwest	0.013
09/22/01	Southwest	0.012
12/28/01	Southwest	0.010
03/14/02	Southwest	0.011
04/18/02	Southwest	0.012
07/19/02	Southwest	0.012
10/09/02	Southwest	0.013
03/28/03	Southwest	0.013
04/07/03	Southwest	0.011

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.



- LEGEND**
- ⊕ MONITORING WELL
 - SOIL VAPOR EXTRACTION WELL
 - 22.00 — WATER TABLE CONTOUR (FT ABOVE MSL)
 - 0.011 ↗ APPROXIMATE GROUNDWATER FLOW GRADIENT AND DIRECTION (FT/FT)
 - Well — WELL DESIGNATION
 - ELEV — GROUNDWATER ELEVATION (FT ABOVE MSL)
 - TPH-g, Benzene, MTBE — TPH-g, BENZENE AND MTBE CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
 - ND< — NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS



NOTE: SITE MAP ADAPTED FROM IT CORPORATION FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

URS	Project No. 38486120	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Second Quarter 2003 (April 7, 2003)	FIGURE 1
	Arco Service Station 2162 15135 Hesperian Boulevard San Leandro, California		

ATTACHMENT A
FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

Sampling Procedures

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

Wells not containing free product are purged approximately three casing volumes of water (or until dewatered) using a centrifugal pump, gas displacement pump, or bailer. Equipment and purging method used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially (approximately 80%) recover. Groundwater samples (both purge and no purge) are collected using a Teflon bailer, placed into appropriate

Environmental Protection Agency- (EPA) approved containers, labeled, logged onto chain-of-custody records, and transported on ice to a California State-certified laboratory. Wells with free product are not sampled and free product is removed according to California Code of Regulation, Title 23, Div. 3, Chap. 16, Section 2655, UST Regulations.

WELL GAUGING DATA

Project # 030107-PH1 Date 4/7/03 Client Arco 2162

Site 1535 Hesperion Blvd, San Leandro

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-1	4					5.28	15.95	↓	NR@8'
mw-2	4					7.36	15.96		NR@8'
mw-3	4					7.71	14.96		
mw-4	4					8.78	17.70		✓

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040307-2H1	Station # Arco 2162
Sampler: Ryan H	Date: 4/7/03
Well I.D.: mw-1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 15.95	Depth to Water: 8.25
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 Other: _____	Sampling Method: Bailer <u>Disposable Bailer</u> Extraction Port Other: _____
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Top of Screen: 8' 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>6</u> Gal.	x	<u>8</u>	=	<u>8</u> Gal.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
855	63.2	6.9	862	<u>8</u>	Final

Did well dewater? Yes No	Gallons actually evacuated: <u>8</u>
Sampling Time: 855	Sampling Date: 4/7/03
Sample I.D.: mw-1	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G</u> <u>BTEX</u> MTBE TPH-D	Other: <u>1,2-DCA + EDB</u> <u>oxygenates, ethanol by 8260</u>
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>1.6</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 010307-2H1	Station # Arco 2162
Sampler: Ryan H	Date: 4/7/03
Well I.D.: mw-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 15.96	Depth to Water: 7.36
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: <u>Bailer</u>	Sampling Method: <u>Bailer</u>
Disposable Bailer	<u>Disposable Bailer</u>
Middleburg	Extraction Port
Electric Submersible	Other: _____
Extraction Pump	
Other: _____	

Top of Screen: 8' 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>5.6</u>	X	<u>3</u>	=	<u>16.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
837	63.4	6.9	774	5.6	clear
838	63.6	6.9	765	11.2	"
839	63.6	7.0	798	16.3	"

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 16.8
Sampling Time: 844	Sampling Date: 4/7/03
Sample I.D.: mw-2	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G</u> <u>BTEX</u> MTBE TPH-D Other: <u>1,2-DCA+REXB</u> <u>oxygenates, ethanol by 8260</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: <u>1.4</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040307-RH1	Station # Arco 2162
Sampler: Ryan H	Date: 4/7/03
Well I.D.: mw-3	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 14.96	Depth to Water: 7.71
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: _____
 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.

