

# Atlantic Richfield Company (a BP affiliated company)

P.O. Box 1257 San Ramon, CA 94583 Phone: (925) 275-3801 Fax: (925) 275-3815

20 February 2008



1:22 pm, Mar 03, 2008





Re: Revised Soil & Ground-Water Investigation and

Fourth Quarter 2007 Ground-Water Monitoring Report

Former BP Station # 11117 7210 Bancroft Avenue Oakland, California ACEH Case # RO0000356

"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 Manger



# Revised Soil & Ground-Water Investigation and Fourth Quarter 2007 Ground-Water Monitoring Report

Former BP Station #11117 7210 Bancroft Avenue Oakland, California

#### **Prepared for:**

Mr. Paul Supple Environmental Business Manager Atlantic Richfield Company P.O. Box 1257 San Ramon, California 94583

## **Prepared by:**



1324 Mangrove Ave., Suite 212 Chico, California 95926 (530) 566-1400 www.broadbentinc.com

20 February 2008

Project No. 06-08-649



20 February 2008

Project No. 06-08-649

Atlantic Richfield Company P.O. Box 1257 San Ramon, CA 94583 Submitted via ENFOS

Attn.: Mr. Paul Supple

Re: Revised Soil & Ground-Water Investigation and Fourth Quarter 2007 Ground-Water

Monitoring Report, Former BP Station #11117, 7210 Bancroft Avenue, Oakland,

California; ACEH Case # RO0000356

Dear Mr. Supple:

Broadbent & Associates, Inc. (BAI) is pleased to submit this revised *Soil & Ground-Water Investigation and Fourth Quarter 2007 Ground-Water Monitoring Report* for Former BP Station #11117 (herein referred to as Station #11117) located at 7210 Bancroft Avenue, Oakland California (Site). This report presents a description of field activities conducted and analytical results obtained during installation of one new monitoring well and five new dual phase extraction (DPE) wells on the Site. This report also presents a summary of results from groundwater monitoring and sampling conducted during the Fourth Quarter of 2007. This revised report supersedes the previously-submitted version which was dated 30 January 2008.

Should you have questions or require additional information, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.

Thomas A. Venus Senior Engineer, P.E.

Maber 71 Mil

Robert H. Miller, P.G., C.HG. Principal Hydrogeologist

Enclosures

cc: Mr. Steven Plunkett, Alameda County Environmental Health (Submitted via ACEH ftp site)

Ms. Shelby Lathrop, ConocoPhillips, 76 Broadway, Sacramento, California 95818

Electronic copy uploaded to GeoTracker

**ARIZONA** 

CALIFORNIA

NEVADA

ROBERT H. MILLER

**TEXAS** 

# REVISED SOIL & GROUND-WATER INVESTIGATION AND FOURTH QUARTER 2007 GROUND-WATER MONITORING REPORT

# **Former BP Station #11117**

# 7210 Bancroft Avenue, Oakland, California

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#### **APPENDICES**

- Appendix A Stratus Well Installation Data Package (Includes Field Data Sheets, Lithologic Boring Logs, Well Construction Logs, Surveying Data, Well Development Data, Initial Well Sampling Data, and Laboratory Analytical Reports with Chain-of-Custody Documentation)
- Appendix B Stratus Ground-Water Sampling Data Package (Includes Field Data Sheets and Laboratory Analytical Reports with Chain-of-Custody Documentation)
- Appendix C GeoTracker Upload Confirmation Reports

#### REVISED SOIL & GROUND-WATER INVESTIGATION AND FOURTH QUARTER 2007 GROUND-WATER MONITORING REPORT Former BP Station #11117

# 7210 Bancroft Avenue, Oakland, California

#### 1.0 INTRODUCTION

This document presents results of well installation activities associated with ground-water monitoring and dual-phase extraction (DPE) remediation system construction at Former BP Service Station #11117 (herein referred to as Station #11117) located at 7210 Bancroft Avenue, Oakland, California (Site). This report also presents a summary of results from routine scheduled ground-water monitoring and sampling conducted during the Fourth Quarter of 2007, as well as provides a written progress update on construction of the DPE remediation system. This revised report supersedes the previously-submitted version which was dated 30 January 2008. This revised version includes geologic cross-sections and initial well sampling results.

#### 2.0 SOIL & GROUND-WATER INVESTIGATION

Well installation activities were originally proposed by Broadbent & Associates, Inc. (BAI) in the *Soil and Ground-Water Investigation Report, Former BP Service Station 11117* dated 15 June 2007. Additional ground-water characterization activities were conducted as requested by the Alameda County Environmental Health Services (ACEH) in their approval letter dated 11 October 2007. Well installation activities were conducted to further assist site assessment and remediation with construction of the DPE system. This report presents a summary of the methods of investigation, field activities and observations, results of laboratory analyses, conclusions and recommendations. Activities included the following:

- Completed project set-up activities including: solicitation and contracting with a
  California-licensed C-57 drilling contractor to conduct drilling activities; clearance of
  potential conflicts with underground utilities prior to initiation of field activities as
  required by law; and preparation of a Site Health & Safety Plan to inform project
  personnel of potential project hazards;
- Obtained permits from the Alameda County Public Works Agency for installation of two ground-water monitoring wells (MW-11 and MW-12), and five DPE wells (DPE-1 through DPE-5).
- Observed drilling and construction of six of the seven wells referenced above (MW-12 was not installed);
- On-site storage of soil cuttings and decontamination water within 55-gallon drums for offsite transportation and treatment or disposal after appropriate characterization;
- Completed well development activities on new wells:
- Coordinated with a California-licensed Professional Land Surveyor to establish well latitude, longitude, and elevations; and
- Prepared this report detailing the above-mentioned activities.

Well installation activities included installation of new monitoring well MW-11 and DPE wells DPE-1 through DPE-5 on the Site southwest of the underground storage tank (UST) complex and dispenser islands. The originally proposed location of well MW-11 was determined not to be necessary, and proposed well MW-12 was renamed as MW-11. Existing well MW-4 was

proposed to be converted to well DPE-5, however, the location of well DPE-5 was modified based on the location of underground utilities and discussion with the scoping contractor and ACEH. Details of the soil and ground-water investigation activities are provided below.

#### 2.1 Soil Borings

Soil borings for wells MW-11 and DPE-1 through DPE-5 were advanced by Woodward Drilling, a California-licensed C-57 drilling contractor, using a BK-61 Mobile Drill rig with ten-inch diameter hollow-stem augers. Soil borings MW-11, DPE-1 through DPE-3, and DPE-5 were drilled to a total depth of 40 feet below ground surface (ft bgs). Soil boring DPE-4 overdrilled existing well MW-2 to a total depth of 45 ft bgs. During drilling activities, new soil borings were described by the on-site Stratus geologist using the Universal Soil Classification System (USCS). Geologic Cross-Sections are provided as Drawing 3 and Drawing 4. Field notes, lithologic boring logs and well construction logs are provided in Appendix A. Boring logs were uploaded to the GeoTracker AB2886 database. Copies of the GeoTracker upload confirmation reports (GEO\_BORE files) are provided in Appendix C.

#### 2.2 Soil Sampling

Soil samples were collected at approximately 5-ft intervals during the drilling associated with the well installations, with the exception of well DPE-4 (over-drilling of existing MW-2), which was not sampled. Select soil samples were delivered under standard chain-of-custody protocol to Test America Analytical Testing Corporation (Morgan Hill, California), a State of California-certified analytical laboratory. Samples were analyzed for Gasoline Range Organics (GRO, hydrocarbon chain lengths C4-12) by the LUFT GCMS Method; for Benzene, Toluene, Ethyl-benzene, and Total Xylenes (BTEX), tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Di-isopropyl ether (DIPE), 1,2-Dibromomethane (EDB), 1,2-Dichloroethane (1,2-DCA), ethanol, Ethyl tert-butyl ether (ETBE), and Methyl tert-butyl ether (MTBE) by EPA Method 8260B.

The laboratory analytical report for soil boring samples, including completed chain-of-custody documentation, is provided in Appendix A. Soil laboratory analytical results are also summarized in tabular format below.

	Soil Bo	ring Sampl	les - Labor	atory An	alytical <b>F</b>	Results (mg	g/kg)	
Sample ID	GRO	В	T	E	X	TAME	TBA	MTBE
MW-11 20'	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005
MW-11 30'	1.9	0.0089	0.022	0.11	0.11	< 0.005	< 0.02	< 0.005
DPE-1 25'	< 0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.28	< 0.005
DPE-1 35'	< 0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005
DPE-2 20'	< 0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005
DPE-2 30'	2,200	< 0.005	< 0.005	12	26	< 0.005	< 0.02	< 0.005
DPE-3 20'	0.39	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.02	< 0.005
DPE-3 35'	3.6	0.082	0.20	0.15	0.28	< 0.005	< 0.02	0.06
DPE-5 20'	1,000	< 5.0	14	31	150	< 2.5	< 500	<2.5
DPE-5 35'	3.5	0.41	0.011	0.085	0.12	0.012	0.61	3.9

Detected hydrocarbon concentrations are represented within the table above with bold-typed font. Concentrations of DIPE, EDB, ETBE, and 1,2-DCA are not included in the above table as the results for these constituents were below their respective laboratory reporting limits. The laboratory noted that DPE-1 25' was analyzed shortly after the holding time had expired; the GRO result for DPE-5 35' was partly due to individual peak(s) in the quantitative range; and the samples collected at DPE-3 35' (toluene, ethylbenzene, and total xylenes) and DPE-5 35' (ethylbenzene) contained concentrations four times greater than the spike concentration. No other significant irregularities were reported during laboratory analysis of the soil boring samples. The laboratory results for soil sample analyses were uploaded to the GeoTracker AB2886 database. Copies of the GeoTracker upload confirmation reports (EDF) are provided within Appendix C.

#### 2.3 Well Construction

Wells MW-11 and DPW-1 through DPE-5 were constructed using flush-threaded, four-inch diameter Schedule 40 PVC pipe. The factory-slotted 0.020-inch screen intervals extend from 15 ft bgs to 40 ft bgs in each well, with the exception of well DPE-3, in which the screen interval extends from 13 ft bgs to 38 ft bgs. The filter pack surrounding the screen intervals consists of Number 3 silica sand extending from 13 ft bgs to 40 ft bgs, with the exceptions of well DPE-3, where the filter pack extends from 11 ft bgs to 40 ft bgs and well DPE-4, in which the filter pack extends from 13 ft bgs to 45 ft bgs. Each wellhead was secured with a locking well cap and protected by a traffic-rated well vault set flush with the local ground surface. Additional details of well construction are provided in the field notes, lithologic soil boring logs and State of California well completion reports provided in Appendix A. Well construction information was uploaded to the GeoTracker AB2886 database. Copies of GeoTracker upload confirmation reports (GEO\_BORE) are provided within Appendix C.

### 2.4 Well Surveying and Development

The Site was resurveyed on 3 December 2007, incorporating new wells MW-11 and DPE-1 through DPE-5, by David C. Triplett, Professional Land Surveyor #4650 with Morrow Surveying of Sacramento, California. Unfortunately, well MW-6 was not re-surveyed as the well vault could not be opened during the survey visit. The data package from Morrow Surveying is provided within Appendix A. This new well survey information was uploaded to the GeoTracker AB2886 database. Copies of the GeoTracker upload confirmation reports (GEO\_MAP, GEO\_XY, and GEO\_Z files) are provided within Appendix C.

New wells MW-11 and DPE-1 through DPE-5 were developed on 11 December 2007. Well development activities consisted of surging the wells with a bailer and pumping the wells with a submersible ground-water pump until relatively silt-free water was removed. Well DPE-3 ran dry before the targeted ten wetted casing volumes of water were removed – approximately 45 gallons of the targeted 125 gallons. Ten wetted casing volumes of water were purged from each of the remaining wells: approximately 107 gallons were purged from well MW-11; approximately 120 gallons were purged from well DPE-1; approximately 130 gallons were purged from well DPE-2; approximately 124 gallons were purged from well DPE-4; and

approximately 99 gallons were purged from well DPE-5. After development, the wells were left to hydraulically equilibrate prior to water level measurement and sampling. When equilibration was complete, the depth to water was measured in each well. Monitored ground-water level elevation data is provided within Appendix A.

#### 2.5 Initial Well Sampling

New wells MW-11 and DPE-1 through DPE-5 were initially sampled on 14 December 2007. Initial sampling was conducted three days after well development to allow the aquifer to rest and stabilize. Using submersible pumps or bailers, the wells were purged of approximately three wetted casing volumes of water each (between 33 and 39 gallons each). No irregularities were reported during sampling. Samples were submitted under chain-of-custody protocol to Test America Analytical Testing Corporation (TAMC, Morgan Hill, California), for analysis of GRO by the LUFT GCMS Method; for BTEX, TAME, TBA, DIPE, EDB, 1,2-DCA, Ethanol, ETBE, and MTBE by EPA Method 8260B. No significant irregularities were reported during laboratory analysis of the samples. Ground-water sampling field data sheets and the laboratory analytical report, including chain-of-custody documentation, are provided in Appendix A. The laboratory analytical results are also summarized in tabular format below.

	Initial	Well Sam	ples - Lab	oratory A	nalytical <b>F</b>	Results (µg	g/L)							
Sample ID	Sample ID GRO B T E X MTBE ETBE													
MW-11	8,000	<10	72	230	760	<10	<10	<400						
DPE-1	360	24	< 0.50	3.4	< 0.50	28	3.4	1,300						
DPE-2	2,500	1.2	0.99	12	32	0.71	< 0.50	<20						
DPE-3	13,000	1,800	840	830	1,200	770	<25	1,700						
DPE-4	510,000	12,000	27,000	4,900	27,000	8,000	< 500	<20,000						
DPE-5	300,000	9,200	4,100	4,600	20,000	16,000	< 500	<20,000						

Detected hydrocarbon concentrations are represented within the table above with bold-typed font. Concentrations of Ethanol, DIPE, EDB, and 1,2-DCA are not included in the above table as the results for these constituents were below their respective laboratory reporting limits. The laboratory noted that the benzene concentration in the sample from DPE-1 was greater than four times the spike concentration. The laboratory also noted that the Matrix Spike and the Matrix Spike Duplicate recoveries were below acceptance limits for the GRO analyses, suspecting matrix interference. No other significant irregularities were reported during laboratory analysis of the initial well samples. The laboratory results for the initial well sample analyses were uploaded to the GeoTracker AB2886 database. Copies of the GeoTracker upload confirmation reports (EDF) are provided within Appendix C.

#### 2.6 Investigation-derived Residuals Management

Down-hole equipment was decontaminated between uses in each well to minimize potential for cross-contamination. Decontamination consisted of cleaning down-hole equipment in a wash solution of Liquinox, rinsing in tap water, followed by a final rinse with distilled water. Drill

cuttings were monitored during generation with a photo-ionization detector (PID). Drill cuttings were placed in 55-gallon drums, labeled and accumulated on-site until waste profiling and proper disposal could take place. A total of 47 55-gallon drums were filled with solids/soil cuttings and decontamination rinsate from the November 2007 well drilling activities. Approximately 625 gallons of ground-water was generated during development of the six new wells on 11 December 2007. An additional 221 gallons of ground-water was generated during initial sampling of the six new wells. The 625 gallons of well development water was removed from the Site by Stratus later that same day (11 December 2007) and transported by Non-Hazardous Waste Manifest to Seaport Refining & Environmental, LLC of Redwood City for treatment in accordance with BP protocols. The 221 gallons of initial sampling purge water was removed from the Site by Stratus later its same day (14 December 2007) and transported by Non-Hazardous Waste Manifest to Seaport Refining & Environmental for treatment. In January 2008, the solids and liquids generated during well construction activities were removed from the Site: On 8 January 2008 Belshire Environmental Services, Inc. (BESI) transported 385 gallons in seven drums to recycler Demenno Kerdoon of Compton, California; On 14 January 2008 BESI transported 40 drums of solids/soil cuttings to TPST Soil Recyclers of California in Adelanto. Copies of the nonhazardous waste transportation manifests are contained within Appendix A.

#### 3.0 GROUND-WATER MONITORING AND SAMPLING

The following section contains information that would normally be presented within the routine quarterly ground-water monitoring and sampling report for the Fourth Quarter 2007.

#### 3.1 Site Identification Summary

Facility: #11117 Address: 7210 Bancroft Avenue, Oakland, California

Mr. Paul Supple

Consulting Co./Contact Persons: Broadbent & Associates, Inc.(BAI)/Rob Miller & Tom Venus (530) 566-1400

Consultant Project No.: 06-08-649

Primary Agency/Regulatory ID No.: Alameda County Environmental Health (ACEH) ACEH Case #RO0000356

Facility Permits/Permitting Agency: NA

#### 3.2 Work Performed This Quarter (Fourth Quarter 2007)

- 1. Prepared and Submitted Third Quarter 2007 Ground-Water Monitoring Report.
- 2. Conducted ground-water monitoring/sampling for Fourth Quarter 2007. Work performed by Stratus Environmental, Inc. (Stratus) on 9 November 2007.
- 3. Installed one ground-water monitoring well and five DPE wells. Work performed by Stratus between November 5-21, 2007. Soil sampling results and boring log information uploaded to GeoTracker database by BAI.
- 4. Site surveyed by Professional Land Surveyor on 3 December 2007. Work performed by Morrow Surveying under subcontract to Stratus. Survey information uploaded to GeoTracker database by BAI.

- 5. Developed new ground-water monitoring well (MW-11) and new DPE wells (DPE-1 through DPE-5) on 11 December 2007.
- 6. Collected initial ground-water samples from new ground-water monitoring well (MW-11) and new DPE wells (DPE-1 through DPE-5) on 14 December 2007.
- 7. DPE remediation system components purchased by Stratus. Delivery of system components being scheduled.
- 8. Authority to Construct application for treated air discharge in preparation for submittal to Bay Area Air Quality Management District. Work being performed by Stratus.
- 9. Application for treated water discharge in preparation for submittal to East Bay Municipal Utility District. Work being performed by Stratus.
- 10. Application for new service in preparation for submittal to Pacific Gas & Electric Company. Work being performed by Stratus.

#### 3.3 Work Proposed for Next Quarter (First Quarter 2008)

- 1. Prepare and submit Soil & Water Investigation and Fourth Quarter 2007 Ground-Water Monitoring Report (contained herein).
- 2. Conduct quarterly ground-water monitoring/sampling for First Quarter 2008.
- 3. Continue DPE remediation system permitting and construction. Continue to provide monthly updates of progress.

#### 3.4 Quarterly Results Summary

Current phase of project:	Ground-Water Monitoring/Sampling/Construction of
	DPE Remediation System
Frequency of ground-water	<b>Quarterly: MW-1, MW-2, MW-3, MW-4, MW-6, MW-7,</b>
monitoring:	MW-8, MW-9, MW-10, EX-1, EX-2
	(New: MW-11, DPE-1, DPE-2, DPE-3, DPE-4, DPE-5)
Frequency of ground-water sampling:	<b>Quarterly: EX-1, EX-2, MW-2, MW-4, MW-7, MW-10</b>
	(New: MW-11, DPE-1, DPE-2, DPE-3, DPE-4, DPE-5)
	Semi-annually (1Q and 3Q): MW-9
	Annually (1Q): MW-1, MW-3, MW-6, MW-8
Is free product (FP) present on-site:	No
FP recovered this quarter:	None
Current remediation techniques:	Construction of Dual Phase Extraction System in progress
Depth to ground water (below TOC):	19.83 (MW-1) to 23.07 (MW-7)
General ground-water flow direction:	Southwest and Southeast
Approximate hydraulic gradient:	0.005 ft/ft and 0.003 ft/ft

#### 3.5 Discussion

Fourth quarter 2007 ground-water monitoring and sampling was conducted at Station #11117 on 9 November 2007 and 14 December 2007 by Stratus Environmental, Inc. (Stratus). Water levels were gauged in 11 wells at the Site on 9 November 2007 (before new wells MW-11 and DPE-1 through DPE-5 were installed). Water levels were gauged in 15 wells at the Site on 14

Broadbent & Associates, Inc. Chico, California

December 2007. Well MW-6 could not be opened on 14 December 2007 due to a broken and stuck well cap. No other irregularities were noted during this water level gauging event. As this latter event was more comprehensive, water levels from 14 December 2007 were used in the following discussion. Depth-to-water measurements ranged from 19.83 ft at MW-1 to 23.07 ft at MW-7. Resulting ground-water surface elevations ranged from 17.83 ft above mean sea level in well MW-10 to 15.92 ft at well MW-7. Water level elevations were predominately below the between historic minimum ranges for each well, as summarized in Table 1, partly due to the significant difference between the recently resurveyed elevations from 3 December 2007 and the previous survey elevations. Water level elevations from 14 December 2007 yielded variable potentiometric ground-water flow directions and gradients to the southwest and southeast at approximately 0.005 ft/ft and 0.003 ft/ft, generally inconsistent with historical data (see Table 3). Ground-water monitoring field data sheets are provided within Appendix A and Appendix B. Measured depths to ground water and respective ground-water elevations are summarized in Table 1. Potentiometric ground-water elevation contours are presented in Drawing 5.

Water samples were collected from wells MW-2, MW-4, MW-7, MW-10, EX-1 and EX-2 on 9 November 2007, consistent with the monitoring schedule in effect at the time, prior to the construction of the new wells. As mentioned previously, water samples were collected on 14 December 2007 from the new wells MW-11, DPE-1, DPE-2, DPE-3, DPE-4 (previously MW-2), and DPE-5. During the 9 November 2007 sampling event, well EX-1 ran dry prior to purging of three wetted casing volumes. No other irregularities were reported during sampling events of 9 November or 14 December 2007. Samples were submitted under chain-of-custody protocol to Test America Analytical Testing Corporation (TAMC, Morgan Hill, California), for analysis of GRO by the LUFT GCMS Method; for BTEX, TAME, TBA, DIPE, EDB, 1,2-DCA, Ethanol, ETBE, and MTBE by EPA Method 8260B. No significant irregularities were reported during laboratory analysis of the samples. Ground-water sampling field data sheets and the laboratory analytical report, including chain-of-custody documentation, are provided in Appendix A and Appendix B.

Concentrations of GRO were detected above the laboratory reporting limit in each of the wells sampled at concentrations up to 510,000 micrograms per liter ( $\mu$ g/L) in well DPE-4. Benzene was detected above the laboratory reporting limit in seven of the wells sampled at concentrations up to 12,000  $\mu$ g/L in well DPE-4. Toluene was detected above the laboratory reporting limit in seven of the wells sampled at concentrations up to 27,000  $\mu$ g/L in well DPE-4. Ethylbenzene was detected above the laboratory reporting limit in nine of the wells sampled at concentrations up to 4,900  $\mu$ g/L in well DPE-4. Total Xylenes were detected above the laboratory reporting limit in ten of the wells sampled at concentrations up to 27,000  $\mu$ g/L in well DPE-4. TBA was detected above the laboratory reporting limit in four of the wells sampled at concentrations up to 5,700  $\mu$ g/L in well MW-4. MTBE was detected above the laboratory reporting limit in ten of the wells sampled at concentrations up to 16,000  $\mu$ g/L in well DPE-5. ETBE was detected above the reporting limit in one of the wells sampled at a concentration of 3.4  $\mu$ g/L in well DPE-1. The remaining fuel additives and oxygenates were not detected above their laboratory reporting limits in the wells sampled this quarter.

Detected analyte concentrations were within the historic minimum and maximum ranges recorded for wells MW-4, MW-7, MW-10, EX-1, and EX-2 with the following exceptions: The

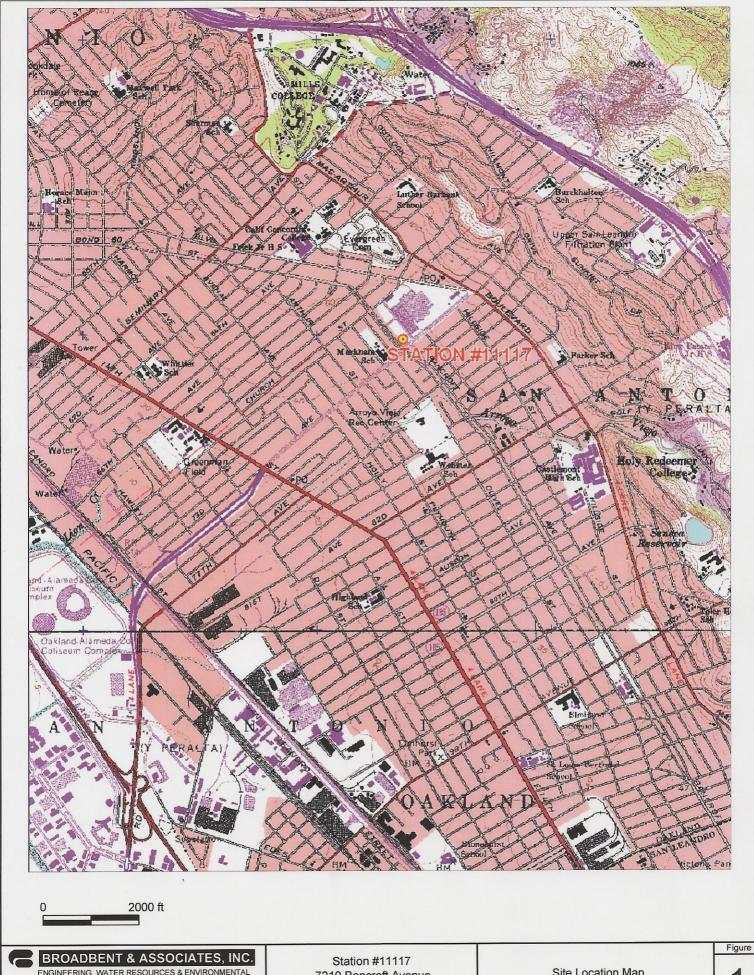
detected MTBE concentration in the sample collected from well EX-1 reached a historic minimum value of 370  $\mu$ g/L and the detected MTBE concentration in the sample collected from well EX-2 reached an historic maximum value of 140  $\mu$ g/L; The detected TBA concentrations in the samples collected from well MW-4 and well EX-1 reached historic maximums of 5,700  $\mu$ g/L and 1,900  $\mu$ g/L, respectively. Historic laboratory analytical results are summarized in Table 1 and Table 2. Copies of the Laboratory Analytical Reports, including chain-of-custody documentation are provided in Appendix A and Appendix B. The most recent GRO, Benzene, and MTBE concentrations are also presented in Drawing 5. Drawing 6 presents a map showing approximate GRO iso-concentration contours. Drawing 7 presents a map showing approximate Benzene iso-concentration contours. Drawing 8 presents a map showing approximate MTBE iso-concentration contours. Fourth Quarter 2007 ground-water monitoring data (GEO\_WELL) and laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 Database. Upload confirmation pages have been provided in Appendix C.

#### 4.0 CONCLUSIONS AND RECOMMENDATIONS

BAI concludes that the objectives of the investigation were fulfilled, namely to further assist remediation and construction of the DPE system as originally proposed in the previous *Soil & Ground-Water Investigation Report* (BAI, 15 June 2007), as amended with comments by ACEH in their letter dated 11 October 2007. BAI recommends that monitoring well MW-11 be incorporated into the quarterly monitoring and sampling schedule for Station #11117. In addition, until connected to the remediation system, BAI recommends that wells DPE-1 through DPE-5 be temporarily incorporated into the quarterly monitoring and sampling schedule for Station #11117. The same procedures and analyses used for the existing wells onsite should also be performed on samples collected from MW-11 and DPE-1 through DPE-5. Samples would be submitted under chain-of-custody protocol to a state-certified environmental laboratory. Samples shall be analyzed for GRO, BTEX, TAME, TBA, DIPE, EDB, 1,2-DCA, Ethanol, ETBE, and MTBE by EPA Method 8260B. BAI shall attempt to contact ACEH to discuss incorporation of the new wells into the sampling schedule prior to the next routine sampling/monitoring event scheduled for First Quarter 2008.

#### 5.0 CLOSURE

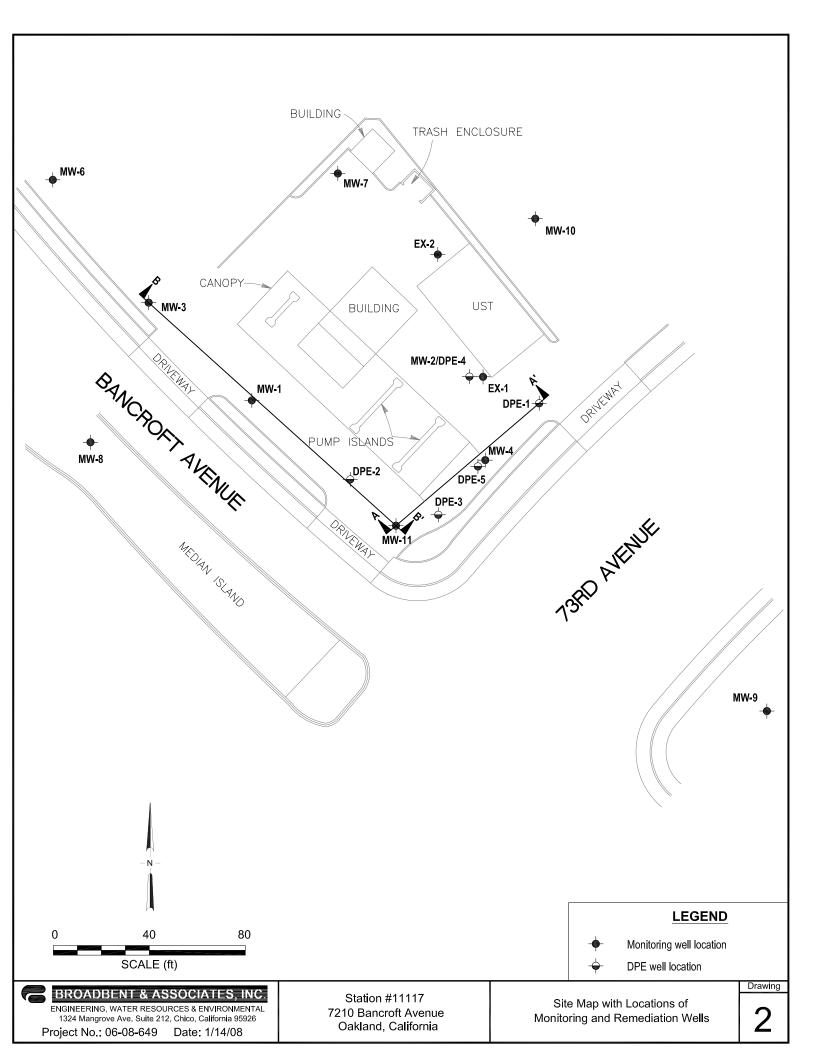
This document has been prepared for the exclusive use of Atlantic Richfield Company. The findings presented in this report are based upon the observations of Stratus field personnel, points of investigation and results of laboratory tests performed by Test America Analytical Testing Corporation (Morgan Hill, California). Services were performed in accordance with the generally accepted standard of practice at the time this report was written. No warranty, expressed or implied, is intended. It is possible that variations in the soil or ground water conditions could exist beyond the points explored in this investigation. Also, changes in site conditions could occur at some time in the future due to variations in rainfall, temperature, regional water usage or other factors.

