

Re:



Atlantic Richfield Company (a BP affiliated company)

6 Centerpointe Drive, Room 172 La Palma, CA 90623-1066 Phone: (714) 670-5303

Phone: (714) 670-5303 Fax: (714) 670-5195

December 14, 2005

Fourth Quarter 2005 Status Report

Former BP Service Station #11109

4280 Foothill Boulevard Oakland, California

Attantic Richfield Com; is 8P affiliated company)

6 Centerpointe Drive, Ro La Palma, CA 98623-196 Prone: (714) 670-6303 Hax. (714) 674-6195

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

Submitted by:

Kyle Christie

Environmental Business Manager

Submissed by:

Kyla Christie

- Environmental Business



December 15, 2005

Ms. Donna Drogoa Alameda County Health Care Services Agency, Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Re:

Fourth Quarter 2005 Status Report Former BP Service Station # 11109 4280 Foothill Boulevard Oakland, California

Dear Ms. Drogos:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *Fourth Quarter 2005 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) 874-1758.

Sincerely,

**URS CORPORATION** 

Appelle Onisle

Lynelle Onishi Project Manager

Enclosure:

Fourth Quarter 2005 Status Report

cc:

Mr. Kyle Christie, Atlantic Richfield Company (RM), (electronic copy uploaded to ENFOS)

Ms. Shelby Lathrop, ConocoPhillips, (electronic copy uploaded to FTP server)

Mr. Chris Jimmerson, Delta Environmental Consultants, (electronic copy uploaded to ENFOS)

 Date:
 December 15, 2005

 Quarter:
 4Q 05

#### BP GEM QUARTERLY STATUS REPORT

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

#### WORK PERFORMED THIS QUARTER

(Fourth - 2005):

- 1. Prepared and submitted Second Semi-Annual 2005 Groundwater Monitoring Report.
- 2. Performed monthly free product gauging and bailing of well MW-5.
- 3. Prepared and submitted this Fourth Quarter 2005 Status Report.

#### WORK PROPOSED FOR NEXT QUARTER (First- 2006):

- 1. Perform monthly free product gauging and bailing of well MW-5.
- 2. Perform third quarter 2005 groundwater monitoring event.
- 3. Prepare and submit the First Semi-Annual 2006 Groundwater Monitoring Report.

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:	0.270 gallons
Cumulative FP Removed:	1.506 gallons (8/25/99 – present)

#### DISCUSSION:

Monthly gauging and bailing of free product in well MW-5 was performed this quarter. A total of 0.270 gallons of free product were bailed from well MW-5 during the fourth quarter 2005 (Table 1). The most recent analytical data can be referenced in the Secon Semi-Annual 2005 Groundwater Monitoring Report.

#### 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

	<u> </u>	<u>.                                    </u>	ri Acino	ved this Qualter.	V-2/V
173 77 -2	12/12/2003	11.70		ved this Quarter:	
MW-5	12/12/2005	11.40	0.04	0.003	1.506
MW-5 MW-5	10/19/2005 11/18/2005	11.90 11.88	0.13 0.10	0.085 0.063	1.506
MW-5	9/6/2005	11.16	0.18	0.119	1.358 1.443
MW-5	8/24/2005	10.53		0.110	1.239
MW-5	7/2/2005	10.81			1.239
MW-5	6/23/2005	7.70			1.239
MW-5	5/12/2005	7.51	0.01	0.007	1.239
MW-5	4/29/2005	9.39		0.007	1.232
MW-5	3/7/2005	8.62	0.02	0.013	1.232
MW-5	2/1/2005	8.10	0.01	0.007	1.219
MW-5	1/13/2005	7.12			1.212
MW-5	12/15/2004	8.76	0.01	0.010	1.212
MW-5	11/8/2004	9.98	0.02	0.020	1.202
MW-5	10/25/2004	10.66	0.26	0.170	1.182
MW-5	9/17/2004	12.13	0.15		1.012
MW-5	8/31/2004	12.80	0.05	0.132	1.012
MW-5	7/2/2004	11.11	0.10	0.060	0.880
MW-5	6/3/2004	12.60	Sheen		0.820
MW-5	5/5/2004	11.93	Sheen		0.820
MW-5	4/13/2004	9.68	0.28	0.200	0.820
MW-5	3/9/2004	7.91		0.200	0.800
MW-5	2/9/2004	10.61	0.04	0.030	0.802
MW-5	2/2/2004	6.47	0.04	0.030	0.772
MW-5	12/9/2003	11.44	0.03	0.040	0.742
MW-5	11/12/2003	12.74	0.19	0.120	0.702
MW-5	10/3/2003	12.15	0.06	0.040	0.582
MW-5	9/25/2003	14.38	0.08	0.052	0.542
MW-5	8/25/2003	14.04	0.00	0.000	0.489
MW-5	7/14/2003	12.72	0.03	0.019	0.489
MW-5	3/9/2000		•	0.400	0.470
MW-5	8/25/1999			0.070	0.070
WELL ID	EVENT	(feet)	(feet)	(gallons)	(gallons)
	MONITORING	WATER	THICKNESS	REMOVED	PRODUCT REMOV
	DATE OF	DEPTH TO	PRODUCT	PRODUCT	CUMULATIVE