4.7	X	3	=	14.1	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μS)	Gals. Removed	Observations
823	66.6	6.7	549	4.7	clear, slight color
824	66.4	6.6	550	9.4	clear
825	66.3	6.8	549	14.1	"

Did well dewater? Yes No Gallons actually evacuated: 14.1

Sampling Time: 830 Sampling Date: 4/7/03

Sample I.D.: mw-3 Laboratory: Pace Sequoia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: 1,2-DCA + EHS, oxygenates, ethanol by 8260

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 #: 040307-2H1	Station # Arco 2162
Sampler: Ryan H	Date: 4/7/03
Well I.D.: mw-4	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 1770	Depth to Water: 878
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 Other: _____	Sampling Method: <u>Bailer</u> <u>Disposable Bailer</u> Extraction Port Other: _____
---	---

Top of Screen: 8' 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>Grab</u>	X	<u>0</u>	=	<u>0</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
905	69.2	7.0	888	<u>0</u>	clear

Did well dewater? Yes _____ No <u>_____</u>	Gallons actually evacuated: <u>0</u>
Sampling Time: 905	Sampling Date: 4/7/03
Sample I.D.: mw-4	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G</u> <u>BTEX</u> MTBE TPH-D	Other: <u>1,2-DCA + EDB</u> <u>oxygenates, ethanol by 8260</u>
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: <u>1.1</u> 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: _____

Date: 4/7/03 Requested Due Date (mm/dd/yy) _____

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

Lab Name: SEQUOIA	BP/GEM Facility No.:	Consultant/Contractor: URS
Lab Address: 885 Jarvis Dr. Morgan Hill, CA 95037	BP/GEM Facility Address: 15135 HESPERIAN BLVD, San Leandro, CA	Address: 500 12th St, Ste. 200 Oakland, CA 94609-4014
Lab PM: Latonya Pelt	Site ID No. ARCO 2162	e-mail EDD: syed_rehan@urscorp.com
Lab Phone/Fax: 408-776-9600 / 408-782-6308	Site Lat/Long:	Consultant/Contractor Project No.: J5-00002162.01 00427
Report Type & QC Level: Send EDF Reports	California Global ID #: T0600100084	Consultant Tele/Fax: 510-874-1735/510-874-3288
BP/GEM Account No.:	BP/GEM PM Contact: PAUL SUPPLE	Consultant/Contractor PM: Scott Robinson
Lab Bottle Order No.:	Address:	Invoice to: Consultant/Contractor or (BP/GEM) (circle one)
	Tele/Fax:	BP/GEM Work Release No: INTRIM -50319

Item No.	Sample Description	Time	Matrix			Laboratory No.	No. of containers	Preservatives				Requested Analysis				Sample Point Lat/Long and Comments	
			Soil/Solid	Water/Liquid	Sediments			Air	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TPH-G/BTEX (8015/8014/8260)	TPH-D (8015)	MTEB (8021)		MTEB, TAME, ETBE, DIPE, TBA (8260)
1	nw-1	855		X			3				X			X	X		
2	nw-2	844		X			3				X			X	X		
3	nw-3	830		X			3				X			X	X		
4	nw-4	905		X			3				X			X	X		
5																	
6																	
7																	
8																	
9																	
10																	

Sampler's Name: <u>Ryan Hanstett</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date:	Time:	Accepted By / Affiliation:	Date:	Time:
Sampler's Company: <u>Blaine Tech</u>	<u>[Signature]</u>					
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

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

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

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 PLAINTECH 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:

Station #		2162	
Station Address		15135 Hesperian Blvd. San Leandro	
Total Gallons Collected From Groundwater Monitoring Wells:			
31.0			
added equip. rinse water	2.0	any other adjustments	
TOTAL GALS. RECOVERED	33.0	loaded onto BTS vehicle #	22
BTS event #		time	date
030407-241		915	4/7/03
signature	Zou Hui		

REC'D AT		time	date
			1/1
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 April, 2003

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

RE: ARCO #2162, San Leandro, Ca
Sequoia Work Order: MMD0319

Enclosed are the results of analyses for samples received by the laboratory on 04/08/03 16:40. 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 #2162, San Leandro, Ca
Project Number: Intrim- 50319
Project Manager: Scott Robinson

MMD0319
Reported:
04/23/03 13:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MMD0319-01	Water	04/07/03 08:55	04/08/03 16:40
MW-2	MMD0319-02	Water	04/07/03 08:44	04/08/03 16:40
MW-3	MMD0319-03	Water	04/07/03 08:30	04/08/03 16:40
MW-4	MMD0319-04	Water	04/07/03 09:05	04/08/03 16:40

