RO-426

URS

January 20, 2005

Mr. Robert Shultz
Alameda County Health Care Services Agency,
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: Fourth Quarter 2004 Status Report
Former BP Service Station # 11109
4280 Foothill Boulevard
Oakland, California
URS Project # 38486803

Dear Mr. Shultz:

On behalf of Atlantic Richfield Company (RM), a BP affiliated company, URS Corporation (URS) is submitting the *Fourth Quarter 2004 Status Report* for the Former BP Service Station #11109, located at 4280 Foothill Boulevard, Oakland, California.

If you have any questions regarding this submission, please call me at (510) 874-1720.

Sincerely,

URS CORPORATION

Leonard P. Niles

Leonard P. Niles, R.G./C.H.G.
Senior Geologist

Enclosure: Fourth Quarter 2004 Status Report

cc: Mr. Kyle Christie, RM, (electronic copy uploaded to ENFOS)
Ms. Liz Sewell, ConocoPhillips, (electronic copy uploaded to FTP server)
Mr. Chris Jimmerson, Delta Environmental Consultants, 3164 Gold Camp Drive, Suite 200, Rancho Cordova, CA 95670-6021, (electronic copy uploaded to ENFOS)

URS Corporation
1333 Broadway, Suite 800
Oakland, CA 94612-1924
Tel: 510.893.3600
Fax: 510.874.3268

Date: January 20, 2005

Quarter: 4Q 04

BP GEM QUARTERLY STATUS REPORT

Former Facility No.:	11109	Address:	4280 Foothill Boulevard, Oakland, CA
RM Environmental Engineer:			Kyle Christie
Consulting Co./Contact Person:			URS Corporation / Leonard P. Niles
Consultant Project No.:			38486803
Primary Agency:			Alameda County Environmental Health

WORK PERFORMED THIS QUARTER (Fourth – 2004):

1. Prepared and submitted fourth quarter 2004 status report.
2. Performed monthly free product gauging and bailing of well MW-5.
3 Removed waste carbon drums from GWE treatment system compound.

WORK PROPOSED FOR NEXT QUARTER (First– 2005):

1. Prepare and submit first quarter 2004 groundwater monitoring report.
2. Perform monthly free product gauging and bailing of well MW-5.
3. Perform quarterly groundwater monitoring of sampling of wells MW-2 through MW-9.

Current Phase of Project:	GW monitoring/sampling
Frequency of Groundwater Sampling:	Wells MW-3, MW-6, MW-8 and MW-9 annual (March); Wells MW-2, MW-4, MW-5 and MW-7 semi-annually (September)
Frequency of Groundwater Monitoring:	Semi-annually (1st and 3rd Quarters)
Current Remediation Techniques:	Monthly Free Product (FP) bailing in MW-5
FP Removed This Period:	0.2 gallons
Cumulative FP Removed:	1.21 gallons (8/25/99 – present)

DISCUSSION:

Monthly gauging and bailing of free product in well MW-5 was performed this quarter. A total of 0.20 gallons of free product were bailed from well MW-5 during the fourth quarter 2004 (Table 1). The most recent analytical data can be referenced in the third quarter 2004 groundwater monitoring report. Waste oil, free product and groundwater drums, and granular activated carbon were removed from the inactive groundwater treatment compound and transported to disposal facilities.

ATTACHMENTS:

- Table 1– Free Product Removal
- Attachment A– Field Procedures and Field Data Sheets

Table 1
Free Product Removal

Former BP Service Station #11109
4280 Foothill Boulevard,
Oakland, CA

WELL ID	DATE OF MONITORING	Depth to Water (Feet)	PRODUCT THICKNESS (Feet)	PRODUCT REMOVED (Gallons)	PRODUCT REMOVED CUMULATIVE (Gallons)
MW-5	8/25/99	---	---	0.07	0.07
MW-5	3/9/00	---	---	0.40	0.47
MW-5	7/14/03	12.72	0.03	0.02	0.49
MW-5	8/25/03	14.04	0.00	0.00	0.49
MW-5	9/25/03	14.38	0.08	0.05	0.54
MW-5	10/3/03	12.15	0.06	0.04	0.58
MW-5	11/12/03	12.74	0.19	0.12	0.70
MW-5	12/9/03	11.44	0.03	0.04	0.74
MW-5	2/2/04	6.47	0.04	0.03	0.77
MW-5	2/9/04	10.61	0.04	0.03	0.80
MW-5	3/9/04	7.91	---	---	0.80
MW-5	4/13/04	9.68	0.28	0.20	0.82
MW-5	5/5/04	11.93	Sheen	---	0.82
MW-5	6/3/04	12.60	Sheen	---	0.82
MW-5	7/2/04	11.11	0.10	0.06	0.88
MW-5	8/31/04	12.80	0.05	0.13	1.01
MW-5	9/17/04	12.13	0.15	---	1.01
MW-5	**10/25/04**	**10.66**	**0.26**	**0.17**	**1.18**
MW-5	**11/8/04**	**9.98**	**0.02**	**0.02**	**1.20**
MW-5	**12/15/04**	**8.76**	**0.01**	**0.01**	**1.21**
			FP Removed this Quarter:		**0.20**

Source : The data within this table collected prior to July 2003 was provided to URS by Atlantic Richfield Company and their previous consultants. URS has not verified the accuracy of this information.

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 # 041025-BA4 Date 10/25/04 Client #1109

Site 4280 Foothill, Oakland

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-5	4	SPH	10.40	.26	640	10.66	—	TOC	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 041025-BA4	Station # 11109
Sampler: Brian Alam	Date: 10/25/04
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: —	Depth to Water: 10.66
Depth to Free Product: 10.40	Thickness of Free Product (feet): .26
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / 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.

Bail SPH

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

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
	SPH Detected — Bailed 640 ml Product				

Did well dewater? Yes No		Gallons actually evacuated:		
Sampling Time:		Sampling Date:		
Sample I.D.:		Laboratory: Pace Sequoia Other_____		
Analyzed for: GRO BTEX MTBE DRO		Other:		
D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL GAUGING DATA

Project # 041103-BA3 Date 11/8/04 Client #11109

Site 4280 Foothill, Oakland

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-5	4	SPH	9.96	.02	50	9.98	—	TOC	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 041108-BA3	Station # 11109
Sampler: Brian Alcom	Date: 11/8/04
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: —	Depth to Water: 9.98
Depth to Free Product: 9.96	Thickness of Free Product (feet): .02
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 / Positive Air Displacement / 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.

BAIL SPH

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

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
	Bailed 50mL SPH				

Did well dewater? Yes / No

Gallons actually evacuated:

Sampling Time:

Sampling Date:

Sample I.D.:

Laboratory: Pace Sequoia Other ___

Analyzed for: GRO BTEX MTBE DRO Other:

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

WELL GAUGING DATA

Project # 041215-DA2 Date 12/15/04 Client BP #11109

Site 4280 Foothill Blvd - Oakland, CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-5	4		8.75	0.01	25	8.76	—	TOC	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 041215-DA1	Station # BP 11109
Sampler: DA	Date: 12/15/04
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: —	Depth to Water: 8.76
Depth to Free Product: 8.75	Thickness of Free Product (feet): 0.01
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / Electric Submersible / Extraction Pump / Other: ___

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

Top of Screen: —

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

___ (1 Case Volume (Gals.)) x Bail SPH (Specified Volumes) = ___ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
			Bailed 25 mL SPH		

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

Sampling Time: Sampling Date:

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

Analyzed for: GRO BTEX MTBE DRO Other:

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