Source: The data within this table collected prior to July 2003 was provided to URS by RM 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<sup>TM</sup> 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

Proje	ct # <u>05/</u>	019-0W-4	Date	10-19-05	Client	Arco	11109	
Site_	4280	Foothill	Blvd	Oak land				

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)		Depth to well bottom (ft.)	Survey Point: TOB or TOC	
mu-5	4		11.77	,13	320	11. 10	-	TOC	
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Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

# ARCO / BP WELL MONITORING DATA SHEET

Purge Method:  Bailer Sampling Method:  Bailer Sampling Method:  Bailer Sampling Method:  Bailer Disposable Bailer Positive Air Displacement Extraction Port  Extraction Pump Other:  If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.  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.  Time Temp (°F) pH Conductivity (mS or µS) Gals. Removed Observations  Bailer Sampling Vine:  Sampling Time:  Sampling Date:  Laboratory: Pace Sequoia Other  Analyzed for: GRO BTEX MTRE DRO Other:     Post-purge:   Post-purge;   Post-purge;   Post-purge;											
Sampler: O w   Date: 10-19-05	BTS #: 0	5/019-	OW-4		Station # ///	09					
Well Diameter: 2 3 4 6 8  Total Well Depth: Depth to Water: 11.90  Depth to Free Product: 11.77  Referenced to: Or Grade D.O. Meter (if req'd): YSI HACH    Well Diameter	Sampler:	Dw			Date: 10-1	9-05					
Depth to Free Product:   .77											
Depth to Free Product: \$\begin{array}{c c c c c c c c c c c c c c c c c c c					Depth to Water: // 40						
Referenced to:  ON Grade  D.O. Meter (if req'd): YSI HACH  Well Diameter  Multiplier  1	Depth to	Free Produ	ict: 11.7	7							
Well Diameter Multiplier O.0.04 Multiplier O.0.05 Multiplier O.0.05 Multiplier O.0.06 Multiplier O.0.0											
Purge Method:  Bailer Sampling Method:  Bailer Sampling Method:  Bailer Sampling Method:  Sampling Method:  Bailer Sampling Method:  Disposable Bailer Baile	4		ter		Well Diameter	Multiplier					
Purge Method:    Bailer	•	_			6"	1.47					
Disposable Bailer Positive Air Displacement 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.  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.  Time Temp (°F) pH (mS or µS) Gals. Removed Observations  Bailed 330   SOTI	Puroe Meth	<u> </u>	Dailon	0.37							
Positive Air Displacement 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.    Top of Screen:	r digo mon			ler	Sampling Method:	1					
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.  Time Temp (°F) pH Conductivity (mS or µS) Gals. Removed Observations  Baile 330 al SPI  Did well dewater? Yes No Gallons actually evacuated:  Sampling Time:  Sampling Time:  Sample I.D.:  Laboratory: Pace Sequoia Other  Analyzed for: GRO BTEX MTBE DRO Other:  D.O. (if req'd):  Pre-purge:  Other:  If well is listed as a no-purge, confirm that water level is below the top of screen. Others:  Gals.  Calculated Volume  Calculated Volume  Observations  Observations  Observations  Observations  Laboratory: Pace Sequoia Other						- 1					
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.  X Acck SpH = Gals.  I Case Volume (Gals.)  Time Temp (°F) pH Conductivity (mS or μS) Gals. Removed Observations  Bail vo 330 A SpH  Otherwise the well must be purged.  Calculated Volume  Calculated Volume  Observations  Bail vo 330 A SpH  Did well dewater? Yes No Gallons actually evacuated:  Sampling Time:  Sampling Date:  Laboratory: Pace Sequoia Other  Analyzed for: GRO BTEX MTBE DRO Other:  D.O. (if req'd):  Pre-purge:  "B/L Post-purge:					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.    Calculated Volume   Gals.   Calculated Volume				p							
of screen. Otherwise, the well must be purged.    Time   Temp (°F)   pH   Conductivity (mS or μS)   Gals. Removed   Observations				· A-							