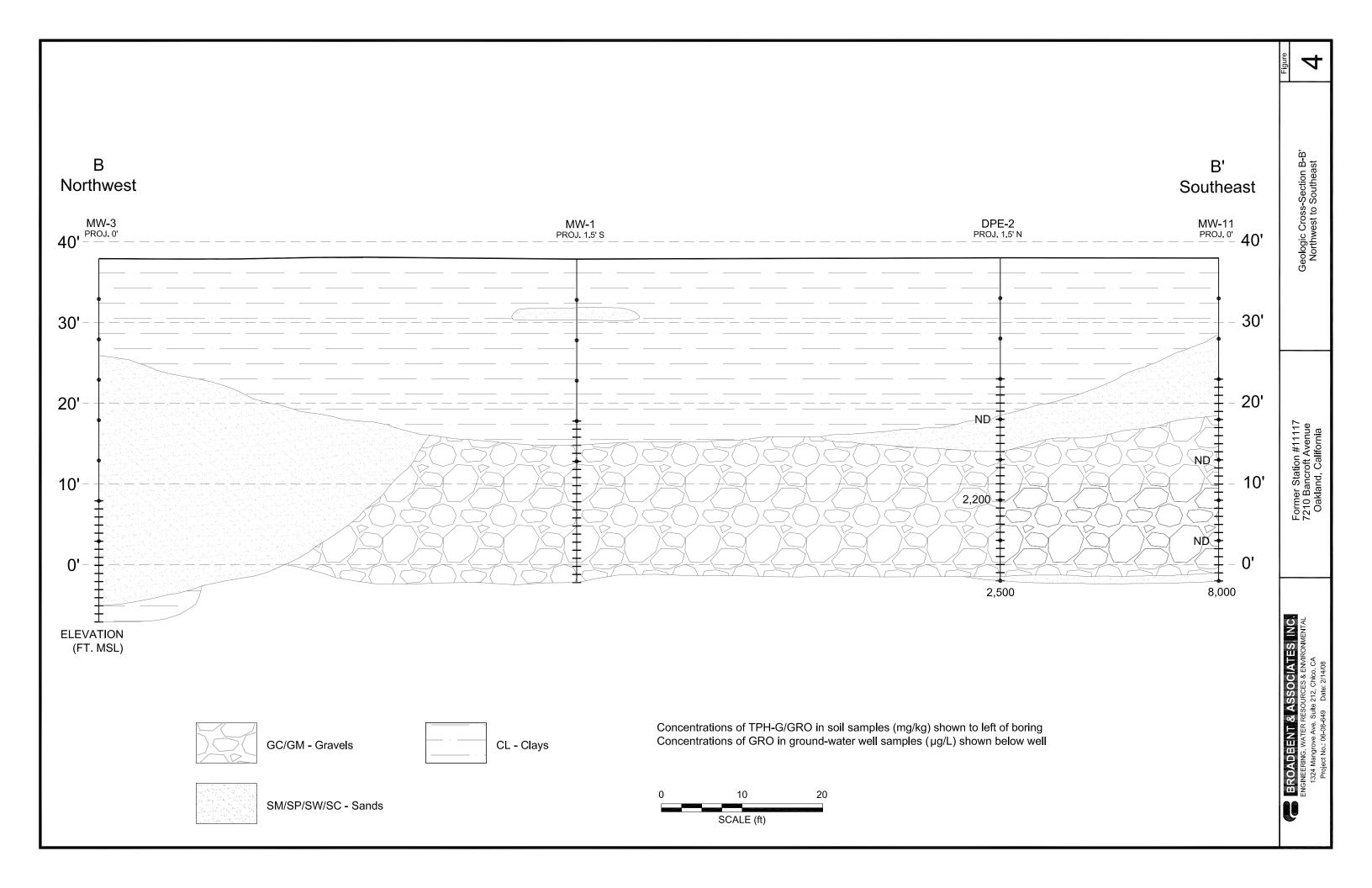


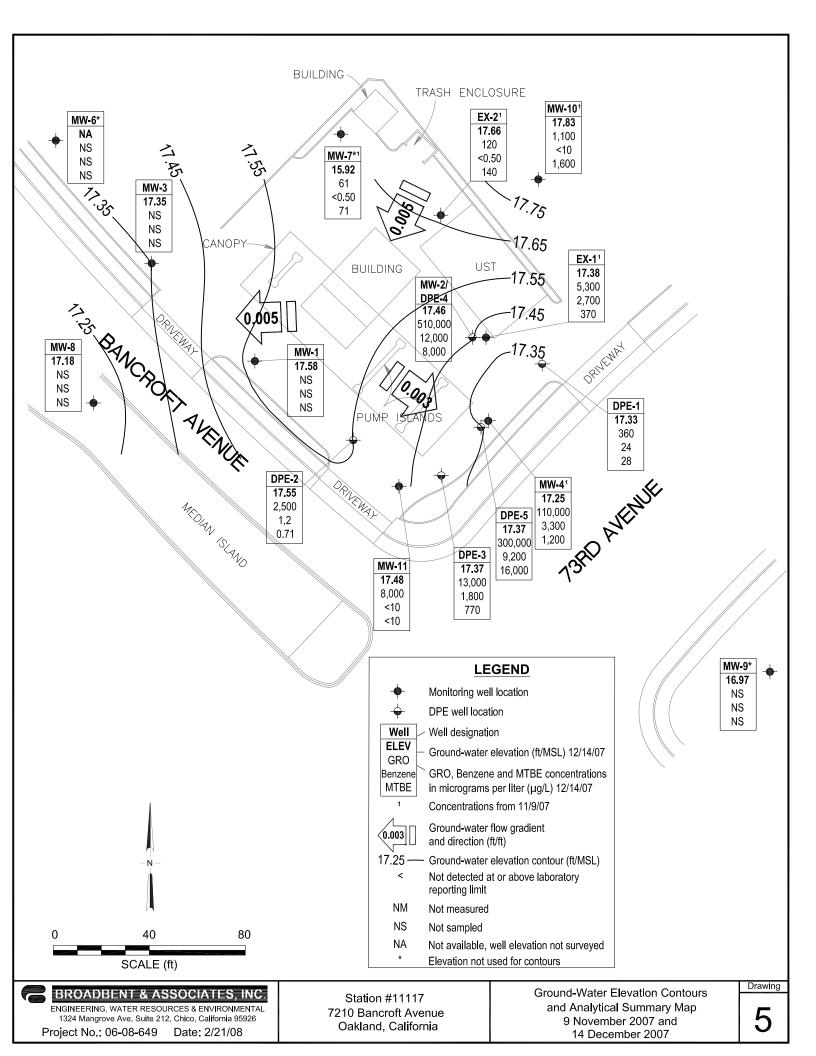
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL 1324 Mangrove Ave. Suite 212, Chico, California 95926 Project No.: 06-08-649 Date: 1/14/08

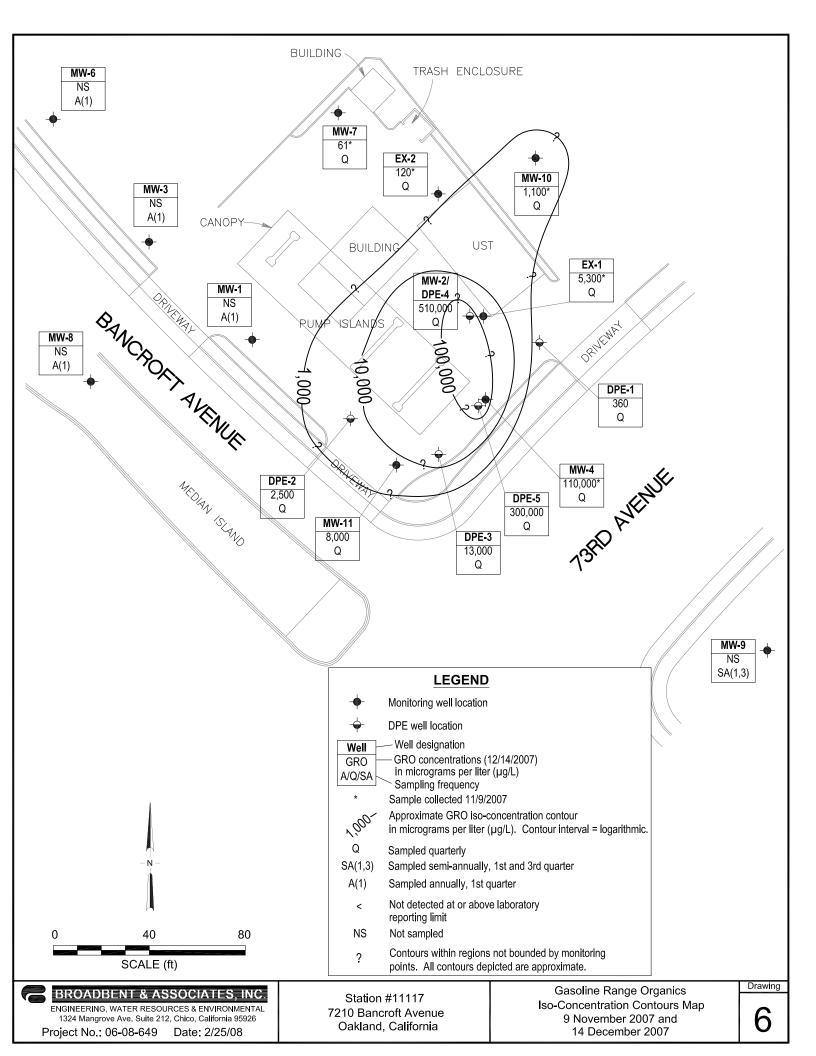
7210 Bancroft Avenue Oakland, California

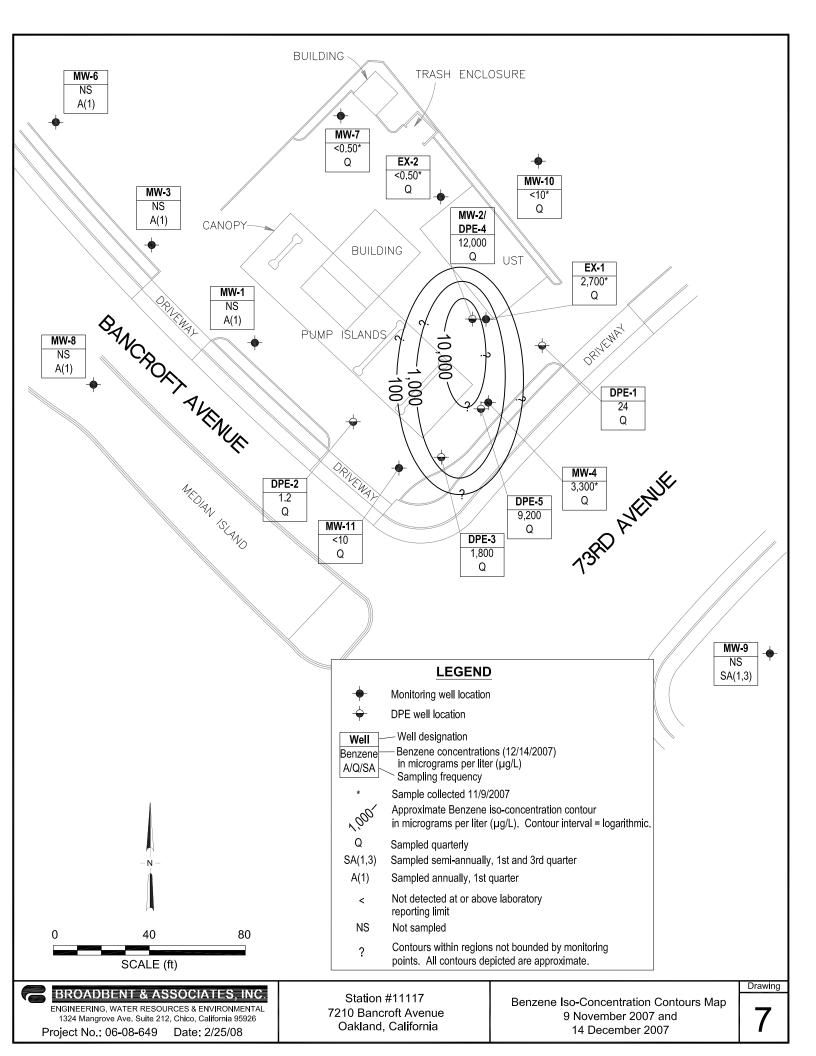
Site Location Map











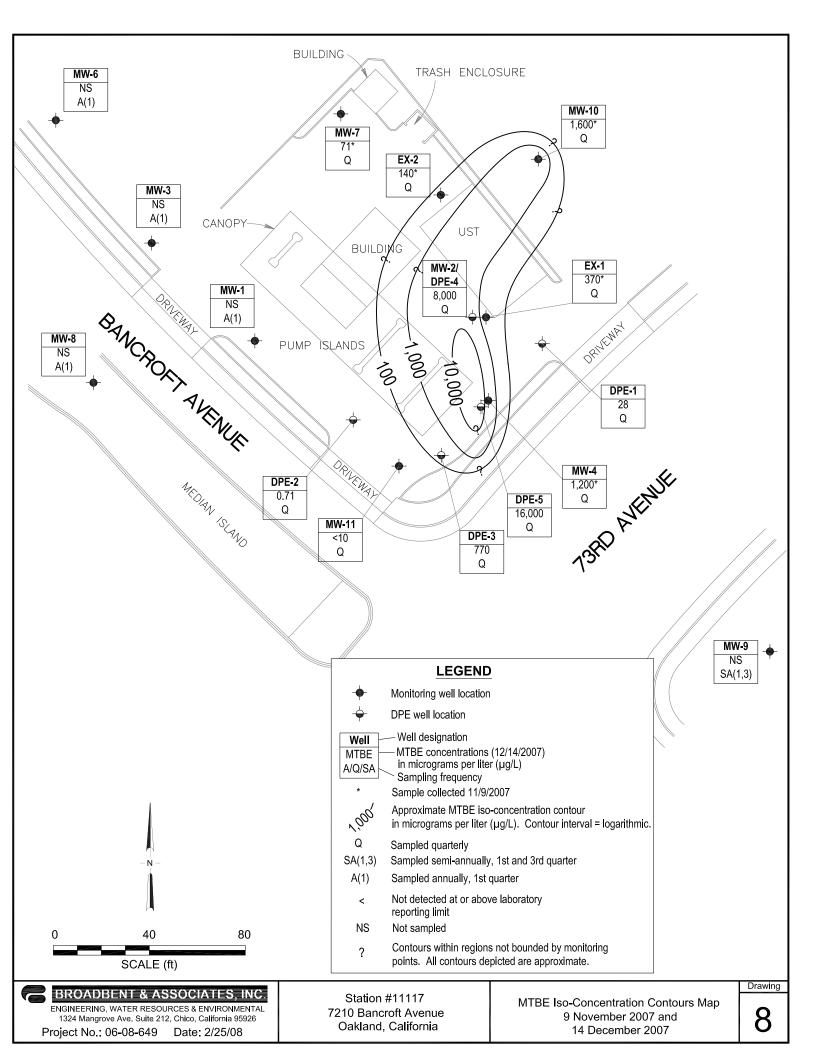


Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

Well and		TOC Elevation	Depth to Water	Product Thickness	Water Level Elevation	GRO/		Concentra	ntions in (μ Ethyl-	g/L) Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
DPE-1															
12/14/2007		38.95	21.62		17.33	360	24	<0.50	3.4	<0.50	28	1.73	TAMC		z
DPE-2															
12/14/2007		37.64	20.09		17.55	2,500	1.2	0.99	12	32	0.71	1.78	TAMC		Z
DPE-3															
12/14/2007		37.82	20.45		17.37	13,000	1,800	840	830	1,200	770	1.14	TAMC		Z
DPE-4															
12/14/2007		38.46	21.00		17.46	510,000	12,000	27,000	4,900	27,000	8,000	1.79	TAMC		z
DPE-5		30.40	21.00	<del>-</del>	17.40	310,000	12,000	27,000	4,500	27,000	0,000	1.77	TAME		L
12/14/2007		38.23	20.86		17.37	300,000	9,200	4,100	4,600	20,000	16,000	1.82	TAMC		Z
EX-1															
05/04/2004	P		16.29			12,000	2,300	430	740	1,100	2,500		SEQM	6.8	h
08/31/2004	P		19.39			13,000	2,500	95	650	1,500	2,100		SEQM	6.7	h
11/23/2004	P		17.90	-		13,000	2,700	94	460	1,700	3,000		SEQM	6.9	
01/18/2005	P		14.20			16,000	2,100	390	570	2,500	2,200		SEQM	6.6	
06/29/2005	P		14.22			6,400	1,100	52	280	790	1,400		SEQM	7.2	
09/01/2005	P		17.22			7,900	2,000	94	400	870	2,000		SEQM	6.7	
11/03/2005	P		19.92			22,000	3,200	640	550	3,300	3,000	0.88	SEQM	6.8	
02/14/2006	P		15.40			3,500	<25	<25	<25	74	1,100		SEQM	6.8	
5/30/2006	P		13.43	-		8,600	1,400	120	490	1,300	1,400		SEQM	6.8	
8/29/2006			17.74			22,000	2,900	210	1,400	3,600	2,500		TAMC	6.9	
11/29/2006	P		20.25			15,000	4,000	110	770	2,700	2,700	0.61	TAMC	6.86	
2/20/2007	P		16.75			10,000	2,500	< 50	550	1,300	920	1.15	TAMC	7.14	
5/25/2007	P		17.04			8,600	2,100	88	700	1,400	890	2.96	TAMC	6.95	
8/9/2007	NP		19.76			4,800	870	40	230	460	530	0.26	TAMC	7.01	
11/9/2007	P		21.57			5,300	2,700	29	220	200	370	1.50	TAMC	7.12	
12/14/2007		38.98	21.60	-	17.38										Z

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Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level			Concentra	ations in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
EX-2															
05/04/2004	P		16.65			< 50	0.63	< 0.50	< 0.50	0.66	46		SEQM	6.7	h
08/31/2004	P		19.90			<250	<2.5	<2.5	<2.5	<2.5	130		SEQM	6.9	h
11/23/2004	P		18.36	-		< 50	0.74	< 0.50	0.83	3.0	5.8		SEQM	6.6	
01/18/2005	P		14.67			< 50	< 0.50	< 0.50	< 0.50	0.69	6.5		SEQM	6.5	
06/29/2005	P		14.60	-		< 50	< 0.50	< 0.50	< 0.50	0.50	24		SEQM	6.8	S
09/01/2005	P		17.28			< 50	< 0.50	1.4	< 0.50	1.4	55		SEQM	7.0	
11/03/2005	P		20.42	-		< 50	0.50	< 0.50	< 0.50	1.4	39	0.77	SEQM	6.9	
02/14/2006	P		14.54			220	< 0.50	3.2	7.5	33	0.72		SEQM	7.0	
5/30/2006	P		13.35	-		< 50	< 0.50	< 0.50	< 0.50	0.70	7.8		SEQM	6.9	
8/29/2006			17.92			66	0.67	< 0.50	0.79	1.9	94		TAMC	6.9	
11/29/2006	P		20.63			< 50	< 0.50	< 0.50	< 0.50	< 0.50	4.4		TAMC	7.73	
2/20/2007	P		17.58			< 50	< 0.50	< 0.50	< 0.50	2.0	12	1.41	TAMC	7.77	
5/25/2007	P		17.23	0.01		< 50	< 0.50	< 0.50	< 0.50	< 0.50	10	2.99	TAMC	7.30	
8/9/2007	P		20.40			< 50	< 0.50	< 0.50	< 0.50	< 0.50	27	1.14	TAMC	7.19	
11/9/2007	P		22.07	-		120	<0.50	0.53	0.57	2.7	140	4.01	TAMC	7.37	
12/14/2007		39.63	21.97	-	17.66	-				-					Z
MW-1															
1/5/1992		49.80	33.16		16.64	57,000	2,400	1,000	1,100	3,100					
1/10/1992		49.80	33.16		16.64										
6/5/1992		49.80	29.01		20.79	31,000	2,800	2,100	800	2,300					
7/24/1992		49.80	29.45		20.35										
7/27/1992		49.80	29.45		20.35										
9/15/1992						36,000	3,800	3,400	1,400	3,800			ANA		d
9/15/1992		49.80	30.53		19.27	40,000	3,400	3,000	1,300	3,400			ANA		c
12/15/1992		49.80	31.26		18.54	27,000	1,700	580	700	1,900			ANA		c
12/15/1992						22,000	1,500	440	510	1,300			ANA		d
3/15/1993		49.80	24.80		25.00	17,000	1,700	1,200	590	1,800			PACE		1
3/15/1993						15,000	1,100	860	440	1,400			PACE		d, l
6/7/1993		49.80	25.01		24.79	750	0.8	0.8	< 0.5	< 0.5			PACE		1

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		TOC	Depth to	Product	Water Level			Concentra	ations in (µ	g/L)					
Well and Sample Date	P/NP	Elevation (feet msl)	Water (feet bgs)	Thickness (feet)	Elevation (feet msl)	GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	DO (mg/L)	Lab	pН	Comments
MW-1 Cont.															
6/7/1993						720	0.7	0.7	<0.5	< 0.5			PACE		d, 1
9/23/1993		49.80	28.70		21.10	40,000	4,000	500	920	3,000	6,619		PACE		e, 1
12/27/1993						21,000	1,700	380	830	2,400	9,219		PACE		e,l, d
12/27/1993		49.80	28.66		21.14	27,000	2,000	400	940	2,600	13,558		PACE		e, 1
4/5/1994		49.80	26.37		23.43	27,000	3,400	930	950	2,900	8,595		PACE		e,l,
4/5/1994						29,000	3,700	1,000	1,000	3,100	9,672	1.3	PACE		e,l, d
7/22/1994		49.80	26.54		23.26	1,700	220	2.3	2	3.4	262	2.0	PACE		e,l
10/13/1994		49.80	27.46		22.34	1,200	250	21	< 0.5	3.2	321	2.6	PACE		e,l
1/25/1995		49.80	20.96	-	28.84	1,000	420	8	13	4			ATI		
4/19/1995		49.80	19.59		30.21	5,200	420	51	230	340		6.0	ATI		
7/5/1995		49.80	19.61		30.19	320	4.2	< 0.50	< 0.50	<1.0		4.6	ATI		
10/5/1995		49.80	24.40		25.40	5,800	1,000	40	31	180	7,800	2.3	ATI		
1/12/1996		49.80	25.44		24.36	370	< 0.50	< 0.50	< 0.50	<1.0	< 5.0	3.7	ATI		
4/22/1996		49.80	18.02		31.78	< 50	< 0.5	<1	<1	<1	<10	3.9	SPL		
7/2/1996		49.80	19.72		30.08										
7/3/1996		49.80				<250	<2.5	<5	<5	<5	< 50	3.6	SPL		
11/8/1996		49.80	19.98		29.82	< 50	<0.5	<1.0	<1.0	<1.0	<10	4.3	SPL		
1/3/1997		49.80	19.49		30.31	< 50	< 0.5	14	<1.0	<1.0	<10	4.6	SPL		
4/28/1997		49.80	20.20		29.60	< 50	<0.5	<1.0	<1.0	<1.0	<10	3.9	SPL		
7/1/1997		49.80	22.53		27.27	< 50	< 0.5	<1.0	<1.0	<1.0	<10	3.9	SPL		
10/2/1997		49.80	24.27		25.53	< 50	<0.5	<1.0	<1.0	<1.0	<10	4.6	SPL		
1/9/1998		49.80	21.07		28.73	< 50	< 0.5	<1.0	<1.0	<1.0	<10	4.2	SPL		
5/6/1998		49.80	14.94		34.86	60	<0.5	<1.0	<1.0	<1.0	<10	3.8	SPL		
7/21/1998		49.80	15.11		34.69	70	< 0.5	<1.0	<1.0	<1.0	<10	3.8	SPL		
12/30/1998		49.80	19.95		29.85										
2/2/1999		49.80	19.12		30.68	420	<1.0	<1.0	<1.0	<1.0	390		SPL		
5/10/1999		49.80	15.51		34.29										
9/23/1999		49.80	21.65		28.15	440	49	<1.0	<1.0	<1.0	910		SPL		
12/23/1999		49.80	22.32		27.48										
3/27/2000		49.80	15.72		34.08	2,500	230	3	83	36	4,400		PACE		

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		TOC	Depth to	Product	Water Level			Concentre	ntions in (µ	σ/I .)					
Well and		Elevation	Water	Thickness	Elevation	GRO/		Concentra	Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	ТРН	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
MW-1 Cont.															
5/22/2000		49.80	16.92		32.88										
8/31/2000		49.80	20.12		29.68	1,700	18	5.5	7.9	5	510		PACE		
12/11/2000		49.80	20.72		29.08										
3/20/2001		49.80	15.91		33.89	880	38.2	< 0.5	24.1	<1.5	391		PACE		
6/19/2001		49.80	18.38		31.42										
9/20/2001		49.80	21.23		28.57	3,200	400	19.8	42	32.5	2,510		PACE		
12/27/2001		49.80	16.72		33.08	750	70.1	0.536	4.74	3.76	649		PACE		
2/28/2002		49.80	15.25		34.55	< 50	< 0.5	< 0.5	< 0.5	<1.0	8.7		PACE		
6/28/2002		49.80	16.57		33.23	110	0.977	< 0.5	0.818	<1.0	8.35		PACE		
9/12/2002		49.80	18.41		31.39	98	2.7	1.5	1.5	5.4	48		SEQ	6.9	
12/12/2002		49.80	20.26		29.54	210	1.9	< 0.50	< 0.50	< 0.50	32		SEQ	6.8	
3/10/2003		49.80	16.22		33.58	< 50	< 0.50	< 0.50	< 0.50	< 0.50	3.2		SEQ	6.9	
5/12/2003		49.80	14.30		35.50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5		SEQ	7.1	
8/27/2003		49.80	18.15		31.65	< 50	< 0.50	< 0.50	< 0.50	< 0.50	4.2		SEQ	7.1	n
11/10/2003	P	49.80	19.24	-	30.56	< 50	< 0.50	< 0.50	< 0.50	< 0.50	0.51		SEQM	6.8	
02/03/2004	P	49.80	14.84		34.96	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		SEQM	7.0	
05/04/2004	P	49.80	14.67	-	35.13	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		SEQM	7.1	
08/31/2004	P	49.80	17.75		32.05	< 50	< 0.50	< 0.50	< 0.50	< 0.50	0.50		SEQM	7.1	
11/23/2004		49.80	16.03	-	33.77										
01/18/2005	P	49.80	12.47		37.33	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		SEQM	6.9	
06/29/2005		49.80	12.65		37.15										
09/01/2005		49.80	15.79		34.01										
11/03/2005		49.80	18.55		31.25										
02/14/2006	P	49.80	12.29		37.51	51	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		SEQM	7.0	w
5/30/2006		49.80	12.15		37.65										
8/29/2006		49.80	16.37		33.43										
11/29/2006		49.80	18.73		31.07										
2/20/2007	P	49.80	14.71		35.09	110	< 0.50	< 0.50	0.58	< 0.50	< 0.50	3.52	TAMC	7.51	
5/25/2007		49.80	15.59		34.21										
8/9/2007		49.80	18.38		31.42										

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Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level Concentrations in (µg/L)										
Well and		Elevation	Water	Thickness	Elevation	GRO/		Concentra	Ethyl-	g/L) Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
MW-1 Cont.															
11/9/2007		49.80	20.00		29.80										
12/14/2007		37.41	19.83		17.58										z
MW-2															
1/5/1992		51.07													r
1/10/1992		51.07													r
6/5/1992		51.07	30.05		21.02	11,000	2,000	180	490	1,900					
7/24/1992		51.07	30.72		20.35										
7/27/1992		51.07	30.52		20.55										
9/15/1992		51.07	31.56		19.51	75,000	2,000	6,500	2,300	13,000			ANA		c
12/15/1992		51.07	32.40		18.67	34,000	6,200	8,900	2,000	7,900			ANA		с
3/15/1993		51.07	26.14		24.93	150,000	12,000	18,000	3,200	22,000	82,000		PACE		e
6/7/1993		51.07	26.38		24.69										f
9/23/1993		51.07	31.43	1.92	17.72										f
12/27/1993		51.07	34.07	1.07	15.93										f
4/5/1994		51.07	30.44	3.30	17.33										f
7/22/1994		51.07	28.51	0.80	21.76										f
10/13/1994		51.07	29.33	0.70	21.04										f
1/25/1995		51.07	25.55	4.25	21.27										f
4/19/1995		51.07	19.78	0.12	31.17										f
7/5/1995		51.07	20.88	0.09	30.10	140,000	14,000	30,000	3,500	26,000			ATI		
10/5/1995		51.07	24.68	0.10	26.29										f
1/12/1996		51.07	25.72	0.06	25.29										f
4/22/1996		51.07	19.33	0.08	31.66										f
7/2/1996		51.07	20.01	0.04	31.02										f
11/8/1996		51.07	20.28	0.01	30.78										f
1/3/1997		51.07	19.87	0.02	31.18										f
4/28/1997		51.07	20.59	0.01	30.47	560,000	1,200	1,300	290	2,310	6,100	3.9	SPL		-
7/1/1997						150,000	14,000	13,000	1,800	14,200	57,000		SPL		d
7/1/1997		51.07	22.90	0.01	28.16	24,000	15,000	16,000	4,900	24,400	63,000	3.7	SPL		

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Station #11117, 7210 Bancroft Ave., Oakland, CA

		TOC	Depth to	Product	Water Level			Concentra	ations in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
MW-2 Cont.															
10/2/1997		51.07	24.65	0.02	26.40										
10/3/1997		51.07				250,000	32,000	39,000	6,000	42,000	160,000	4.5	SPL		
1/9/1998		51.07	21.22	0.01	29.84	420,000	23,000	29,000	5,800	43,000	75,000	4.0	SPL		
1/9/1998						300,000	20,000	25,000	5,200	37,000	84,000		SPL		d
2/2/1998		51.07	20.11		30.96	410,000	27,000	43,000	6,700	50,000	20,000		SPL		
5/6/1998		51.07	15.10	0.01	35.96	180,000	25,000	26,000	3,400	22,900	35,000	3.7	SPL		
7/21/1998		51.07	15.31	0.01	35.75	270,000	21,000	20,000	2,700	18,800	34,000	3.8	SPL		
12/30/1998		51.07	21.10	0.10	29.87	300,000	22,000	24,000	4,200	26,000	89000/95000		SPL		j
5/10/1999		51.07	16.68		34.39	220,000	20,000	20,000	2,800	20,000	100,000		SPL		
9/23/1999		51.07	22.50		28.57	160,000	21,000	24,000	2,900	20,000	44,000		SPL		
12/23/1999		51.07	22.64		28.43	170,000	25,000	41,000	3,100	24,000	40,000		PACE		k
3/27/2000		51.07	16.88		34.19	140,000	15,000	25,000	3,400	21,000	19,000		PACE		
5/22/2000		51.07	17.75		33.32	150,000	18,000	31,000	3,500	22,000	26,000		PACE		
8/31/2000		51.07	21.97		29.10	200,000	16,000	26,000	2,500	16,000	38,000		PACE		
12/11/2000		51.07	22.05		29.02	130,000	18,600	30,000	3,250	20,600	21,700		PACE		
3/20/2001		51.07	17.75		33.32	140,000	15,900	24,800	3,700	22,100	12,900		PACE		
6/19/2001		51.07	20.15		30.92	130,000	15,100	19,500	3,300	21,400	20,300		PACE		
9/20/2001		51.07	22.14		28.93	110,000	12,400	12,600	2,230	13,000	39,500		PACE		
12/27/2001		51.07	18.17		32.90	150,000	17,500	26,000	3,050	19,500	27,500		PACE		
2/28/2002		51.07	17.42		33.65	120,000	13,900	18,800	3,030	19,600	17,300		PACE		
6/28/2002		51.07	17.04		34.03	3,700	190	23.3	139	287	826		PACE		u
9/12/2002		51.07	19.52		31.55	100,000	13,000	22,000	3,600	20,000	18,000		SEQ	6.6	
12/12/2002		51.07	21.08		29.99	120,000	13,000	21,000	4,400	25,000	16,000		SEQ	6.6	
3/10/2003		51.07	17.84		33.23	100,000	17,000	21,000	3,400	20,000	4,400		SEQ	6.8	
5/12/2003		51.07	16.66		34.41	150,000	16,000	24,000	3,500	22,000	3,600		SEQ	7.1	
8/27/2003		51.07	19.65		31.42	120,000	14,000	12,000	3,900	20,000	5,100		SEQ	6.9	n
11/10/2003	P	51.07	20.80		30.27	97,000	12,000	9,500	3,600	15,000	4,200		SEQM	6.7	
02/03/2004	P	51.07	16.82		34.25	130,000	14,000	19,000	3,400	20,000	1,900		SEQM	6.8	
05/04/2004	P	51.07	16.19		34.88	120,000	12,000	16,000	3,700	22,000	2,500		SEQM	6.7	
08/31/2004	P	51.07	19.50		31.57	99,000	10,000	13,000	3,700	18,000	3,400		SEQM	6.8	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level										
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
MW-2 Cont.															
11/23/2004	P	51.07	18.20		32.87	110,000	8,200	17,000	4,000	23,000	2,400		SEQM	6.7	S
01/18/2005	P	51.07	14.91		36.16	96,000	6,500	14,000	3,500	21,000	3,700		SEQM	6.6	
06/29/2005	P	51.07	13.98		37.09	54,000	6,200	4,900	3,300	12,000	3,600		SEQM	7.3	
09/01/2005	P	51.07	17.00		34.07	58,000	6,300	6,000	3,300	15,000	5,100		SEQM	7.0	
11/03/2005	P	51.07	20.25		30.82	63,000	7,400	3,700	3,300	10,000	3,700	0.66	SEQM	6.7	
02/14/2006	P	51.07	13.72		37.35	97,000	7,500	11,000	4,300	16,000	3,400		SEQM	6.9	
5/30/2006	P	51.07	13.50		37.57	28,000	5,200	2,500	1,500	3,300	2,300		SEQM	6.7	
8/29/2006		51.07	18.16		32.91	65,000	7,200	4,500	3,200	11,000	13,000		TAMC	6.7	
11/29/2006	P	51.07	20.06		31.01	46,000	8,500	4,600	3,300	10,000	11,000	0.56	TAMC	6.91	
2/20/2007	P	51.07	16.43		34.64	78,000	9,700	12,000	4,100	16,000	10,000	1.08	TAMC	7.11	
5/25/2007	P	51.07	16.80	SHEEN	34.27	62,000	7,400	9,500	4,100	15,000	3,400	0.10	TAMC	6.83	
8/9/2007	P	51.07	19.55	SHEEN	31.52	58,000	7,400	5,000	3,800	12,000	4,100	0.72	TAMC	7.01	
11/9/2007	P	51.07	21.53		29.54	49,000	6,300	3,300	2,900	8,300	9,500	1.05	TAMC	7.10	
MW-3															
1/5/1992		49.95	33.69		16.26	7,400	790	23	210	40					
1/10/1992		49.95	33.74		16.21										
6/5/1992		49.95	29.65		20.30	2,000	130	5.3	93	20					
7/24/1992		49.95	30.14		19.81										
7/27/1992		49.95	30.14		19.81										
9/15/1992		49.95	31.07		18.88	450	55	3.1	34	7.1			ANA		
12/15/1992		49.95	31.93		18.02	12,000	940	<50	310	120			ANA		С
3/15/1993		49.95	25.71		24.24	< 50	< 0.5	< 0.5	< 0.5	< 0.5			PACE		1
6/7/1993		49.95	25.80		24.15	150	3.6	< 0.5	0.9	1.3			PACE		1
9/23/1993		49.95	29.18		20.77										
9/24/1993		49.95				160	8.4	< 0.5	3.7	1.3	15.3		PACE		1
12/27/1993		49.95	29.25		20.70	9,400	1,100	48	530	120	2,871		PACE		e,l
4/5/1994		49.95	26.84		23.11	7,000	860	19	330	52	10,414	2.0	PACE		1
7/22/1994		49.95	26.90		23.05	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<5.0	2.1	PACE		1
		49.95	27.83		22.12	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<5.0	2.6	PACE		1

