



October 31, 2005

Ms. Donna Drogos
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Alameda County
NOV 02 2005
Environmental Health

**Re: Third Quarter 2005 Status Report
Former BP Service Station #11124
3315 High Street
Oakland, California**

Dear Ms. Drogos,

On behalf of the Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *Third Quarter 2005 Status Report* for the Former BP Service Station #11124, located at 3315 High Street, Oakland, California.

If you have any questions regarding this submission, please call me at (510) 874-1758.

Sincerely,

URS CORPORATION


Lynelle Onishi
Project Manager

Enclosure: Third 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 URS ftp server

Date: October 31, 2005
Quarter: 3Q 05

THIRD QUARTER 2005 STATUS REPORT

Former Facility No.: 11124 Address: 3315 High Street, Oakland, CA
RM Environmental Business Manager: Kyle Christie
Consulting Co./Contact Person: URS Corporation / Lynelle Onishi
Primary Agency: Alameda County Environmental Health (ACEH)
ACEH ID No.: 1075

WORK PERFORMED THIS QUARTER (Third – 2005):

1. Prepared and submitted the Second Quarter 2005 Status Report.
2. No environmental work was performed during the third quarter 2005.

WORK PROPOSED FOR NEXT QUARTER (Fourth – 2005):

1. Prepare and submit this Third Quarter 2005 Status Report.
2. No environmental work will be performed during the fourth quarter 2005.

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Wells MW-1, MW-2 and MW-4 One-Time
Frequency of Groundwater Monitoring: One-Time
Is Free Product (FP) Present On-Site: No
Current Remediation Techniques: NA
Approximate Depth to Groundwater: NA
Groundwater Gradient (direction): NA
Groundwater Gradient (magnitude): NA

DISCUSSION:

No environmental activities took place at this site during this quarter. The most recent quarterly data can be referenced in the Fourth Quarter 2004 Groundwater Monitoring Report for the Site.



Atlantic Richfield Company
(a BP affiliated company)

6 Centerpointe Drive, Room 161
La Palma, CA 90623-1066
Phone: (714) 670-5303
Fax: (714) 670-5195

February 18, 2005

**Re: Groundwater Monitoring Report
Former BP Service Station #11124
3315 High Street
Oakland, California
URS Project #38487251
Agency Case No.: RO0000239**

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

Submitted by:

Kyle Christie
Environmental Business Manager



February 18, 2005

Mr. Robert Schultz
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

**Re: Groundwater Monitoring Report
Former BP Service Station # 11124
3315 High Street
Oakland, California
URS Project #38487254
Agency Case No.: RO0000239**

Dear Mr. Schultz:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *First Quarter 2005 Groundwater Monitoring Report* for the Former BP Service Station #11124, located at 1355 High Street, Oakland, California.

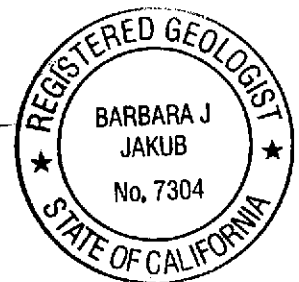
If you have any questions regarding this submission, please call me at (510) 874-1758.

Sincerely,

URS CORPORATION

Lynelle Onishi
Project Manager

Barbara J. Jakub, R.G.
Senior Geologist



Enclosure: First Quarter 2005 Groundwater Monitoring Report

cc: Mr. Kyle Christie, Atlantic Richfield Company (RM), copy uploaded to ENFOS
Ms. Liz Sewell, ConocoPhillips, copy uploaded to URS ftp server



20-239

February 15, 2005

Mr. Robert Schultz
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-8577

Alameda County
FEB 23 2005
Environmental Health

RE: Electronic Report Submission

Dear Mr. Schultz:

The purpose of this letter is to inform you that on behalf of the Atlantic Richfield Company (RM), a BP affiliated company, URS Corporation (URS) will issue all future quarterly monitoring reports (QMR) electronically to the State Water Resources Control Board's GEOTRACKER website (<http://www.geotracker.swrcb.ca.gov/>). You may access your report directly from this website. If you would prefer to have a PDF copy e-mailed to you or if you would like to continue receiving a paper copy, please contact Rick Murray at (510) 874-1755.