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



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

Project: ARCO #2162, San Leandro, Ca
Project Number: Intrim- 50319
Project Manager: Scott Robinson

MMD0319
Reported:
04/23/03 13:22

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MMD0319-01) Water Sampled: 04/07/03 08:55 Received: 04/08/03 16:40									
Ethanol	ND	100	ug/l	1	3D19016	04/19/03	04/20/03	EPA 8260B	
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	"	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
Xylenes (total)	ND	0.50	"	"	"	"	"	"	"
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	78-129	"	"	"	"	"	"
MW-2 (MMD0319-02) Water Sampled: 04/07/03 08:44 Received: 04/08/03 16:40									
Ethanol	ND	100	ug/l	1	3D19016	04/19/03	04/20/03	EPA 8260B	
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	"	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
Xylenes (total)	ND	0.50	"	"	"	"	"	"	"
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	78-129	"	"	"	"	"	"



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

Project: ARCO #2162, San Leandro, Ca
Project Number: Intrim- 50319
Project Manager: Scott Robinson

MMD0319
Reported:
04/23/03 13:22

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MMD0319-03) Water Sampled: 04/07/03 08:30 Received: 04/08/03 16:40									
Ethanol	ND	100	ug/l	1	3D19016	04/19/03	04/20/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	56	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	0.72	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	56	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	78-129	"	"	"	"	"	
MW-4 (MMD0319-04) Water Sampled: 04/07/03 09:05 Received: 04/08/03 16:40									
Ethanol	ND	100	ug/l	1	3D19016	04/19/03	04/20/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	14	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	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	78-129	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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



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

Project: ARCO #2162, San Leandro, Ca
Project Number: Intrim- 50319
Project Manager: Scott Robinson

MMD0319
Reported:
04/23/03 13:22

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	-----------	-------	-----	-----------	-------

Batch 3D19016 - EPA 5030B P/T

Blank (3D19016-BLK1)

Prepared & Analyzed: 04/19/03

Ethanol	ND	100	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	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C6-C10)	ND	50	"							

Surrogate: 1,2-Dichloroethane-d4 4.99 " 5.00 99.8 78-129

Laboratory Control Sample (3D19016-BS1)

Prepared & Analyzed: 04/19/03

Methyl tert-butyl ether	9.51	0.50	ug/l	10.0		95.1	63-137
Benzene	9.72	0.50	"	10.0		97.2	78-124
Toluene	10.3	0.50	"	10.0		103	78-129

Surrogate: 1,2-Dichloroethane-d4 5.18 " 5.00 104 78-129

Laboratory Control Sample (3D19016-BS2)

Prepared & Analyzed: 04/19/03

Methyl tert-butyl ether	8.49	0.50	ug/l	9.04		93.9	63-137
Benzene	5.43	0.50	"	5.44		99.8	78-124
Toluene	34.5	0.50	"	32.8		105	78-129
Gasoline Range Organics (C6-C10)	386	50	"	440		87.7	70-113

Surrogate: 1,2-Dichloroethane-d4 5.18 " 5.00 104 78-129

Sequoia Analytical - Morgan Hill

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



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

Project: ARCO #2162, San Leandro, Ca
Project Number: Intrim- 50319
Project Manager: Scott Robinson

MMD0319
Reported:
04/23/03 13:22

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3D19016 - EPA 5030B P/T

Matrix Spike (3D19016-MS1)

Source: MMD0323-05

Prepared & Analyzed: 04/19/03

Methyl tert-butyl ether	1100	25	ug/l	452	710	86.3	63-137			
Benzene	308	25	"	272	30	102	78-124			
Toluene	1760	25	"	1640	ND	107	78-129			
Gasoline Range Organics (C6-C10)	20900	2500	"	22000	770	91.5	70-113			

Surrogate: 1,2-Dichloroethane-d4

5.10

"

5.00

102

78-129

Matrix Spike Dup (3D19016-MSD1)

Source: MMD0323-05

Prepared & Analyzed: 04/19/03

Methyl tert-butyl ether	1010	25	ug/l	452	710	66.4	63-137	8.53	13	
Benzene	276	25	"	272	30	90.4	78-124	11.0	12	
Toluene	1590	25	"	1640	ND	97.0	78-129	10.1	10	QR-02
Gasoline Range Organics (C6-C10)	18600	2500	"	22000	770	81.0	70-113	11.6	9	QR-02

Surrogate: 1,2-Dichloroethane-d4

4.94

"