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		TOC	Depth to	Product	Water Level			Concentra	ations in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
MW-3 Cont.															
1/25/1995		49.95	21.65		28.30	< 50	< 0.5	< 0.5	< 0.5	<1			ATI		
4/19/1995		49.95	19.33		30.62	2,400	170	8	130	27		5.0	ATI		
7/5/1995		49.95	20.27		29.68	< 50	< 0.50	< 0.50	< 0.50	<1.0		4.4	ATI		
10/5/1995		49.95	23.73		26.22	2,300	210	3.1	10	5.1	2,400	4.2	ATI		
1/12/1996		49.95	24.84		25.11	< 50	< 0.50	< 0.50	< 0.50	<1.0	< 5.0	4.1	ATI		
4/22/1996		49.95	18.60		31.35	< 50	< 0.5	<1	<1	<1	<10	4.4	SPL		
7/2/1996		49.95	18.88		31.07	< 50	< 0.5	<1	<1	<1	<10	4.2	SPL		
11/8/1996		49.95	19.14		30.81	< 50	< 0.5	<1.0	<1.0	<1.0	<10	4.4	SPL		
1/3/1997		49.95	18.72		31.23	< 50	< 0.5	<1.0	<1.0	<1.0	<10	4.6	SPL		
4/28/1997		49.95	19.38		30.57	< 50	< 0.5	<1.0	<1.0	<1.0	<10	4.2	SPL		
7/1/1997		49.95	21.65		28.30	< 50	< 0.5	<1.0	<1.0	<1.0	<10	3.8	SPL		
10/2/1997		49.95	23.45		26.50	< 50	< 0.5	<1.0	<1.0	<1.0	<10	4.5	SPL		
1/9/1998		49.95	20.10		29.85	< 50	< 0.5	<1.0	<1.0	<1.0	<10	4.1	SPL		
5/6/1998		49.95	15.57		34.38	< 50	< 0.5	<1.0	<1.0	<1.0	<10	3.8	SPL		
7/21/1998		49.95	15.88		34.07	51	< 0.5	<1.0	<1.0	<1.0	<10	3.8	SPL		
7/21/1998						60	< 0.5	<1.0	<1.0	<1.0	<10		SPL		d
12/30/1998		49.95	20.30		29.65								SPL		
2/2/1999		49.95	19.75		30.20	< 50	<1.0	<1.0	<1.0	<1.0	<10		SPL		
5/10/1999		49.95	16.17		33.78										
9/23/1999		49.95	22.05		27.90										
12/23/1999		49.95	22.55		27.40										
3/27/2000		49.95	16.40		33.55	350	22	< 0.5	< 0.5	< 0.5	580		PACE		
5/22/2000		49.95	9.49		40.46										t
8/31/2000		49.95	13.02		36.93										t
12/11/2000		49.95	13.30		36.65										t
3/20/2001		49.95	16.49		33.46	1,000	66.4	0.597	6.96	<1.5	398		PACE		
6/19/2001		49.95	18.82		31.13										
9/20/2001		49.95	21.59		28.36	230	< 0.5	0.593	< 0.5	<1.5	289		PACE		
12/27/2001		49.95	17.37		32.58										
2/28/2002		49.95	15.81		34.14	< 50	< 0.5	< 0.5	< 0.5	<1.0	0.58		PACE		

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level	Concentrations in (μg/L)									
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
MW-3 Cont.															
6/28/2002		49.95	17.09		32.86										
9/12/2002		49.95	18.80		31.15	52	3.3	8.6	1.7	12	11		SEQ	7.0	
12/12/2002		49.95	20.57		29.38										
3/10/2003		49.95	16.68		33.27	< 50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5		SEQ	7.0	
5/12/2003		49.95	14.72	-	35.23										
8/27/2003		49.95	18.50		31.45	< 50	< 0.50	< 0.50	< 0.50	0.5	< 0.50			7.1	n
11/10/2003		49.95	19.66	-	30.29										
02/03/2004	P	49.95	15.33		34.62	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		SEQM	7.0	
08/31/2004	P	49.95	18.13	-	31.82	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		SEQM	7.1	
11/23/2004		49.95	16.48		33.47										
01/18/2005	P	49.95	13.06		36.89	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		SEQM	6.9	
06/29/2005		49.95	13.00		36.95										
09/01/2005		49.95	16.00		33.95										
11/03/2005		49.95	18.91		31.04										
02/14/2006	P	49.95	12.90		37.05	86	< 0.50	< 0.50	< 0.50	0.55	< 0.50		SEQM	7.3	
5/30/2006		49.95	12.55		37.40										
8/29/2006		49.95	16.68		33.27										
11/29/2006		49.95	19.10		30.85										
2/20/2007	P	49.95	15.29		34.66	56	< 0.50	< 0.50	< 0.50	< 0.50	0.89	2.27	TAMC	7.59	
5/25/2007		49.95	15.94		34.01										
8/9/2007		49.95	18.70		31.25										
11/9/2007		49.95	20.27		29.68										
12/14/2007		37.56	20.21		17.35										Z
MW-4															
7/24/1992		50.76	30.02		20.74	42,000	3,200	3,600	1,400	4,100					
7/27/1992		50.76	30.02		20.74										
9/15/1992		50.76	31.14		19.62	55,000	7,600	13,000	2,800	9,500			ANA		c
12/15/1992		50.76	31.98		18.78	36,000	3,700	4,700	1,200	4,000			ANA		c
3/15/1993		50.76	25.34		25.42	69,000	7,600	15,000	2,500	11,000			PACE		1

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level	Level Concentrations in (µg/L)									
Well and		Elevation	Water	Thickness	Elevation	GRO/		Concentra	Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
MW-4 Cont.															
6/7/1993		50.76	25.67		25.09	73,000	10,000	19,000	3,400	14,000			PACE		1
9/23/1993		50.76	29.37		21.39										
9/24/1993						59,000	5,300	10,000	2,200	8,400	309		PACE		d
9/24/1993		50.76				68,000	11,000	2,100	8,600	990	390		PACE		1
12/27/1993		50.76	29.40		21.36	32,000	2,500	4,400	1,300	4,400	387		PACE		1
4/5/1994		50.76	27.09		23.67	64,000	6,500	14,000	1,900	9,600	413	1.4	PACE		1
7/22/1994		50.76	27.33		23.43	85,000	10,000	20,000	3,200	13,000	796	0.8	PACE		1
7/22/1994						85,000	11,000	21,000	3,300	14,000	435		PACE		d, 1
10/13/1994						51,000	7,400	13,000	2,100	9,100	773		PACE		d, 1
10/13/1994		50.76	28.25		22.51	51,000	7,100	13,000	2,100	8,900	506	2.9	PACE		e,l
1/25/1995						28,000	4,200	12,000	1,500	7,800			ATI		d, 1
1/25/1995		50.76	21.85		28.91	26,000	3,600	9,600	1,200	6,400			ATI		
4/19/1995						100,000	12,000	26,000	3,800	21,000			ATI		d
4/19/1995		50.76	19.44		31.32	89,000	12,000	24,000	3,500	18,000		5.1	ATI		
7/5/1995		50.76	20.52		30.24	130,000	13,000	29,000	3,300	25,000		4.3	ATI		
10/5/1995		50.76	24.23		26.53	110,000	10,000	23,000	3,600	17,000	34,000	2.1	ATI		
1/12/1996		50.76	25.34		25.42	46,000	3,500	8,300	1,100	8,000	3,000	3.3	ATI		
1/12/1996						40,000	3,500	9,000	1,200	8,700	4,300		ATI		d
4/22/1996						61,000	8,300	16,000	1,600	15,200	36,000		SPL		d
4/22/1996		50.76	19.13		31.63	40,000	5,100	9,600	980	11,800	29,000	3.2	SPL		
7/2/1996						78,000	9,800	21,000	1,900	15,300	42,000		SPL		d
7/2/1996		50.76	20.67		30.09	74,000	9,800	21,000	2,100	16,600	41,000	3.4	SPL		
11/8/1996						110,000	9,100	20,000	3,000	15,400	39,000		SPL		d
11/8/1996		50.76	20.95		29.81	100,000	7,900	16,000	2,500	13,700	37,000	3.7	SPL		
1/3/1997						66,000	12,000	19,000	2,900	15,000	69,000		SPL		d
1/3/1997		50.76	20.54		30.22	99,000	17,000	30,000	4,300	22,700	79,000	4.2	SPL		
4/28/1997						110,000	11,000	26,000	3,200	18,200	34,000		SPL		d
4/28/1997		50.76	21.28		29.48	130,000	12,000	28,000	3,800	21,000	37,000	3.9	SPL		
7/1/1997		50.76	23.61		27.15	110,000	16,000	25,000	4,900	24,400	37,000	3.6	SPL		
10/2/1997		50.76	25.39		25.37										

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level			Concentra	ations in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
MW-4 Cont.															
10/3/1997						71,000	8,600	8,700	2,900	13,500	84,000		SPL		d
10/3/1997		50.76				66,000	8,200	8,600	2,700	13,400	80,000	4.4	SPL		
1/9/1998		50.76	21.25		29.51	100,000	9,700	3,200	1,500	4,700	92,000	3.8	SPL		
5/6/1998						440,000	8,000	39,000	14,000	70,000	<5000		SPL		d
5/6/1998		50.76	15.96		34.80	430,000	6,900	31,000	11,000	56,000	<5000	3.9	SPL		
7/21/1998						210,000	11,000	27,000	5,600	26,800	29,000		SPL		d
7/21/1998		50.76	16.10		34.66	250,000	11,000	26,000	5,500	26,900	29,000	3.7	SPL		
12/30/1998		50.76	20.91		29.85	370,000	11,000	22,000	8,500	40,000	90000/92000		SPL		j
2/2/1999		50.76	20.13		30.63	190,000	4,100	19,000	4,800	32,000	28,000		SPL		
5/10/1999		50.76	16.63		34.13	2,700	23	7.1	8.1	25	120		SPL		
9/23/1999		50.76	22.48		28.28	180,000	11,000	29,000	7,000	38,000	12,000		SPL		
12/23/1999		50.76	22.94		27.82	66,000	6,300	5,200	2,200	7,800	35,000		PACE		k
3/27/2000		50.76	16.84		33.92	120,000	8,700	12,000	3,800	16,000	27,000		PACE		
5/22/2000		50.76	17.85		32.91	110,000	7,600	16,000	4,400	20,000	25,000		PACE		
8/31/2000		50.76	21.71		29.05	110,000	8,800	7,600	3,400	14,000	18,000		PACE		
12/11/2000		50.76	22.05		28.71	70,000	4,580	3,480	2,550	9,220	24,400		PACE		
3/20/2001		50.76	17.68		33.08	100,000	7,100	4,530	2,540	9,370	63,100		PACE		
6/19/2001		50.76	19.40		31.36	180,000	7,430	14,600	5,400	25,300	36,100		PACE		
9/20/2001		50.76	22.01	0.03	28.75										f, m
12/27/2001		50.76	17.96		32.80	120,000	6,880	9,030	2,840	14,600	32,300		PACE		
2/28/2002		50.76	17.06		33.70	80,000	4,920	5,450	2,220	12,300	35,900		PACE		
6/28/2002		50.76	17.76		33.00	48,000	2,780	2,770	1,530	6,790	25,100		PACE		
9/12/2002		50.76	19.45		31.31	46,000	4,500	6,800	2,600	10,000	9,100		SEQ	6.8	
12/12/2002		50.76	21.29		29.47	36,000	5,200	3,400	2,000	6,500	12,000		SEQ	6.7	
3/10/2003		50.76	17.16		33.60	70,000	7,000	4,800	3,300	13,000	29,000		SEQ	6.7	
5/12/2003		50.76	14.51		36.25	75,000	7,600	3,700	3,400	13,000	26,000		SEQ	6.8	
8/27/2003		50.76	19.32		31.44	77,000	7,500	1,300	2,100	4,000	32,000		SEQ	6.8	n, s
11/10/2003	P	50.76	20.36		30.40	110,000	7,100	3,100	2,100	5,800	25,000		SEQM	6.6	
02/03/2004	P	50.76	16.51		34.25	160,000	8,400	9,700	5,000	23,000	26,000		SEQM	6.7	
05/04/2004	P	50.76	16.47		34.29	110,000	8,100	7,500	4,300	17,000	<250		SEQM	6.7	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		TOC	Depth to	Product	Water Level		I	Concentra		,					
Well and	DAID	Elevation	Water	Thickness	Elevation	GRO/		m 1	Ethyl-	Total	MODE	DO		**	<b>G</b>
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
MW-4 Cont.															
08/31/2004	P	50.76	19.16		31.60	91,000	6,600	8,400	3,700	14,000	14,000		SEQM	6.7	
11/23/2004	P	50.76	18.02		32.74	7,400,000	20,000	150,000	320,000	1,400,000	23,000		SEQM	6.6	S
01/18/2005	P	50.76	14.21		36.55	170,000	5,400	14,000	6,900	33,000	8,800		SEQM	6.5	S
06/29/2005	P	50.76	13.86		36.90	640,000	3,500	25,000	24,000	110,000	1,700		SEQM	7.2	
09/01/2005	P	50.76	16.89		33.87	100,000	3,800	11,000	4,900	33,000	1,100		SEQM	6.7	
11/03/2005	P	50.76	19.33		31.43	490,000	4,700	11,000	10,000	49,000	1,500	0.5	SEQM	6.6	
02/14/2006	P	50.76	13.55		37.21	970,000	60,000	7,000	36,000	140,000	38,000		SEQM	6.8	S
5/30/2006	P	50.76	13.52		37.24	140,000	3,000	6,600	6,200	29,000	560		SEQM	6.6	
8/29/2006		50.76	17.52		33.24	52,000	4,700	2,500	3,500	12,000	1,800		TAMC	6.7	
11/29/2006		50.76	19.93	0.11	30.91										f
2/20/2007	P	50.76	16.14	SHEEN	34.62	68,000	8,400	2,600	4,100	13,000	15,000	1.03	TAMC	6.95	
5/25/2007	P	50.76	16.65	SHEEN	34.11	37,000	5,100	1,200	2,800	6,900	3,500	1.13	TAMC	6.82	
8/9/2007	P	50.76	19.29		31.47	180,000	5,600	7,700	5,700	21,000	2,900	0.72	TAMC	7.02	y (XYLENES)
11/9/2007	P	50.76	21.27	SHEEN	29.49	110,000	3,300	2,400	3,600	13,000	1,200	0.73	TAMC	7.07	S
12/14/2007		38.35	21.10		17.25						-				Z
MW-6															
7/24/1992		50.32	30.63		19.69		1.6								
7/27/1992		50.32	30.63		19.69										
9/15/1992		50.32	31.52		18.80	<50	< 0.5	< 0.5	< 0.5	<0.5			ANA		
12/15/1992		50.32	32.42		17.90	58	1.3	< 0.5	< 0.5	<0.5			ANA		
3/15/1993		50.32	26.29		24.03	<50	< 0.5	0.6	< 0.5	0.7			PACE		1
6/7/1993		50.32	26.33		23.99	<50	< 0.5	< 0.5	< 0.5	1.5			PACE		1
9/23/1993		50.32	29.64		20.68										
9/24/1993		50.32				< 50	<0.5	<0.5	<0.5	<0.5	28.5		PACE		1
12/27/1993		50.32	29.75		20.57	< 50	< 0.5	< 0.5	< 0.5	< 0.5	55.4		PACE		e,l
4/5/1994		50.32	27.26		23.06	<50	< 0.5	< 0.5	< 0.5	< 0.5	295	1.7	PACE		e,l
7/22/1994		50.32	27.34		22.98	350	< 0.5	< 0.5	< 0.5	<0.5	419	4.5	PACE		e,l
10/13/1994		50.32													g
1/25/1995		50.32	22.16		28.16	240	6	< 0.5	< 0.5	<1			ATI		

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	D 41.4	D . 1 . 4	XV. 4 T I	Level Concentrations in (µg/L)									
Well and		Elevation	Depth to Water	Product Thickness	Water Level Elevation	GRO/		Concentra	Ethyl-	g/L) Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
MW-6 Cont.															
4/19/1995		50.32													g
7/5/1995		50.32	20.80		29.52	180	< 0.50	< 0.50	< 0.50	<1.0		4.9	ATI		
10/5/1995		50.32	24.20		26.12	860	<5.0	<5.0	<5.0	<10	3,600	2.8	ATI		
1/12/1996		50.32	25.30		25.02	860	< 5.0	<5.0	< 5.0	<10	2,800	4.2	ATI		
4/22/1996		50.32	19.13		31.19	< 50	< 0.5	<1	<1	<1	470	4.3	SPL		
7/2/1996		50.32	20.66		29.66	100	< 0.5	<1	<1	<1	1,100	4.2	SPL		
11/8/1996		50.32	20.98		29.34	1,100	<5	<10	<10	<10	1,500	4.3	SPL		
1/3/1997		50.32	20.53		29.79	< 50	< 0.5	<1.0	<1.0	<1.0	450	4.5	SPL		
4/28/1997		50.32	21.25		29.07	1,400	< 0.5	<1.0	<1.0	<1.0	3,500	4.4	SPL		
7/1/1997		50.32	23.40		26.92	6,100	< 0.5	<1.0	<1.0	<1.0	9,100	3.9	SPL		
10/2/1997		50.32	25.16		25.16										
10/3/1997		50.32				330	< 0.5	<1.0	<1.0	<1.0	2,600	4.4	SPL		
1/9/1998		50.32	21.13		29.19	< 50	< 0.5	<1.0	<1.0	<1.0	<10	4.3	SPL		
5/6/1998		50.32	16.11		34.21	410	< 0.5	<1.0	<1.0	<1.0	500	3.6	SPL		
7/21/1998		50.32	16.33		33.99	4,300	<5	<10	<10	<10	3,800	4.0	SPL		
12/30/1998		50.32	20.89		29.43										
2/2/1999		50.32	20.20		30.12										
5/10/1999		50.32	16.75		33.57										
9/23/1999		50.32	22.55		27.77	< 50	<1.0	<1.0	<1.0	<1.0	1,600		SPL		
12/23/1999		50.32	23.00		27.32										
3/27/2000		50.32	16.89		33.43	1,700	4.4	0.54	< 0.5	1	14,000		PACE		
5/22/2000		50.32	18.02		32.30										
8/31/2000		50.32	21.62		28.70	1,200	< 0.5	< 0.5	< 0.5	< 0.5	3,900		PACE		
12/11/2000		50.32	21.81		28.51										
3/20/2001		50.32	16.97		33.35	3,300	< 0.5	< 0.5	< 0.5	<1.5	3,760		PACE		
6/19/2001		50.32	19.30		31.02										
9/20/2001		50.32	22.00		28.32	2,200	2.04	8.1	3.62	13.7	2,460		PACE		
12/27/2001		50.32	17.85		32.47	830	0.59	< 0.5	< 0.5	<1.0	1,040		PACE		
2/28/2002		50.32	16.31		34.01	1,100	< 0.5	< 0.5	< 0.5	<1.0	1,450		PACE		
6/28/2002		50.32	17.57		32.75	< 50	< 0.5	< 0.5	< 0.5	<1.0	1,020		PACE		

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

Well and		TOC	Depth to	Product	Water Level	GRO/	1	Concentra	ations in (µ			DO			
Sample Date	P/NP	Elevation (feet msl)	Water (feet bgs)	Thickness (feet)	Elevation (feet msl)	TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	(mg/L)	Lab	pН	Comments
	1/111	(rect msi)	(leet bgs)	(Icct)	(rect msi)	11 IIg	Delizene	Totache	Denzene	zyjenes	MIDE	(IIIg/L)	Lab	pii	Comments
MW-6 Cont.															
9/12/2002		50.32	19.27		31.05	190	1.9	4.6	1	7.3	480		SEQ	7.1	
12/12/2002		50.32	20.94		29.38	270	<2.5	<2.5	<2.5	<2.5	500		SEQ	6.9	
3/10/2003		50.32	17.11	-	33.21	110	< 0.50	< 0.50	< 0.50	< 0.50	190		SEQ	7.0	
5/12/2003		50.32	15.18		35.14	< 50	< 0.50	< 0.50	< 0.50	< 0.50	36		SEQ	7.0	
8/27/2003		50.32	18.90		31.42	< 50	< 0.50	< 0.50	< 0.50	< 0.50	8.9		SEQ	7.0	n
11/10/2003	P	50.32	20.13		30.19	< 50	< 0.50	< 0.50	< 0.50	< 0.50	4.5		SEQM	6.8	
02/03/2004	NP	50.32	15.83		34.49	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		SEQM	6.9	
05/04/2004	P	50.32	15.62		34.70	< 50	< 0.50	< 0.50	< 0.50	< 0.50	24		SEQM	6.9	
08/31/2004	P	50.32	18.56		31.76	< 50	< 0.50	< 0.50	< 0.50	< 0.50	27		SEQM	7.0	
11/23/2004		50.32	16.95		33.37										
01/18/2005	P	50.32	13.61		36.71	< 50	< 0.50	< 0.50	< 0.50	< 0.50	1.3		SEQM	6.8	
06/29/2005		50.32	13.55		36.77										
09/01/2005		50.32	16.52		33.80										
11/03/2005		50.32	19.28		31.04										
02/14/2006		50.32													g
5/30/2006		50.32													g
8/29/2006		50.32	17.15		33.17										
11/29/2006		50.32	19.50		30.82										
2/20/2007	P	50.32	15.81		34.51	< 50	< 0.50	< 0.50	< 0.50	< 0.50	24	1.59	TAMC	7.60	
5/25/2007		50.32	16.38		33.94										
8/9/2007		50.32	19.15		31.17										
11/9/2007		50.32	20.70		29.62										
12/14/2007															Unable to survey
MW-7															
1/25/1995		51.40	21.67		29.73	<50	< 0.5	< 0.5	< 0.5	<1		7.0	ATI		
4/19/1995		51.40	25.27		26.13	<50	< 0.5	< 0.5	< 0.5	<1		5.0	ATI		
7/5/1995		51.40	24.63		26.77	<50	< 0.50	< 0.50	< 0.50	<1.0		4.2	ATI		
10/5/1995		51.40	28.21		23.19	83	< 0.50	< 0.50	< 0.50	<1.0	77	4.5	ATI		
1/12/1996		51.40	29.29		22.11	63	< 0.50	< 0.50	< 0.50	<1.0	120	4.8	ATI		

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		TOC	Depth to	Product	Water Level	ano.	1	Concentra	ations in (µ						
Well and Sample Date	P/NP	Elevation (feet msl)	Water (feet bgs)	Thickness (feet)	Elevation (feet msl)	GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	DO (mg/L)	Lab	pН	Comments
Sample Date	F/INF	(leet liist)	(leet bgs)	(leet)	(leet msi)	ITIIg	Delizene	Totale	Delizelle	Aylelles	WIIDE	(IIIg/L)	Lau	pm	Comments
MW-7 Cont.															
4/22/1996		51.40	23.11		28.29	<50	< 0.5	<1	<1	<1	13	4.8	SPL		
7/2/1996		51.40	23.56		27.84	< 50	< 0.5	<1	<1	<1	<10	4.8	SPL		
11/8/1996		51.40	20.06		31.34	<50	< 0.5	<1.0	<1.0	<1.0	<10	5.1	SPL		
1/3/1997		51.40	23.42		27.98	< 50	< 0.5	<1.0	<1.0	<1.0	<10	4.7	SPL		
4/28/1997		51.40	24.12		27.28	<50	< 0.5	<1.0	<1.0	<1.0	<10	3.9	SPL		
7/1/1997		51.40	26.40		25.00	< 50	< 0.5	<1.0	<1.0	<1.0	<10	4.2	SPL		
10/2/1997		51.40	28.14		23.26	<50	< 0.5	<1.0	<1.0	<1.0	<10	4.7	SPL		
1/9/1998		51.40	24.02		27.38	< 50	< 0.5	<1.0	<1.0	<1.0	<10	4.1	SPL		
5/6/1998		51.40	21.00		30.40	1,900	< 0.5	<1.0	<1.0	<1.0	1,800	3.5	SPL		
7/21/1998		51.40	21.17		30.23	50	< 0.5	<1.0	<1.0	<1.0	<10	3.7	SPL		
12/30/1998		51.40	22.13		29.27										
2/2/1999		51.40	22.08		29.32										
5/10/1999		51.40	18.58		32.82										
9/23/1999		51.40	24.29		27.11	70	<1.0	<1.0	<1.0	<1.0	4,700		SPL		
12/23/1999		51.40	24.53		26.87										
3/27/2000		51.40	18.58		32.82	910	< 0.5	< 0.5	< 0.5	< 0.5	2,600		PACE		
5/22/2000		51.40	19.49		31.91										
8/31/2000		51.40	22.53		28.87	440	< 0.5	< 0.5	< 0.5	< 0.5	900		PACE		
12/11/2000		51.40	22.75		28.65										
3/20/2001		51.40	18.79		32.61	1,100	< 0.5	< 0.5	< 0.5	<1.5	1,210		PACE		
6/19/2001		51.40	19.82		31.58										
9/20/2001		51.40	21.35		30.05	1,300	1.21	< 0.5	< 0.5	<1.5	1,550		PACE		
12/27/2001		51.40	20.36		31.04	510	<0.5	<0.5	< 0.5	<1.0	643		PACE		
2/28/2002		51.40	21.86		29.54	250	< 0.5	< 0.5	< 0.5	<1.0	317		PACE		
6/28/2002		51.40	22.64		28.76	<50	<0.5	<0.5	<0.5	<1.0	102		PACE		
9/12/2002		51.40	23.51		27.89	< 50	< 0.5	< 0.5	< 0.5	1	14		SEQ	7.5	
12/12/2002		51.40	23.75		27.65	<50	<0.5	<0.5	<0.5	<0.5	<2.5		SEQ	7.5	
3/10/2003		51.40	21.25		30.15	61	< 0.50	< 0.50	< 0.50	< 0.50	99		SEQ	7.6	
5/12/2003		51.40	21.44		29.96	<100	<1.0	<1.0	<1.0	<1.0	120		SEQ	7.6	
8/27/2003		51.40	23.30		28.10	120	< 0.50	< 0.50	< 0.50	< 0.50	84		SEQ	7.6	n

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level			Concentra	ntions in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
MW-7 Cont.															
11/10/2003	P	51.40	20.24		31.16	230	<1.0	<1.0	<1.0	<1.0	92		SEQM	6.7	0
02/03/2004	P	51.40	20.63		30.77	<250	<2.5	<2.5	<2.5	<2.5	91		SEQM	7.5	
05/04/2004	P	51.40	21.89		29.51	<250	<2.5	<2.5	<2.5	<2.5	190		SEQM	7.6	k
08/31/2004	P	51.40	23.16		28.24	< 500	< 5.0	< 5.0	< 5.0	< 5.0	220		SEQM	7.3	
11/23/2004	P	51.40	21.65	-	29.75	590	<2.5	5.0	11	51	290		SEQM	7.1	
01/18/2005	P	51.40	16.28		35.12	<250	<2.5	<2.5	<2.5	2.5	92		SEQM	7.3	
06/29/2005	P	51.40	14.50	-	36.90	2,200	43	97	92	390	250		SEQM	8.0	
09/01/2005	P	51.40	20.41		30.99	< 500	< 5.0	< 5.0	< 5.0	< 5.0	60		SEQM	7.5	
11/03/2005	P	51.40	21.00	-	30.40	130	<1.0	<1.0	<1.0	1.0	130	0.63	SEQM	7.2	W
02/14/2006	P	51.40	16.31		35.09	100	< 0.50	< 0.50	< 0.50	0.87	62		SEQM	7.4	
5/30/2006	P	51.40	17.58		33.82	< 50	< 0.50	< 0.50	< 0.50	< 0.50	9.1		SEQM	7.2	
8/29/2006		51.40	18.64		32.76	100	<2.5	<2.5	<2.5	<2.5	140		TAMC	7.0	
11/29/2006	P	51.40	20.35		31.05	84	<2.5	<2.5	<2.5	<2.5	190	3.06	TAMC	7.65	
2/20/2007	P	51.40	17.09		34.31	160	<2.5	<2.5	<2.5	<2.5	170	1.77	TAMC	7.66	W
5/25/2007	P	51.40	17.20		34.20	70	<1.0	<1.0	<1.0	<1.0	93	1.13	TAMC	7.41	w
8/9/2007	P	51.40	19.95		31.45	< 50	< 0.50	< 0.50	< 0.50	< 0.50	42	1.94	TAMC	7.55	
11/9/2007	P	51.40	23.28		28.12	61	<0.50	<0.50	< 0.50	1.3	71	2.13	TAMC	8.57	
12/14/2007		38.99	23.07		15.92										z
MW-8															
1/25/1995		50.88	31.59		19.29	54	< 0.5	< 0.5	< 0.5	<1		7.1	ATI		
4/19/1995		50.88	19.18		31.70	< 50	< 0.5	< 0.5	< 0.5	<1		5.1	ATI		
7/5/1995		50.88	19.03		31.85	< 50	< 0.50	< 0.50	< 0.50	<1.0		4.5	ATI		
10/5/1995		50.88	24.40		26.48	< 50	< 0.50	< 0.50	< 0.50	<1.0	< 5.0	4.1	ATI		
1/12/1996		50.88	25.51		25.37	< 50	< 0.50	< 0.50	< 0.50	<1.0	< 5.0	4.6	ATI		
4/22/1996		50.88	18.00		32.88	< 50	<0.5	<1	<1	<1	<10	4.8	SPL		
7/2/1996		50.88	19.83		31.05	< 50	< 0.5	<1	<1	<1	<10	4.5	SPL		
11/8/1996		50.88	20.09		30.79	< 50	<0.5	<1.0	<1.0	<1.0	<10	4.7	SPL		
1/3/1997		50.88	19.72		31.16	< 50	< 0.5	<1.0	<1.0	<1.0	<10	4.4	SPL		
4/28/1997		50.88	20.44		30.44	<50	<0.5	<1.0	<1.0	<1.0	<10	4.1	SPL		

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level			Concentre	ations in (µ	σ/I )					
Well and		Elevation	Water	Thickness	Elevation	GRO/		Concentra	Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	ТРНд	Benzene	Toluene		Xylenes	MTBE	(mg/L)	Lab	pН	Comments
MW-8 Cont.															
7/1/1997		50.88	22.72		28.16	< 50	< 0.5	<1.0	<1.0	<1.0	<10	3.8	SPL		
10/2/1997		50.88	24.51		26.37	< 50	< 0.5	<1.0	<1.0	<1.0	<10	4.2	SPL		
1/9/1998		50.88	21.17		29.71	< 50	< 0.5	<1.0	<1.0	<1.0	<10	3.5	SPL		
5/6/1998		50.88	18.34		32.54	< 50	< 0.5	<1.0	<1.0	<1.0	<10	3.6	SPL		
7/21/1998		50.88	18.55		32.33	90	< 0.5	<1.0	<1.0	<1.0	<10	3.3	SPL		
12/30/1998		50.88	20.40		30.48										
2/2/1999		50.88	19.28		31.60										
5/10/1999		50.88	15.62		35.26										
9/23/1999		50.88	21.74		29.14										
12/23/1999		50.88	22.83		28.05										
3/27/2000		50.88	16.25		34.63	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		PACE		
5/22/2000		50.88	17.06		33.82										
8/31/2000		50.88	21.72		29.16										
12/11/2000		50.88	22.03		28.85										
3/20/2001		50.88	16.23		34.65	< 50	< 0.5	< 0.5	< 0.5	<1.5	0.991		PACE		
6/19/2001		50.88	19.35		31.53										
9/20/2001		50.88	21.95		28.93										
12/27/2001		50.88	16.98		33.90										
2/28/2002		50.88	15.38		35.50	< 50	< 0.5	< 0.5	< 0.5	<1.0	< 0.5		PACE		
6/28/2002		50.88	16.97		33.91										
9/12/2002		50.88	19.47		31.41										
12/12/2002		50.88	20.84		30.04										
3/10/2003		50.88	16.56		34.32	< 50	< 0.50	< 0.50	< 0.50	< 0.50	3		SEQ	7.1	
5/12/2003		50.88	13.63		37.25										
8/27/2003		50.88	18.90		31.98										n
11/10/2003		50.88	19.68		31.20										
02/03/2004	P	50.88	14.76		36.12	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		SEQM	7.5	
05/04/2004		50.88	14.69		36.19										
08/31/2004		50.88	18.08		32.80										
11/23/2004	NP	50.88	15.77		35.11										

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		TOC	Depth to	Product	Water Level			Concentra	tions in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
MW-8 Cont.															
01/18/2005	P	50.88	12.04		38.84	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		SEQM	7.0	
06/29/2005		50.88													V
09/01/2005		50.88	16.12		34.76										
11/03/2005		50.88	19.42		31.46										
02/14/2006	P	50.88	12.43		38.45	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		SEQM	7.0	
5/30/2006		50.88	12.40		38.48										
8/29/2006		50.88	17.16		33.72										
11/29/2006		50.88	19.35		31.53										
2/20/2007	P	50.88	14.57		36.31	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.28	TAMC	7.65	
5/25/2007		50.88	16.11		34.77										
8/9/2007		50.88	19.25		31.63										
11/9/2007		50.88	20.92		29.96										
12/14/2007		38.44	21.26		17.18										z
MW-9															
1/25/1995		51.05	22.32		28.73	< 50	< 0.5	< 0.5	< 0.5	<1		7.4	ATI		
4/19/1995		51.05	19.86		31.19	< 50	< 0.5	< 0.5	< 0.5	<1		5.2	ATI		
7/5/1995		51.05	20.78		30.27	< 50	< 0.50	< 0.50	< 0.50	<1.0		4.4	ATI		
10/5/1995						52	< 0.50	< 0.50	< 0.50	<1.0	160		ATI		d
10/5/1995		51.05	24.33		26.72	< 50	< 0.50	< 0.50	< 0.50	<1.0		2.3	ATI		
1/12/1996		51.05	25.44		25.61	< 50	< 0.50	< 0.50	< 0.50	<1.0	< 5.0	3.2	ATI		
4/22/1996		51.05	18.01		33.04	< 50	< 0.5	<1	<1	<1	11	3.5	SPL		
7/2/1996		51.05	19.70		31.35	< 50	< 0.5	<1	<1	<1	<10	3.3	SPL		
11/8/1996		51.05	19.96		31.09	< 50	< 0.5	<1.0	<1.0	<1.0	<10	3.7	SPL		
1/3/1997		51.05	19.52		31.53	<250	<2.5	< 5.0	< 5.0	< 5.0	< 50	4.4	SPL		
4/28/1997		51.05	20.22		30.83	< 50	< 0.5	<1.0	<1.0	<1.0	<10	4.0	SPL		
7/1/1997		51.05	22.59		28.46	< 50	< 0.5	<1.0	<1.0	<1.0	<10	3.9	SPL		
10/2/1997		51.05	24.33		26.72										
10/3/1997		51.05				< 50	< 0.5	<1.0	<1.0	<1.0	<10	4.4	SPL		
1/9/1998		51.05	21.11		29.94	< 50	< 0.5	<1.0	<1.0	<1.0	<10	3.9	SPL		