Time Temp (°F) pH Conductivity (mS or \( \mu S \) Gals. Removed Observations  Did well dewater? Yes No Gallons actually evacuated:  Sampling Time:  Sample I.D.:  Analyzed for: GRO BTEX MTRE DRO Other:  D.O. (if req'd):  Pre-purge:  Analyzed for: GRO BTEX MTRE DRO Other:  Pre-purge:  Gals.  Gals.  Gals.  Calculated Volume  Gals.  Gals.  Calculated Volume  Observations  Gallons actually evacuated:  Laboratory: Pace Sequoia Other  Pre-purge:  118/1 Post-purge	Top of Scre	en:	<del></del>	If well is listed as	no-purge, confirm	that water level is be	low the top				
Time Temp (°F) pH (mS or μS) Gals. Removed Observations  Bail 2 3 30 a SPI  Did well dewater? Yes No Gallons actually evacuated:  Sampling Time:  Sample I.D.:  Analyzed for: GRO BTEX MTBE DRO Other:  D.O. (if req'd):  Pre-purge: ""β/L Post-purge:				of screen. Otherw	ise, the well must be	purged.					
Time Temp (°F) pH (mS or μS) Gals. Removed Observations  Bail 2 3 30 a SPI  Did well dewater? Yes No Gallons actually evacuated:  Sampling Time:  Sample I.D.:  Analyzed for: GRO BTEX MTBE DRO Other:  D.O. (if req'd):  Pre-purge: ""β/L Post-purge:				x wheek Si	0# <u></u>	Cala					
Time Temp (°F) pH (mS or μS) Gals. Removed Observations    Removed   Observations		1 Case Vol	ume (Gals.)								
Baile 330 a SPH  Did well dewater? Yes No Gallons actually evacuated:  Sampling Time:  Sample I.D.:  Laboratory: Pace Sequoia Other  Analyzed for: GRO BTEX MTBE DRO Other:  D.O. (if req'd): Pre-purge: ""8/L Post-purge:				Conductivity							
Did well dewater? Yes No Gallons actually evacuated:  Sampling Time:  Sampling Date:  Laboratory: Pace Sequoia Other  Analyzed for: GRO BTEX MTBE DRO Other:  D.O. (if req'd):  Pre-purge:	Time	Temp (°F)	pН	(mS or µS)	Gals. Removed	Observations					
Did well dewater? Yes No Gallons actually evacuated:  Sampling Time:  Sampling Date:  Laboratory: Pace Sequoia Other  Analyzed for: GRO BTEX MTBE DRO Other:  D.O. (if req'd):  Pre-purge:			<b>2</b> . l.	210 1	-04						
Sampling Time:  Sampling Date:  Laboratory: Pace Sequoia Other  Analyzed for: GRO BTEX MTBE DRO Other:  D.O. (if req'd): Pre-purge: "g/L Post-purge:			Daile	700	5111						
Sampling Time:  Sampling Date:  Laboratory: Pace Sequoia Other  Analyzed for: GRO BTEX MTBE DRO Other:  D.O. (if req'd): Pre-purge: "g/L Post-purge:											
Sampling Time:  Sampling Date:  Laboratory: Pace Sequoia Other  Analyzed for: GRO BTEX MTBE DRO Other:  D.O. (if req'd): Pre-purge: "g/L Post-purge:	, 	] ]									
Sampling Time:  Sampling Date:  Laboratory: Pace Sequoia Other  Analyzed for: GRO BTEX MTBE DRO Other:  D.O. (if req'd): Pre-purge: "g/L Post-purge:							·				
Sampling Time:  Sampling Date:  Laboratory: Pace Sequoia Other  Analyzed for: GRO BTEX MTBE DRO Other:  D.O. (if req'd): Pre-purge: "g/L Post-purge:											
Sampling Time:  Sampling Date:  Laboratory: Pace Sequoia Other  Analyzed for: GRO BTEX MTBE DRO Other:  D.O. (if req'd): Pre-purge: "g/L Post-purge:											
Sampling Time:  Sampling Date:  Laboratory: Pace Sequoia Other  Analyzed for: GRO BTEX MTBE DRO Other:  D.O. (if req'd): Pre-purge: "g/L Post-purge:	Did well	dewater?	Yes \	No \	Gallons actuall	ly &vacuated:		<del></del>			
Sample I.D.:  Laboratory: Pace Sequoia Other  Analyzed for: GRO BTEX MTBE DRO Other:  D.O. (if req'd): Pre-purge: "g/L Post-purge:	Sampling	Time:			\		<del>-/-</del>				
Analyzed for: GRO BTEX MTBE DRO Other:  D.O. (if req'd): Pre-purge: ""g/L Post-purge:				\	\		+				
D.O. (if req'd):  Pre-purge:  Pre-purge:  Post-purge:		<del></del>		<del>\</del>	Laboratory:	Pace Sequoia	Other				
		<del></del>	O BTEX	MTBE DRO	1		\				
	D.O. (if re	eq'd):		Pre-purge:	mg/ <sub>L</sub>	Post-purge:		"KL			
O.R.P. (if req'd): Pre-purge: mV Post-purge:			<b></b>		(	L O [		mV			
Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-05	Blaine T	ech Servi	ides, Inc.	. 1680 Rogers	Ave., San Jo	se, CA 95112	(408) 573-05	 55			