5.00

98.8

78-129



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

Project: ARCO #2162, San Leandro, Ca
Project Number: Intrim- 50319
Project Manager: Scott Robinson

MMD0319
Reported:
04/23/03 13:22

Notes and Definitions

- QR-02 The RPD result exceeded the control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



Chain of Custody Record

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

Date: 4/1/03

Requested Due Date (mm/dd/yy) MND 03/19

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: 408-776-9800 / 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: 15135 HESPERIAN BLVD, San Leandro, CA
 Site ID No.: ARCO 2102
 Site Lat/Long: _____
 California Global ID #: T0600100084
 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.: 15-00002162.01 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.: INTIRIM -50319

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis					Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TPH-G/INTEX (8015)	TPH -D (8015)	MTBE (8021)	MTBE, TAME, ETBE DUPE, TBA (8250)	1,2-DCA & EDB (8260)	
1	mw-1	855		X			01	3					X		X	X	X	
2	mw-2	844		X			02	3					X		X	X	X	
3	mw-3	830		X			03	3					X		X	X	X	
4	mw-4	905		X			04	3					X		X	X	X	
5																		
6																		
7																		
8																		
9																		
10																		

Sampler's Name: Ryan Hanstett
 Sampler's Company: Blaine Tech
 Shipment Date: _____
 Shipment Method: _____
 Shipment Tracking No.: _____

Relinquished By / Affiliation: _____
 Date: 4/1/03 Time: 1146
 Accepted By / Affiliation: _____
 Date: 4/8/03 Time: 1640

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

Seals in Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt 6.1 °F/C Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: <u>BP LWA</u>	DATE REC'D AT LAB: <u>04/02/03</u>	Drinking water for regulatory purposes: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
REC. BY (PRINT): <u>JS / KE</u>	TIME REC'D AT LAB: <u>1640</u>	Wastewater for regulatory purposes: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
WORKORDER: <u>HMD0319</u>	DATE LOGGED IN: <u>4-11-03</u>	

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / <u>Absent</u> Intact / Broken*			MW-1	(3) 10A	HCL	L	04/02/03	22-RO-20
2. Chain-of-Custody Present / <u>Absent</u> *			↓ -2	↓	↓	↓	↓	↓
3. Traffic Reports or Packing List: Present / <u>Absent</u>			↓ -3	↓	↓	↓	↓	↓
4. Airbill: Airbill / Sticker Present / <u>Absent</u>			↓ -4	↓	↓	↓	↓	↓
5. Airbill #:								
6. Sample Labels: Present / <u>Absent</u>								
7. Sample IDs: <u>Listed</u> / Not Listed on Chain-of-Custody								
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: <u>6.1</u> Is temp 4-1/2°C? <u>Yes</u> / No**								
(Acceptance range for samples requiring thermal pres.)								
**Exception (if any): Metals / DFF (Direct From Field) or Problem COC								

***IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.**

ATTACHMENT C

HISTORIC GROUNDWATER DATA

Table 1
Groundwater Elevation and Analytical Data
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MTBE)