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level			Concentre	ntions in (µ	α/I )					
Well and		Elevation	Water	Thickness	Elevation	GRO/		Concentra	Ethyl-	g/L) Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene		Xylenes	MTBE	(mg/L)	Lab	pН	Comments
MW-9 Cont.															
5/6/1998		51.05	18.26		32.79	<50	<0.5	<1.0	<1.0	<1.0	<10	4.0	SPL		
7/21/1998		51.05	18.46		32.59	70	<0.5	<1.0	<1.0	<1.0	<10	3.7	SPL		
12/30/1998		51.05													g
2/2/1999		51.05													g
5/10/1999		51.05													g
9/23/1999		51.05													g
12/23/1999		51.05													g
3/27/2000		51.05													g
5/22/2000		51.05													g
8/31/2000		51.05													g
12/11/2000		51.05													g
3/20/2001		51.05													g
6/19/2001		51.05													g
9/20/2001		51.05	22.20		28.85	6,300	2.87	< 0.5	< 0.5	<1.5	8,640		PACE		
12/27/2001		51.05	18.92		32.13										
2/28/2002		51.05	17.22		33.83	19,000	1,560	61.3	84	111	20,200		PACE		
6/28/2002		51.05	18.20		32.85										
9/12/2002		51.05	19.92		31.13	5,100	570	180	<25	220	6,400		SEQ	6.8	
12/12/2002		51.05	21.78	-	29.27					-					
3/10/2003		51.05	18.25		32.80	26,000	2,500	<100	<100	<100	33,000		SEQ	6.9	
5/12/2003		51.05	16.29		34.76								SEQ		
8/27/2003		51.05	19.69		31.36	11,000	830	<50	<50	< 50	6,300		SEQ	7.1	n
11/10/2003		51.05	19.97		31.08										
02/03/2004	P	51.05	17.23		33.82	6,200	180	<50	<50	<50	2,100		SEQM	7.2	
05/04/2004		51.05	17.17		33.88										
08/31/2004	P	51.05	19.71		31.34	<2,500	210	<25	<25	<25	1,500		SEQM	7.0	
11/23/2004		51.05	18.58		32.47										
01/18/2005	P	51.05	14.98		36.07	490	32	<2.5	<2.5	8.9	130		SEQM	6.9	
06/29/2005		51.05	14.74		36.31										
09/01/2005	P	51.05	17.42		33.63	3,500	1,300	<25	<25	28	240		SEQM	6.9	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

No.   Control   P/NP   Control   C																	
Sample Date   PNP   (feet msl)   (feet bgs)   (feet bgs)   (feet msl)   (feet msl)   TPHg   Benzene   Toluene   Benzene   Xylenes   MTBE   (mg/L)   Lab   pH   CO						I			Concentra		~~~	Water Level	Product	Depth to	TOC		
MW-9 Cont.	omments	Comme	ъП	Lab	_	MTDE			Toluono	Donzono						D/NID	
11/03/2005	minents	Comme	рп	Lau	(IIIg/L)	MIIDE	Aylenes	Delizelle	Toluelle	Delizelle	irng	(feet filst)	(leet)	(leet bgs)	(reet msr)	P/NP	
02/14/2006 P 51.05 12.95 38.10 2.700 <25 <25 <25 <25 <2.200 SEQM 7.0  \$5/30/2006 51.05 13.76 37.29																	MW-9 Cont.
Si30/2006     Si.05   13.76     37.29												31.15		19.90	51.05		11/03/2005
8/2/2006        51.05       17.86        33.19       1,200       580       <25	w	w	7.0	SEQM		2,200	<25	<25	<25	<25	2,700	38.10		12.95	51.05	P	02/14/2006
11/29/2006 51.05												37.29		13.76	51.05		5/30/2006
2/20/2007   P   51.05   16.91     34.14   780   66   1.5   2.0   1.4   3.2   2.66   TAMC   7.93			6.9	TAMC		<25	<25	<25	<25	580	1,200	33.19		17.86	51.05		8/29/2006
\$5/25/2007          \$1.05         17.28          33.77 <td></td> <td>30.80</td> <td></td> <td>20.25</td> <td>51.05</td> <td></td> <td>11/29/2006</td>												30.80		20.25	51.05		11/29/2006
89/2007       P       51.05       19.71        31.34       650       150       <0.50			7.93	TAMC	2.66	3.2	1.4	2.0	1.5	66	780	34.14		16.91	51.05	P	2/20/2007
11/9/2007          51.05         21.62          29.43												33.77		17.28	51.05		5/25/2007
12/14/2007        38.63       21.66        16.97                                 800       <0.5			7.58	TAMC	1.07	1.4	2.0	< 0.50	< 0.50	150	650	31.34		19.71	51.05	P	8/9/2007
MW-10  1/9/1998 20.97 <50 <0.5 <1.0 <1.0 <1.0 <1.0 <10 4.3 SPL  5/6/1998 18.07 800 <0.5 <1.0 <1.0 <1.0 <1.0 980 3.9 SPL  7/21/1998 18.28 80 <0.5 <1.0 <1.0 <1.0 <1.0 <10 4.0 SPL  12/30/1998 22.22  2/2/1999 21.83 940 <10 <10 <10 <10 <10 690 SPL  5/10/1999 17.99 <50 <1.0 <1.0 <1.0 <1.0 1.4 1,000 SPL  12/23/1999 23.75 <50 <1.0 <1.0 <1.0 <1.0 1.4 1,000 SPL  3/27/2000 18.83 1.900 <0.5 <0.5 <0.5 <0.5 <0.5 28,000 PACE  5/22/2000 19.47												29.43		21.62	51.05		11/9/2007
1/9/1998         20.97         <50	Z	Z										16.97		21.66	38.63		12/14/2007
5/6/1998         18.07        800       <0.5       <1.0       <1.0       <1.0       980       3.9       SPL          7/21/1998         18.28         80       <0.5       <1.0       <1.0       <1.0       <1.0       4.0       SPL          12/30/1998         22.22   <																	MW-10
7/21/1998         18.28         80       <0.5	h	h		SPL	4.3	<10	<1.0	<1.0	<1.0	< 0.5	<50			20.97			1/9/1998
12/30/1998         22.22 <td>h</td> <td>h</td> <td></td> <td>SPL</td> <td>3.9</td> <td>980</td> <td>&lt;1.0</td> <td>&lt;1.0</td> <td>&lt;1.0</td> <td>&lt; 0.5</td> <td>800</td> <td></td> <td></td> <td>18.07</td> <td></td> <td></td> <td>5/6/1998</td>	h	h		SPL	3.9	980	<1.0	<1.0	<1.0	< 0.5	800			18.07			5/6/1998
2/2/1999         21.83         940       <10	h	h		SPL	4.0	<10	<1.0	<1.0	<1.0	< 0.5	80			18.28			7/21/1998
5/10/1999         17.99	h	h												22.22			12/30/1998
9/23/1999         22.61         <50	h	h		SPL		690	<10	<10	<10	<10	940			21.83			2/2/1999
12/23/1999 23.75	h	h												17.99			5/10/1999
3/27/2000       18.83       1,900     <0.5	h	h		SPL		1,000	1.4	<1.0	<1.0	<1.0	<50			22.61			9/23/1999
5/22/2000       19.47  <	h	h												23.75			12/23/1999
8/31/2000 22.64 1,700 <0.5 <0.5 <0.5 13,000 PACE 12/11/2000 22.84	h	h		PACE		28,000	< 0.5	<0.5	< 0.5	<0.5	1,900			18.83			3/27/2000
12/11/2000 22.84	h	h												19.47			5/22/2000
	h	h		PACE		13,000	< 0.5	<0.5	< 0.5	<0.5	1,700			22.64			8/31/2000
200,0001	h	h												22.84			12/11/2000
3/20/2001 19.57 16,000 < 0.5   < 0.5   < 0.5   < 1.5   11,900     PACE	h	h		PACE		11,900	<1.5	<0.5	< 0.5	<0.5	16,000			19.57			3/20/2001
6/19/2001 20.63	h	h												20.63			6/19/2001
9/20/2001 23.07 5,800 <0.5 <0.5 <0.5 <1.5 8,160 PACE	h	h		PACE		8,160	<1.5	<0.5	<0.5	<0.5	5,800			23.07			9/20/2001
12/27/2001 20.92 6,600 17.3 14.5 <12.5 <25 7,750 PACE	h	h		PACE		7,750	<25	<12.5	14.5	17.3	6,600			20.92			12/27/2001
2/28/2002 18.52 3,600 10.8 <0.5 <0.5 <1.0 5,380 PACE	h	h		PACE		5,380	<1.0	<0.5	<0.5	10.8	3,600			18.52			2/28/2002
6/28/2002 18.41 <50 <0.5 <0.5 <0.5 <1.0 2,570 PACE	h	h		PACE		2,570	<1.0	< 0.5	< 0.5	< 0.5	<50			18.41			6/28/2002

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		TOC	Depth to	Product	Water Level			Concentra	ations in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
MW-10 Cont.															
9/12/2002			20.57			660	<5.0	<5.0	<5.0	< 5.0	3,300		SEQ	7.2	h
12/12/2002			22.80			1,400	< 5.0	< 5.0	< 5.0	< 5.0	3,300		SEQ	6.9	h
3/10/2003			19.26			1,700	<5.0	<5.0	5.3	15	2,800		SEQ	6.9	h
5/12/2003			17.90			1,500	<12	<12	<12	<12	2,200		SEQ	6.9	h
8/27/2003			20.82			4,100	<25	<25	<25	<25	2,800		SEQ	7.0	n, h
11/10/2003	P		21.92			<5,000	<50	<50	<50	< 50	3,300		SEQM	6.8	
02/03/2004	P		18.52			5,100	<50	<50	<50	<50	2,300		SEQM	7.0	q
05/04/2004	P		17.63			<2,500	<25	<25	<25	<25	1,600		SEQM	6.8	
08/31/2004	P		20.67			<5,000	<50	< 50	<50	<50	1,900		SEQM	7.0	
11/23/2004	P		19.79			2,600	<25	<25	<25	<25	2,300		SEQM	6.8	
01/18/2005	P		16.13			560	<5.0	<5.0	<5.0	<5.0	530		SEQM	6.9	
06/29/2005	P		15.56			110	1.9	4.6	4.2	17	71		SEQM	6.8	
09/01/2005	P		18.10			<250	<2.5	<2.5	<2.5	<2.5	280		SEQM	6.9	
11/03/2005	P		20.90			800	< 5.0	< 5.0	< 5.0	7.0	770	0.71	SEQM	6.8	w
02/14/2006	P		15.58			600	< 0.50	< 0.50	< 0.50	< 0.50	400		SEQM	7.1	X
5/30/2006	P		14.70			95	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		SEQM	6.7	
8/29/2006			18.69			250	<5.0	<5.0	<5.0	<5.0	490		TAMC	6.8	
11/29/2006	P		21.35			650	< 5.0	< 5.0	< 5.0	< 5.0	1,400	0.89	TAMC	7.19	w
2/20/2007	P		18.65			720	<5.0	<5.0	<5.0	<5.0	850	1.19	TAMC	7.32	
5/25/2007	P		18.15			130	< 0.50	< 0.50	< 0.50	< 0.50	170	0.51	TAMC	7.00	w
8/9/2007	P		20.83			970	<10	<10	<10	<10	1,600	0.74	TAMC	7.24	
11/9/2007	P		22.53			1,100	<10	<10	<10	13	1,600	1.83	TAMC	7.31	
12/14/2007		40.45	22.62		17.83										z
MW-11															
12/14/2007		37.64	20.16		17.48	8,000	<10	72	230	760	<10	1.66	TAMC		z
QC-2															
9/15/1992						<50	<0.5	<0.5	<0.5	<0.5			ANA		i
12/15/1992						<50	< 0.5	< 0.5	< 0.5	< 0.5			ANA		i
3/15/1993						< 50	< 0.5	< 0.5	< 0.5	< 0.5			PACE		i, 1

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level			Concentra	ntions in (µ	g/L)					
Well and Sample Date	P/NP	Elevation (feet msl)	Water (feet bgs)	Thickness (feet)	Elevation (feet msl)	GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	DO (mg/L)	Lab	pН	Comments
QC-2 Cont.															
6/7/1993						< 50	< 0.5	< 0.5	< 0.5	< 0.5			PACE		i, 1
9/24/1993						< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0		PACE		i, l
12/27/1993						< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0		PACE		i, 1
4/5/1994						< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0		PACE		i, 1
7/22/1994						< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0		PACE		i, 1
10/13/1994						< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0		PACE		i, 1
1/25/1995						< 50	< 0.5	2	0.6	1			ATI		i
4/19/1995						< 50	< 0.5	< 0.5	< 0.5	< 0.5			ATI		i
7/5/1995						< 50	< 0.50	< 0.50	< 0.50	<1.0			ATI		i
10/5/1995						< 50	< 0.50	< 0.50	< 0.50	<1.0	< 5.0		ATI		i
1/12/1996						< 50	< 0.50	< 0.50	< 0.50	<1.0	< 5.0		ATI		i
4/22/1996						< 50	< 0.5	<1	<1	<1	<10		SPL		i
7/2/1996						<50	< 0.5	<1	<1	<1	<10		SPL		i

#### ABBREVIATIONS AND SYMBOLS:

- < = Not detected at or laboratory reporting limit
- --- = Not analyzed/applicable/measurable
- $\mu g/L = Micrograms per liter$
- ANA = Anamatrix, Inc.
- ATI = Analytical Technologies, Inc.
- DO = Dissolved oxygen
- DTW = Depth to water in ft bgs
- ft bgs = Feet below ground surface
- ft MSL = Feet above mean sea level
- GRO = Gasoline range organics
- GWE = Groundwater elevation in ft MSL
- mg/L = Milligrams per liter
- MTBE = Methyl tert butyl ether
- NP = Well not purged prior to sampling
- P = Well purged prior to sampling
- PACE = Pace, Inc.
- SEQ/SEQM = Sequoia/Sequoia Morgan Hill Analytical
- SPL = Southern Petroleum Laboratories
- TOC = Top of casing in ft MSL
- TPH-g = Total petroleum hydrocarbons as gasoline

#### FOOTNOTES:

- c = Concentrations reported as diesel from MW-1, MW-2 and MW-4 are primarily due to the presence of a lighter petroleum product, possibly gasoline or kerosene.
- d = Blind duplicate.
- e = A copy of the documentation for this data is included in Appendix C of Alisto report 10-018-05-004.
- f = Well not sampled due to presence of free product (FP).
- g = Well inaccessible.
- h = TOC not surveyed.
- i = Travel blank.
- j = EPA method by  $8020 \setminus 8260$ .
- k =Samples ran outside of EPA recommended hold time.
- 1 = A copy of the documentation for this data can be found in Blaine Tech Services report 010619-C-2. The MTBE data for the March 15, 1993 and June 7, 1993 events have been destroyed.
- m = Thickness of SPH is only an estimate. The resulting GWE will not be used in contouring.
- n = Samples analyzed by EPA Method 8260B for TPH-g, benzene, toluene, ethylbenzene, total xylenes, and fuel oxygenates.
- o = Discrete peak @ C6-C7.
- q = Discrete peak @ C5-C6.
- r = Well was dry.
- s =Sheen in well.
- t = DTW and resulting GWE were anomalous and not used in groundwater contouring.
- u = Anomalously low concentrations reported from Cambria. Do not appear to support historic trends.
- v = Unable to locate well.
- w = The hydrocarbon result for GRO was partly due to individual peaks in the quantitation range.
- x = Initial analysis for MTBE within holding time but required dilution.
- y = Sample > 4x spike concentration.
- z = Site resurveyed on 3 December 2007.

#### NOTES

Casing elevations surveyed to the nearest 0.01 ft MSL.

GWE adjusted assuming a specific gravity of 0.75 for FP.

During the third quarter of 2002, URS Corporation assumed groundwater monitoring activities for BP.

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g was changed to GRO. The resulting data may be impacted by the potential of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported.

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

Values for pH and DO are field measurements.

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

## Table 2. Summary of Fuel Additives Analytical Data Station #11117, 7210 Bancroft Ave., Oakland, CA

Well and				Concentrati	ons in (µg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
DPE-1									
12/14/2007	<300	1,300	28	<0.50	3.4	<0.50	<0.50	<0.50	
	<b>\300</b>	1,500	20	<b>\0.50</b>	3.4	<b>\0.50</b>	<b>\0.50</b>	<b>~0.50</b>	
DPE-2									
12/14/2007	<300	<20	0.71	<0.50	<0.50	<0.50	<0.50	< 0.50	
DPE-3									
12/14/2007	<15,000	1,700	770	<25	<25	<25	<25	<25	
DPE-4									
	200 000	-20.000	0.000	-E00	<b>.5</b> 00	-E00	.500	. <b>5</b> 00	
12/14/2007	<300,000	<20,000	8,000	<500	<500	<500	<500	<500	
DPE-5									
12/14/2007	<300,000	<20,000	16,000	<500	<500	<500	<500	< 500	
EX-1									
05/04/2004	<5,000	<1,000	2,500	<25	<25	38	<25	<25	
08/31/2004	<10,000	<2,000	2,100	< 50	<50	<50	<50	< 50	
11/23/2004	<5,000	<1,000	3,000	<25	<25	74	<25	<25	
01/18/2005	<5,000	<1,000	2,200	<25	<25	54	<25	<25	a
06/29/2005	<5,000	<1,000	1,400	<25	<25	30	<25	<25	
09/01/2005	<5,000	<1,000	2,000	<25	<25	46	<25	<25	
11/03/2005	<5,000	<1,000	3,000	<25	<25	87	<25	<25	
02/14/2006	<15,000	<1,000	1,100	<25	<25	<25	<25	<25	a
5/30/2006	<15,000	<1,000	1,400	<25	<25	37	<25	<25	a
8/29/2006	<15,000	<1,000	2,500	<25	<25	56	<25	<25	
11/29/2006	<30,000	<2,000	2,700	<50	<50	75	<50	< 50	
2/20/2007	<30,000	<2,000	920	< 50	< 50	< 50	< 50	< 50	
5/25/2007	<30,000	<2,000	890	< 50	< 50	< 50	<50	< 50	
8/9/2007	<6,000	440	530	<10	<10	15	<10	<10	
11/9/2007	<15,000	1,900	370	<25	<25	<25	<25	<25	
EX-2									
05/04/2004	<100	<20	46	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
08/31/2004	< 500	<100	130	<2.5	<2.5	3.4	<2.5	<2.5	

Table 2. Summary of Fuel Additives Analytical Data Station #11117, 7210 Bancroft Ave., Oakland, CA

Well and				Concentrati	ons in (µg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
EX-2 Cont.									
11/23/2004	<100	<20	5.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
01/18/2005	<100	<20	6.5	<0.50	<0.50	<0.50	< 0.50	< 0.50	a
06/29/2005	<100	<20	24	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
09/01/2005	<100	<20	55	< 0.50	< 0.50	0.56	< 0.50	< 0.50	
11/03/2005	<100	<20	39	< 0.50	< 0.50	0.80	< 0.50	< 0.50	
02/14/2006	<300	<20	0.72	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	a
5/30/2006	<300	<20	7.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
8/29/2006	<300	<20	94	< 0.50	< 0.50	0.98	< 0.50	< 0.50	
11/29/2006	<300	<20	4.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2/20/2007	<300	<20	12	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
5/25/2007	<300	<20	10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
8/9/2007	<300	<20	27	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
11/9/2007	<300	<20	140	<0.50	<0.50	<0.50	< 0.50	< 0.50	
MW-1									
8/27/2003	<100	<20	4.2	< 0.50	< 0.50	< 0.50			
11/10/2003	<100	<20	0.51	< 0.50	< 0.50	< 0.50			
02/03/2004	<100	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
05/04/2004	<100	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
08/31/2004	<100	<20	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
01/18/2005	<100	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	a
02/14/2006	<300	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	a
2/20/2007	<300	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
MW-2									
8/27/2003	<25,000	<5,000	5,100	<120	<120	140			
11/10/2003	<50,000	<10,000	4,200	<250	<250	<250			
02/03/2004	<100,000	<20,000	1,900	< 500	< 500	< 500	< 500	< 500	
05/04/2004	<50,000	<10,000	2,500	<250	<250	<250	<250	<250	
08/31/2004	<50,000	<10,000	3,400	<250	<250	<250	<250	<250	
11/23/2004	<50,000	<10,000	2,400	<250	<250	<250	<250	<250	
01/18/2005	<20,000	<4,000	3,700	<100	<100	<100	<100	<100	a

Table 2. Summary of Fuel Additives Analytical Data Station #11117, 7210 Bancroft Ave., Oakland, CA

Well and				Concentration	ons in (µg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
MW-2 Cont.									
06/29/2005	<10,000	<2,000	3,600	<50	<50	72	<50	<50	
09/01/2005	<20,000	<4,000	5,100	<100	<100	100	<100	<100	
11/03/2005	<20,000	<4,000	3,700	<100	<100	100	<100	<100	
02/14/2006	<60,000	<4,000	3,400	<100	<100	<100	<100	<100	a
5/30/2006	<60,000	<4,000	2,300	<100	<100	<100	<100	<100	
8/29/2006	<60,000	<4,000	13,000	<100	<100	100	<100	<100	
11/29/2006	<75,000	<5,000	11,000	<120	<120	120	<120	<120	
2/20/2007	<60,000	<4,000	10,000	<100	<100	<100	<100	<100	
5/25/2007	<120,000	<8,000	3,400	<200	<200	<200	<200	<200	
8/9/2007	<60,000	<4,000	4,100	<100	<100	<100	<100	<100	
11/9/2007	<60,000	<4,000	9,500	<100	<100	<100	<100	<100	
MW-3									
8/27/2003	<100	<20	< 0.50	< 0.50	< 0.50	< 0.50			
02/03/2004	<100	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
08/31/2004	<100	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
01/18/2005	<100	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	a
02/14/2006	<300	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	a
2/20/2007	<300	<20	0.89	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
MW-4									
8/27/2003	<50,000	<10,000	32,000	<250	<250	250			
11/10/2003	<100,000	<20,000	25,000	< 500	< 500	< 500			
02/03/2004	<100,000	<20,000	26,000	< 500	< 500	< 500	< 500	< 500	
05/04/2004	<50,000	<10,000	<250	<250	<250	<250	<250	<250	
08/31/2004	<50,000	<10,000	14,000	<250	<250	<250	<250	<250	
11/23/2004	<500,000	<100,000	23,000	<2,500	<2,500	<2,500	<2,500	<2,500	
01/18/2005	<50,000	<10,000	8,800	<250	<250	<250	<250	<250	a
06/29/2005	<50,000	<10,000	1,700	<250	<250	<250	<250	<250	
09/01/2005	<100,000	<20,000	1,100	< 500	< 500	< 500	< 500	< 500	
11/03/2005	<100,000	<20,000	1,500	< 500	< 500	< 500	< 500	< 500	
02/14/2006	<300,000	<20,000	38,000	<500	<500	1,000	<500	< 500	a

Table 2. Summary of Fuel Additives Analytical Data Station #11117, 7210 Bancroft Ave., Oakland, CA

Well and				Concentration	ons in (µg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
MW-4 Cont.									
5/30/2006	<300,000	<20,000	560	< 500	< 500	< 500	< 500	< 500	
8/29/2006	<300,000	<20,000	1,800	< 500	< 500	< 500	< 500	< 500	
2/20/2007	<150,000	<10,000	15,000	<250	<250	<250	<250	<250	
5/25/2007	<120,000	<8,000	3,500	<200	<200	<200	<200	<200	
8/9/2007	<60,000	4,100	2,900	<100	<100	<100	<100	<100	
11/9/2007	<60,000	5,700	1,200	<100	<100	<100	<100	<100	
MW-6									
8/27/2003	<100	<20	8.9	< 0.50	< 0.50	< 0.50			
11/10/2003	<100	<20	4.5	< 0.50	< 0.50	< 0.50			
02/03/2004	<100	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	a
05/04/2004	<100	<20	24	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
08/31/2004	<100	<20	27	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
01/18/2005	<100	<20	1.3	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	a
2/20/2007	<300	<20	24	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
MW-7									
8/27/2003	<100	<20	84	< 0.50	< 0.50	< 0.50			
11/10/2003	<200	<40	92	<1.0	<1.0	<1.0			
02/03/2004	< 500	<100	91	<2.5	<2.5	<2.5	<2.5	<2.5	
05/04/2004	< 500	<100	190	<2.5	<2.5	<2.5	<2.5	<2.5	
08/31/2004	<1,000	<200	220	<5.0	<5.0	<5.0	<5.0	< 5.0	
11/23/2004	< 500	<100	290	<2.5	<2.5	<2.5	<2.5	<2.5	
01/18/2005	< 500	<100	92	<2.5	<2.5	<2.5	<2.5	<2.5	a
06/29/2005	< 500	<100	250	<2.5	<2.5	<2.5	<2.5	<2.5	
09/01/2005	<1,000	<200	60	<5.0	<5.0	<5.0	<5.0	< 5.0	
11/03/2005	<200	<40	130	<1.0	<1.0	<1.0	<1.0	<1.0	
02/14/2006	<300	<20	62	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	a
5/30/2006	<300	<20	9.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
8/29/2006	<1,500	<100	140	<2.5	<2.5	<2.5	<2.5	<2.5	
11/29/2006	<1,500	<100	190	<2.5	<2.5	<2.5	<2.5	<2.5	
2/20/2007	<1,500	<100	170	<2.5	<2.5	<2.5	<2.5	<2.5	

Table 2. Summary of Fuel Additives Analytical Data Station #11117, 7210 Bancroft Ave., Oakland, CA

Well and				Concentration	ons in (ug/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
MW-7 Cont.									
5/25/2007	<600	<40	93	<1.0	<1.0	<1.0	<1.0	<1.0	
8/9/2007	<300	<20	42	<0.50	<0.50	<0.50	<0.50	<0.50	
11/9/2007	<300	<20	71	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-8									
	100	20	0.70	0.70	0.70	0.50	0.50	0.70	
02/03/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
01/18/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
02/14/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
2/20/2007	<300	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
MW-9									
8/27/2003	<10,000	<2,000	6,300	<50	<50	<50			
02/03/2004	<10,000	<2,000	2,100	<50	<50	<50	<50	< 50	a
08/31/2004	<5,000	<1,000	1,500	<25	<25	<25	<25	<25	
01/18/2005	< 500	150	130	<2.5	<2.5	<2.5	<2.5	<2.5	a
09/01/2005	<5,000	2,700	240	<25	<25	<25	<25	<25	
02/14/2006	<15,000	<1,000	2,200	<25	<25	<25	<25	<25	a
8/29/2006	<15,000	2,100	<25	<25	<25	<25	<25	<25	
2/20/2007	<600	380	3.2	<1.0	<1.0	<1.0	<1.0	<1.0	
8/9/2007	<300	790	1.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
MW-10									
8/27/2003	<5,000	<1,000	2,800	<25	<25	<25			
11/10/2003	<10,000	<2,000	3,300	<50	<50	<50			
02/03/2004	<10,000	<2,000	2,300	<50	<50	<50	<50	< 50	a
05/04/2004	<5,000	<1,000	1,600	<25	<25	<25	<25	<25	
08/31/2004	<10,000	<2,000	1,900	<50	<50	<50	<50	<50	
11/23/2004	<5,000	<1,000	2,300	<25	<25	<25	<25	<25	
01/18/2005	<1,000	<200	530	<5.0	<5.0	<5.0	<5.0	< 5.0	a
06/29/2005	<100	<20	71	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
09/01/2005	< 500	<100	280	<2.5	<2.5	<2.5	<2.5	<2.5	
11/03/2005	<1,000	<200	770	<5.0	<5.0	<5.0	<5.0	< 5.0	
02/14/2006	<300	34	400	< 0.50	< 0.50	1.2	< 0.50	< 0.50	a, b

Table 2. Summary of Fuel Additives Analytical Data Station #11117, 7210 Bancroft Ave., Oakland, CA

Well and				Concentration	ons in (µg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
MW-10 Cont.									
5/30/2006	<300	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
8/29/2006	<3,000	<200	490	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
11/29/2006	<3,000	<200	1,400	< 5.0	< 5.0	5.8	<5.0	< 5.0	
2/20/2007	<3,000	<200	850	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
5/25/2007	<300	<20	170	< 0.50	< 0.50	0.69	< 0.50	< 0.50	
8/9/2007	<6,000	<400	1,600	<10	<10	<10	<10	<10	
11/9/2007	<6,000	<400	1,600	<10	<10	<10	<10	<10	
MW-11									
12/14/2007	<6,000	<400	<10	<10	<10	<10	<10	<10	

### ABBREVIATIONS AND SYMBOLS:

- -- = Not analyzed/applicable/measurable
- < = Not detected above reported detection limit

1,2-DCA = 1,2-Dichloroethane

 $\mu g/L \ = \ Micrograms \ per \ Liter$ 

DIPE = Di-isopropyl ether

EDB = 1, 2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

#### FOOTNOTES:

a = The continuing calibration verficiation for ethanol was outside of client contractual acceptance limits. However, it was within method acceptance limits. The data should still be useful for its intended purpose.

b = Initial analysis for MTBE within holding time but required dilution.

### NOTES:

All volatile organic compounds analyzed using EPA Method 8260B.

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

Table 3. Historical Ground-Water Flow Direction and Gradient Station #11117, 7210 Bancroft Ave., Oakland, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient			
9/12/2002	Northeast	0.03			
12/12/2002	Northeast	0.02			
3/10/2003	Northeast	0.03			
5/12/2003	North-Northeast	0.055			
8/27/2003	North-Northeast	0.036			
11/10/2003	North-Northeast	0.012			
2/3/2004	Northeast	0.013			
5/4/2004	Northeast	0.015			
8/31/2004	Northeast	0.010			
11/23/2004	North-Northeast	0.04			
1/18/2005	Northeast	0.02			
6/29/2005	Variable	0.003, 0.006			
9/1/2005	North	0.03			
11/3/2005	North	0.008			
2/14/2006	North-Northeast	0.02			
5/30/2006	North	0.03			
8/29/2006	Northeast	0.006			
11/29/2006	West, Southeast	0.002, 0.001			
2/20/2007	Northeast	0.004			
5/25/2007	North	0.005			
8/9/2007	Northwest	0.002			
11/9/2007	North	0.02			
12/14/2007	Southwest, Southeast	0.005, 0.003			

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

## APPENDIX A

# STRATUS WELL INSTALLATION DATA PACKAGE

(Includes Field Data Sheets, Lithologic Boring Logs, Well Construction Logs, Surveying Data, Well Development Data, Initial Well Sampling Data, and Laboratory Analytical Reports with Chain-of-Custody Documentation)



January 9, 2008

Mr. Tom Venus Broadbent & Associates, Inc. 1324 Mangrove Avenue Chico, California 95926

Re: Well Installation Data Package, Former BP Service Station No. 11117, located at 7210 Bancroft Avenue, Oakland, California (assessment activities performed between November 12 and November 21, 2007)

## **General Information**

Data Submittal Prepared / Reviewed by: Collin Fischer and Scott Bittinger / Jay Johnson Phone Number: (530) 676-2062 / (530) 676-6000

Date: November 5, 2007 Arrival: 07:45 Departure: 11:15

On-Site Supplier Representative: Collin Fischer

Scope of Work Performed: Health and safety meeting. Locate utilities with utility locating subcontractor.

Variations from Work Scope: None noted.

Weather Conditions: Sunny, clear Unusual Field Conditions: None noted

Date: November 12, 2007 Arrival: 07:30 Departure: 16:00

On-Site Supplier Representative: Collin Fischer

Scope of Work Performed: Health and safety meeting. Clear 3 boring locations to 5' bgs with air knife.

*Variations from Work Scope:* The location of well DPE-5 will be modified (based on location of underground utilities and discussion with scoping contractor). MW-12 will not be installed.

Weather Conditions: Sunny, clear Unusual Field Conditions: None noted

Date: November 13, 2007 Arrival: 06:15 Departure: 16:45

On-Site Supplier Representative: Collin Fischer

Scope of Work Performed: Health and safety meeting. Clear 3 boring locations to 5' bgs with air

knife.

Variations from Work Scope: None noted

Weather Conditions: Sunny, clear Unusual Field Conditions: None noted

Date: November 14, 2007 Arrival: 06:30 Departure: 09:15

On-Site Supplier Representative: Collin Fischer

Scope of Work Performed: Health and safety meeting. Clear 1 boring to 5' bgs with air knife.

Variations from Work Scope: None noted

Weather Conditions: Sunny, clear Unusual Field Conditions: None noted

Date: November 19, 2007 Arrival: 07:00 Departure: 17:00

On-Site Supplier Representative: Collin Fischer and David Demello

Scope of Work Performed: Health and safety meeting. Installed 2 extraction wells (DPE-1 and

DPE-4) and destroyed 1 monitoring well (MW-2) by overdrilling.

Variations from Work Scope: None noted

Weather Conditions: Partly cloudy Unusual Field Conditions: None noted

Date: November 20, 2007 Arrival: 07:30 Departure: 17:00

On-Site Supplier Representative: Collin Fischer and David Demello

Scope of Work Performed: Health and safety meeting. Installed 1 extraction well and 1

monitoring well (DPE-3 and MW-11). *Variations from Work Scope*: None noted

Weather Conditions: Sunny, clear Unusual Field Conditions: None noted

 Date: November 21, 2007
 Arrival: 07:00
 Departure: 17:30

On-Site Supplier Representative: Collin Fischer and David Demello

Scope of Work Performed: Health and safety meeting. Installed 2 extraction wells (DPE-2 and

DPE-5).

Variations from Work Scope: None noted

Weather Conditions: Sunny, clear Unusual Field Conditions: None noted

This submittal presents the tabulation of data collected in association with the installation of 5 DPE wells and one monitoring well. The attachments include field data sheets, boring logs, drilling permit, site plan, chain of custody documentation and certified analytical results. The information is being provided to BP-ARCO's Scoping Supplier for use in preparing a report for regulatory submittal. This submittal is limited to presentation of collected data and does not include data interpretation or conclusions or recommendations. Any questions concerning this submittal should be addressed to the Preparer/Reviewer identified above.

Sincerely,

Sitt

STRATUS ENVIRONMENTAL, INC.

Scott Bittinger Project Geologist

Attachments:

- Field Data Sheets
- Boring Logs
- DWR well completion & destruction forms

Scott G. Bittinger

No. 7477

- Site Plan
- Drilling Permit
- Site Survey Plot Plan
- Chain-of-Custody Documentation
- Certified Analytical Results

Cc: Paul Supple, BP/Arco

Jay R. Johnson, P.G.

STRATUS

# ARCO 11117 - Colla Fischer

OFUS ONSOTE, WALT FOR CRUZ BRETHERS, GRET PHONE CALL, THEY WILL

DOGIS CRUZ BROTHURES PROPERS 1-25 Hours have, SAFETY MEETING

JUST LOCATE UTILITIES DE BEATIONS, NO GRE, (EX-1 ALICEMOS) WASHIELD)?

Who ollows

lufi

STRATUS ROW- NC

USH THEST 40 417214 EFF DATES 12/3/07 DATE CAMBRIC 1/5/07

# ARCO IIII7 - Collin Fisinger

0730 ONSUTE

0800 WOODWHED HERWES, SAFETS MEETING, SITE WHILE

0900 START ON DPE-1

1045 DREI CHARLED TO 5' Bys, MOVE TO & STURT MEN-11

NOW SMAN NATUR OF EVEN (CARST) ROUD ON 3.5-41 BGS IN MANN-11 ticle was origined brusen to INVESTIGATE the FUNDING IN the Person when to see private Classes TO 51 Bgs.