If you have any questions regarding this submission, please call me at (510) 874-3125.

Sincerely,

URS CORPORATION

Rachel Lindvall
QMR Coordinator

R E P O R T

GROUNDWATER MONITORING REPORT

**FORMER BP SERVICE STATION #11124
3315 HIGH STREET
OAKLAND, CALIFORNIA**

Prepared for
RM

February 18, 2005

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

38487254

Date: February 18, 2005
Quarter: 1Q 05

RM GROUNDWATER MONITORING REPORT

Former Facility No.: 11124 Address: 3315 High Street, Oakland, CA
RM Environmental Business Manager: Kyle Christie
Consulting Co./Contact Person: URS Corporation / Lynelle Onishi
Consultant Project No.: 38487254
Primary Agency: Alameda County Environmental Health (ACEH)
Agency Case No.: RO0000239

WORK PERFORMED THIS QUARTER (First - 2005):

1. Performed first quarter 2005 groundwater monitoring event on January 13, 2005.
2. Prepared and submitted this first quarter 2005 groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (Second - 2005):

1. Prepare and submit second quarter 2005 status report.
2. Proceed with the work proposed within the *Work Plan for Additional Site Investigation* dated December 7, 2004, pending approval from ACEH.

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: One-Time: Wells MW-1, MW-2 and MW-4
Frequency of Groundwater Monitoring: One-Time
Is Free Product (FP) Present On-Site: No
Current Remediation Techniques: Natural Attenuation
Approximate Depth to Groundwater: 6.43 (MW-2) to 9.00 (MW-1) feet
Groundwater Gradient (direction): NA
Groundwater Gradient (magnitude): NA

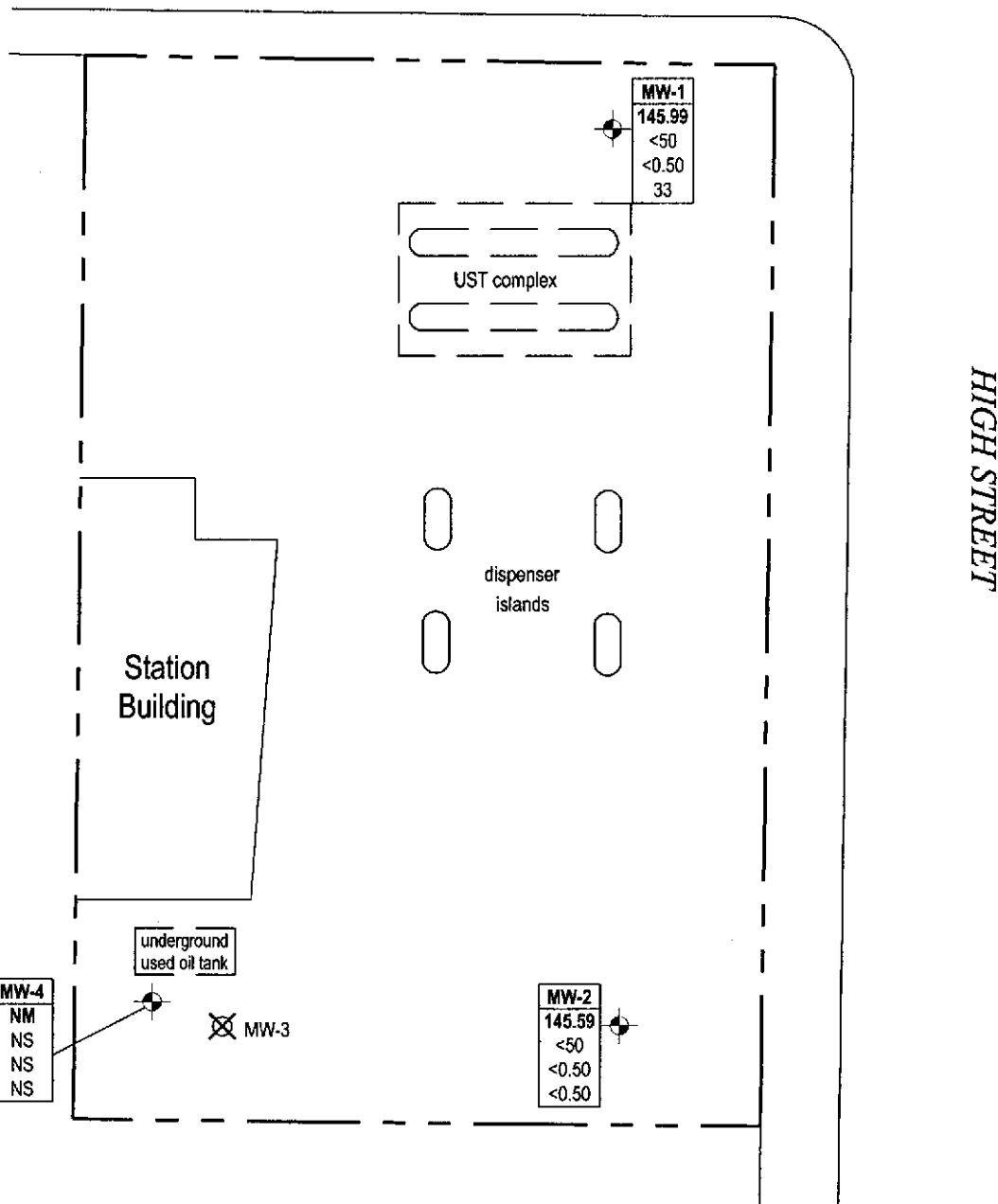
DISCUSSION:

Methyl tert-butyl ether (MTBE) was detected at or above the laboratory reporting limit in one of the two wells sampled at a concentration of 33 micrograms per liter ($\mu\text{g/L}$) (MW-1). Gasoline range organics (GRO), benzene, toluene, ethylbenzene, xylenes (BTEX), and other fuel additives were not detected at or above their respective laboratory reporting limits in either of the two wells sampled. Well MW-4 was not sampled because it was covered by gravel from the underground storage tank (UST) removal activities. Insufficient data points were available to calculate the groundwater gradient direction and magnitude this monitoring event because well MW-4 was inaccessible.

ATTACHMENTS:

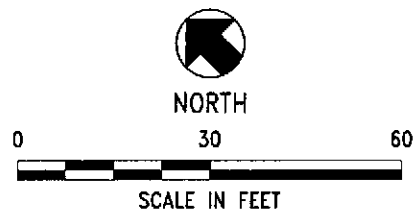
- Figure 1 – Groundwater Analytical Summary Map – January 13, 2005
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Additives Analytical Data
- Attachment A – Field Procedures and Field Data Sheets
- Attachment B – Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records
- Attachment C – Error Check Reports and EDF/Geowell Submittal Confirmations

PORTER STREET



EXPLANATION	
	Groundwater monitoring well
	Abandoned monitoring well
Well	Well Designation
ELEV	Groundwater elevation (#MSL)
GRO	GRO, Benzene & MTBE concentrations ($\mu\text{g/L}$)
Benzene	
MTBE	
NS	Not sampled
<	Not detected at or above laboratory reporting limits

NOTE: SITE MAP ADAPTED FROM ALISTO ENGINEERING FIGURES.
SITE DIMENSIONS AND FIGURES FACILITY LOCATIONS NOT VERIFIED.



Feb 14, 2005 - 3:11pm X:\x_envi_waste\BP_GEN\Sites\1124\Reports\Monitoring\Qtr_1_2005\1124_1Q05-CW.dwg



Project No. 38487254
Former BP Service Station #11124
3315 High Street
Oakland, California

**GROUNDWATER ELEVATION CONTOUR
AND ANALYTICAL SUMMARY MAP**
First Quarter 2005 (January 13, 2005)

FIGURE
1

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11124

3315 High St., Oakland, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
MW-1	10/19/2004	P	154.99	10.50	--	144.49	<50	<0.50	<0.50	<0.50	<0.50	14	0.96	SEQM	6.9	
	01/13/2005	P	154.99	9.00	--	145.99	<50	<0.50	<0.50	<0.50	<0.50	33	2.5	SEQM	6.4	
MW-2	10/19/2004	--	152.02	9.45	--	142.57	--	--	--	--	--	--	--	--	--	b
	01/13/2005	P	152.02	6.43	--	145.59	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.47	SEQM	6.4	
MW-4	10/19/2004	P	152.77	9.55	--	143.22	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.82	SEQM	7.0	
	01/13/2005	--	152.77	--	--	--	--	--	--	--	--	--	--	--	--	a

