

URS

October 15, 2003

NO 426

Mr. Amir Gholami
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502

Alameda County
DEC 05 2003
Environmental Health

**Re: Third Quarter 2003 Status Report
Former BP Service Station # 11109
4280 Foothill Boulevard
Oakland, California
URS Project # 38486456**

Dear Mr. Gholami:

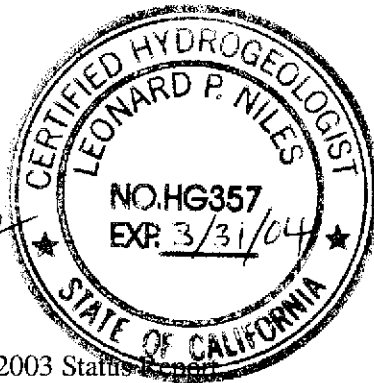
On behalf of BP (an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Third Quarter 2003 Status Report* for the Former BP Service Station #11109, located at 4280 Foothill Boulevard, Oakland, California.

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: Third Quarter 2003 Status Report

cc: Mr. Paul Supple, ARCO, (electronic copy uploaded to ENFOS)
Ms. Liz Sewell, ConocoPhillips, 76 Broadway, Sacramento, CA 95818

URS Corporation
500 12th Street, Suite 200
Oakland, CA 94607-4014
Tel: 510.893.3600
Fax: 510.874.3268

Date: October 15, 2003
Quarter: 3Q 03

BP GEM QUARTERLY STATUS REPORT

Former Facility No.: 11109 Address: 4280 Foothill Boulevard, Oakland, CA
BP Environmental Engineer: Paul Supple
Consulting Co./Contact Person: URS Corporation / Leonard P. Niles
Consultant Project No.: 38486456
Primary Agency: Alameda County Department of Environmental Health

WORK PERFORMED THIS QUARTER (Third – 2003):

1. Prepared and submitted second quarter 2003 status report.
2. Performed monthly free product gauging and bailing of well MW-5.

WORK PROPOSED FOR NEXT QUARTER (Fourth– 2003):

1. Prepare and submit third quarter 2003 status report.
2. Perform monthly free product gauging and bailing of well MW-5.
3. Perform quarterly groundwater sampling of onsite wells MW-2, MW-3, MW-4, MW-6, MW-7, and (if no free product is present or is bailed down) MW-5.

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Wells MW-3 and MW-5 annual (March)
Frequency of Groundwater Monitoring: Annually
Current Remediation Techniques: Monthly Free Product (FP) bailing in MW-5
FP Removed This Period: 0.07 gallons
Cumulative FP Removed: 0.54 gallons (8/25/99 – present)

DISCUSSION:

Monthly gauging and bailing of free product in well MW-5 began this quarter. A total of 0.07 gallons of free product were bailed from well MW-5 during the third quarter 2003 (Table 1). The most recent analytical data can be referenced in the first quarter 2003 groundwater monitoring report. Only well MW-3 has consistently been sampled annually. Due to the presence of free product, well MW-5 has not been sampled since March 2002. The other onsite wells have not been sampled since December 1996. Because of the lack of current data regarding the distribution of dissolved-phase hydrocarbons at the site, URS recommends conducting a one-time groundwater sampling event of all onsite wells during the Fourth Quarter 2003. URS also recommends increasing the groundwater sampling frequency of wells MW-3 and MW-5 to quarterly.

ATTACHMENTS:

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

TABLE 1

Free Product Removal
Former BP Service Station No. 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	8/25/1999	---	---	0.07	0.07
MW-5	3/9/2000	—	---	0.40	0.47
MW-5	7/14/2003	12.72	0.03	0.02	0.49
MW-5	8/25/2003	14.04	0.00	0.00	0.49
MW-5	9/25/2003	14.38	0.08	0.05	0.54
FP Removed this Quarter:					1.52

Source : The data within this table collected prior to July 2003 was provided to URS by Group Environmental Management 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 # 230714-554 Date 7/14/03 Client BP 11109

Site 4280 FOOTHILL BLVD. 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	ODOR SHEEN	12.75	0.03	73.8	12.72	—————	TOC	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030714-SS4</u>	Station # <u>1109</u>
Sampler: <u>SOOCH</u>	Date: <u>7/19/03</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth: <u> </u>	Depth to Water: <u>12.72</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVC</u> 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: DED. 3" PVC BAILER

Sampling Method: Bailer
Disposable Bailer
 Extraction Port
 Other:

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

1 Case Volume (Gals.)	X	Specified Volumes	=	Calculated Volume	Gals.
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Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
					<u>DID NOT HAVE INTERPHASE TROBE AVAILABLE. DROPPED DISP. BAILER</u>
					<u>IN WELL TO CHK FOR SPH. ≈ .03 SPH IN BAILER.</u>
					<u>USED 3" DED. BAILER AND BAILED 5 gal. WELL NO MORE PRODUCT VISIBLE.</u>

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: Sampling Date:

Sample I.D.: Laboratory: Pace Sequoia Other

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

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

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 BLAINE 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:

11109		
Station #		
4280 Foothill Blvd. Oakland		
Station Address		
Total Gallons Collected From Groundwater Monitoring Wells:		
45		
added equip.	any other	
rinse water 10	adjustments	
TOTAL GALS.	loaded onto	
RECOVERED 55	BTS vehicle # 11	
BTS event #	time	date
030311-ACZ	1430	3/11/03
signature _____		

REC'D AT	time	date
		/ /
unloaded by		
signature _____		

WELL GAUGING DATA

Project # 030425-SW-1 Date 9-25-03 Client 76 # 1107

Site 4.280 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		14.30	.03	197	14.38	—	TOC	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030925-DW-1</u>	Station # <u>11109</u>
Sampler: <u>Dave Walker</u>	Date: <u>9-25-03</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>4.80</u>	Depth to Water: <u>14.38</u>
Depth to Free Product: <u>14.30</u>	Thickness of Free Product (feet): <u>.08</u>
Referenced to: <u>(PVC)</u> 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.

1 Case Volume (Gals.)	x <u>Bail SPA (if present)</u>	Gals. Calculated Volume
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Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
					<u>Failed 197 m SPA.</u>

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: _____ Sampling Date: _____

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

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

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

WELLHEAD INSPECTION CHECKLIST

Client 76 #11109 Date 9-25-03
 Site Address 4280 Foothill Oakland
 Job Number 030925-DIV-1 Technician Dave Walter

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
mw-5	X							

NOTES: _____

WELL GAUGING DATA

Project # 030825-DW-4 Date 8-25-03 Client 76 # 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	no	5811	detected		14.04	—	TOC	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030825-DW-4</u>	Station # <u>11109</u>
Sampler: <u>Dave Walter</u>	Date: <u>8-25-03</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 <u> </u>
Total Well Depth: <u> </u>	Depth to Water: <u>14.04</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVC</u> 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 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> </u> 1 Case Volume (Gals.)	x	<u>check for SPH</u> Specified Volumes	=	<u> </u> Gals. Calculated Volume
--------------------------------------	---	---	---	--

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

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: Sampling Date:

Sample I.D.: Laboratory: Pace Sequoia Other

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

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

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 BLAINE 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:

11109

Station # _____

4280 Foothill Blvd. Oakland
Station Address _____

Total Gallons Collected From Groundwater Monitoring Wells:
45

added equip. _____ any other
rinse water 10 adjustments _____

TOTAL GALS. _____
RECOVERED 55

BTS event # _____ time _____ date _____
030311-ACZ 1430 3/11/03

signature _____

REC'D AT _____ time _____ date _____
_____ / _____ / _____

unloaded by _____
signature _____