1230 moon to MW-12, Start MW-12, Potal Supple Accord

1240 Ros Milliam From Brandsent Arewes

BOON MW-12, clam to 5° & PATCH

1445 DONE W/ NEW-12, Chamme, & JACKHARIUME DPE-3

1515 Clear

1600 ofesita

STRATUS ENU., INC.

Pacty clouds survey

# ARCO WILT -COMIN FISCAME

0615 ONSUTE

6645 WOOD WARD HELWES, SAPER MERTING, Fill ut there cal the

6700 BEGIN WORK, ON DPE-4 (Farance MW-2)

ALIR KNURR & WSTALL 5' CONDUCTOR CASING.

0930 pan out of the FOR the KNIFE, FILLUR

6950 PROVINCE WORK ON DRE-4

1145 DONCE W/ DRE-4, 5' COMMONDE INSTANLED, MOVE TO DPE-5

1445 some of DRE-5 none to DPE-2

1615 Dave of DRE-2 fatter #2 Marie Tool DRE-3

Clauser

1645 CREUTE

STANTUS RAW- WC.

Muloz Sunny Clame

# ARCO 1117 - Colla Fischure

Obso orsure

0700 WOODWARD AMMURS, SARRED MARTING

0715 START ON DRES

0850 (Commy to 5' Bos.

0900 Cliens UP, PATCH

0915 OPPSWE.

STRATUS ENU- INC.

PARTY Clocupa 40/19/14

ARCO MIT-COMO FISCHER
DAVID DE MENO

0760 ONSITE

0900

WOODWAND APRILES, SAPETY MEETING, SUTEWALK 0810 SET up

N-390 NO

, START PRILLING

Overdell 2" well to 45' Bgs

INSTALL YOU WELL TO 40' BOS

1015 WELL

SET W 401

SAMD 45,-131 Seprow 40'-15'
Briton 410'-15'
Coment 10'-0'

1200 DREON

Auguns

& MOUR TO DPE-1

1240 STHUT Derling

1400 well

Sout a 401

40-13

Scarew 40 -15 Bar B - 10

Great 0-0

1515 STANK MILIND

Flotes

of court

Clear

Augens

1545 Grow

SHOW WELL

(100d)

Cheminal

1700

Ollsur

SIMPUS GAV., INC.

Scury Clear Medoz

# ARCO 11117 - Collar Fischer DAVID DAVID DAVIELLO

OGSO START BRILLING MW-11

130 DRIVED TO 40"

1200 SET WEN @ 401

Screen 40-65 Sand 40-13 BENT 13-60 Grang W-0

+ Gio Atreno GIVEN By Alamena courts to GREAT.

1300 Move to DPE-3, SET UP

1320 STAIT DRUNG DIE-3

1500 Discher to 40'

1515 SET WELL @ 401

165 Cleans

1700 OPESOTE

38-13 SCAREN 355 SUNP 55 40-19 ISENT 11-8 Green 8-0

STRATUS ENU., INC.

ARCO IIII 7-Callan fishing
6700 onsire, Safery mietro SET MP ON DPE-Z.
0745 STANT DIMING, Exclusion SET MP ON DPE-Z.
0830 STANT SAMPLING.
6945 DIMING TO 40 SET WELL SCHOOL 40-15
LINT 18-10
CAME TREON ANGURS, CLEWIR, SET BOYES
6000 NOON TO DRE-5

120 Nove to DRE-5
120 STAN DULING

MOD DU KED TO 40' SET WELL

SANG 40-13 SCREWY 40-15 BROWY 13-10 GROWY 10-0

1500 Cleaning SET Best 1600 PRECEN, ORGANIZER MANUEL 1730 OFFICE

> v 37 Sóil v 10 teu

STMATUS ON, NC.

## SOIL BORING LOG Boring No. MW-11 Sheet: 1 of 2

Client	ARCO 11117	Date	November 20, 2007
Address	7210 Bancroft Avenue	Drilling Co.	Woodward Drilling rig type:BK-61
	Oakland, CA	Driller	Norman Hunger
Project No.	E11117-01	Method	Hollow Stem Auger Hole Diameter: 10 inches
Logged By:	Collin Fischer	Sampler:	
Well Pack	sand: 40 ft. to 13 ft	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 15 ft. to 40 ft.
	bent.: 13 ft. to 10 ft.	<u></u>	Casing Diameter: 4 in. Screen Slot Size: 0.020-in.
	grout: 10 ft. to 0 ft.	Depth to GW	f:   ✓ first encountered static

	Sample		Sar	nple						
Туре		Blow Count		Recov.		ell ails	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
Туре		Count	Time	Recov.	Set Control	alis	1	Column	Cleared to 5' bgs with air knife	(PPNI)
					***		2 3 4			
s	MW-11 5'	13 17	1000	100			5	CL	Sandy clay, CL, dark yellowish brown, (10YR 3/4), dry, hard low plasticity, 60% clay, 40% medium to coarse sand	0
		24					7 8 8			
S	MW-11 10'	8 13 24	1005	100			10 11 12	SM	Silty sand with clay, SM, olive grey, (5Y 4/3), moist, dense 75% coarse grained sand, 15% silt, 10% clay	0
							13 14			
S	MW-11 15'	15 18 28	1025	100			15 16 17	SC	Clayey sand, SC, dark olive grey, (5Y 3/2), moist, dense 80% coarse grained sand, 20% clay	0
							18 19 20	, dGC		
				Recove					Comments:	
				Sample					STRATUS ENVIRONMENTAL, INC.	

## SOIL BORING LOG

## Boring No. MW-11

Sheet: 2 of 2
---------------

Client	ARCO 11117	Date	November 20, 2007	
Address	7210 Bancroft Avenue	Drilling Co.	Woodward Drilling	rig type:BK-61
	Oakland, CA	Driller	Norman Hunger	
Project No.	E11117-01	Method	Hollow Stem Auger	Hole Diameter: 10 inches
Logged By:	Collin Fischer	Sampler:		

s	ample	Blow	Sa	mple	147-11	Donth	1 14h c ! !		PID
Туре		Count		Recov.	Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	(PPM)
S	MW-11 20'	15 19	1035		1 1	21		Clayey gravel, GC, dark olive grey, (5Y 3/2), wet, dense 80% medium graiend gravel, 15% clay	0
		24				22			
						23			<u> </u>
			ļ			24			<del> </del>
S	MW-11 25'	8	1040	0		25		No recovery	<u> </u>
- 		12 24				26			
						27			
						28 	GC		
						— <sup>29</sup>			+
S	MW-11 30'	8 24	1055	100		30		Clayey gravel, GC, dark olive grey, (5Y 3/2), wet, very dense 85% fine gravel, 15% clay	0
		30				32			
						34			
S	MW-11 35'	 13	1105	100		35		becomes 75% fine to medium graiend gravel, 15% clay, 10% coarse sand	
		33 36				36			
					-	<sup>37</sup>	jer		
		5				— <sup>38</sup>			
s	MW-11 40'	15 25	1125	100		<sup>39</sup> <sub>40</sub>	ĺ	Poorly graded sand, SP, dark olive grey, (5Y 3/2), wet, very dense 100% medium grained sand	
			1 / 1 = 4		.1			Comments:	
								STRATUS environmental, inc.	
								1 Boring Log 120407	

## SOIL BORING LOG Boring No. DPE-1 Sheet: 1 of 2

Client	ARCO 11117	Date	November 19, 2007
Address	7210 Bancroft Avenue	Drilling Co.	Woodward Drilling rig type:BK-61
	Oakland, CA	Driller	Norman Hunger
Project No.	E11117-01	Method	Hollow Stem Auger Hole Diameter: 10 inches
Logged By:	Collin Fischer	Sampler:	
Well Pack	sand: 40 ft. to 13 ft	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 15 ft. to 40 ft.
	bent.: 13 ft. to 10 ft.		Casing Diameter: 4 in. Screen Slot Size: 0.020-in.
	grout: 10 ft. to 0 ft.	Depth to GW:	f:   √ first encountered static

		3.00	10 11. 10	J O 11.				opin to OTT	. V IIIst encountered Static V	
<u> </u>		T			Т					
	Sample	Blow		nple		Well	Depth			PID
Type	No.	Count	Time	Recov.	D	etails	Scale	Column	Descriptions of Materials and Conditions Cleared to 5' bgs with air knife	(PPM)
							1		and the stage may an initial	
				1		di P				
		ļ	ļ	ļ	.  1		_2			
						160	3			
		<del> </del>	<del> </del>	<del> </del>	gillig	<u></u>				
							4			
					500	4,		CL		
S	DPE-1 5'	10	1240	100			5		Clay, CL, dark yellowish brown, (10YR 4/4), dry, hard, medium plasticity	
5	DPE-1 5	20	1240	100	J.	gasid.	6		100% clay	0
		30		<del> </del>		1			1 Too N didy	
						riggi	7			
					92%	8	1 _			
		<del> </del>	<u> </u>	<b></b>			_8	1		
						(#.g	- <sub>9</sub>	1000		
				<del> </del>			1 _	ľ	<b></b>	
						ájí d	10			
S	DPE-1 10'	12	1245	100	0		<b></b>		Silty Gravel with clay, GM, dark yellowish brown, (10YR 4/6), moist	0
		14 16			8		11	GM	medium dense, 75% medium gravel, 15% silt, 10% clay	
		10			$\mathcal{O}$		12			
					1					
							13			
							$\parallel - \dots$	1		
					1::1		14	J. Park		
							- <sub>15</sub>			
S	DPE-1 15'	18	1250	100		<b>=</b>  :			Poorly graded gravel with sand, GP, dark grayish brown, (2.5Y 4/2), moist	0
		27				≣∷	16	0.0	very dense, 80% fine gravel, 20% coarse sand	
		27				= :	47	GP		
						=   :	<u></u>			
						≣!:	18			
						= :	:	1 200		
						≣⊞	19	1/0		
							- <sub>20</sub>	CL		
		L			( · · L	· . ·	.)   <del>  2</del> 0	1		
				Recove	ery				Comments:	
										İ
				Sample	<b>a</b>					
				Jample	-					
									STRATUS	
									ENVIRONMENTAL, INC.	
									ELANA ROLL SELECTION OF THE SELECTION OF	

## SOIL BORING LOG

## Boring No. DPE-1

Sheet: 2 of 2

Client	ARCO 11117	Date	November 19, 2007		
Address	7210 Bancroft Avenue	Drilling Co.	Woodward Drilling	rig type:BK-61	
	Oakland, CA	Driller	Norman Hunger		
Project No.	E11117-01	Method	Hollow Stem Auger	Hole Diameter: 10 inches	
Logged By:	Collin Fischer	Sampler:			

No. DPE-1 20'	7 14 20	Time 1255	Recov.	Well Details	Depth	Lithologic	1	PID
	7 14		<del> </del>	Details	Scale	Column	Descriptions of Materials and Conditions	(PPM)
			100	<del></del>			Silty clay with sand, CL, dark yellowish brown, (10YR 4/6), moist, hard	0
	20	ļ		.∐≣∥	21		low plasticity, 60% clay, 30% silt, 10% sand	
	20					CL		
1		<b> </b>		∄∥≣∥	22			
1						200		
				1::		profession .		
				.ii. ≣ ii	24	1000		
DPF-1 25'	10	1300	100	╫╢≣╟	25		Silty gravel with sand CM light alive brown (2.5V.5/3) wat dance	
51 L-1 25		1300	100		: - <sub>26</sub>			"
	22			1881≣				
				]	27	GM		
					<u>: </u>			
				{:: ≡ :	28			
				::  <b> </b>				
				1881≣I8	:  "		<u></u>	
				.!!≣ !:	30		same as above	
DPE-1 30'		1305	100		<u>:</u>			0
				{:: ≣ :	31		Clay, CL, light olive brown, (2.5Y 5/2), wet, very stiff, medium plasticity	
	12				32		100 % Clay	
				1111=111				
					33			
				::  ≣ ::	_			
				{}} ≡	34	CI		
					_ <sub>35</sub>	CL		
PE-1 35'	7	1310	100	[	35		becomes vellowish brown, (10YR 5/4)	
	15				36		(,	
	22							
				!!! <b>≣</b>  !!	37			
					- "			
					39			
							becomes silty clay, CL, 80% clay, 20% silt	
PE-1 40'		1315	100		40			
							Comments:	
							STRATUS	
							ENVIRONMENTAL, INC.	
	PE-1 30' PE-1 35'	PE-1 30' 5 7 12 PE-1 35' 7 15 22	PE-1 30' 5 1305 7 12	PE-1 30' 5 1305 100 7 12 PE-1 35' 7 1310 100 15 22	PE-1 30' 5 1305 100 7 12		PE-1 40' 1315 100	Comments:

## SOIL BORING LOG Boring No. DPE-2 Sheet: 1 of 2

Client	ARCO 11117	Date	November 21, 2007				
Address	7210 Bancroft Avenue	Drilling Co.	Woodward Drilling rig type:BK-61				
	Oakland, CA	Driller	Norman Hunger				
Project No.	E11117-01	Method	Hollow Stem Auger	Hole Diameter	: 10 inches		
Logged By:	Collin Fischer	Sampler:					
Well Pack	sand: 40 ft. to 13 ft	Well Construction	Casing Material: Sche	dule 40 PVC	Screen Interval: 15 ft. to 40 ft.		
	bent.: 13 ft. to 10 ft.	****	Casing Diameter: 4 in.		Screen Slot Size: 0.020-in.		
	grout: 10 ft. to 0 ft.	Depth to GW:	: V first encountered	static	▼		

		grout	10 11. 10	3 0 10.				, parto 011	▼ iirst encountered static ▼	
	Sample		Sar	nple						
Туре		Blow Count		Recov.	W Det	ell ails	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
							12345		Cleared to 5' bgs with air knife	
S	DPE-2 5'	10 23 33	0835	100			6 -7 -8 -9 -10	CL	Sandy clay, CL, dark yellowish brown, (10YR 4/6), dry, hard medium plasticity, 65% clay, 35% medium to coarse sand	0
S	DPE-2 10'	10 10 15	0850	100			11 12 13 14 15		same as above	0
S	DPE-2 15'	9 15 20	0900	100			16 17 18 19 20	sc	Sandy clay, CL, dark olive brown, (2.5Y 3/3), moist, hard, low plasticity 60% clay, 40% medium sand	0
				Recove					STRATUS ENVIRONMENTAL, INC.	

## SOIL BORING LOG

## **Boring No. DPE-2**

SI	he	et:	2	Ωf	2

Client	ARCO 11117	Date	November 21, 2007			
Address	7210 Bancroft Avenue	Drilling Co.	Woodward Drilling	rig type:BK-61		
	Oakland, CA	Driller	Norman Hunger			
Project No.	E11117-01	Method	Hollow Stem Auger	Hole Diameter: 10 inches		
Logged By:	Collin Fischer	Sampler:				

s	ample		Sa	mple	<u> </u>				
Туре		Blow Count	Time	Recov.	Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PDM)
S	DPE-2 20'	7	910	100	1	Scale	Column	Clayey sand with gravel, SC, very dark grey, (5Y 3/1), wet, dense	(PPM) 0
		11	<u> </u>	<u> </u>		21		70% medium grained sand, 20% clay, 10% fine grained gravel	
<b>_</b>		24					SC		
			ļ	ļ	.∐≣I	22			
						— <sub>22</sub>	,		
			<del>-</del>		1881≣188	23	2000		
							1000		
	İ			<b></b>					
					.!! ≡ !!!	25			
S	DPE-2 25'	7	915	100				Clayey gravel with sand, GC, olive grey, (5Y 4/2), wet, very dense	0
	}	18 34	<b></b>		{!!  <u> </u>	26	ļ	75% medium grained gravel, 15% clay, 10% coarse grained sand	
		54				27			
					188				
					]!!  <b>≡</b>  !!	28			
			.		## ≣ #	29			
S	DPE-2 30'	10	930	100	tiil <u>E</u> liii	30		same as above, but with hydrocarbon odor	
		18				31	GC		
		27			]∷ ≣ ∷				
						32			
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						34			
					1111≣111	-"			
			L		J::  ≡ :::	35			
S	DPE-2 35'	14	940	100	::   <u>= </u> :::			same as above	0
		26	ļ		{::  ≣ :::	36			
		34				27			
	<del> </del>					_ <sup>37</sup>			
						38			
			[				مممر		
	<b> </b>	14				39	/0.4		
S	DPE-2 40'	20 32	950	100			√SM	Silty sand, SM, olive grey, (5Y 4/2), wet, very dense	0
<u> </u>	DFE-2 40	32	900	100		40		80% medium grained sand, 20% silt	L
								Comments:	
								STRATUS	
								ENVIRONMENTAL, INC.	
								Professional Control of the Control	
								P. Poring Log 120607	

## SOIL BORING LOG Boring No. DPE-3 Sheet: 1 of 2

Client	ARCO 11117	Date	November 20, 2007	
Address	7210 Bancroft Avenue	Drilling Co.	Woodward Drilling rig type:BK-61	
	Oakland, CA	Driller	Norman Hunger	
Project No.	E11117-01	Method	Hollow Stem Auger Hole Diamete	r: 10 inches
Logged By:	Collin Fischer	Sampler:		
Well Pack	sand: 40 ft. to 11 ft	Well Construction	Casing Material: Schedule 40 PVC	Screen Interval: 13 ft. to 38 ft.
	bent.: 11 ft. to 8 ft.		Casing Diameter: 4 in.	Screen Slot Size: 0.020-in.
	grout: 8 ft. to 0 ft.	Depth to GW:	first encountered static	

		-	6 11. 10					•		v instrencountered static	
	Sample	Blow	Sample		Well		·II	Depth	Lithologic		(PPM) 0
Туре	No.	Count	Time	Recov.		Deta		Scale	Column	Descriptions of Materials and Conditions	(PPM)
								1 2 3 3		Cleared to 5' bgs with air knife	
S	DPE-3 5'	5 10 25	1345	100				4 5 6 7	CL	Sandy clay, CL, dark yellowish brown, (10YR 3/6), dry, hard medium plasticity, 75% clay, 25% medium grained sand	0
S	DPE-3 10'	8 18 18	1350	100				8 9 10 11 12		becomes, olive brown, (2.5Y 4/4), moist	0
S	DPE-3 15'	13 26	1355	100				13 14 15 16	and the second	Clayey gravel, GC, dark olive grey, (5Y 3/2), moist, very dense 85% medium grained gravel, 15% clay	0
		27						17 18 19 20	GC		
		,		Recove Sample	ery .				v	STRATUS ENVIRONMENTAL, INC.	1

# SOIL BORING LOG

## Boring No. DPE-3

SI	he	et:	2	of	2

Client	ARCO 11117	Date	November 20, 2007		
Address	7210 Bancroft Avenue	Drilling Co.	Woodward Drilling	rig type:BK-61	
	Oakland, CA	Driller	Norman Hunger		
Project No.	E11117-01	Method	Hollow Stem Auger	Hole Diameter: 10 inches	
Logged By:	Collin Fischer	Sampler:			

	amnle			mnlc					
	ample	Blow		mple	Well	Depth	Lithologic		PID
Type S	<b>No.</b> DPE-3 20'	Count 12	1400	Recov.	Details	Scale	Column	Descriptions of Materials and Conditions  Clayey gravel with sand, GC, dark olive grey, (5Y 3/2), wet, dense	(PPM)
	Di L-3 20	20	1400	100		21		75% medium grained gravel, 15% clay, 10% coarse grained sand	0
		26		<del> </del>				17070 modalin granica gravor, 1070 day, 1070 doubt granica sand	
						22			
				[	T##≣##				
					.   <u> </u>	23			
ļ			<del> </del>	<del> </del> -	-{}} ≡	— <sup>24</sup>			
						— 25			
S	DPE-3 25'	11	1410	100				same as above	
		13				26			
		23					GC		
			ļ		.!!!≣!!!!	27			
			l .						
					-{!!! ≡ !!!	— <sup>28</sup>			
					1881 <u>=</u> 1881				
						30			
S	DPE-3 30'	9	1420	100				same as above	0
		14			∤∷ ≣ ∷	31			
		19							
					{!! ≡ !!	— <sup>32</sup>			
						<sub>33</sub>	مر		
					1∷ ≣ ∷	_"	, propor		
						34	, e e e e e e e e e e e e e e e e e e e		
					1  <u> </u>		SP		
						35		Poorly graded fine sand, SP	
S	DPE-3 35'	5	1425	100				D	0
		6 6			{∷ ≣ ∷	36		Poorly graded gravel, GP, dark olive grey, (5Y 3/2), wet, medium dense 100% medium gravel	
		0				37		100% illedium gravei	
			}		1:: ≡ ::	"	GP		
						38			
						_			
						39			
	DBE 3 40		1420	400		<u> </u>		come as shave	0
S	DPE-3 40'		1430	100	1-11111111111	40		same as above	
								Comments:	
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									ĺ
								STRATUS	
								ENVIRONMENTAL, INC.	
								A MARIE CONTRACTOR AND AND AND ARREST OF THE CONTRACTOR AND ARREST OF THE	
						****			

SOIL BORING LOG Boring No. DPE-4 Sheet: 1 of 3

Client	ARCO 11117	Date	November 19, 2007	
Address	7210 Bancroft Avenue	Drilling Co.	Woodward Drilling rig type:BK	-61
	Oakland, CA	Driller	Norman Hunger	
Project No.	E11117-01	Method	Hollow Stem Auger Hole Diam	eter: 10 inches
Logged By:	Collin Fischer	Sampler:		
Well Pack	sand: 45 ft. to 13 ft	Well Construction	Casing Material: Schedule 40 PVC	Screen Interval: 15 ft. to 40 ft.
	bent.: 13 ft. to 10 ft.		Casing Diameter: 4 in.	Screen Slot Size: 0.020-in.
	grout: 10 ft. to 0 ft.	Depth to GW:	√ first encountered station	<b>T</b>

		Γ		Γ	T		1			
1 1	Sample	Blow	Sar	nple	ļ۷	Vell	Depth	Lithologic		PID
Type	No.	Count	Time	Recov.	De	etails	Scale	Column	Descriptions of Materials and Conditions	(PPM)
					general Caracter	1,36	<b> </b>		Cleared to 5' bgs with air knife	
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				1			20			
				Recover	ry —		J		Comments: Overdrill existing 2" well to 45' bgs	
									Set new 4" well at 40' bgs	
				Sample						
				Junipie						
									STRATILIS	
									STRATUS ENVIRONMENTAL, INC.	l
									ENVIRONIVIENTAL, INC.	

### SOIL BORING LOG

### Boring No. DPE-4

S	h	е	e	t:	2	of	1
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Client	ARCO 11117	Date	November 19, 2007		
Address	7210 Bancroft Avenue	Drilling Co.	Woodward Drilling	rig type:BK-61	
	Oakland, CA	Driller	Norman Hunger		
Project No.	E11117-01	Method	Hollow Stem Auger	Hole Diameter: 10 inches	
Logged By:	Collin Fischer	Sampler:			

		T							
Type	mple No.	Blow Count	1	mple Recov.	Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
S						21222324252627283031323334353637383939			0
S						40			
								STRATUS ENVIRONMENTAL, INC.	

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**Boring No. DPE-4** 

S	h	ee	t:	3	of	3

Client	ARCO 11117	Date	November 19, 2007		
Address	7210 Bancroft Avenue	Drilling Co.	Woodward Drilling	rig type:BK-61	
	Oakland, CA	Driller	Norman Hunger		
Project No.	E11117-01	Method	Hollow Stem Auger	Hole Diameter: 10 inches	
Logged By:	Collin Fischer	Sampler:			

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	ample	Blow		mple	Well	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
Туре	No.	Count	ilme	Recov.	Details	Scale	Column	Descriptions of Materials and Conditions	(PPIVI)
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### SOIL BORING LOG Boring No. DPE-5 Sheet: 1 of 2

Client	ARCO 11117	Date	November 21, 2007	
Address	7210 Bancroft Avenue	Drilling Co.	Woodward Drilling rig type:BK-61	
	Oakland, CA	Driller	Norman Hunger	
Project No.	E11117-01	Method	Hollow Stem Auger Hole Diamete	r: 10 inches
Logged By:	Collin Fischer	Sampler:		
Well Pack	sand: 40 ft. to 13 ft	Well Construction	Casing Material: Schedule 40 PVC	Screen Interval: 15 ft. to 40 ft.
	bent.: 13 ft. to 10 ft.		Casing Diameter: 4 in.	Screen Slot Size: 0.020-in.
	grout: 10 ft. to 0 ft.	Depth to GW:	first encountered static	

				0 0 11.			-	·	. V inst encountered Static	
	Sample	Blow	Sar	nple	l		Donath			
Туре		Count	1	Recov.	1	ell ails	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
							1 2		Cleared to 5' bgs with air knife	
							3 4 	CL		
S	DPE-5 5'	11 17 33	1300	100			5 6 7		Silty clay, CL, dark yellowish brown, (10YR 3/6), dry, hard, medium plasticity 70% clay, 30% silt	0
							8 9 10			
S	DPE-5 10'	8 9 13	1305	100			1112	SM	Silty sand, SM, olive, (5Y 4/3), dry, medium dense 85% medium grained sand, 15% silt	0
						//	13 14 15			
S	DPE-5 15'	11 15 20	1315	100			16 17	GC	Clayey gravel with sand, GC, dark olive grey, (5Y 3/2), moist, dense 75% medium grained gravel, 15% clay, 10% coarse grained sand	0
							18 19 20	sc		
				Recove Sample					Comments:	
									STRATUS ENVIRONMENTAL, INC.	

### SOIL BORING LOG

### **Boring No. DPE-5**

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Client	ARCO 11117	Date	November 21, 2007		
Address	7210 Bancroft Avenue	Drilling Co.	Woodward Drilling	rig type:BK-61	
	Oakland, CA	Driller	Norman Hunger		
Project No.	E11117-01	Method	Hollow Stem Auger	Hole Diameter: 10 inches	
Logged By:	Collin Fischer	Sampler:			

-	amala		T ==		T.	T	1		
Туре	ample No.	Blow Count		mple Recov.	Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID
S	DPE-5 20'	4 7 12	1320		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	21	SC	Clayey sand, SC, dark olive grey, (5Y 3/2), wet, medium dense 80% medium grained sand, 20% clay	( <b>PPM</b> )
						22 23 24			
S	DPE-5 25'	7 20 23	1330	100		25		Clayey gravel with sand, GC, dark olive grey, (5Y 3/2), wet, dense 75% medium grained gravel, 15% clay, 10% coarse grained sand	0
						27 28 29			
S	DPE-5 30'	14 27 50/3"	1340	100		30 31 31 32	GC	same as above	0
						33 34 35			
S	DPE-3 35'	15 25 45	1350	100		36 37 38		increasing clay content 70% medium grained gravel, 20% clay, 10% coarse grained sand	0
S	DPE-5 40'	17 24 30	1400	100		39 39		same as above	0
								STRATUS ENVIRONMENTAL, INC.	

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

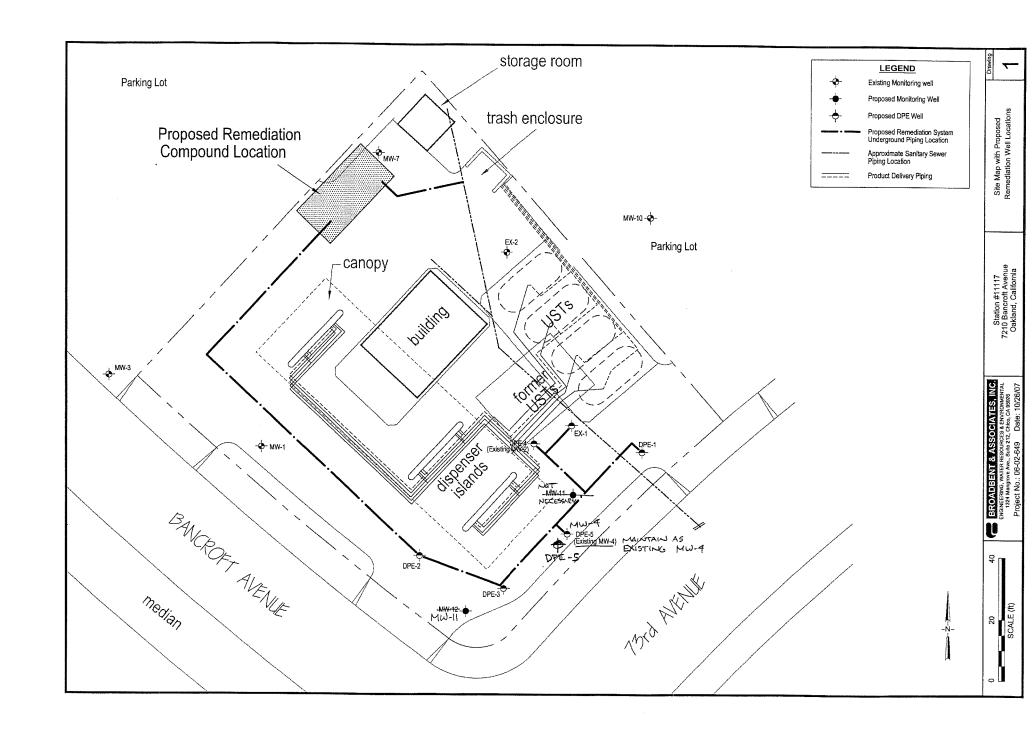
STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)



# Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 11/09/2007 By vickyh1

Permit Numbers: W2007-1142 to W2007-1144 Permits Valid from 11/19/2007 to 11/30/2007

Application Id:

1194287667849

City of Project Site: Oakland

Site Location: **Project Start Date:** 

7210 Bancroft Ave, Oakland, CA 11/19/2007

Completion Date: 11/30/2007

Applicant:

Stratus Environmental - Scott Bittinger

3330 Cameron Park Dr #550, Cameron Park, CA 95682

Phone: 530-676-2062

**Property Owner:** 

BP West Coast Products, LLC

Phone: 925-275-3506

Client:

6 Centerpointe Dr, La Palma, CA 90623 same as Property Owner

Total Due:

\$800.00

Receipt Number: WR2007-0501

**Total Amount Paid:** 

\$800.00

Payer Name: Stratus Paid By: CHECK

PAID IN FULL

### Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 2 Wells Driller: Woodward - Lic #: 710079 - Method: auger

Work Total: \$600.00

### **Specifications**

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2007- 1142	11/09/2007	02/17/2008	MW-11	10.00 in.	4.00 in.	10.00 ft	41.00 ft
W2007- 1143	11/09/2007	02/17/2008	MW-12	10.00 in.	4.00 in.	10.00 ft	41.00 ft

### **Specific Work Permit Conditions**

- 1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
- 2. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
- 3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
- 4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and

### Alameda County Public Works Agency - Water Resources Well Permit

mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

- 5. Remove the Christy box or similar structure. Drill out & Replace with New Well
- 6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
- 7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.
- 8. Minimum surface seal thickness is two inches of cement grout placed by tremie
- 9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.
- 10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
- 11. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

Work Total: \$200.00

Remedian Well Construction-Extraction - 5 Wells

Driller: Woodward - Lic #: 710079 - Method: auger

### **Specifications**

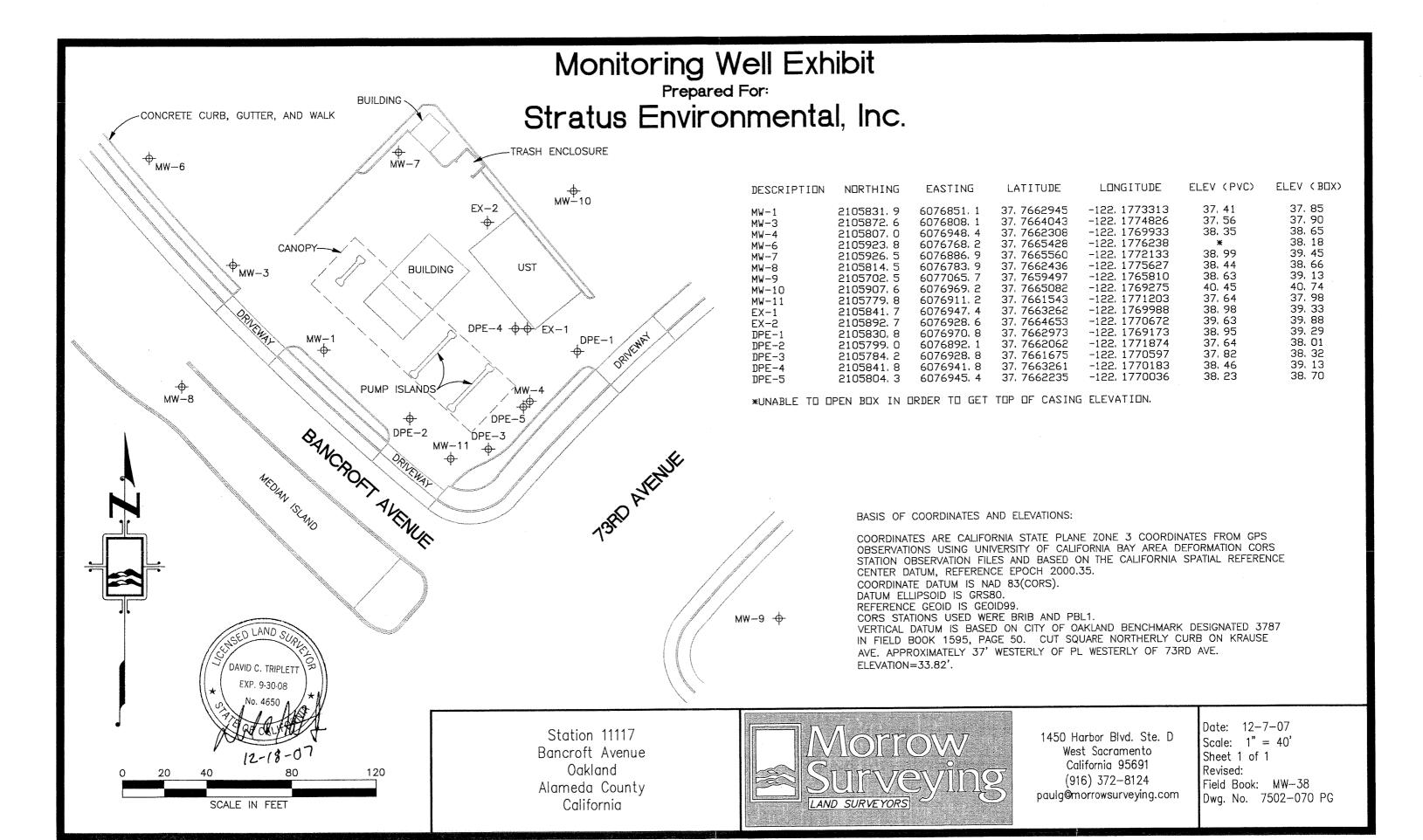
Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2007- 1144	11/09/2007	02/17/2008	DPE-1	10.00 in.	4.00 in.	10.00 ft	41.00 ft
W2007- 1144	11/09/2007	02/17/2008	DPE-2	10.00 in.	4.00 in.	10.00 ft	41.00 ft
W2007- 1144	11/09/2007	02/17/2008	DPE-3	10.00 in.	4.00 in.	10.00 ft	41.00 ft
W2007- 1144	11/09/2007	02/17/2008	DPE-4 (redrill MW2)	10.00 in.	4.00 in.	10.00 ft	41.00 ft
W2007- 1144	11/09/2007	02/17/2008	DPE-5 (redrill MW4)	10.00 in.	4.00 in.	10.00 ft	41.00 ft