ARCO Service Station 2162
15135 Hesperian Boulevard, San Leandro, California

Well Number	Date Gauged/ Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Xylenes (ppb)	MTBE 8021B* (ppb)	MTBE 8260 (ppb)	Dissolved Oxygen (ppm)	Purged/ Not Purged (P/NP)
MW-1	02/26/96	31.19	7.14	24.05	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
MW-1	05/23/96	31.19	7.70	23.49	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
MW-1	08/21/96	31.19	8.75	22.44	210	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
MW-1	11/20/96	31.19	8.62	22.57	91	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	
MW-1	04/01/97	31.19	8.70	22.49	<50	<0.5	<0.5	<0.5	<0.5	2.6	NA	NA	
MW-1	06/10/97	31.19	8.45	22.74	94	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NP
MW-1	09/17/97	31.19	9.20	21.99	<50	<0.5	<0.5	0.68	0.56	6.4	NA	NA	NP
MW-1	12/12/97	31.19	8.00	23.19	<200	<2	<2	<0.5	<0.5	10	NA	1.0	NP
MW-1	03/25/98	31.19	7.00	24.19	<200	<2	<2	<2	<2	180	NA	2.0	NP
MW-1	05/14/98	31.19	7.46	23.73	<50	<0.5	<0.5	3	<2	180	NA	2.0	
MW-1	07/31/98	31.19	8.10	23.09	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	1.17	P
MW-1	10/12/98	31.19	8.60	22.59	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	2.0	NP
MW-1	02/11/99	31.19	7.32	23.87	<50	<0.5	<0.5	<0.5	<0.5	9	NA	2.5	NP
MW-1	06/23/99	31.19	8.40	22.79	<50	<0.5	<0.5	<0.5	<0.5	25	NA	1.0	P
MW-1	08/23/99	31.19	8.85	22.34	55	<0.5	<0.5	<0.5	<0.5	<3	NA	1.36	NP
MW-1	10/27/99	31.19	8.50	22.69	<50	<0.5	0.6	<0.5	<0.5	5	NA	1.42	NP
MW-1	02/09/00	31.19	8.11	23.08	<50	<0.5	<0.5	<0.5	<1	90	NA	0.83	NP
										9	NA	0.77	NP
MW-2	02/26/96	30.38	6.41	23.97	770	<0.5	<0.5	45	28	NA	NA	NA	
MW-2	05/23/96	30.38	6.80	23.58	590	0.50	<0.5	35	18	NA	NA	NA	
MW-2	08/21/96	30.38	7.80	22.58	170	<0.5	<0.5	21	6.3	<2.5	NA	NA	
MW-2	11/20/96	30.38	7.73	22.65	88	<0.5	<0.5	7.9	1.1	<2.5	NA	NA	
MW-2	04/01/97	30.38	7.83	22.55	66	<0.5	<0.5	3.6	0.56	33	NA	NA	
MW-2	06/10/97	30.38	7.52	22.86	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	
MW-2	09/17/97	30.38	8.24	22.14	<50	<0.5	<0.5	<0.5	<0.5	<3.0	NA	0.6	NP
MW-2	12/12/97	30.38	7.10	23.28	<50	<0.5	<0.5	<0.5	<0.5	<3.0	NA	1.2	NP
MW-2	03/25/98	30.38	6.27	24.11	<50	<0.5	<0.5	0.7	0.5	55	NA	1.0	
MW-2	05/14/98	30.38	6.54	23.84	210	<0.5	<0.5	3.3	<0.5	42	NA	1.47	P
MW-2	07/31/98	30.38	7.14	23.24	230	<0.5	<0.5	3.9	<0.5	6	NA	1.0	P

Table 1
Groundwater Elevation and Analytical Data
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MTBE)

ARCO Service Station 2162
15135 Hesperian Boulevard, San Leandro, California

Well Number	Date Gauged/ Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Xylenes (ppb)	MTBE 8021B* (ppb)	MTBB 8260 (ppb)	Dissolved Oxygen (ppm)	Purged/ Not Purged (P/NP)
MW-2	10/12/98	30.38	7.65	22.73	110	<0.5	<0.5	1.5	<0.5	<3	NA	1.0	P
MW-2	02/11/99	30.38	6.55	23.83	660	<0.5	<0.5	6.7	0.7	3	NA	1.0	P
MW-2	06/23/99	30.38	7.48	22.90	270	<0.5	<0.5	2.2	0.8	<3	NA	NM	P
MW-2	08/23/99	30.38	7.89	22.49	200	<0.5	0.9	1.8	<0.5	<3	NA	1.17	P
MW-2	10/27/99	30.38	8.30	22.08	2,100	1.0	2.5	14	3	3	NA	0.75	NP
MW-2	02/09/00	30.38	8.02	22.36	<50	<0.5	<0.5	<0.5	<1	5	NA	0.69	NP
MW-3	02/26/96	30.30	6.72	23.58	120	5.0	<0.5	<0.5	<0.5	NA	NA	NA	
MW-3	05/23/96	30.30	7.18	23.12	140	12	<0.5	<0.5	<0.5	NA	NA	NA	
MW-3	08/21/96	30.30	8.17	22.13	<50	1.1	<0.5	<0.5	<0.5	130	NA	NA	
MW-3	11/20/96	30.30	8.03	22.27	55	<0.5	<0.5	<0.5	<0.5	59	NA	NA	
MW-3	04/01/97	30.30	8.09	22.21	<50	<0.5	<0.5	<0.5	<0.5	180	NA	NA	NP
MW-3	06/10/97	30.30	7.97	22.33	<50	<0.5	<0.5	<0.5	<0.5	1,900	NA	NA	NP
MW-3	09/17/97	30.30	8.54	21.76	<5,000	<50	<50	<50	<50	1,100	860	2.2	NP
MW-3	12/12/97	30.30	7.50	22.80	560	<5.0	<5.0	<5.0	5.0	370	NA	1.4	NP
MW-3	03/25/98	30.30	6.60	23.70	<500	<5	<5	<5	<5	470	NA	1.0	
MW-3	05/14/98	30.30	7.13	23.17	750	<5	<5	<5	<5	630	NA	1.97	P
MW-3	07/31/98	30.30	7.58	22.72	<500	<5	<5	<5	<5	590	NA	1.0	P
MW-3	10/12/98	30.30	8.00	22.30	<500	<5	<5	<5	<5	600	NA	2.0	P
MW-3	02/11/99	30.30	6.90	23.40	<500	<5	<5	<5	<5	280	NA	1.0	P
MW-3	06/23/99	30.30	7.82	22.48	220	<0.5	3.2	<0.5	<0.5	740	NA	1.98	P
MW-3	08/23/99	30.30	8.28	22.02	<50	<0.5	1.1	<0.5	<0.5	230	NA	1.20	P
MW-3	10/27/99	30.30	9.27	21.03	<50	<0.5	<0.5	<0.5	<1	<3	NA	0.81	NP
MW-3	02/09/00	30.30	7.45	22.85	<50	<0.5	<0.5	<0.5	<1	80	NA	0.81	P
MW-4	02/26/96	30.39	7.59	22.80	110	9.9	<0.5	<0.5	<0.5	NA	NA	NA	
MW-4	05/23/96	30.39	8.22	22.17	69	8.0	<0.5	<0.5	<0.5	NA	NA	NA	
MW-4	08/21/96	30.39	9.28	21.11	<50	6.8	<0.5	<0.5	<0.5	<2.5	NA	NA	
MW-4	11/20/96	30.39	9.12	21.27	95	10	0.59	<0.5	0.52	3.8	NA	NA	