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11124
3315 High St., Oakland, CA

ABBREVIATIONS AND SYMBOLS:

- P Well purged
- NP Well not purged
- TOC Top of casing
- DTW Depth to water
- GWE Groundwater elevation
- TPH-G Total petroleum hydrocarbons as gasoline
- GRO Gasoline range organics, C4 to C12 range
- B Benzene
- T Toluene
- E Ethylbenzene
- X Total xylenes
- MTBE Methyl tert butyl ether
- DO Dissolved oxygen
- bgs Below ground surfac
- ug/L Micrograms per liter
- Not analyzed/measured/applicable
- < Not detected at or above laboratory reporting limit

FOOTNOTES:

- a = Well not accessible
- b = Well is dry

NOTES:

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. Total petroleum hydrocarbons as gasoline (TPHg) has been changed to gasoline range organics (GRO). The resulting data may be impacted by the potential of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported.

Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12

Values for dissolved oxygen (DO) and pH were obtained through field measurements.

Source : The data within this table collected prior to August 2002 was provided to URS by RM and their previous consultants. URS has not verified the accuracy of this information.

Table 2

Fuel Additives Analytical Data

Former BP Station #11124

3315 High St., Oakland, CA

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)	Footnotes/ Comments
MW-1	10/19/2004	<100	<20	14	<0.50	<0.50	<0.50	<0.50	<0.50	
	01/13/2005	<100	<20	33	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-2	01/13/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-4	10/19/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2

Fuel Additives Analytical Data

Former BP Station #11124
3315 High St., Oakland, CA

ABBREVIATIONS AND SYMBOLS:

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

ug/L = micrograms per liter

< = Not detected at or above laboratory reporting limit

NOTE: All fuel oxygenate compounds are analyzed using EPA Method 8260B.

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 # 050113-WC2 Date 1/13/05 Client BP@#11124

Site 3315 High St., 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-1	2					9.00	31.45	↓
MW-2	2					6.43	9.43	↓
MW-4	Well covered by gravel from UST excavation.							↓
*large gravel pile blocked by large H ₂ O trailers, it will be awhile before they can be moved, (Excavators said about a month).								
CONTACT NAME - ONSITE CONSTRUCTION SUPERVISOR								
Chester Bennett @ Conoco Phillips								
(916) 835-8539								

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050113-WC2	Station # 11124
Sampler: WC	Date: 1/13/05
Well I.D.: MW-1	Well Diameter: <input checked="" type="radio"/> 2 3 4 6 8
Total Well Depth: 31.45	Depth to Water: 9.00
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC Grade	D.O. Meter (if req'd): <input checked="" type="radio"/> 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 <u>Air Displacement</u> Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer Disposable <u>Bailer</u> 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.

3.6	x	3	=	10.8	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1331	61.9	6.3	338	4	Brown/silty
1335	64.7	6.3	342	8	" / "
1339	65.8	6.4	349	11	cloudy

Did well dewater? Yes <input checked="" type="radio"/> No	Gallons actually evacuated: 11	
Sampling Time: 1345	Sampling Date: 1/13/05	
Sample I.D.: MW-1	Laboratory: Pace <u>Sequidia</u> Other _____	
Analyzed for: <input checked="" type="radio"/> GRO <input checked="" type="radio"/> BTEX MTBE DRO	Other: see COC	
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: <input checked="" type="radio"/> 2.50 mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050113-WC2	Station # 1124
Sampler: WC	Date: 1/13/05
Well I.D.: MW-2	Well Diameter: ② 3 4 6 8
Total Well Depth: 9.43	Depth to Water: 6.43
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> VC Grade	D.O. Meter (if req'd): <input checked="" type="checkbox"/> 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: <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> 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.