## WELL GAUGING DATA

Project	# 35111	8-M3 Dat	e (1/18/05	Client _	Arcopy 1119	
			,	_		
Site	4280	Foothill	Rud, Cal	clard		

	Well Size	Sheen /	Depth to Immiscible		Volume of Immiscibles Removed		Depth to well	Survey Point: TOB	
Well ID	(in.)	Odor		Liquid (ft.)		-	bottom (ft.)	of TOO	
WW.1	9		11.78	.10	29Cm	11,88		UP	
					-				
				<u> </u>					
		ų				-			
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						<u> </u>	77. (2), 72. 72. 14. 14.		100-100
		-	Chabacage in 1						
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# ARCO / BP WELL MONITORING DATA SHEET

BTS#:	05111	8-M	23	Station# []	109	*.			
Sampler:	am			Date: () (A	18/05				
Well I.D.:	Mu	-5		Well Diameter:	2 3 4	6 8			
Total Well	Depth:	ــر		Depth to Water: //.85					
Depth to F	ree Produ	ct:	78	Thickness of Free Product (feet):					
Reference	to:	evc	Grade	D.O. Meter (if r		SI HACH			
Purge Method	Di	Bailer sposable Bail e Air Displac	0.04 0.16 0.37 er	ell Diameter   M	ultiplier. 65 47 <sup>2</sup> + 0.163 Bailer Disposable Bailer				
Top of Screen	Elec Er Other:	etric Submers	ible  p  If well is listed as a	Other: _ no-purge, confirm t se, the well must be	Extraction Port	low the top			
	i Case Vol	ume (Gals.)	X Specified Vo	=	Gals,				
Time	Temp (°F)	pH	(mS or $\mu$ S)	Gals. Removed	Observations  O 14				
Did well o	lewater?	Yes	No	Gallons actuall	y evacuated:				
Sampling	Time:			Sampling Date	•				
Sample I.	D.:			Laboratory:	Pace Sequoia	Other			
Analyzed	for:	IRO BTBX M	TBE DRO Oxy's 1,2-E	<b>1</b>	Other:				
D.O. (if re	eq'd):		Рге-ригде	· mg/L	Post-purge:	mg <sub>/1</sub>			
O.R.P. (if			Pre-purge		Post-purge:	mV			

# WELL GAUGING DATA

Proje	ct#_ <i>05/6</i>	12-0W-3	Date _ /2 - 12 - 15	Client Arco	11109	
				<del>, ,</del>		
Site	4280	Foothill	Dak land	<b>.</b> . · .		

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		11.36	.04	98	11.40	-	TOC	
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# ARCO / BP WELL MONITORING DATA SHEET

BTS#: o	51212-6	W-3			Station # 11109					
Sampler:					Date: /2- /3					
Well I.D.:	MW-5		-		Well Diameter		3 4	б	8	
Total Wel					Depth to Water	r;				
Depth to I	Free Produ	ct:			Thickness of Free Product (feet):					
Reference		<i>y</i> (°C)	C	rade,	D.O. Meter (if			YSī	HACH	
Purge Metho	Positiv Elec E	Bailer sposable Bail e Air Displac ctric Submers xtraction Pum	ement ible		/e]] Diameter     4" 6"	Multiplier 0.63 1.47 1.52 * 0.163 Disposa Extrac	ailer de Bailer tion Port			
Top of Scree			of scree	is listed as a on. Otherwi Check SV Specified Vo		that water purged.	Gals,	elow t	the top	
Time	Temp (°F)	рН		ductivity 3 or µS)	Gals. Removed	Obse	rvations			
		Baile	12	98 ml	SPH					
						\				
Did well	dewater?	Yes	No	1	Gallons actual	ly evac	ualed:		۷۰,	
Sampling	Time:				Sampling Date		1			
Sample I.	D.:\				Laboratory:	Pace	Sequoia	70	ther	
Analyzed	for:	IRO BTEX M	TBE DRO	Oxy's 1,2-D	Ca EDS Sthanel	Other:		1		
D.O. (if r	eq'd):			Pre-purge	mg	7	ost-purge:		mg/L	
O.R.P. (i				re-purge	lm l	/ Þ	ost-purge:		mV	
bigild	acu 2017	nces, inc	:. 168	O Roger	s Ave., San J	nea C			OL CHA ALES	