Table 1
Groundwater Elevation and Analytical Data
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MTBE)

ARCO Service Station 2162
15135 Hesperian Boulevard, San Leandro, California

Well Number	Date Gauged/ Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE 8021B* (ppb)	MTBE 8260 (ppb)	Dissolved Oxygen (ppm)	Purged/ Not Purged (P/NP)
MW-4	04/01/97	30.39	8.45	21.94	73	5.7 *	<0.5	<0.5	<0.5	<2.5	NA	NA	
MW-4	06/10/97	30.39	9.00	21.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	
MW-4	09/17/97	30.39	9.76	20.63	<50	3.2	<0.5	<0.5	<0.5	<2.5	NA	NA	NP
MW-4	12/12/97	30.39	8.45	21.94	<50	2.9	<0.5	<0.5	<0.5	8.0	NA	0.2	NP
MW-4	03/25/98	30.39	7.52	22.87	58	2.8	<0.5	<0.5	<0.5	14	NA	1.0	NP
MW-4	05/14/98	30.39	8.03	22.36	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	3.0	
MW-4	07/31/98	30.39	8.67	21.72	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	3.24	NP
MW-4	10/12/98	30.39	9.15	21.24	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	2.0	NP
MW-4	02/11/99	30.39	7.80	22.59	61	2.5	<0.5	<0.5	<0.5	4	NA	1.5	NP
MW-4	06/23/99	30.39	9.00	21.39	<50	<0.5	<0.5	<0.5	<0.5	6	NA	1.0	P
MW-4	08/23/99	30.39	9.31	21.08	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	1.42	NP
MW-4	10/27/99	30.39	9.80	20.59	<50	<0.5	<0.5	<0.5	<0.5	6	NA	1.53	NP
MW-4	02/09/00	30.39	8.63	21.76	<50	<0.5	<0.5	<0.5	<1	6	NA	0.98	NP
									<1	7	NA	0.74	NP

TPPH = Total purgeable petroleum hydrocarbons by modified EPA method 8015
 BTEX = Benzene, toluene, ethylbenzene, total xylenes by EPA method 8021B. (EPA method 8020 prior to 10/27/99).
 MTBE = Methyl tert -Butyl Ether
 * = EPA method 8020 prior to 10/27/99
 MSL = Mean sea level
 TOC = Top of casing
 ppb = Parts per billion
 ppm = Parts per million
 NA = Not analyzed
 NM = Not measured
 < = Denotes concentration not present above laboratory detection limited stated to the right