0.48	x	3	=	1.44	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1358	57.4	6.3	596	1	grab sample parameter/clear
1407	59.4	6.3	588	1	clear
1410	59.5	6.4	594	1.5	clear

1358 (.5 gal removed) → pre-purge sample taken in case well dewater or is insufficient to sample

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 1.5	
Sampling Time: 1415	Sampling Date: 1/13/05	
Sample I.D.: MW-2	Laboratory: Pace Sequoia Other _____	
Analyzed for: <input checked="" type="checkbox"/> GRO <input checked="" type="checkbox"/> BTEX MTBE DRO	Other: see coc	
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: 1.47 mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050113-WC2	Station # 1124
Sampler: WC	Date: 1/13/05
Well I.D.: MW-4	Well Diameter: 2 3 4 6 8 <u> </u>
Total Well Depth: <u> </u>	Depth to Water: <u> </u>
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	$mdia^2 * 0.163$

Purge Method: <u> </u> Bailer Disposable Bailer Positive Air Displacement Electric Submersible Extraction Pump Other: <u> </u>	Sampling Method: <u> </u> Bailer Disposable Bailer Extraction Port Other: <u> </u>
--	--

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

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

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
Well inaccessible, refer to note on gauging sheet!					

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

11124

Station #

3315 High St, Oakland

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

12 gal

added equip. rinse water

3 gal

any other adjustments

—

TOTAL GALS. RECOVERED

15 gal

loaded onto BTS vehicle #

48

BTS event #

time

date

050113-WC2

1445

1/13/05

signature

Will Crow

REC'D AT

time

date

Blaine Tech

1630

1/13/05

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 RM have been reviewed and verified by that laboratory.



26 January, 2005

Leonard Niles
URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland, CA 94612

RE: BP Heritage #11124, Oakland ,CA
Work Order: MOA0385

Enclosed are the results of analyses for samples received by the laboratory on 01/13/05 17:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project:BP Heritage #11124, Oakland ,CA Project Number:N/P Project Manager:Leonard Niles	MOA0385 Reported: 01/26/05 16:17
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MOA0385-01	Water	01/13/05 13:45	01/13/05 17:20
MW-2	MOA0385-02	Water	01/13/05 14:15	01/13/05 17:20
TB-11124-011305	MOA0385-03	Water	01/13/05 00:00	01/13/05 17:20

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies.

These samples were received with intact custody seals.

URS Corporation [Arco]
 1333 Broadway, Suite 800
 Oakland CA, 94612

 Project:BP Heritage #11124, Oakland ,CA
 Project Number:N/P
 Project Manager:Leonard Niles

 MOA0385
 Reported:
 01/26/05 16:17

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MOA0385-01) Water Sampled: 01/13/05 13:45 Received: 01/13/05 17:20									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5A18005	01/18/05	01/18/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	33	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>100 %</i>	<i>60-135</i>						
MW-2 (MOA0385-02) Water Sampled: 01/13/05 14:15 Received: 01/13/05 17:20									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5A18005	01/18/05	01/18/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>102 %</i>	<i>60-135</i>						

URS Corporation [Arco]
 1333 Broadway, Suite 800
 Oakland CA, 94612

 Project:BP Heritage #11124, Oakland ,CA
 Project Number:N/P
 Project Manager:Leonard Niles

 MOA0385
 Reported:
 01/26/05 16:17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5A18005 - EPA 5030B P/T / EPA 8260B
Blank (5A18005-BLK1)

Prepared & Analyzed: 01/18/05

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.78		"	5.00		96	78-129			

Laboratory Control Sample (5A18005-BS1)

Prepared & Analyzed: 01/18/05

tert-Amyl methyl ether	9.88	0.50	ug/l	10.0		99	56-140			
Benzene	9.68	0.50	"	10.0		97	78-124			
tert-Butyl alcohol	48.5	20	"	50.0		97	0-206			
Di-isopropyl ether	9.04	0.50	"	10.0		90	76-130			
1,2-Dibromoethane (EDB)	10.6	0.50	"	10.0		106	77-132			
1,2-Dichloroethane	10.0	0.50	"	10.0		100	77-136			
Ethanol	153	100	"	200		76	31-186			
Ethyl tert-butyl ether	9.11	0.50	"	10.0		91	61-141			
Ethylbenzene	9.94	0.50	"	10.0		99	84-117			
Methyl tert-butyl ether	9.96	0.50	"	10.0		100	63-137			
Toluene	10.4	0.50	"	10.0		104	78-129			
Xylenes (total)	29.1	0.50	"	30.0		97	83-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.46		"	5.00		89	78-129			

URS Corporation [Arco]
 1333 Broadway, Suite 800
 Oakland CA, 94612

 Project:BP Heritage #11124, Oakland ,CA
 Project Number:N/P
 Project Manager:Leonard Niles