### **Specific Work Permit Conditions**

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

### Alameda County Public Works Agency - Water Resources Well Permit

- 2. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
- 3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.
- 4. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
- 5. Minimum seal depth (Neat Cement Seal) is 2 feet below ground surface (BGS).
- 6. Minimum surface seal thickness is two inches of cement grout placed by tremie
- 7. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
- 8. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
- 9. MW-2 will be redrilled and replaced with DPE-4 MW-4 will be redrilled and replaced with DPE-5



Atlantic Richfield	
Richfield	
Company	

Lab Name: TestAmetica Address: 885 Jarvis Drive Morgan Hill, CA 95937 Lab PM: Lisa Race TeleFax: 408-782-8156 408-782-6308 (fax) BP/AR PM Contact: Paul Supple	ARCO         7  fos Segment: BP > Americas > West > Retail > Alameda >         7  ory Agency: Attackopt County  Requested Due Date (mm/dd/yy):  BP/AR Facility No.: Ull 7  BP/AR Facility No.: Ull 7  BP/AR Facility Address: 720 Entenet Arce, 644 Loup  Site Lat/Long:  California Global ID No.: 106000020  Enter Project No.: 6071 K - 0035  Provision or OOC (circle one) Provision	Page of  On-size Time: 6700 Temp: 53  Off-size Time: Temp: Sky Conditions: Skarty  Meteorological Events:  Wind Speed: Direction:  Consultant/Contractor: Stratus Environmental, Inc.  Address: 3330 Cameron Park Drive, Suite 550  Cameron Park, CA 95682  Consultant/Contractor Project No.:  Consultant/Contractor PM: Jay Johnson
Address: 2010 Crow Canyon Place, Suito 150	Phase/WBS:	Celestrance (530) 676-6000 / (530) 676-6005
San Ramon, CA Tele/Fax: 925-275-3505	Sut Phase/Task 93 Ambreign	Report Type & QC Level: Level 1 with EDP
Lah Bottle Order Wo.	Cost Element: 01-Contractor labor	mail EDD To: shaves@stratusinc.net
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BP COC Rev. 5 18/11/2006

# Atlantic Richfield

A BP affiliated company

Chain of Custody Record
Project Name: ARCO WIT

BP BU/AR Region/Enfos Segment: State or Lead Regulatory Agency:

BP > Americas > West > Retail > Alameda > 11117

Alguneon Requested Duc Date (nim/dd/yy):

On-sile Time: 0400) Temp: 85 Off-site Time: Temp: Sky Conditions: Section Meteorological Events: Wind Speed

Lab Mame: TestAmerica			sking 2bseg.	Direction:
Address: 885 Jarvis Drive	BP/AR Facility No.: \			
	BP/AR Facility Address: 7210 Band		Consultant/Contractor: Stratus Par	viconmental, Inc.
Morgan Hill, CA 95937	Site Lat/Long	BOST ME CARLING	Address: 3330 Cameron Park Di	tum Cuita Coo
Leb PM: Lise Race	California Global IDAY		Cameron Park, CA 950	Con
Tele/Fax: 408-782-8156 408-782-6308 (fax)	California Global ID No.: TOGOO!	002.0	Consultant/Contractor Project No.:	JOZ.
BP/AR PM Contact: Paul Supple	D. J. J. Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of t		Community	
Address: 2010 Crow Canyon Place, Suite 150	Provision or OOC (circle one) P	rovisjon	Tele/Fax (530) 676-6000 / (530)	Jay Johnson
San Ramon, CA	Sub Phase/Task: 03-Analytical	- iasyessmusur	7	
Tele/Fax: 925-275-3506	Dan Times Task: U3-Analytical		E-mail EDD To: shaves@stratusi	Level 1 with EDF
Lab Bottle Order No: Matri	TOTAL DOUGLE		Invoice to: Atlantic Richfield Co.	nanet
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Atlantic Richfield Company
Richfield
Company

Lab Name: TestAmerica	Cameron Park, CA 95682  Consultant/Contractor Project No.:  Consultant/Contractor PM: Jay Johnson  Tele/Fax: (530) 676-6000 / (530) 676-6005  Report Type & QC Level: Level 1 with PDF  E-mail EDD To: shayes@stratusinc.net Invoice to: Atlantic Richfield Co.  Requested Analysis  Sample Point Lant/Long and	
Hem Sample Description  At T T	Sample Point Lat/Long and RE Womments	
2 DRE-1 101 · 1245 / 02	PAR CHARLES THE	
3 DRE-1 151 . 1250 4 DRE-1 201 . 1255 5 DRG-1 251 . 1260 6 DRE-1 351 . 1260 7 DRE-1 351 . 1260 8 DRE-1 401 . 1265 V V CA 1	Sobs > Dore Tame Etse Mise Toh	
Sampler's Name: Color Visition  Sampler's Company: Structure  Shipment Date: N-19-07  Shipment Method: Shipment Tracking No: Special Instructions: Please or results to rmiller@broadbentine.com  Custody Scels In Place (Yes No Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)   Color Temp Blank: Yes 180)	Anslete UP 2 - 35 GM/Y LP	



29 November, 2007

Jay Johnson Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park, CA 95682

RE: BP Heritage #11117,Oakland, CA Work Order: MQK0677

Enclosed are the results of analyses for samples received by the laboratory on 11/21/07 11:03. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race

Senior Project Manager

CA ELAP Certificate # 1210

The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.





- 1			
	Stratus Environmental Inc. [Arco]	Project: BP Heritage #11117,Oakland, CA	MQK0677
	3330 Cameron Park Dr., Suite 550	Project Number: G07TK-0035	Reported:
	Cameron Park CA, 95682	Project Manager: Jay Johnson	11/29/07 13:59

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-11 20'	MQK0677-01	Soil	11/20/07 10:35	11/21/07 11:03
MW-11 30'	MQK0677-02	Soil	11/20/07 10:55	11/21/07 11:03
DPE-3 20'	MQK0677-03	Soil	11/20/07 14:00	11/21/07 11:03
DPE-3 35'	MQK0677-04	Soil	11/20/07 14:25	11/21/07 11:03

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.





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQK0677 Reported: 11/29/07 13:59

## Total Purgeable Hydrocarbons by GC/MS (CA LUFT) TestAmerica - Morgan Hill, CA

<del></del>								
F Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
ed: 11/20/07 10:35	Receiv	ed: 11/21/0	7 11:03	:				
0.10	0.10	mg/kg	1	7K23009	11/21/07	11/23/07	LUFT GCMS	
	83 %	65-13	'5	"	"	"	n	
	88 %	60-12	5	"	"	"	"	
	94 %	50-13	5	n	"	"	"	
	100 %	70-12	0	"	"	n	"	
ed: 11/20/07 10:55	Receiv	ed: 11/21/07	7 11:03					
1.9	0.10	mg/kg	1	7K23009	11/21/07	11/23/07	LUFT GCMS	
	82 %	65-13	5	"	"	"	"	
	98 %	60-12	5	"	"	. "	11	
	93 %	50-13	5	n	"	"	"	
	101 %	70-12	0	"	"	"	"	
d: 11/20/07 14:00	Receive	d: 11/21/07	11:03					
0.39	0.10	mg/kg	1	7K23009	11/21/07	11/23/07	LUFT GCMS	
	84 %	65-13	5	n	11	n	"	
	93 %	60-12	5	"	"	"	"	
	96 %	50-13	5	"	"	"	"	
	101 %	70-12	0	"	"	"	"	
I: 11/20/07 14:25	Receive	d: 11/21/07	11:03					
3.6	0.10	mg/kg	1	7K23009	11/21/07	11/23/07	LUFT GCMS	
	84 %	65-13	5	"	"	"	"	
	108 %	60-12	5	"	"	n	"	
	96 %	50-13.	5	"	"	"	"	
	103 %	70-12	0	"	"	n	"	
	Result ed: 11/20/07 10:35 0.10  ed: 11/20/07 10:55 1.9  d: 11/20/07 14:00 0.39	0.10 0.10  83 %  88 %  94 %  100 %  ed: 11/20/07 10:55 Receive  1.9 0.10  82 %  98 %  93 %  101 %  d: 11/20/07 14:00 Receive  0.39 0.10  84 %  93 %  96 %  101 %  1: 11/20/07 14:25 Receive  3.6 0.10  84 %  108 %	Result Limit Units  ed: 11/20/07 10:35 Received: 11/21/07  0.10 0.10 mg/kg  83 % 65-13  88 % 60-12  94 % 50-13  100 % 70-12  ed: 11/20/07 10:55 Received: 11/21/07  1.9 0.10 mg/kg  82 % 65-13  98 % 60-12  93 % 50-13  101 % 70-12  d: 11/20/07 14:00 Received: 11/21/07  0.39 0.10 mg/kg  84 % 65-13  93 % 60-12  96 % 50-13  101 % 70-12  1: 11/20/07 14:25 Received: 11/21/07  3.6 0.10 mg/kg  84 % 65-13  101 % 70-12  96 % 50-13  101 % 70-12  96 % 50-13  101 % 70-12  96 % 50-13  108 % 60-12  96 % 50-13	Result   Limit   Units   Dilution	Result         Limit         Units         Dilution         Batch           ed: 11/20/07 10:35         Received: 11/21/07 11:03           0.10         0.10         mg/kg         1         7K23009           83 %         65-135         "         65-135         "           94 %         50-135         "         "           100 %         70-120         "           ed: 11/20/07 10:55         Received: 11/21/07 11:03           1.9         0.10         mg/kg         1         7K23009           82 %         65-135         "         98 %         60-125         "           93 %         50-135         "         101 %         70-120         "           d: 11/20/07 14:00         Received: 11/21/07 11:03           0.39         0.10         mg/kg         1         7K23009           84 %         65-135         "         93 %         60-125         "           96 %         50-135         "         101 %         70-120         "           d: 11/20/07 14:25         Received: 11/21/07 11:03           3.6         0.10         mg/kg         1         7K23009           84 %         65-135         "         108	Result         Limit         Units         Dilution         Batch         Prepared           ed: 11/20/07 10:35         Received: 11/21/07 11:03           0.10         0.10         mg/kg         1         7K23009         11/21/07           83 %         65-135         "         "         "           94 %         50-135         "         "           100 %         70-120         "         "           ed: 11/20/07 10:55         Received: 11/21/07 11:03         "         "           1.9         0.10         mg/kg         1         7K23009         11/21/07           82 %         65-135         "         "         "           98 %         60-125         "         "           93 %         50-135         "         "           d: 11/20/07 14:00         Received: 11/21/07 11:03           d: 11/20/07 14:00         Received: 11/21/07 11:03           3.6         0.10         mg/kg         1         7K23009         11/21/07           4 %         65-135         "         "         "           101 %         70-120         "         "           3.6         0.10         mg/kg         1         7K	Result	Result





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQK0677 Reported: 11/29/07 13:59

### Volatile Organic Compounds by EPA Method 8260B TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-11 20' (MQK0677-01) Soil	Sampled: 11/20/07 10	35 Receiv	ed: 11/21/	07 11:03					
tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7K23009	11/21/07	11/23/07	EPA 8260B	
Benzene	ND	0.0050	**	II	"	H	"	**	
tert-Butyl alcohol	ND	0.020	н	#1	"	II.	н	II .	
Di-isopropyl ether	ND	0.0050	H	**	n	11	н	II .	
1,2-Dibromoethane (EDB)	ND	0.0050	Н	**	II	н	It	11	
1,2-Dichloroethane	ND	0.0050	**	Ħ	#1	11	и	u	
Ethanol	ND	0.10	n	II	**	11	11	u	
Ethyl tert-butyl ether	ND	0.0050	н	31	"	II.	"	11	
Ethylbenzene	ND	0.0050	11	11	0	#1	II.	11	
Methyl tert-butyl ether	ND	0.0050	"	н	0	**	11	"	
Toluene	ND	0.0050	"	U	11	.0	"	**	
Xylenes (total)	ND	0.0050	11	11		ii	11	Н	
Surrogate: Dibromofluoromethane		94 %	50-1	35	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		83 %	65-1	35	"	"	"	"	
Surrogate: Toluene-d8		100 %	70-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88 %	60-1	25	"	"	"	"	
MW-11 30' (MQK0677-02) Soil	Sampled: 11/20/07 10:	55 Receive	ed: 11/21/0	07 11:03					
tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7K23009	11/21/07	11/23/07	EPA 8260B	
Benzene	0.0089	0.0050	"	n .	"	n .	#	"	
tert-Butyl alcohol	ND	0.020	"	11	"	П	n	If	
Di-isopropyl ether	ND	0.0050	II .		n	**	11	н	
1,2-Dibromoethane (EDB)	ND	0.0050	fl fl	"	11	n	Ш	*1	
1,2-Dichloroethane	ND	0.0050	"	H	"	n	`n	"	
Ethanol	ND	0.10	"	п	"	0	11	"	
Ethyl tert-butyl ether	ND	0.0050	H	#1	n	41	11	H .	
Ethylbenzene	0.11	0.0050	n	"	II	**	i)	n	
Methyl tert-butyl ether	ND	0.0050	81	"	II .		11	н	
Γoluene	0.022	0.0050	"	n	"	H	н	H	
Xylenes (total)	0.11	0.0050	u	П	11	п	н	н	
Surrogate: Dibromofluoromethane		93 %	50-1	35	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		82 %	65-1	35	"	"	"	"	
Surrogate: Toluene-d8		101 %	70-1	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		98 %	60-1	25	"	,,	"	"	





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035 Project Manager: Jay Johnson MQK0677 Reported: 11/29/07 13:59

### Volatile Organic Compounds by EPA Method 8260B TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
DPE-3 20' (MQK0677-03) Soil	Sampled: 11/20/07 14:00	Receive	d: 11/21/07	11:03					
tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7K23009	11/21/07	11/23/07	EPA 8260B	
Benzene	ND	0.0050	II	n	н	11	11	H	
tert-Butyl alcohol	ND	0.020	n	п	0	"	II .	#	
Di-isopropyl ether	ND	0.0050	11	н		tt	II	#	
1,2-Dibromoethane (EDB)	ND	0.0050	"	•	"	U	"	II .	
1,2-Dichloroethane	ND	0.0050	D.	"	H	11	H	ti	
Ethanol	ND	0.10	-0	11	н	н	B	u	
Ethyl tert-butyl ether	ND	0.0050	**	н	#	11	11	н	
Ethylbenzene	0.0050	0.0050	n	n	**	II	"	11	
Methyl tert-butyl ether	ND	0.0050	П	ti .	п	#	11	11	
Toluene	ND	0.0050	Ħ	**	11	"	n	"	
Xylenes (total)	ND	0.0050	H	TP	н	н	**	II	
Surrogate: Dibromofluoromethane		96 %	50-13.	5	"	n	11	"	
Surrogate: 1,2-Dichloroethane-d4		84 %	65-13.	5	"	"	"	"	
Surrogate: Toluene-d8		101 %	70-12	)	"	n	"	u .	
Surrogate: 4-Bromofluorobenzene		93 %	60-12.	5	"	"	"	"	
DPE-3 35' (MQK0677-04) Soil	Sampled: 11/20/07 14:25	Receive	d: 11/21/07	11:03					
tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7K23009	11/21/07	11/23/07	EPA 8260B	
Benzene	0.082	0.0050	"	"	n	II	*	п	
tert-Butyl alcohol	ND	0.020	u .	D .	n	+I	"	II .	
Di-isopropyl ether	ND	0.0050	II .	п	11	*	tt .	11	
1,2-Dibromoethane (EDB)	ND	0.0050	II	40	п	n	Ш		
1,2-Dichloroethane	ND	0.0050	D	#	n .	H .	31	н	
Ethanol	ND	0.10	**	"	"	n	n	П	
Ethyl tert-butyl ether	ND	0.0050	**	"	n	91	n	**	
Ethylbenzene	0.15	0.0050	tt	n	II .	н	п	n	BB
Methyl tert-butyl ether	0.060	0.0050	II .	#	II .	n	Н	н	
Гoluene	0.20	0.0050	"	,,	**	It	н	n .	BB
Xylenes (total)	0.28	0.0050	11	II	FF .	11	"	"	BB
Surrogate: Dibromofluoromethane		96 %	50-133	5	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		84 %	65-133	ō	"	"	"	n	
Surrogate: Toluene-d8		103 %	70-120	)	"	"	"	"	





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQK0677 Reported: 11/29/07 13:59

### Conventional Chemistry Parameters by APHA/EPA Methods TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-11 20' (MQK0677-01) Soil	Sampled: 11/20/07 10:35	Receive	ed: 11/21	/07 11:03					
Percent Solids	84	1.0	%	1	7K27001	11/26/07	11/27/07	SM2540G	
MW-11 30' (MQK0677-02) Soil	Sampled: 11/20/07 10:55	Receive	d: 11/21	/07 11:03					
Percent Solids	87	1.0	%	1	7K27001	11/26/07	11/27/07	SM2540G	
DPE-3 20' (MQK0677-03) Soil	Sampled: 11/20/07 14:00	Received	l: 11/21/	07 11:03					
Percent Solids	88	1.0	%	1	7K27001	11/26/07	11/27/07	SM2540G	
DPE-3 35' (MQK0677-04) Soil	Sampled: 11/20/07 14:25	Received	l: 11/21/	07 11:03					
Percent Solids	88	1.0	%	1	7K27001	11/26/07	11/27/07	SM2540G	





Project: BP Heritage #11117,Oakland, CA

Spike

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQK0677 Reported: 11/29/07 13:59

RPD

%REC

### Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control TestAmerica - Morgan Hill, CA

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7K23009 - EPA 5030 (pres 48	3h)/5035 / LUF	T GCMS								
Blank (7K23009-BLK1)				Prepared &	& Analyze	ed: 11/23/	07			
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.00424		"	0.00500		85	65-135			
Surrogate: 4-Bromofluorobenzene	0.00424		"	0.00500		85	60-125			
Surrogate: Dibromofluoromethane	0.00474		"	0.00500		95	50-135			
Surrogate: Toluene-d8	0.00472		"	0.00500		94	70-120			
Laboratory Control Sample (7K23009-l	BS2)			Prepared &	& Analyze	ed: 11/23/	07			
Gasoline Range Organics (C4-C12)	0.813	0.10	mg/kg	1.00		81	60-120			
Surrogate: 1,2-Dichloroethane-d4	0.00418		"	0.00500		84	65-135			
Surrogate: 4-Bromofluorobenzene	0.00472		"	0.00500		94	60-125			
Surrogate: Dibromofluoromethane	0.00474		"	0.00500		95	50-135			
Surrogate: Toluene-d8	0.00512		n	0.00500		102	70-120			
Laboratory Control Sample Dup (7K23	009-BSD2)			Prepared &	& Analyze	ed: 11/23/	07			
Gasoline Range Organics (C4-C12)	0.801	0.10	mg/kg	1.00		80	60-120	2	40	
Surrogate: 1,2-Dichloroethane-d4	0.00426		"	0.00500		85	65-135			
Surrogate: 4-Bromofluorobenzene	0.00460		"	0.00500		92	60-125			
Surrogate: Dibromofluoromethane	0.00470		"	0.00500		94	50-135			
Surrogate: Toluene-d8	0.00516		"	0.00500		103	70-120			
Matrix Spike (7K23009-MS1)	Source: M(	QK0677-04		Prepared &	k Analyze	ed: 11/23/0	07			
Gasoline Range Organics (C4-C12)	7.28	0.10	mg/kg	1.10	3.59	335	50-135			LM,A
Surrogate: 1,2-Dichloroethane-d4	0.00400		"	0.00500		80	65-135			
Surrogate: 4-Bromofluorobenzene	0.00586		"	0.00500		117	60-125			
Surrogate: Dibromofluoromethane	0.00510		"	0.00500		102	50-135			
Surrogate: Toluene-d8	0.00510		"	0.00500		102	70-120			
Matrix Spike Dup (7K23009-MSD1)	Source: M(	QK0677-04		Prepared &	k Analyze	ed: 11/23/0	)7			
Gasoline Range Organics (C4-C12)	7.18	0.10	mg/kg	1.10	3.59	326	50-135	I	40	LM,A
Surrogate: 1,2-Dichloroethane-d4	0.00398		"	0.00500		80	65-135			
Surrogate: 4-Bromofluorobenzene	0.00580		"	0.00500		116	60-125			
Surrogate: Dibromofluoromethane	0.00470		"	0.00500		94	50-135			
Surrogate: Toluene-d8	0.00506		"	0.00500		101	70-120			





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQK0677 Reported: 11/29/07 13:59

### Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica - Morgan Hill, CA

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

Blank (7K23009-BLK1)				Prepared & An	alyzed: 11/23.	/07	
tert-Amyl methyl ether	ND	0.0050	mg/kg				
Benzene	ND	0.0050	**				
tert-Butyl alcohol	ND	0.020	11				
Di-isopropyl ether	ND	0.0050	11				
1,2-Dibromoethane (EDB)	ND	0.0050	11				
1,2-Dichloroethane	ND	0.0050					
Ethanol	ND	0.10	**				
Ethyl tert-butyl ether	ND	0.0050	11				
Ethylbenzene	ND	0.0050	11				
Methyl tert-butyl ether	ND	0.0050	H				
Toluene	ND	0.0050	H				
Xylenes (total)	ND	0.0050	**				
Surrogate: Dibromofluoromethane	0.00474		n	0.00500	95	50-135	
Surrogate: 1,2-Dichloroethane-d4	0.00424		"	0.00500	85	65-135	
Surrogate: Toluene-d8	0.00472		"	0.00500	94	70-120	
Surrogate: 4-Bromofluorobenzene	0.00424		"	0.00500	85	60-125	
Laboratory Control Sample (7K230	09-BS1)			Prepared & Ana	alyzed: 11/23/	07	
ert-Amyl methyl ether	0.0215	0.0050	mg/kg	0.0200	108	65-145	
Benzene	0.0223	0.0050	"	0.0200	111	75-125	
ert-Butyl alcohol	0.323	0.020	H	0.400	81	70-125	
Di-isopropyl ether	0.0179	0.0050	IF	0.0200	89	60-140	
,2-Dibromoethane (EDB)	0.0229	0.0050	н	0.0200	114	75-140	
,2-Dichloroethane	0.0181	0.0050	11	0.0200	90	70-135	
Ethanol	0.284	0.10	n	0.400	71	45-150	
Ethyl tert-butyl ether	0.0202	0.0050	n	0.0200	101	65-140	
Ethylbenzene	0.0203	0.0050	п	0.0200	101	75-130	
Methyl tert-butyl ether	0.0208	0.0050	11	0.0200	104	60-140	
Toluene	0.0229	0.0050	"	0.0200	115	75-135	
Xylenes (total)	0.0635	0.0050	н	0.0600	106	75-135	
Surrogate: Dibromofluoromethane	0.00504		"	0.00500	101	50-135	
Surrogate: 1,2-Dichloroethane-d4	0.00422		"	0.00500	84	65-135	
Surrogate: Toluene-d8	0.00516		"	0.00500	103	70-120	
Surrogate: 4-Bromofluorobenzene	0.00492		"	0.00500	98	60-125	





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQK0677 Reported: 11/29/07 13:59

### Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica - Morgan Hill, CA

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

Baten /K23	3009 - EPA	SUSU (pre:	s 48n <i>)/</i> 5033	) / EPA 8200B
				A

Matrix Spike (7K23009-MS1)	Source: Me	QK0677-04		Prepared a	& Analyze	d: 11/23	/07			
tert-Amyl methyl ether	0.0253	0.0050	mg/kg	0.0200	ND	126	65-140			
Benzene	0.108	0.0050	n	0.0200	0.0817	132	65-145			
tert-Butyl alcohol	0.433	0.020	n	0.400	ND	108	70-130			
Di-isopropyl ether	0.0197	0.0050	п	0.0200	ND	98	65-145			
1,2-Dibromoethane (EDB)	0.0252	0.0050	"	0.0200	ND	126	60-150			
1,2-Dichloroethane	0.0196	0.0050	"	0.0200	ND	98	60-140			
Ethanol	0.378	0.10	n	0.400	ND	95	35-150			
Ethyl tert-butyl ether	0.0222	0.0050	+1	0.0200	ND	111	65-150			
Ethylbenzene	0.218	0.0050	**	0.0200	0.150	341	75-140			BB
Methyl tert-butyl ether	0.0850	0.0050	n	0.0200	0.0601	124	60-150			
Toluene	0.265	0.0050	п	0.0200	0.203	311	65-140			BB
Xylenes (total)	0.481	0.0050	"	0.0600	0.279	338	70-145			BB
Surrogate: Dibromofluoromethane	0.00510		"	0.00500		102	50-135			
Surrogate: 1,2-Dichloroethane-d4	0.00400		"	0.00500		80	65-135			
Surrogate: Toluene-d8	0.00510		"	0.00500		102	70-120			
Surrogate: 4-Bromofluorobenzene	0.00586		"	0.00500		117	60-125			
Matrix Spike Dup (7K23009-MSD1)	Source: Mo	QK0677-04		Prepared &	& Analyze	d: 11/23/	07			
tert-Amyl methyl ether	0.0213	0.0050	mg/kg	0.0200	ND	106	65-140	17	25	
Benzene	0.0948	0.0050	11	0.0200	0.0817	66	65-145	13	25	
tert-Butyl alcohol	0.373	0.020	"	0.400	ND	93	70-130	15	25	
Di-isopropyl ether	0.0169	0.0050	H	0.0200	ND	85	65-145	15	40	
1,2-Dibromoethane (EDB)	0.0223	0.0050	n	0.0200	ND	111	60-150	12	30	
1,2-Dichloroethane	0.0167	0.0050	п	0.0200	ND	83	60-140	16	25	
Ethanol	0.308	0.10	41	0.400	ND	77	35-150	20	30	
Ethyl tert-butyl ether	0.0196	0.0050	н	0.0200	ND	98	65-150	13	30	
Ethylbenzene	0.193	0.0050	u	0.0200	0.150	213	75-140	12	30	BB
Methyl tert-butyl ether	0.0724	0.0050	11	0.0200	0.0601	61	60-150	16	25	
Toluene	0.231	0.0050	II	0.0200	0.203	143	65-140	14	25	BB
Xylenes (total)	0.430	0.0050	**	0.0600	0.279	252	70-145	11	30	BB
Surrogate: Dibromofluoromethane	0.00470		"	0.00500		94	50-135			-
Surrogate: 1,2-Dichloroethane-d4	0.00398		"	0.00500		80	65-135			
Surrogate: Toluene-d8	0.00506		"	0.00500		101	70-120			
Surrogate: 4-Bromofluorobenzene	0.00580		"	0.00500		116	60-125			



RPD



Stratus Environmental Inc. [Arco] Project: BP Heritage #11117,Oakland, CA MQK0677
3330 Cameron Park Dr., Suite 550 Project Number: G07TK-0035 Reported:
Cameron Park CA, 95682 Project Manager: Jay Johnson 11/29/07 13:59

## Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control TestAmerica - Morgan Hill, CA

Spike

Source

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7K27001 - General Prepa	ration / SM2540G									
Blank (7K27001-BLK1)				Prepared:	11/26/07	Analyzed	: 11/27/07			
Percent Solids	ND	1.0	%							
Duplicate (7K27001-DUP1)	Source: MQ	K0678-01		Prepared:	11/26/07	Analyzed	: 11/27/07			
Percent Solids	81.3	1.0	%		81.3			0.07	20	

%REC



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

Stratus Environmental Inc. [Arco]
Project: BP Heritage #11117,Oakland, CA
MQK0677
3330 Cameron Park Dr., Suite 550
Project Number: G07TK-0035
Cameron Park CA, 95682
Project Manager: Jay Johnson
11/29/07 13:59

### Notes and Definitions

LM,AY MS and/or MSD above acceptance limits. See Blank Spike(LCS). Matrix interference suspected.

BB Sample > 4x spike concentration

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

### Lisa Race

From:

Sandy Hayes [shayes@stratusinc.net]

Sent:

Monday, November 26, 2007 9:38 AM

To:

Lisa Race

Subject:

RE: COCs missing ENFOS numbers - MQK0631,MQK0632, MQK0636 & MQK0677

Attachments: Revised COC's.pdf

Hì Lisa,

The Enfos # for 11117 is G07TK-0035 (both COC's) for 11245 it is G07XV-0043 (for both COC's)

REVISED

Revised COC's attached.

Thank you,

Sandy Hayes Stratus Environmental, Inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682 shayes@stratusinc.net Phone: 530.313.9964

Phone: 530.513.9964 Fax: 530.676.6005

----Original Message----

From: Lisa Race [mailto:lisa.race@testamericainc.com]

Sent: Thursday, November 22, 2007 2:26 PM

To: knagaraju@stratusinc.net; scarter@stratusinc.net; Sandy Hayes; Scott Bittinger; Sonia Nandi

Subject: COCs missing ENFOS numbers - MQK0631, MQK0632, MQK0636 & MQK0677

Please add the ENFOS number to the attached COCs and return.

See attached. Feel free to contact me with any questions. Please note new e-mail address: Lisa.Race@Testamericainc.com

### LISA RACE

Senior Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

885 Jarvis Drive Morgan Hill, CA 95037 Tel 408.782.8156 | Fax 408.782.6308 www.testamericainc.com www.stl-inc.com

Confidentiality Notice: The information contained in this message is intended only for the use of the addressee, and may be confidential and/or privileged. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.