ATTACHMENT D

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

04/24/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #2162, San Leandro,
Work Order Number:	MMD0319
Global ID:	T0600100084
Lab Report Number:	MMD0319042320031322

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctf	Run	Sub
MMD03190423200	MW-1 31322	MMD031901	W	CS	8260+OX	SW5030B	04/07/03	04/19/03	04/20/03	3D19016	1	
MMD03190423200	MW-2 31322	MMD031902	W	CS	8260+OX	SW5030B	04/07/03	04/19/03	04/20/03	3D19016	1	
MMD03190423200	MW-3 31322	MMD031903	W	CS	8260+OX	SW5030B	04/07/03	04/19/03	04/20/03	3D19016	1	
MMD03190423200	MW-4 31322	MMD031904	W	CS	8260+OX	SW5030B	04/07/03	04/19/03	04/20/03	3D19016	1	
		MMD032305	W	NC	8260+OX	SW5030B	//	04/19/03	04/19/03	3D19016	1	
		3D19016BS1	WQ	BS1	8260+OX	SW5030B	//	04/19/03	04/19/03	3D19016	1	
		3D19016BS2	WQ	BS2	8260+OX	SW5030B	//	04/19/03	04/19/03	3D19016	1	
		3D19016BLK1	WQ	LB1	8260+OX	SW5030B	//	04/19/03	04/19/03	3D19016	1	
		3D19016MS1	W	MS1	8260+OX	SW5030B	//	04/19/03	04/19/03	3D19016	1	
		3D19016MSD1	W	SD1	8260+OX	SW5030B	//	04/19/03	04/19/03	3D19016	1	

EDFSAMP: Error Summary Log

04/24/03

Error type	Logcode	Projname	NpdIwo	Sampid	Matrix
Error: LOGCODE field is blank or invalid	URSO	ARCO #2162, San Leandro,	MMD0319	MW-1	W
Error: LOGCODE field is blank or invalid	URSO	ARCO #2162, San Leandro,	MMD0319	MW-2	W
Error: LOGCODE field is blank or invalid	URSO	ARCO #2162, San Leandro,	MMD0319	MW-3	W
Error: LOGCODE field is blank or invalid	URSO	ARCO #2162, San Leandro,	MMD0319	MW-4	W

EDFTEST: Error Summary Log

04/24/03

Error type	Labsampid	Qcocode	Anmcode	Exmcode	Anadate	Run number
Error: ANMCODE field is blank or invalid	3D19016MS1	MS1	8260+OX	SW5030B	04/19/03	1
Error: ANMCODE field is blank or invalid	3D19016MSD1	SD1	8260+OX	SW5030B	04/19/03	1
Error: ANMCODE field is blank or invalid	MMD032305	NC	8260+OX	SW5030B	04/19/03	1
Error: ANMCODE field is blank or invalid	3D19016BLK1	LB1	8260+OX	SW5030B	04/19/03	1
Error: ANMCODE field is blank or invalid	3D19016BS1	BS1	8260+OX	SW5030B	04/19/03	1
Error: ANMCODE field is blank or invalid	3D19016BS2	BS2	8260+OX	SW5030B	04/19/03	1
Error: ANMCODE field is blank or invalid	MMD031901	CS	8260+OX	SW5030B	04/20/03	1
Error: ANMCODE field is blank or invalid	MMD031902	CS	8260+OX	SW5030B	04/20/03	1
Error: ANMCODE field is blank or invalid	MMD031903	CS	8260+OX	SW5030B	04/20/03	1
Error: ANMCODE field is blank or invalid	MMD031904	CS	8260+OX	SW5030B	04/20/03	1

EDFRES: Error Summary Log

04/24/03

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

EDFQC: Error Summary Log

04/24/03

Error type	Lablotctl	Anmcode	Parlabel	Qccode	Labqcid
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	BZ	MS1	3D19016MS1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	BZ	SD1	3D19016MSD1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	BZME	MS1	3D19016MS1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	BZME	SD1	3D19016MSD1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	DCA12D4	MS1	3D19016MS1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	DCA12D4	SD1	3D19016MSD1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	GROC6C10	MS1	3D19016MS1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	GROC6C10	SD1	3D19016MSD1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	MTBE	MS1	3D19016MS1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	MTBE	SD1	3D19016MSD1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	BZ	BS1	3D19016BS1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	BZ	BS2	3D19016BS2
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	BZ	LB1	3D19016BLK1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	BZME	BS1	3D19016BS1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	BZME	BS2	3D19016BS2
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	BZME	LB1	3D19016BLK1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	DCA12	LB1	3D19016BLK1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	DCA12D4	BS1	3D19016BS1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	DCA12D4	BS2	3D19016BS2
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	DCA12D4	LB1	3D19016BLK1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	DIPE	LB1	3D19016BLK1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	EBZ	LB1	3D19016BLK1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	EDB	LB1	3D19016BLK1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	ETBE	LB1	3D19016BLK1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	ETHANOL	LB1	3D19016BLK1