 MOA0385
 Reported:
 01/26/05 16:17

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 5A18005 - EPA 5030B P/T / EPA 8260B
Laboratory Control Sample (5A18005-BS2)

Prepared & Analyzed: 01/18/05

Benzene	5.18	0.50	ug/l	6.08		85	78-124			
Ethylbenzene	7.89	0.50	"	7.84		101	84-117			
Methyl tert-butyl ether	8.47	0.50	"	9.60		88	63-137			
Toluene	35.6	0.50	"	32.9		108	78-129			
Xylenes (total)	39.9	0.50	"	38.5		104	83-125			
Gasoline Range Organics (C4-C12)	394	50	"	440		90	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.57</i>		"	<i>5.00</i>		<i>91</i>	<i>78-129</i>			

Laboratory Control Sample Dup (5A18005-BSD1)

Prepared & Analyzed: 01/18/05

tert-Amyl methyl ether	10.1	0.50	ug/l	10.0		101	56-140	2	12	
Benzene	9.12	0.50	"	10.0		91	78-124	6	12	
tert-Butyl alcohol	49.7	20	"	50.0		99	0-206	2	22	
Di-isopropyl ether	8.69	0.50	"	10.0		87	76-130	4	9	
1,2-Dibromoethane (EDB)	11.0	0.50	"	10.0		110	77-132	4	9	
1,2-Dichloroethane	10.5	0.50	"	10.0		105	77-136	5	13	
Ethanol	141	100	"	200		70	31-186	8	37	
Ethyl tert-butyl ether	9.33	0.50	"	10.0		93	61-141	2	9	
Ethylbenzene	9.28	0.50	"	10.0		93	84-117	7	10	
Methyl tert-butyl ether	10.2	0.50	"	10.0		102	63-137	2	13	
Toluene	9.97	0.50	"	10.0		100	78-129	4	10	
Xylenes (total)	27.6	0.50	"	30.0		92	83-125	5	11	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.74</i>		"	<i>5.00</i>		<i>95</i>	<i>78-129</i>			

Matrix Spike (5A18005-MS1)

Source: MOA0386-04

Prepared & Analyzed: 01/18/05

Benzene	2040	50	ug/l	608	1400	105	78-124			
Ethylbenzene	3030	50	"	784	2000	131	84-117			LM
Methyl tert-butyl ether	1130	50	"	960	13	116	63-137			
Toluene	8400	50	"	3290	4000	134	78-129			LM
Xylenes (total)	13400	50	"	3850	8500	127	83-125			LM
Gasoline Range Organics (C4-C12)	114000	5000	"	44000	56000	132	70-124			LM
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.90</i>		"	<i>5.00</i>		<i>98</i>	<i>78-129</i>			



885 Jarvis Drive
 Morgan Hill, CA 95037
 (408) 776-9600
 FAX (408) 782-6308
 www.sequoialabs.com

URS Corporation [Arco]
 1333 Broadway, Suite 800
 Oakland CA, 94612

Project:BP Heritage #11124, Oakland ,CA
 Project Number:N/P
 Project Manager:Leonard Niles

MOA0385
 Reported:
 01/26/05 16:17

**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 5A18005 - EPA 5030B P/T / EPA 8260B

Matrix Spike Dup (5A18005-MSD1)

Source: MOA0386-04

Prepared: 01/18/05 Analyzed: 01/19/05

Benzene	1690	50	ug/l	608	1400	48	78-124	19	12	BA, LN
Ethylbenzene	2330	50	"	784	2000	42	84-117	26	10	BA, LN
Methyl tert-butyl ether	1010	50	"	960	13	104	63-137	11	13	
Toluene	7210	50	"	3290	4000	98	78-129	15	10	BA
Xylenes (total)	10800	50	"	3850	8500	60	83-125	21	11	BA, LN
Gasoline Range Organics (C4-C12)	87300	5000	"	44000	56000	71	70-124	27	20	BA
Surrogate: 1,2-Dichloroethane-d4	4.61		"	5.00		92	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 [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612Project:BP Heritage #11124, Oakland ,CA
Project Number:N/P
Project Manager:Leonard NilesMOA0385
Reported:
01/26/05 16:17**Notes and Definitions**

LN MS and/or MSD below acceptance limits. See Blank Spike(LCS).