Chain of Custody Record

Project Name:

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda > WIT -Course

On-site Time: 0400) Temp: 85 Off-site Time: Temp: Sky Conditions: Section Meteorological Events:

State or Lead Regulatory Agency: Alguniosa A BP affiliated company Requested Due Date (mm/dd/yy):

		Direction:				
Lab Name: TestAmerica	BP/AB Facility No.: WIT					
Address: 885 Jarvis Drive		Consultant/Contractor: Stratus Environmental, Inc.				
Morgan Hill, CA 95937	Site Lat/Long.					
Lab PM: Lisa Race	California Clob J ID at	Cameron Park, CA 95682				
Tele/Fax: 408-782-8156 408-782-6308 (fax)	Enfor Periors No. 7	Consultant/Comractor Project No.:				
BP/AR PM Contact: Psul Supple	Provision or OOC (circle con)	Consultant/Contractor PM: Lay Johnson				
Address: 2010 Crow Canyon Place, Suite 150	Phase-WBS-	'ele/fex: (530) 676-6000 / (530) 676-6005				
San Ramon, CA	in Physical Co. Cardeling The State of Report Type & QC Level: Level 1 with EDF					
Tele/Fax: 925-275-3506	Cost Flement: 01 Comment					
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Trip Black: Yes / No

MS/MSD Sample Submitted: Yes /No

## Atlantic Richfield ompany

A BP affiliated company

Chain of Custody Record
Project Name: ARCO WIT-

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda > MAT

State or Lead Regulatory Agency:

Alganion COUNTY

Requested Duc Date (mm/dd/yy):

	Page of
On-site Time: 09(00)	Temp: 85
Off-site Time:	Temp;
Sky Conditions: Zewy	**
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: TestAmerica		BP/AR Facility N	. 1	211	7						·											
Address: 885 Jarvis Drive		BP/AR Facility A	ddese	1701 120	in »								nsuita		itracto.		Stratus Environ	nental, Inc.	<del></del>	=		
Morgan Hill, CA 95937		Site Lat/Long;	untess	, τ <u>ε</u>	W E	<b>MC</b>	76.T	M	<u> </u>	CA	Rima	OF AC	ldress:		3330 (	Came	aon Park Drive,	Suite 550	-			
Lab PM: Lisa Race		California Global ID No.: TOCOO! 002 01										_	Cameron Park, CA 95682									
Tele/Fax: 408-782-8156 408-782-6308 (fax)		Enfos Project No.	U NO	Y C	160	0100	<u> </u>	201				Co	nsulta	nt/Con	rracte)	r Proji	ect No.:	<u></u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
BP/AR PM Contact: Psul Supple		Provision or OOC		la1										-	tractor	r PM:	Jay J	ohnson		Ť.		
Address: 2010 Crow Canyon Place, Suite 150	-	Phase/WBS:					vision						c/Fax	<u>&gt;</u>	530)	676-6	6000 / (530) 676	6005				
San Ramon, CA		Sub Phase/Task:	02.4	TUMBER	eneg 1	ા-	- i4	<u>&gt;⊅€</u>	BSH	4 <u>5</u> 0	শ			ург &	QC L	vel:	Leve	I with ED	<del>-</del>			
Tele/Fax: 925-275-3506		Cost Element:		unalyti								E-r	oail El	DD To	. sh	aves	@stratusinc.n	et				
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DE DESIGNATION DE COMPANION DE
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Airoraft Only 8
Deriot Contribute.
520

TEST AMERICA SAMPLE: RECEIPT LOG

CLIENT NAME: REC. BY (PRINT) WORKORDER:	ARCO JULIEN. MQKO1077		DATE REC'D AT LAB: TIME REC'D AT LAB; DATE LOGGED IN:		67 1103 07			For Regulatory Purposes? DRINKING WATER WASTE WATER						
CIRCLE THE APPRO	PRIATE RESPONSE	LAB SAMPLE#	CLIENT ID	CONTAINER DESCRIPTION	PRESER VATIVE	рΉ	SAMPLE	OTHE DATE SAMPLED	R SC(V REMARKS: CONDITION (ETC.)					
1. Custody Seal(s)	Present / Absent kgtapt / Broken*						HISTINA	SAMPLED						
2. Chain-of-Custody	Present / Absent*				<b></b>									
3. Traffic Reports or									16					
Packing List:	Present / Absent							100	<del>\</del>					
4. Arbilt:	Airbill / Sticker		•	-				18	<del>/</del>					
	Present / Absent													
	MACHEO							<del>`</del>						
6. Sample Labels:	Present / Absent							<del>/8</del> /1	# METAL COR					
7. Sample IDs:	Listed / Not Listed		•		,			<del>(→)</del>	* ME IME CON					
	on Chain-of-Custody	·					<del>\(\foldsymbol{\pi}\)</del>	;						
8. Sample Condition:	Intact / Broken* /			V-1-11-10-	,	1	19		<u> </u>					
	Leaking*		-			57								
9. Does information on	chain-of-custody.			* * * * * * * * * * * * * * * * * * *		7								
traffic reports and s	ample labels					<del>-  </del>								
agree?	Yes / No*		•		<del></del>									
10. Sample received within			-		/									
hold time?	Yes)/No*				<del>- i</del>									
11. Adequate sample volu			•		<del></del>				·					
received?	√egr/ No*	-		<del>-/-</del>										
12. Proper preservatives u				<del>/ </del>	<del></del>									
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(circle which, If yes)	Yes/No*)													
14. Read Temp:	_ 6.6°C	-				<b></b>								
Correction Factor:	-1.0													
Corrected Temp:	5.60													
is corrected temp. 0-6°	C? (Yesy No"					<del></del>								
**Exception (if any): Meta			/											
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SAMPLERECEIPTLOG		*IF CIRCI	EO, CONTACT PROJEC	T MANAGER A	ND ATTA	CH RI	CORD O	F RESOLUT	ION \					

SAMPLERECEIPTLOG Revision 9 (10/26/07)

### Atlantic Richfield Company

A BP affiliated company

### Chain of Custody Record

Project Name: ARC

ARCO WIT

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda > ill 7

State or Lead Regulatory Agency:

Alituriois Courty

Requested Due Date (mm/dd/yy):

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On-site Tin	ne: 0900)	Temp: 85	
Off-site Tin	ne:	Temp:	
Sky Conditio	115: Suuro		
Meteorologic	al Events:	>	
Wind Const.		Di	-

Lab Name: TestAmerica																		Cor	Consultant/Contractor: Stratus Environmental, Inc.										
Address: 885 Jarvis Drive							BP/AR Facility Address: 7210 Bracket Ave O'A Risun on Address: 3330 Cameron Park Drive, Suite 550																						
Morgan Hill, CA 95937							Site Lat/Long:	ite Lat/Long: Cameron F												Park, CA 95682									
Lab PM: Lisa Race							California Global ID No.: TOGOO 100201										Cor	Consultant/Contractor Project No.:											
Tele/Fax: 408-782-8156 408-782-6308 (fax)						l	Enfos Project No.:									************							or PM: Jay Johnson						
	R PM Contact: Paul Supple	V					Provision or OOC	(circ	le one	>)		Pro	vision						Tele	/Fax:	(5	30) <i>e</i>	576-6	5000 / (:			**		
Addr	ess: 2010 Crow Canyon Place, Su	ite 150					Phase/WBS:	-01-	Mond	<b>Grin</b> s	g C	21.	- iA	Szi	283	щ	F~VE		Rep	Tele/Fax: (530) 676-6000 / (530) 676-6005  Report Type & QC Level: Level 1 with EDF									
	San Ramon, CA						Sub Phase/Task:	03-7	Analy	tical							- NEWINOU			E-mail EDD To: shayes@stratusinc.net									
	Fax: 925-275-3506																		oice to:										
Lab	Bottle Order No:	- Print	11		Ma	trix				P	rese	rvati	ive					Reques	ted A	nalysis									
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air	Laboratory No.	No. of Containers	Unpreserved	H <sub>2</sub> SO₄	HNO <sub>3</sub>	HCI	Methanol		<b>31</b> 5	BETEK	1,2 RA	* 700	£08	EroH				S	Sample P	Point Lat	~	and	
1	MATTER SALES	1050	Water					177	No.					==	$\stackrel{\smile}{\dashv}$		_		+		+	+=	+						
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																									- Joinitt	·	/ 110	]	





5 December, 2007

Jay Johnson Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park, CA 95682

RE: BP Heritage #11117,Oakland, CA Work Order: MQK0636

Enclosed are the results of analyses for samples received by the laboratory on 11/20/07 10:53. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race

Senior Project Manager

CA ELAP Certificate # 1210

The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.





Stratus Environmental Inc. [Arco]
Project: BP Heritage #11117,Oakland, CA
MQK0636
3330 Cameron Park Dr., Suite 550
Project Number: G07TK-0035
Cameron Park CA, 95682
Project Manager: Jay Johnson
12/05/07 15:10

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DPE-1 5'	MQK0636-01	Soil	11/19/07 12:40	11/20/07 10:53
DPE-1 10'	MQK0636-02	Soil	11/19/07 12:45	11/20/07 10:53
DPE-1 15'	MQK0636-03	Soil	11/19/07 12:50	11/20/07 10:53
DPE-1 20'	MQK0636-04	Soil	11/19/07 12:55	11/20/07 10:53
DPE-1 25'	MQK0636-05	Soil	11/19/07 13:00	11/20/07 10:53
DPE-1 30'	MQK0636-06	Soil	11/19/07 13:05	11/20/07 10:53
DPE-1 35'	MQK0636-07	Soil	11/19/07 13:10	11/20/07 10:53
DPE-1 40'	MQK0636-08	Soil	11/19/07 13:15	11/20/07 10:53

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.





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035 Project Manager: Jay Johnson MQK0636 Reported: 12/05/07 15:10

# Total Purgeable Hydrocarbons by GC/MS (CA LUFT) TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DPE-1 25' (MQK0636-05) Soil Sampled	l: 11/19/07 13:00	Receive	d: 11/20/07	10:53					BU
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	7L04043	11/23/07	12/05/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		116 %	65-1.	35	n	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	60-12	25	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	50-1.	35	"	"	n	n .	
Surrogate: Toluene-d8		96 %	70-12	20	"	"	"	"	
DPE-1 35' (MQK0636-07) Soil Sampled	d: 11/19/07 13:10	Receive	d: 11/20/07	10:53					
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	7K27005	11/27/07	11/27/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		92 %	65-1.	35	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		99 %	60-12	25	"	"	"	n	
Surrogate: Dibromofluoromethane		93 %	50-13	35	"	"	"	n .	
Surrogate: Toluene-d8		100 %	70-12	20	"	"	"	"	





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQK0636 Reported: 12/05/07 15:10

#### Volatile Organic Compounds by EPA Method 8260B TestAmerica - Morgan Hill, CA

ND	Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Benzene	DPE-1 25' (MQK0636-05) Soil	Sampled: 11/19/07 13:00	Receive	d: 11/20/07	10:53					BU
No	tert-Amyl methyl ether		0.0050		1	7L04043	11/23/07	12/05/07	EPA 8260B	
No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.	Benzene						11		H .	
1.2-Dibromoethane (EDB)	tert-Butyl alcohol			И	31	"	"	"	tt.	
	Di-isopropyl ether			"	"	"	11	"	II	
Ethanol ND 0.10 " " " " " " " " " " " Ethyl tert-butyl ether ND 0.0050 " " " " " " " " " " " " " " " " " "	. ,				11	"	II	Ш		
Ethyl tert-butyl ether ND 0.0050 " " " " " " " " " " " " " " " " " "				II .	- O	11	**	**	n	
Methyl tert-butyl ether	Ethanol	ND	0.10	H	"	#	*	ır	O .	
Methyl tert-butyl ether ND 0.0050 " " " " " " " " " " " " " " " " " "	Ethyl tert-butyl ether	ND	0.0050	II	"	n	11	II	11	
ND	Ethylbenzene	ND	0.0050	n	н	II	н	ii .	u	
ND   0.0050   "   "   "   "   "   "   "   "   "	Methyl tert-butyl ether	ND	0.0050	#	"	*	н	11	ft	
102 %   50-135	Toluene	ND	0.0050	"	H	"	II.	II	n	
Surrogate: 1,2-Dichloroethane-d8 Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzer-  PPE-1 35' (MQK0636-07) Soil Sampled: 11/19/07 13:10 Received: 11/20/07 10:55  Sert-Amyl methyl ether ND 0.0050 mg/kg 1 7K27005 11/27/07 11/27/07 EPA 8260B Senzene ND 0.0050 " " " " " " " " " " " " " " " " " "	Xylenes (total)	ND	0.0050	11	11	II .	н	11	#	
Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzere- 92 % 60-125 " " " " "  DPE-1 35' (MQK0636-07) Soil Sampled: 11/19/07 13:10 Received: 11/20/07 10:53  ert-Amyl methyl ether ND 0.0050 mg/kg 1 7K27005 11/27/07 11/27/07 EPA 8260B 3enzene ND 0.0050 " " " " " " " " " " " " " " " " " "	Surrogate: Dibromofluoromethane	!	102 %	50-13	35	11	"	"	"	
Surrogate: 4-Bromofluorobenzene 92 % 60-125 " " " " " " " " " " " " " " " " " " "	Surrogate: 1,2-Dichloroethane-d4		116%	65-13	15	"	"	n	"	
DPE-1 35' (MQK0636-07) Soil   Sampled: 11/19/07 13:10   Received: 11/20/07 10:53	Surrogate: Toluene-d8		96 %	70-12	20	n	"	"	"	
Series   ND   0.0050   mg/kg   1   7K27005   11/27/07   11/27/07   EPA 8260B   Series   ND   0.0050   "	Surrogate: 4-Bromofluorobenzene		92 %	60-12	25	"	"	"	n	
Senzene	DPE-1 35' (MQK0636-07) Soil	Sampled: 11/19/07 13:10	Receive	d: 11/20/07	10:53					
Part	tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7K27005	11/27/07	11/27/07	EPA 8260B	
Di-isopropyl ether ND 0.0050 " " " " " " " " " " " " " " " " " "	Benzene	ND	0.0050	"	"	**	n	n	H	
1,2-Dibromoethane (EDB)	tert-Butyl alcohol	ND	0.020	"	n	n	0	11	II .	
ND   0.0050	Di-isopropyl ether	ND	0.0050	II .	n	п	U	**	"	
Ethanol ND 0.10 " " " " " " " " " " " " " " " " " " "	1,2-Dibromoethane (EDB)	ND	0.0050	11	#	п	"	"	n	
Ethyl tert-butyl ether ND 0.0050 " " " " " " " " " " " " " " " " " "	1,2-Dichloroethane	ND	0.0050	u	"	n	11	If	п	
Ethylbenzene         ND         0.0050         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "	Ethanol	ND	0.10	n .	n	п	Ħ	Ħ	"	
Methyl tert-butyl ether ND 0.0050 " " " " " " " " " " " " " " " " " "	Ethyl tert-butyl ether	ND	0.0050	ti .	11	II .	11	"	"	
Foluene         ND         0.0050         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         <	Ethylbenzene	ND	0.0050	H	**	#	н	н	II	
Kylenes (total)         ND         0.0050         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "	Methyl tert-butyl ether	ND	0.0050	**	**	**	II.	11	н	
Kylenes (total)         ND         0.0050         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "	Toluene	ND	0.0050	H	п	n	"	и	u	
Surrogate: 1,2-Dichloroethane-d4 92 % 65-135 " " " " " " " " " " " " " " " " " " "	Xylenes (total)	ND	0.0050	#1	11	#	H	"	IF	
Surrogate: Toluene-d8 100 % 70-120 " " " "	Surrogate: Dibromofluoromethane		93 %	50-13	5	"	"	"	"	
	Surrogate: 1,2-Dichloroethane-d4		92 %	65-13	5	"	"	"	"	
'urrogate: 4-Bromofluorobenzene 99 % 60-125 " " " "	Surrogate: Toluene-d8		100 %	70-12	0	"	"	"	"	
	Surrogate: 4-Bromofluorobenzene		99 %	60-12	5	"	"	"	"	





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQK0636 Reported: 12/05/07 15:10

# Conventional Chemistry Parameters by APHA/EPA Methods Tost Amorica, Morgan Hill, CA

TestAmerica	-	Morgan	HIII,	CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DPE-1 25' (MQK0636-05) Soil	Sampled: 11/19/07 13:00	Received	l: 11/20/	07 10:53					
Percent Solids	84	1.0	%	1	7K26008	11/22/07	11/26/07	SM2540G	
DPE-1 35' (MQK0636-07) Soil	Sampled: 11/19/07 13:10	Received	l: 11/20/	07 10:53					
Percent Solids	80	1.0	%	1	7K26008	11/22/07	11/26/07	SM2540G	





Project: BP Heritage #11117,Oakland, CA

Spike

Source

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQK0636 Reported: 12/05/07 15:10

RPD

%REC

#### Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control TestAmerica - Morgan Hill, CA

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7K27005 - EPA 5030B P/T / I	UFT GCMS									
Blank (7K27005-BLK1)				Prepared &	& Analyz	ed: 11/27/	07			
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.00506		"	0.00500		101	65-135			
Surrogate: 4-Bromofluorobenzene	0.00488		"	0.00500		98	60-125			
Surrogate: Dibromofluoromethane	0.00516		"	0.00500		103	50-135			
Surrogate: Toluene-d8	0.00498		"	0.00500		100	70-120			
Laboratory Control Sample (7K27005-I	BS2)			Prepared &	& Analyze	ed: 11/27/	07			
Gasoline Range Organics (C4-C12)	0.966	0.10	mg/kg	1.00		97	60-120			
Surrogate: 1,2-Dichloroethane-d4	0.00544		"	0.00500		109	65-135			
Surrogate: 4-Bromofluorobenzene	0.00522		"	0.00500		104	60-125			
Surrogate: Dibromofluoromethane	0.00502		"	0.00500		100	50-135			
Surrogate: Toluene-d8	0.00506		"	0.00500		101	70-120			
Laboratory Control Sample Dup (7K27)	005-BSD2)			Prepared &	k Analyze	ed: 11/27/	)7			
Gasoline Range Organics (C4-C12)	0.994	0.10	mg/kg	1.00		99	60-120	3	40	
Surrogate: 1,2-Dichloroethane-d4	0.00504		"	0.00500		101	65-135			
Surrogate: 4-Bromofluorobenzene	0.00526		"	0.00500		105	60-125			
Surrogate: Dibromofluoromethane	0.00512		"	0.00500		102	50-135			
Surrogate: Toluene-d8	0.00504		"	0.00500		101	70-120			
Matrix Spike (7K27005-MS1)	Source: MQ	QK0711-01		Prepared &	λ Analyze	ed: 11/27/0	)7			
Gasoline Range Organics (C4-C12)	1.12	0.10	mg/kg	1.10	0.321	73	50-135			
Surrogate: 1,2-Dichloroethane-d4	0.00466		"	0.00500		93	65-135			
Surrogate: 4-Bromofluorobenzene	0.00428		"	0.00500		86	60-125			
Surrogate: Dibromofluoromethane	0.00486		"	0.00500		97	50-135			
Surrogate: Toluene-d8	0.00480		"	0.00500		96	70-120			
Matrix Spike Dup (7K27005-MSD1)	Source: MQ	K0711-01		Prepared &	. Analyze	d: 11/27/0	)7			
Gasoline Range Organics (C4-C12)	0.949	0.10	mg/kg	1.10	0.321	57	50-135	17	40	
Surrogate: 1,2-Dichloroethane-d4	0.00482		"	0.00500		96	65-135			
Surrogate: 4-Bromofluorobenzene	0.00402		"	0.00500		80	60-125			
Surrogate: Dibromofluoromethane	0.00512		"	0.00500		102	50-135			
Surrogate: Toluene-d8	0.00476		"	0.00500		95	70-120			





Project: BP Heritage #11117,Oakland, CA

Spike

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQK0636 Reported: 12/05/07 15:10

RPD

%REC

# Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control TestAmerica - Morgan Hill, CA

Reporting

i		Reporting		Spike	Source		70KEC		KPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7L04043 - EPA 5030В Р/Г	/ LUFT GCMS									
Blank (7L04043-BLK1)				Prepared:	11/23/07	Analyzed	: 12/04/07			
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.00552		"	0.00500		110	65-135			
Surrogate: 4-Bromofluorobenzene	0.00472		"	0.00500		94	60-125			
Surrogate: Dibromofluoromethane	0.00502		"	0.00500		100	50-135			
Surrogate: Toluene-d8	0.00490		"	0.00500		98	70-120			
Laboratory Control Sample (7L04043	3-BS2)			Prepared &	& Analyz	ed: 12/04/0	17			
Gasoline Range Organics (C4-C12)	0.966	0.10	mg/kg	1.00		97	60-120			
Surrogate: 1,2-Dichloroethane-d4	0.00584		"	0.00500		117	65-135			
Surrogate: 4-Bromofluorobenzene	0.00502		"	0.00500		100	60-125			
Surrogate: Dibromofluoromethane	0.00516		"	0.00500		103	50-135			
Surrogate: Toluene-d8	0.00514		"	0.00500		103	70-120			
Laboratory Control Sample Dup (7L0	04043-BSD2)			Prepared &	& Analyz	ed: 12/04/0	7			
Gasoline Range Organics (C4-C12)	0.875	0.10	mg/kg	1.00		88	60-120	10	40	
Surrogate: 1,2-Dichloroethane-d4	0.00544		"	0.00500		109	65-135			
Surrogate: 4-Bromofluorobenzene	0.00518		"	0.00500		104	60-125			
Surrogate: Dibromofluoromethane	0.00496		"	0.00500		99	50-135			
Surrogate: Toluene-d8	0.00498		"	0.00500		100	70-120			
Matrix Spike (7L04043-MS2)	Source: M	QL0021-031	RE1	Prepared:	12/04/07	Analyzed:	12/05/07			
Gasoline Range Organics (C4-C12)	1.23	0.10	mg/kg	1.10	ND	112	50-135			
Surrogate: 1,2-Dichloroethane-d4	0.00546		"	0.00500		109	65-135			
Surrogate: 4-Bromofluorobenzene	0.00510		"	0.00500		102	60-125			
Surrogate: Dibromofluoromethane	0.00540		"	0.00500		108	50-135			
Surrogate: Toluene-d8	0.00506		"	0.00500		101	70-120			
Matrix Spike Dup (7L04043-MSD2)	Source: M	QL0021-03I	RE1	Prepared:	12/04/07	Analyzed:	12/05/07			
Gasoline Range Organics (C4-C12)	1.06	0.10	mg/kg	1.10	ND	97	50-135	15	40	
Surrogate: 1,2-Dichloroethane-d4	0.00534		"	0.00500		107	65-135			
Surrogate: 4-Bromofluorobenzene	0.00514		"	0.00500		103	60-125			
Surrogate: Dibromofluoromethane	0.00558		"	0.00500		112	50-135			
Surrogate: Toluene-d8	0.00516		"	0.00500		103	70-120			





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQK0636 Reported: 12/05/07 15:10

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7K27005 - EPA 5030B P/T	EPA 8260B									
Blank (7K27005-BLK1)				Prepared a	& Analyze	d: 11/27/	07			
tert-Amyl methyl ether	ND	0.0050	mg/kg							
Benzene	ND	0.0050	н							
tert-Butyl alcohol	ND	0.020	H H							
Di-isopropyl ether	ND	0.0050	41							
1,2-Dibromoethane (EDB)	ND	0.0050	**							
1,2-Dichloroethane	ND	0.0050	n							
Ethanol	ND	0.10	ш							
Ethyl tert-butyl ether	ND	0.0050	u							
Ethylbenzene	ND	0.0050	11							
Methyl tert-butyl ether	ND	0.0050	п							
Toluene	ND	0.0050	11							
Xylenes (total)	ND	0.0050	"							
Surrogate: Dibromofluoromethane	0.00516		"	0.00500		103	50-135			
Surrogate: 1,2-Dichloroethane-d4	0.00506		"	0.00500		101	65-135			
Surrogate: Toluene-d8	0.00498		"	0.00500		100	70-120			
Surrogate: 4-Bromofluorobenzene	0.00488		"	0.00500		98	60-125			
Laboratory Control Sample (7K27005	-BS1)			Prepared &	k Analyze	d: 11/27/0	)7			
tert-Amyl methyl ether	0.0217	0.0050	mg/kg	0.0200		108	65-145			
Benzene	0.0214	0.0050	11	0.0200		107	75-125			
tert-Butyl alcohol	0.370	0.020	U	0.400		93	70-125			
Di-isopropyl ether	0.0208	0.0050	н	0.0200		104	60-140			
1,2-Dibromoethane (EDB)	0.0217	0.0050	"	0.0200		108	75-140			
1,2-Dichloroethane	0.0208	0.0050	"	0.0200		104	70-135			
Ethanol	0.431	0.10	n	0.400		108	45-150			
Ethyl tert-butyl ether	0.0210	0.0050	II.	0.0200		105	65-140			
Ethylbenzene	0.0223	0.0050	#	0.0200		112	75-130			
Methyl tert-butyl ether	0.0205	0.0050	"	0.0200		102	60-140			
Toluene	0.0216	0.0050	n	0.0200		108	75-135			
Xylenes (total)	0.0668	0.0050	п	0.0600		111	75-135			
Surrogate: Dibromofluoromethane	0.00528		"	0.00500		106	50-135			
Surrogate: 1,2-Dichloroethane-d4	0.00486		"	0.00500		97	65-135			
Surrogate: Toluene-d8	0.00504		"	0.00500		101	70-120			
Surrogate: 4-Bromofluorobenzene	0.00508		"	0.00500		102	60-125			





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035 Project Manager: Jay Johnson MQK0636 Reported: 12/05/07 15:10

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

Matrix Spike (7K27005-MS1)	Source: M	QK0711-01		Prepared &	& Analyz	ed: 11/27	/07			
tert-Amyl methyl ether	0.0232	0.0050	mg/kg	0.0200	ND	116	65-140			
Benzene	0.0228	0.0050	"	0.0200	ND	114	65-145			
tert-Butyl alcohol	0.383	0.020	H	0.400	ND	96	70-130			
Di-isopropyl ether	0.0218	0.0050	"	0.0200	ND	109	65-145			
1,2-Dibromoethane (EDB)	0.0189	0.0050	n	0.0200	ND	95	60-150			
1,2-Dichloroethane	0.0199	0.0050	11	0.0200	ND	100	60-140			
Ethanol	0.270	0.10	"	0.400	ND	67	35-150			
Ethyl tert-butyl ether	0.0222	0.0050	0	0.0200	ND	111	65-150			
Ethylbenzene	0.0249	0.0050	#	0.0200	ND	125	75-140			
Methyl tert-butyl ether	0.0212	0.0050	**	0.0200	ND	106	60-150			
Toluene	0.0224	0.0050	n	0.0200	ND	112	65-140			
Xylenes (total)	0.0762	0.0050	u	0.0600	ND	127	70-145			
Surrogate: Dibromofluoromethane	0.00486		"	0.00500		97	50-135			
Surrogate: 1,2-Dichloroethane-d4	0.00466		"	0.00500		93	65-135			
Surrogate: Toluene-d8	0.00480		"	0.00500		96	70-120			
Surrogate: 4-Bromofluorobenzene	0.00428		"	0.00500		86	60-125			
Matrix Spike Dup (7K27005-MSD1)	Source: M	QK0711-01		Prepared &	z Analyze	ed: 11/27	07			
tert-Amyl methyl ether	0.0233	0.0050	mg/kg	0.0200	ND	117	65-140	0.5	25	
Benzene	0.0215	0.0050	ii .	0.0200	ND	107	65-145	6	25	
tert-Butyl alcohol	0.367	0.020	"	0.400	ND	92	70-130	4	25	
Di-isopropyl ether	0.0220	0.0050	"	0.0200	ND	110	65-145	1	40	
1,2-Dibromoethane (EDB)	0.0173	0.0050	tt.	0.0200	ND	87	60-150	9	30	
1,2-Dichloroethane	0.0196	0.0050	11	0.0200	ND	98	60-140	2	25	
Ethanol	0.188	0.10	"	0.400	ND	47	35-150	36	30	LN
Ethyl tert-butyl ether	0.0229	0.0050	H	0.0200	ND	114	65-150	3	30	
Ethylbenzene	0.0188	0.0050	"	0.0200	ND	94	75-140	28	30	
Methyl tert-butyl ether	0.0219	0.0050	"	0.0200	ND	110	60-150	3	25	
Toluene	0.0183	0.0050	0	0.0200	ND	92	65-140	20	25	
Xylenes (total)	0.0571	0.0050	**	0.0600	ND	95	70-145	29	30	
Surrogate: Dibromofluoromethane	0.00512		"	0.00500		102	50-135			
Surrogate: 1,2-Dichloroethane-d4	0.00482		"	0.00500		96	65-135			
Surrogate: Toluene-d8	0.00476		"	0.00500		95	70-120			
Surrogate: 4-Bromofluorobenzene	0.00402		"	0.00500		80	60-125			





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035 Project Manager: Jay Johnson MQK0636 Reported: 12/05/07 15:10

Retr-Amyl methyl ether	Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Inter-Amyl methyl ether   ND	Batch 7L04043 - EPA 5030B P/I	7 / EPA 8260B									-
Benzene	Blank (7L04043-BLK1)				Prepared:	11/23/07	Analyzed	: 12/04/07			
Di-isopropy  ether	tert-Amyl methyl ether	ND	0.0050	mg/kg							
No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.	Benzene	ND	0.0050	tt.							
1,2-Dibromoethane (EDB)	tert-Butyl alcohol	ND	0.020	11							
1,2-Dichloroethane	Di-isopropyl ether	ND	0.0050	"							
Ethyl terr-butyl ether   ND	1,2-Dibromoethane (EDB)	ND	0.0050	"							
Ethyl terr-butyl ether ND 0.0050 " Ethylbenzene ND 0.0050 " Muchyl terr-butyl ether ND 0.0050 " Toluene ND 0.0050 " Xylenes (total) ND 0.0050 "  Surrogate: Dibromofluoromethane 0.00502 " 0.00500 110 50-135 Surrogate: 1,2-Dichloroethane-44 0.00552 " 0.00500 110 65-135 Surrogate: 4-Bromofluorobenzene 0.00472 " 0.00500 94 60-125  Laboratory Control Sample (TL04043-BS1) " Prepared & Analyzed: 12/04/07  Tetert-Amyl methyl ether 0.0230 0.0050 " 0.00200 111 75-125 Benzene 0.0222 0.0050 " 0.0200 111 75-125 Benzene 0.0223 0.0050 " 0.0000 111 75-125 Benzene 0.0224 0.0050 " 0.0200 111 75-125 Benzene 0.0225 0.0050 " 0.0200 118 60-140 1,2-Dibromoethane (EDB) 0.0240 0.0050 " 0.0200 120 75-140 1,2-Dichloroethane (EDB) 0.0240 0.0050 " 0.0200 120 75-140 1,2-Dichloroethane (DBB) 0.0240 0.0050 " 0.0200 111 75-135 Bethanol 0.465 0.10 " 0.0200 111 75-135 Bethyl tert-butyl ether 0.0223 0.0050 " 0.0200 111 75-135 Bethyl tert-butyl ether 0.0233 0.0050 " 0.0200 111 75-135 Bethyl tert-butyl ether 0.0233 0.0050 " 0.0200 111 75-135 Bethyl tert-butyl ether 0.0233 0.0050 " 0.0200 111 75-135 Bethyl tert-butyl ether 0.0233 0.0050 " 0.0200 111 75-135 Bethyl tert-butyl ether 0.0233 0.0050 " 0.0200 111 75-135 Bethyl tert-butyl ether 0.0234 0.0050 " 0.0200 111 75-135 Bethyl tert-butyl ether 0.0235 0.0050 " 0.0200 111 75-135 Bethyl tert-butyl ether 0.0236 0.0050 " 0.0200 111 75-135 Bethyl tert-butyl ether 0.0238 0.0050 " 0.0200 111 75-135 Bethyl tert-butyl ether 0.0238 0.0050 " 0.0200 111 75-135 Bethyl tert-butyl ether 0.0238 0.0050 " 0.0200 111 75-135 Bethyl tert-butyl ether 0.0238 0.0050 " 0.0200 112 65-140 Bethyl tert-butyl ether 0.0238 0.0050 " 0.0200 111 75-135 Bethyl tert-butyl ether 0.0238 0.0050 " 0.0200 112 65-140 Bethyl tert-butyl ether 0.0238 0.0050 " 0.0200 111 75-135 Bethyl tert-butyl ether 0.0238 0.0050 " 0.0200 111 75-135 Bethyl tert-butyl ether 0.0238 0.0050 " 0.0200 111 75-135 Bethyl tert-butyl ether 0.0238 0.0050 " 0.0200 111 75-135 Bethyl tert-butyl ether 0.0238 0.0050 " 0.0200 111 75-135 Bethyl tert-butyl ether 0.0238 0.0050 "	1,2-Dichloroethane	ND	0.0050	n							
Methyl tert-butyl ether	Ethanol	ND	0.10	11							
Methyl tert-butyl ether ND 0.0050 " Toluene ND 0.0050 " Xylenes (total) ND 0.0050 "  Surrogate: Dibromofluoromethane 0.00502 " 0.00500 100 50-135 Surrogate: Toluene-d8 0.00490 " 0.00500 98 70-120 Surrogate: A-Bromofluorobenzene 0.00472 " 0.00500 94 60-125  Laboratory Control Sample (7L04043-BS1) " Prepared & Analyzed: 12/04/07  tert-Amyl methyl ether 0.0230 0.0050 mg/kg 0.0200 115 65-145 Benzene 0.0222 0.0050 " 0.0200 111 75-125  tert-Butyl alcohol 0.393 0.020 " 0.0400 98 70-125  Di-isopropyl ether 0.0237 0.0050 " 0.0200 111 60-140 1,2-Dibromoethane (EDB) 0.0240 0.0050 " 0.0200 118 60-140 1,2-Dibromoethane (EDB) 0.0240 0.0050 " 0.0200 120 75-140 1,2-Dibromoethane (EDB) 0.0250 0.0050 " 0.0200 125 70-135  Ethanol 0.465 0.10 " 0.400 116 45-150  Ethyl tert-butyl ether 0.0233 0.0050 " 0.0200 111 75-130  Methyl tert-butyl ether 0.0233 0.0050 " 0.0200 117 60-140  Toluene 0.0238 0.0050 " 0.0200 117 75-135  Surrogate: Libromofluoromethane 0.0054 " 0.0200 117 75-135  Surrogate: Libromofluoromethane 0.00558 " 0.0200 117 75-135  Surrogate: Libromofluoromethane 0.00558 " 0.00500 112 75-135  Surrogate: Libromofluoromethane 0.00558 " 0.00500 112 75-135  Surrogate: Libromofluoromethane 0.00558 " 0.00500 112 75-135  Surrogate: Libromofluoromethane 0.00558 " 0.00500 112 75-135  Surrogate: Libromofluoromethane 0.00558 " 0.00500 112 75-135  Surrogate: Libromofluoromethane 0.00558 " 0.00500 112 75-135  Surrogate: Libromofluoromethane 0.00558 " 0.00500 112 75-135	Ethyl tert-butyl ether	ND	0.0050	н							
Toluene   ND   0.0050   "	Ethylbenzene	ND	0.0050								
ND   0.0050   "	Methyl tert-butyl ether	ND	0.0050	n							
Surrogate: Dibromofluoromethane   0.00502   " 0.00500   100   50-135	Toluene	ND	0.0050	n							
Surrogate: 1,2-Dichloroethane-d4	Xylenes (total)	ND	0.0050	н							
Surrogate: Toluene-d8	Surrogate: Dibromofluoromethane	0.00502		"	0.00500		100	50-135			
None	Surrogate: 1,2-Dichloroethane-d4	0.00552		"	0.00500		110	65-135			
Laboratory Control Sample (7L04043-BS1)  Prepared & Analyzed: 12/04/07  tert-Amyl methyl ether 0.0230 0.0050 mg/kg 0.0200 115 65-145  Benzene 0.0222 0.0050 " 0.0200 111 75-125  tert-Butyl alcohol 0.393 0.020 " 0.400 98 70-125  Di-isopropyl ether 0.0237 0.0050 " 0.0200 118 60-140  1,2-Dibromoethane (EDB) 0.0240 0.0050 " 0.0200 120 75-140  1,2-Dichloroethane 0.0250 0.0050 " 0.0200 125 70-135  Ethanol 0.465 0.10 " 0.400 116 45-150  Ethyl tert-butyl ether 0.0239 0.0050 " 0.0200 120 65-140  Ethyl tert-butyl ether 0.0239 0.0050 " 0.0200 120 65-140  Ethyl tert-butyl ether 0.0233 0.0050 " 0.0200 111 75-130  Methyl tert-butyl ether 0.0233 0.0050 " 0.0200 117 60-140  Toluene 0.0208 0.0050 " 0.0200 117 60-140  Toluene 0.0208 0.0050 " 0.0200 112 75-135  Surrogate: Dibromofluoromethane 0.00558 " 0.00500 112 75-135  Surrogate: Dibromofluoromethane 0.00558 " 0.00500 112 65-135  Surrogate: Toluene-d8 0.00510 " 0.00500 112 65-135  Surrogate: Toluene-d8 0.00510 " 0.00500 102 70-120	Surrogate: Toluene-d8	0.00490		"	0.00500		98	70-120			
tert-Amyl methyl ether 0.0230 0.0050 mg/kg 0.0200 115 65-145 Benzene 0.0222 0.0050 " 0.0200 111 75-125 tert-Butyl alcohol 0.393 0.020 " 0.400 98 70-125 Di-isopropyl ether 0.0237 0.0050 " 0.0200 118 60-140 1,2-Dibromoethane (EDB) 0.0240 0.0050 " 0.0200 120 75-140 1,2-Dichloroethane 0.0250 0.0050 " 0.0200 125 70-135 Ethanol 0.465 0.10 " 0.400 116 45-150 Ethyl tert-butyl ether 0.0239 0.0050 " 0.0200 120 65-140 Ethyl tert-butyl ether 0.0239 0.0050 " 0.0200 111 75-130 Methyl tert-butyl ether 0.0233 0.0050 " 0.0200 111 75-130 Methyl tert-butyl ether 0.0233 0.0050 " 0.0200 117 60-140 Toluene 0.0208 0.0050 " 0.0200 114 75-135 Xylenes (total) 0.0670 0.0050 " 0.00600 112 75-135 Surrogate: Dibromofluoromethane 0.00524 " 0.00500 105 50-135 Surrogate: 1,2-Dichloroethane-d4 0.00558 " 0.00500 102 70-120	Surrogate: 4-Bromofluorobenzene	0.00472		"	0.00500		94	60-125			
Benzene 0.0222 0.0050 " 0.0200 111 75-125 tert-Butyl alcohol 0.393 0.020 " 0.400 98 70-125 Di-isopropyl ether 0.0237 0.0050 " 0.0200 118 60-140 1,2-Dibromoethane (EDB) 0.0240 0.0050 " 0.0200 120 75-140 1,2-Dichloroethane 0.0250 0.0050 " 0.0200 125 70-135 Ethanol 0.465 0.10 " 0.400 116 45-150 Ethyl tert-butyl ether 0.0239 0.0050 " 0.0200 120 65-140 Ethyl tert-butyl ether 0.0239 0.0050 " 0.0200 111 75-130 Methyl tert-butyl ether 0.0233 0.0050 " 0.0200 111 75-135  Methyl tert-butyl ether 0.0233 0.0050 " 0.0200 117 60-140 Toluene 0.0208 0.0050 " 0.0200 1104 75-135  Xylenes (total) 0.0670 0.0050 " 0.00500 112 75-135  Surrogate: Dibromofluoromethane 0.00558 " 0.00500 112 65-135  Surrogate: 1,2-Dichloroethane-d4 0.00558 " 0.00500 112 65-135  Surrogate: Toluene-d8 0.00510 " 0.00500 102 70-120	Laboratory Control Sample (7L0404	13-BS1)			Prepared &	& Analyze	d: 12/04/0	)7			
tert-Butyl alcohol 0.393 0.020 " 0.400 98 70-125 Di-isopropyl ether 0.0237 0.0050 " 0.0200 118 60-140 1,2-Dibromoethane (EDB) 0.0240 0.0050 " 0.0200 120 75-140 1,2-Dichloroethane 0.0250 0.0050 " 0.0200 125 70-135 Ethanol 0.465 0.10 " 0.400 116 45-150 Ethyl tert-butyl ether 0.0239 0.0050 " 0.0200 120 65-140 Ethyl tert-butyl ether 0.0222 0.0050 " 0.0200 111 75-130 Methyl tert-butyl ether 0.0233 0.0050 " 0.0200 111 75-135 Toluene 0.0208 0.0050 " 0.0200 117 60-140 Toluene 0.0208 0.0050 " 0.0200 112 75-135  Exyrogate: Dibromofluoromethane 0.00524 " 0.00500 112 75-135  Surrogate: Li_2-Dichloroethane-d4 0.00558 " 0.00500 112 65-135  Surrogate: Toluene-d8 0.00510 " 0.00500 112 70-120	tert-Amyl methyl ether	0.0230	0.0050	mg/kg	0.0200		115	65-145			
Discrete of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the con	Benzene	0.0222	0.0050	**	0.0200		111	75-125			
1,2-Dibromoethane (EDB)	tert-Butyl alcohol	0.393	0.020	н	0.400		98	70-125			
1,2-Dichloroethane       0.0250       0.0050       " 0.0200       125       70-135         Ethanol       0.465       0.10       " 0.400       116       45-150         Ethyl tert-butyl ether       0.0239       0.0050       " 0.0200       120       65-140         Ethylbenzene       0.0222       0.0050       " 0.0200       111       75-130         Methyl tert-butyl ether       0.0233       0.0050       " 0.0200       117       60-140         Toluene       0.0208       0.0050       " 0.0200       104       75-135         Xylenes (total)       0.0670       0.0050       " 0.0600       112       75-135         Surrogate: Dibromofluoromethane       0.00524       " 0.00500       105       50-135         Surrogate: 1,2-Dichloroethane-d4       0.00558       " 0.00500       112       65-135         Surrogate: Toluene-d8       0.00510       " 0.00500       102       70-120	Di-isopropyl ether	0.0237	0.0050	п	0.0200		118	60-140			
Ethanol       0.465       0.10       " 0.400       116       45-150         Ethyl tert-butyl ether       0.0239       0.0050       " 0.0200       120       65-140         Ethylbenzene       0.0222       0.0050       " 0.0200       111       75-130         Methyl tert-butyl ether       0.0233       0.0050       " 0.0200       117       60-140         Toluene       0.0208       0.0050       " 0.0200       104       75-135         Xylenes (total)       0.0670       0.0050       " 0.0600       112       75-135         Surrogate: Dibromofluoromethane       0.00524       " 0.00500       105       50-135         Surrogate: 1,2-Dichloroethane-d4       0.00558       " 0.00500       112       65-135         Surrogate: Toluene-d8       0.00510       " 0.00500       102       70-120	1,2-Dibromoethane (EDB)	0.0240	0.0050	11	0.0200		120	75-140			
Ethyl tert-butyl ether         0.0239         0.0050         "         0.0200         120         65-140           Ethylbenzene         0.0222         0.0050         "         0.0200         111         75-130           Methyl tert-butyl ether         0.0233         0.0050         "         0.0200         117         60-140           Toluene         0.0208         0.0050         "         0.0200         104         75-135           Xylenes (total)         0.0670         0.0050         "         0.0600         112         75-135           Surrogate: Dibromofluoromethane         0.00524         "         0.00500         105         50-135           Surrogate: 1,2-Dichloroethane-d4         0.00558         "         0.00500         112         65-135           Surrogate: Toluene-d8         0.00510         "         0.00500         102         70-120	1,2-Dichloroethane	0.0250	0.0050	n	0.0200		125	70-135			
Ethylbenzene       0.0222       0.0050       "       0.0200       111       75-130         Methyl tert-butyl ether       0.0233       0.0050       "       0.0200       117       60-140         Toluene       0.0208       0.0050       "       0.0200       104       75-135         Xylenes (total)       0.0670       0.0050       "       0.0600       112       75-135         Surrogate: Dibromofluoromethane       0.00524       "       0.00500       105       50-135         Surrogate: 1,2-Dichloroethane-d4       0.00558       "       0.00500       112       65-135         Surrogate: Toluene-d8       0.00510       "       0.00500       102       70-120	Ethanol	0.465	0.10	н	0.400		116	45-150			
Methyl tert-butyl ether       0.0233       0.0050       "       0.0200       117       60-140         Toluene       0.0208       0.0050       "       0.0200       104       75-135         Xylenes (total)       0.0670       0.0050       "       0.0600       112       75-135         Surrogate: Dibromofluoromethane       0.00524       "       0.00500       105       50-135         Surrogate: 1,2-Dichloroethane-d4       0.00558       "       0.00500       112       65-135         Surrogate: Toluene-d8       0.00510       "       0.00500       102       70-120	Ethyl tert-butyl ether	0.0239	0.0050	"	0.0200		120	65-140			
Toluene         0.0208         0.0050         "         0.0200         104         75-135           Xylenes (total)         0.0670         0.0050         "         0.0600         112         75-135           Surrogate: Dibromofluoromethane         0.00524         "         0.00500         105         50-135           Surrogate: 1,2-Dichloroethane-d4         0.00558         "         0.00500         112         65-135           Surrogate: Toluene-d8         0.00510         "         0.00500         102         70-120	Ethylbenzene	0.0222	0.0050	"	0.0200		111	75-130			
Xylenes (total)         0.0670         0.0050         "         0.0600         112         75-135           Surrogate: Dibromofluoromethane         0.00524         "         0.00500         105         50-135           Surrogate: 1,2-Dichloroethane-d4         0.00558         "         0.00500         112         65-135           Surrogate: Toluene-d8         0.00510         "         0.00500         102         70-120	Methyl tert-butyl ether	0.0233	0.0050		0.0200		117	60-140			
Surrogate: Dibromofluoromethane       0.00524       " 0.00500       105       50-135         Surrogate: 1,2-Dichloroethane-d4       0.00558       " 0.00500       112       65-135         Surrogate: Toluene-d8       0.00510       " 0.00500       102       70-120	Toluene	0.0208	0.0050	*	0.0200		104	75-135			
Surrogate: 1,2-Dichloroethane-d4       0.00558       " 0.00500       112 65-135         Surrogate: Toluene-d8       0.00510       " 0.00500       102 70-120	Xylenes (total)	0.0670	0.0050	"	0.0600		112	75-135			
Surrogate: Toluene-d8 0.00510 " 0.00500 102 70-120	Surrogate: Dibromofluoromethane	0.00524		n n	0.00500		105	50-135			
	Surrogate: 1,2-Dichloroethane-d4	0.00558		n	0.00500		112	65-135			
Surrogate: 4-Bromofluorobenzene 0.00532 " 0.00500 106 60-125	Surrogate: Toluene-d8	0.00510		n	0.00500		102	70-120			
	Surrogate: 4-Bromofluorobenzene	0.00532		"	0.00500		106	60-125			