Error type	Lablotctl	Anmcode	Parlabel	Qccode	Labqcid
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	GROC6C10	BS2	3D19016BS2
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	GROC6C10	LB1	3D19016BLK1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	MTBE	BS1	3D19016BS1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	MTBE	BS2	3D19016BS2
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	MTBE	LB1	3D19016BLK1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	TAME	LB1	3D19016BLK1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	TBA	LB1	3D19016BLK1
Error: ANMCODE field is blank or invalid	3D19016	8260+OX	XYLENES	LB1	3D19016BLK1

EDFCL: Error Summary Log

04/24/03

Error type	Clredate	Anmcode	Exmcode	Parlabel	Clcode
Error: ANMCODE field is blank or invalid	08/29/02	8260+OX	SW5030B	BZ	LSA
Error: ANMCODE field is blank or invalid	08/29/02	8260+OX	SW5030B	BZ	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260+OX	SW5030B	BZ	MSA
Error: ANMCODE field is blank or invalid	08/30/02	8260+OX	SW5030B	BZ	MSP
Error: ANMCODE field is blank or invalid	08/29/02	8260+OX	SW5030B	BZME	LSA
Error: ANMCODE field is blank or invalid	08/29/02	8260+OX	SW5030B	BZME	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260+OX	SW5030B	BZME	MSA
Error: ANMCODE field is blank or invalid	08/30/02	8260+OX	SW5030B	BZME	MSP
Error: ANMCODE field is blank or invalid	08/29/02	8260+OX	SW5030B	DCA12D4	SLSA
Error: ANMCODE field is blank or invalid	08/29/02	8260+OX	SW5030B	GROC6C10	LSA
Error: ANMCODE field is blank or invalid	08/29/02	8260+OX	SW5030B	GROC6C10	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260+OX	SW5030B	GROC6C10	MSA
Error: ANMCODE field is blank or invalid	08/30/02	8260+OX	SW5030B	GROC6C10	MSP
Error: ANMCODE field is blank or invalid	08/29/02	8260+OX	SW5030B	MTBE	LSA
Error: ANMCODE field is blank or invalid	08/29/02	8260+OX	SW5030B	MTBE	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260+OX	SW5030B	MTBE	MSA
Error: ANMCODE field is blank or invalid	08/30/02	8260+OX	SW5030B	MTBE	MSP
Error: ANMCODE field is blank or invalid	08/29/02	8260+OX	SW5030B	BZ	LSA
Error: ANMCODE field is blank or invalid	08/29/02	8260+OX	SW5030B	BZ	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260+OX	SW5030B	BZ	MSA
Error: ANMCODE field is blank or invalid	08/30/02	8260+OX	SW5030B	BZ	MSP
Error: ANMCODE field is blank or invalid	08/29/02	8260+OX	SW5030B	BZME	LSA
Error: ANMCODE field is blank or invalid	08/29/02	8260+OX	SW5030B	BZME	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260+OX	SW5030B	BZME	MSA
Error: ANMCODE field is blank or invalid	08/30/02	8260+OX	SW5030B	BZME	MSP

Error type	Cirevdate	Anmcode	Exmcode	Parlabel	Cicode
Error: ANMCODE field is blank or invalid	08/29/02	8260+OX	SW5030B	DCA12D4	SLSA
Error: ANMCODE field is blank or invalid	08/29/02	8260+OX	SW5030B	GROC6C10	LSA
Error: ANMCODE field is blank or invalid	08/29/02	8260+OX	SW5030B	GROC6C10	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260+OX	SW5030B	GROC6C10	MSA
Error: ANMCODE field is blank or invalid	08/30/02	8260+OX	SW5030B	GROC6C10	MSP
Error: ANMCODE field is blank or invalid	08/29/02	8260+OX	SW5030B	MTBE	LSA
Error: ANMCODE field is blank or invalid	08/29/02	8260+OX	SW5030B	MTBE	LSP
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