LM MS and/or MSD above acceptance limits. See Blank Spike(LCS).

BA Relative percent difference out of control

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



Chain of Custody Record

Project Name 11124 GWM
 BP BU/GEM CO Portfolio Retail
 BP Laboratory Contract Number: Atlantic Richfield Company

MOA 0325

Date: 1/13/05

Requested Due Date (mm/dd/yy) 10 day TAT

On-site Time: <u>1245</u>	Temp: <u>52°F</u>
Off-site Time:	Temp: <u>51°F</u>
Sky Conditions: <u>Overcast</u>	
Meteorological Events:	
Wind Speed: <u>5mph</u>	Direction: <u>NW</u>

Send To:	BP/GEM Facility No.: <u>11124</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>210 W. JACKSON, HAYWARD, CA</u>	Address: <u>1333 Broadway, Suite 800</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>11124</u>	<u>Oakland, CA 94612</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long:	e-mail EDD: <u>donna.casper@URSCorp.com</u>
	California Global ID #: <u>T00000239</u>	Consultant/Contractor Project No.:
Lab PM <u>Lisa Rice</u>	BP/GEM PM Contact: <u>Kyle Christie</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3288</u>
Tele/Fax: <u>408-776-0600 / 408-782-6308</u>	Address: <u>4 Centerpointe Dr., LPR-4 -172</u>	Consultant/Contractor PM: <u>Leonard Niles</u>
Report Type & QC Level: <u>1 Send EDF Reports</u>	<u>La Palma, CA 90623</u>	Invoice to: Consultant/Contractor or <u>BP/GEM (circle one)</u>
BP/GEM Account No.:	Tele/Fax: <u>714-670-5303/714-670-5195</u>	BP/GEM Work Release No.:

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	GRO/BTEX (S260)	DRO w/SG (S015) (S260)	MTBE (S021)	MTBE (S260)	MTBE, TAME, ETBE (S260)	DPE, TEA (S160)		1,2-DCA & EDB (S260)
1	MW-1	1345		X			01													
2	MW-2	1415					02													
3	TB-11124-011305						03													On hold
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Sampler's Name: <u>Will Crow</u>	Relinquished By / Affiliation: <u>Will Crow</u>	Date: <u>1/13/05</u>	Time: <u>1600</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>1/13/05</u>	Time: <u>1600</u>
Sampler's Company: <u>Blaine Tech</u>						
Shipment Date: <u>1/13/05</u>						
Shipment Method: <u>[Signature]</u>						
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 Trip Blank Yes No

ATTACHMENT C

**ERROR CHECK REPORTS AND EDF/GEOWELL SUBMITTAL
CONFIRMATIONS**

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<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	2/11/2005 10:26:04 AM
<u>GLOBAL ID:</u>	T0600100919
<u>FILE UPLOADED:</u>	BP#11124-EDF-MOA0385.zip

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BP 3315 HIGH ST OAKLAND, CA 94619	<u>Regional Board - Case #: 01-0996</u> SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) <u>Local Agency (lead agency) - Case #: 1075</u> ALAMEDA COUNTY LOP - (RWS)
--	---

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	2
# FIELD POINTS WITH DETECTIONS	1
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	0
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES DBFM TO BE TESTED	
- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y

- SURROGATE SPIKE		Y
WATER SAMPLES FOR 8021/8260 SERIES		
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%		Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%		n/a
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%		Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%		Y
SOIL SAMPLES FOR 8021/8260 SERIES		
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%		n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%		n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%		n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%		n/a
FIELD QC SAMPLES		
<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPDL</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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Facility Name: BP
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BP 3315 HIGH ST OAKLAND, CA 94619	Regional Board - Case #: 01-0996 SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) Local Agency (lead agency) - Case #: 1075 ALAMEDA COUNTY LOP - (RWS)
--	--

CONF #	TITLE	QUARTER
1118849217	BP#11124 1Q05 QMR	Q1 2005
SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	2/11/2005	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	2
# FIELD POINTS WITH DETECTIONS	1
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	0
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES DBFM TO BE TESTED	
- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
---	---

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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<u>Submittal Type:</u>	GEO_REPORT
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