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQK0636 Reported: 12/05/07 15:10

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

Matrix Spike (7L04043-MS1)	Source: M	QL0021-03		Prepared:	: 12/04/07	Analyzed	d: 12/05/07			
tert-Amyl methyl ether	0.0224	0.0050	mg/kg	0.0200	ND	112	65-140			
Benzene	0.0225	0.0050	#1	0.0200	ND	113	65-145			
tert-Butyl alcohol	0.410	0.020	n	0.400	ND	102	70-130			
Di-isopropyl ether	0.0238	0.0050	н	0.0200	ND	119	65-145			
1,2-Dibromoethane (EDB)	0.0236	0.0050	11	0.0200	ND	118	60-150			
1,2-Dichloroethane	0.0250	0.0050	11	0.0200	ND	125	60-140			
Ethanol	0.465	0.10	ń	0.400	ND	116	35-150			
Ethyl tert-butyl ether	0.0241	0.0050	#	0.0200	ND	120	65-150			
Ethylbenzene	0.0232	0.0050	"	0.0200	ND	116	75-140			
Methyl tert-butyl ether	0.0221	0.0050	п	0.0200	ND	111	60-150			
Toluene	0.0212	0.0050	ш	0.0200	0.000400	104	65-140			
Xylenes (total)	0.0688	0.0050		0.0600	0.000220	114	70-145			
Surrogate: Dibromofluoromethane	0.00540		"	0.00500		108	50-135			
Surrogate: 1,2-Dichloroethane-d4	0.00546		"	0.00500		109	65-135			
Surrogate: Toluene-d8	0.00506		"	0.00500		101	70-120			
Surrogate: 4-Bromofluorobenzene	0.00510		"	0.00500		102	60-125			
Matrix Spike Dup (7L04043-MSD1)	Source: Mo	QL0021-03		Prepared:	12/04/07	Analyzed	l: 12/05/07			
ert-Amyl methyl ether	0.0214	0.0050	mg/kg	0.0200	ND	107	65-140	4	25	
Benzene	0.0213	0.0050	"	0.0200	ND	106	65-145	6	25	
ert-Butyl alcohol	0.375	0.020	II .	0.400	ND	94	70-130	9	25	
Di-isopropyl ether	0.0224	0.0050	#	0.0200	ND	112	65-145	6	40	
1,2-Dibromoethane (EDB)	0.0213	0.0050	"	0.0200	ND	107	60-150	10	30	
1,2-Dichloroethane	0.0233	0.0050	"	0.0200	ND	116	60-140	7	25	
Ethanol	0.442	0.10	п	0.400	ND	110	35-150	5	30	
Ethyl tert-butyl ether	0.0223	0.0050	"	0.0200	ND	111	65-150	8	30	
Ethylbenzene	0.0213	0.0050	u	0.0200	ND	107	75-140	8	30	
Methyl tert-butyl ether	0.0209	0.0050	11	0.0200	ND	104	60-150	6	25	
Toluene	0.0201	0.0050	п	0.0200	0.000400	99	65-140	5	25	
Xylenes (total)	0.0645	0.0050	*	0.0600	0.000220	107	70-145	6	30	
Surrogate: Dibromofluoromethane	0.00558		"	0.00500		112	50-135			
Surrogate: 1,2-Dichloroethane-d4	0.00534		"	0.00500		107	65-135			
Surrogate: Toluene-d8	0.00516		"	0.00500		103	70-120			
Surrogate: 4-Bromofluorobenzene	0.00514		"	0.00500		103	60-125			



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

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682

Project: BP Heritage #11117,Oakland, CA

MQK0636 Project Number: G07TK-0035 Reported: Project Manager: Jay Johnson 12/05/07 15:10

# Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control TestAmerica - Morgan Hill, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7K26008 - General Prepara	tion / SM2540G									

Blank (7K26008-BLK1)				Prepared: 11/22/07 Analyzed: 11/26/07			
Percent Solids	ND	1.0	%				
Duplicate (7K26008-DUP1)	Source: MQI	<b>K0636-05</b>		Prepared: 11/22/07 Analyzed: 11/26/07			
Percent Solids	84.7	1.0	%	84.5	0.2	20	



Relative Percent Difference

RPD

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

Stratus Environmental Inc. [Arco]	Project:	BP Heritage #11117,Oakland, CA	MQK0636
3330 Cameron Park Dr., Suite 550	Project Number:	G07TK-0035	Reported:
Cameron Park CA, 95682	Project Manager:	Jay Johnson	12/05/07 15:10

#### Notes and Definitions

LN	MS and/or MSD below acceptance limits. See Blank Spike(LCS).
BU	Sample analyzed after holding time expired
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

#### Lisa Race

From:

Sandy Hayes [shayes@stratusinc.net]

Sent:

Monday, November 26, 2007 9:38 AM

To:

Lisa Race

Subject:

RE: COCs missing ENFOS numbers - MQK0631,MQK0632, MQK0636 & MQK0677

Attachments: Revised COC's.pdf

Hi Lisa,

The Enfos # for 11117 is G07TK-0035 (both COC's) for 11245 it is G07XV-0043 (for both COC's)

REVISED

Revised COC's attached.

Thank you,

Sandy Hayes Stratus Environmental, Inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682 shayes@stratusinc.net Phone: 530.313.9964

Fax: 530.676.6005

----Original Message----

From: Lisa Race [mailto:lisa.race@testamericainc.com]

Sent: Thursday, November 22, 2007 2:26 PM

To: knagaraju@stratusinc.net; scarter@stratusinc.net; Sandy Hayes; Scott Bittinger; Sonia Nandi

Subject: COCs missing ENFOS numbers - MQK0631, MQK0632, MQK0636 & MQK0677

Please add the ENFOS number to the attached COCs and return.

See attached. Feel free to contact me with any questions. Please note new e-mail address: Lisa.Race@Testamericainc.com

#### LISA RACE

Senior Project Manager

TestAmerica
The Leader in Environmental Testing

885 Jarvis Drive Morgan Hill, CA 95037 Tel 408.782.8156 | Fax 408.782.6308 www.testamericainc.com www.stl-inc.com

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A BP affiliated company

Chain of Custody Record

Project Name:

ARCO MEX-

BP BU/AR Region/Enfos Segment: State or Lead Regulatory Agency:

BP > Americas > West > Retail > Alameda > 11117 Alameda > Court

Requested Due Date (mm/dd/yy):

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Address: 885 Jarvis Drive	BP/AR Facility Address 2715 Reporter Com A	Consultant/Contractor: Stratus Equironmental, Inc.		
Margan Hill, CA 95937	BP/AR Facility Address: 7210 BRANCPOFT AUGUSTEE Site Let/Long: CAFLOVO, CA.	Address: 3330 Cameron Park Drive, Suite 550		
Lab PM: Lisa Race	Colifornia Classical States and States States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and State	Cameron Park, CA 95682		
Tele/Fax: 408-782-8156 408-782-6308 (fax)	E.C. D.	Consultant/Contractor Project No.:		
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Address: 2010 Crow Canyon Place, Suite 150		Cele/Fax: (530) 676-6000 / (530) 676-6005		
San Remon, CA	Sub DL T 12 4 2	tepart Type & QC Level: Level I with FDF		
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**Chain of Custody Record** 

Project Name: ARCO | NET-

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda > WIT

State or Lead Regulatory Agency:

ALAMEDA COUNTY

Requested Due Date (mm/dd/yy):

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RP & Rev. 5 10/(1/2006

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**TEST AMERICA SAMPLE RECEIPT LOG** 

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REC. BY (PRINT)	JULIEN.		DATE REC'D AT LAB:			-		For Regula	atory Purposes?
WORKORDER:	MQKO636		TIME REC'D AT LAB:	105		-		DRINE	ING WATER
HOMOROLIC	MOUNDAR		DATE LOGGED IN:	11/20	107	-		WAST	E WATER
				•				✓ OTHE	R Soî∟
CIRCLE THE APPR	OPRIATE RESPONSE	LAB	CLIENT ID	CONTAINER	PRESER	_41	SAMPLE	DATE	REMARKS:
		SAMPLE#	JEST ID	DESCRIPTION	VATIVE	рH	MATRIX	SAMPLED	CONDITION (ETC.)
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0.01	hataci / Broken*								
2. Chain-of-Custody	Present / Absent*								
3. Traffic Reports or	<b>~</b>								\oldots
Packing List:	Present / Absent			•				7 ~0	
4. Airbill:	Airbill / Sticker		•					130	<del></del>
	Present / Absent							4/	•
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6. Sample Labels;	Present / Absent					V	1.	120	* TOWN CONOLS
7. Sample IDs:	Listed / Not Listed					· • • • •	7		
· · · · · · · · · · · · · · · · · · ·	on Chain-of-Custody				-		\$0/2	5	
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hold time?	Yes/ No*	i						····	
11. Adequate sample voli	ume								
received?	€er/ No*			-/-					
12. Proper preservatives					·····				
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SAMPLERECEIPTLOG Revision 9 (10/26/07)

# Atlantic Richfield Company

A BP affiliated company

Chain	of Custody	Record
n		

Project Name:

ARCO MIL BP BU/AR Region/Enfos Segment:

State or Lead Regulatory Agency:

BP > Americas > West > Retail > Alameda > Wl7ALAMIZOA COUNTY

Requested Due Date (mm/dd/yy):

Page L of L 9700 On-site Time: Temp: 55 Off-site Time: 1430 Temp: 60 Sky Conditions: PAPALO Clours Meteorological Events: Wind Speed: Direction:

	(	Wind Speed: Direction:
Lab Name: TestAmerica	PD/AD F	Direction:
Address: 885 Jarvis Drive	BP/AR Facility No.: WV	Consultant/Contractor: Stratus Environmental Inc.
Morgan Hill, CA 95937	BP/AR Facility Address: 720 BANCROFT AUENUE	III San Monthelital, IIIC.
Lab PM: Lisa Race	CA-	135 Cameron 1 ark Drive, Suite 550
Tele/Fax: 408-782-8156 408-782-6308 (fax)	California Global ID No. 10600 100 7 01	Cameron Park, CA 95682
BP/AR PM Contact: Paul Supple	Enlos Project No.:	Consultant/Contractor Project No.:
Address: 2010 Crow Canyon Place, Suite 150	Provision or OOC (circle one) Provision	Consultant/Contractor PM: Jay Johnson
San Ramon, CA	Phase/WBS:	Tele/Fax: (530) 676-6000 / (530) 676-6005
Tele/Fax: 925-275-3506	Moud I Mase/ Lask. (13- A polytical	Report Type & QC Level: Level 1 with EDF
Lab Bottle Order No:	Cost Element: 01-Contractor labor	E-mail EDD To: shayes@stratusinc.net
Matrix	P	Invoice to: Atlantic Richfield Co.
Item No. Sample Description  Lim Date Description  Tim Date Description  Air Air	Tapocatory No. of Containers  No. of Containers  No. of Containers  No. of Containers  No. of Containers  No. of Containers  No. of Containers  No. of Containers  No. of Containers	Sample Point Lat/Long and Comments
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Sampler's Names (11)		
Sampler's Name: Collin Hischier	Belingwished Ry / Affiliation	
Sampler's Company: Steway ENV. 1NC. Shipment Date: 4-19-2-	Belinguished By Affiliation Date Time	Accepted By / Affiliation Date Time
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Please cc results to rmiller@t	roadbentinc.com	
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13 December, 2007

Jay Johnson Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park, CA 95682

RE: BP Heritage #11117,Oakland, CA Work Order: MQK0830

Enclosed are the results of analyses for samples received by the laboratory on 11/29/07 09:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race

Senior Project Manager

CA ELAP Certificate # 1210

The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.





Stratus Environmental Inc. [Arco]	Project:	BP Heritage #11117,Oakland, CA	MQK0830
3330 Cameron Park Dr., Suite 550	Project Number:	G07TK-0035	Reported:
Cameron Park CA, 95682	Project Manager:	Jay Johnson	12/13/07 10:20

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DPE-2 20'	MQK0830-01	Soil	11/21/07 09:10	11/29/07 09:35
DPE-2 30'	MQK0830-02	Soil	11/21/07 09:30	11/29/07 09:35
DPE-5 20'	MQK0830-03	Soil	11/21/07 13:20	11/29/07 09:35
DPE-5 35'	MQK0830-04	Soil	11/21/07 13:50	11/29/07 09:35

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.

Volatiles - The samples were received past the 48 hour hold time for soil sample preparation as specified in the BP GCLN.





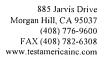
Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQK0830 Reported: 12/13/07 10:20

# Total Purgeable Hydrocarbons by GC/MS (CA LUFT) TestAmerica Morgan Hill

				0					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
DPE-2 20' (MQK0830-01) Soil Sampled	: 11/21/07 09:10	Receive	d: 11/29/07	09:35					
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	7K30039	11/29/07	12/01/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		95 %	65-1.	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	60-12	25	"	"	n .	"	
Surrogate: Dibromofluoromethane		97 %	50-1.	35	"	"	"	"	
Surrogate: Toluene-d8		96 %	70-12	20	"	"	"	n .	
DPE-2 30' (MQK0830-02) Soil Sampled	: 11/21/07 09:30	Receive	d: 11/29/07	09:35					
Gasoline Range Organics (C4-C12)	2200	250	mg/kg	100	7K21038	11/29/07	12/01/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		104 %	65-13	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96 %	60-12	25	"	"	"	"	
Surrogate: Dibromofluoromethane		95 %	50-13	35	"	"	"	"	
Surrogate: Toluene-d8		95 %	70-12	20	"	"	n	n	
DPE-5 20' (MQK0830-03) Soil Sampled	: 11/21/07 13:20	Receive	d: 11/29/07	09:35					
Gasoline Range Organics (C4-C12)	1000	250	mg/kg	100	7K21038	11/29/07	12/01/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		106 %	65-13	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96 %	60-12	25	n	"	"	"	
Surrogate: Dibromofluoromethane		100 %	50-13	35	"	"	"	"	
Surrogate: Toluene-d8		98 %	70-12	20	"	"	"	"	
DPE-5 35' (MQK0830-04) Soil Sampled	11/21/07 13:50	Received	d: 11/29/07	09:35					
Gasoline Range Organics (C4-C12)	3.5	0.10	mg/kg	1	7K30039	11/29/07	11/30/07	LUFT GCMS	PV
Surrogate: 1,2-Dichloroethane-d4		95 %	65-13	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	60-12	25	"	"	"	H .	
Surrogate: Dibromofluoromethane		91%	50-13	35	"	"	"	"	
Surrogate: Toluene-d8		100 %	70-12	20	"	"	"	"	





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQK0830 Reported: 12/13/07 10:20

## Volatile Organic Compounds by EPA Method 8260B TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
DPE-2 20' (MQK0830-01) Soil	Sampled: 11/21/07 09:10	Receive	d: 11/29/0'	7 09:35					
tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7L03032	12/03/07	12/04/07	EPA 8260B	
Benzene	ND	0.0050	н	н	lt.	п	u	u	
tert-Butyl alcohol	ND	0.020	п	"	н	"	II.	u	
Di-isopropyl ether	ND	0.0050	H	n	#	"	11	H	
1,2-Dibromoethane (EDB)	ND	0.0050	"	n n	н	lt	"	11	
1,2-Dichloroethane	ND	0.0050	n	#	II	#	II	"	
Ethanol	ND	0.10	H	"	н	11	"	IJ	
Ethyl tert-butyl ether	ND	0.0050	**	10	11	II	n	"	
Ethylbenzene	ND	0.0050	**	**	II	н	ti .	n	
Methyl tert-butyl ether	ND	0.0050	н	11	#	"	H	II	
l'oluene	ND	0.0050	"	11	tt	П	"	"	
Xylenes (total)	ND	0.0050	11			"			
Surrogate: Dibromofluoromethane	2	86 %	50-1	35	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		92 %	65-1.	35	"	"	n	"	
Surrogate: Toluene-d8		85 %	70-1.	20	n	"	"	"	
Surrogate: 4-Bromofluorobenzene		85 %	60-1.	25	"	"	"	rr .	
DPE-2 30' (MQK0830-02) Soil	Sampled: 11/21/07 09:30	Receive	d: 11/29/07	09:35					
ert-Amyl methyl ether	ND	2.5	mg/kg	100	7K21038	11/29/07	12/01/07	EPA 8260B	
Benzene	ND	5.0	ш	u	**		H	Ħ	
ert-Butyl alcohol	ND	500	n	"	D .	"	"	#	
Di-isopropyl ether	ND	2.5	II	11	**	n n	**	н	
,2-Dibromoethane (EDB)	ND	2.5	**	11	n	n	H	Ħ	
,2-Dichloroethane	ND	2.5	"	#	II	*1	11	n	
Ethanol	ND	1000	"	"	11	н	H	D	
Ethyl tert-butyl ether	ND	2.5	ti .	11	"	H	11	11	
Ethylbenzene	12	5.0	11	81	н	н	II	"	
Methyl tert-butyl ether	ND	2.5	"	"	B	"	11	н	
Toluene	ND	5.0	tt	n	**	n	**	ii .	
Kylenes (total)	26	5.0	II .	ft	"	D .	11		
Surrogate: Dibromofluoromethane		95 %	50-13	35	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		104 %	65-13	35	"	"	"	"	
Surrogate: Toluene-d8		95 %	70-12	20	"	11	"	и	
Surrogate: 4-Bromofluorobenzene		96 %							





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQK0830 Reported: 12/13/07 10:20

# Volatile Organic Compounds by EPA Method 8260B TestAmerica Morgan Hill

Analyte									
	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
DPE-5 20' (MQK0830-03) Soil	Sampled: 11/21/07 13:20	Receive	d: 11/29/07	09:35					
tert-Amyl methyl ether	ND	2.5	mg/kg	100	7K21038	11/29/07	12/01/07	EPA 8260B	
Benzene	ND	5.0	#	14	#	"	tr	H .	
tert-Butyl alcohol	ND	500	II	II	H	11	41	H	
Di-isopropyl ether	ND	2.5	#	**	11	"	"	n .	
1,2-Dibromoethane (EDB)	ND	2.5	II	n	"	II.	II	II	
1,2-Dichloroethane	ND	2.5	11		II .	11	u	"	
Ethanol	ND	1000	11	"	#	II	n	II .	
Ethyl tert-butyl ether	ND	2.5	II .	11	"	11	#1	n	
Ethylbenzene	31	5.0	"	#	#	"	tt	H	
Methyl tert-butyl ether	ND	2.5	II	11	"	11	11	П	
Toluene	14	5.0	17	41	П	н	"	"	
Xylenes (total)	150	5.0		n	#1		11		
Surrogate: Dibromofluoromethane	2	100 %	50-13	5	"	"	н	n .	
Surrogate: 1,2-Dichloroethane-d4		106 %	65-13	5	"	"	"	"	
Surrogate: Toluene-d8		98 %	70-12	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96 %	60-12	5	"	"	"	"	
DPE-5 35' (MQK0830-04) Soil	Sampled: 11/21/07 13:50	Receive	d: 11/29/07	09:35					
tert-Amyl methyl ether	0.012	0.0050	mg/kg	1	7K30039	11/29/07	11/30/07	EPA 8260B	
tert-Butyl alcohol	0.61	0.020	Ħ	H	"	u	II .	11	
Di-isopropyl ether	ND	0.0050	II	11	n	11	H	П	
1,2-Dibromoethane (EDB)	ND	0.0050	#	11	n	н	"	**	
1,2-Dichloroethane	ND	0.0050	n	"	11	H	IF.	n	
Ethanol	ND	0.10	II .	11	"	11	41	II .	
Ethyl tert-butyl ether	ND	0.0050	**	"	1)	**	н	U	
Ethylbenzene	0.085	0.0050	#	"	**	11	II	II	BB
Гoluene	0.011	0.0050	II	11	**	0	н	II .	
Xylenes (total)	0.12	0.0050	"	11	Ü	11	n		
Surrogate: Dibromofluoromethane		91 %	50-13.	5	"	"	"	n	
Surrogate: 1,2-Dichloroethane-d4		95 %	65-13.	5	n	"	n	n	
Surrogate: Toluene-d8		100 %	70-120	9	"	"	"	11	
Surrogate: 4-Bromofluorobenzene		105 %	60-12:	5	"	"	"	n	
Benzene	0.41	0.050	п	II	7K21038	n .	12/01/07	п	
	3.9	0.025	11		11	H	"	u .	
Methyl tert-butyl ether				-	"	"	"	"	
		92 %	50-133	)					
Methyl tert-butyl ether		92 % 111 %	50-133 65-133		,,	"	"	"	
Methyl tert-butyl ether Surrogate: Dibromofluoromethane				5	"	"	"		

TestAmerica 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.





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQK0830 Reported: 12/13/07 10:20

## Conventional Chemistry Parameters by APHA/EPA Methods TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DPE-2 20' (MQK0830-01) Soil	Sampled: 11/21/07 09:10	Received	: 11/29	/07 09:35		***************************************		TOTAL CONTROL OF THE SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SE	
Percent Solids DPE-2 30' (MQK0830-02) Soil	81 Sampled: 11/21/07 09:30	1.0 Received	% : 11/29	1 /07 09:35	7K30001	11/29/07	11/30/07	SM2540G	
Percent Solids DPE-5 20' (MQK0830-03) Soil	86 Sampled: 11/21/07 13:20	1.0 Received	% : 11/29	1 /07 09:35	7K30001	11/29/07	11/30/07	SM2540G	
Percent Solids DPE-5 35' (MQK0830-04) Soil	84 Sampled: 11/21/07 13:50	1.0 Received	% : 11/29	1 /07 09:35	7K30001	11/29/07	11/30/07	SM2540G	
Percent Solids	77	1.0	%	l	7K30001	11/29/07	11/30/07	SM2540G	





Project: BP Heritage #11117,Oakland, CA

Spike

Source

Project Number: G07TK-0035 Project Manager: Jay Johnson

MQK0830 Reported: 12/13/07 10:20

RPD

%REC

# Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control TestAmerica Morgan Hill

Reporting

Analyte	Result	Reporting Limit	Units	Spike Level	Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7K21038 - EPA 5030B/503	5A MeOH / LUI	FT GCMS								
Blank (7K21038-BLK1)				Prepared &	& Analyze	ed: 12/01/	07			
Gasoline Range Organics (C4-C12)	ND	2.5	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.00259		"	0.00250		104	65-135			
Surrogate: 4-Bromofluorobenzene	0.00229		"	0.00250		92	60-125			
Surrogate: Dibromofluoromethane	0.00228		"	0.00250		91	50-135			
Surrogate: Toluene-d8	0.00227		"	0.00250		91	70-120			
Laboratory Control Sample (7K2103	8-BS2)			Prepared &	& Analyze	ed: 12/01/0	07			
Gasoline Range Organics (C4-C12)	49.2	2.5	mg/kg	50.0		98	60-120			
Surrogate: 1,2-Dichloroethane-d4	0.00261		"	0.00250		104	65-135			
Surrogate: 4-Bromofluorobenzene	0.00252		"	0.00250		101	60-125			
Surrogate: Dibromofluoromethane	0.00237		"	0.00250		95	50-135			
Surrogate: Toluene-d8	0.00240		"	0.00250		96	70-120			
Laboratory Control Sample Dup (7K	(21038-BSD2)			Prepared:	12/01/07	Analyzed	: 12/04/07			
Gasoline Range Organics (C4-C12)	41.9	2.5	mg/kg	50.0		84	60-120	16	40	
Surrogate: 1,2-Dichloroethane-d4	0.00250		"	0.00250		100	65-135			-
Surrogate: 4-Bromofluorobenzene	0.00250		"	0.00250		100	60-125			
Surrogate: Dibromofluoromethane	0.00250		"	0.00250		100	50-135			
Surrogate: Toluene-d8	0.00250		"	0.00250		100	70-120			
Batch 7K30039 - EPA 5030B P/T	/ LUFT GCMS									
Blank (7K30039-BLK1)				Prepared:	11/27/07	Analyzed	: 11/30/07			
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg		***************************************					
Surrogate: 1,2-Dichloroethane-d4	0.00504		"	0.00500		101	65-135			
Surrogate: 4-Bromofluorobenzene	0.00456		"	0.00500		91	60-125			
Surrogate: Dibromofluoromethane	0.00486		"	0.00500		97	50-135			
Surrogate: Toluene-d8	0.00496		"	0.00500		99	70-120			





Project: BP Heritage #11117,Oakland, CA

Spike

Source

%REC

Project Number: G07TK-0035 Project Manager: Jay Johnson MQK0830 Reported: 12/13/07 10:20

RPD

#### Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control TestAmerica Morgan Hill

Reporting

		Reporting		Spike	Source		70KEC		KPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7K30039 - EPA 5030B P/Γ / I	UFT GCMS									
Laboratory Control Sample (7K30039-F	3S2)			Prepared &	& Analyze	ed: 11/30/	07			
Gasoline Range Organics (C4-C12)	1.06	0.10	mg/kg	1.00		106	60-120			
Surrogate: 1,2-Dichloroethane-d4	0.00492		"	0.00500		98	65-135			
Surrogate: 4-Bromofluorobenzene	0.00510		"	0.00500		102	60-125			
Surrogate: Dibromofluoromethane	0.00496		n	0.00500		99	50-135			
Surrogate: Toluene-d8	0.00496		"	0.00500		99	70-120			
Laboratory Control Sample Dup (7K300	)39-BSD2)			Prepared &	& Analyze	ed: 11/30/	07			
Gasoline Range Organics (C4-C12)	1.05	0.10	mg/kg	1.00		105	60-120	1	40	
Surrogate: 1,2-Dichloroethane-d4	0.00490		11	0.00500		98	65-135			
Surrogate: 4-Bromofluorobenzene	0.00516		"	0.00500		103	60-125			
Surrogate: Dibromofluoromethane	0.00468		n .	0.00500		94	50-135			
Surrogate: Toluene-d8	0.00502		"	0.00500		100	70-120			
Matrix Spike (7K30039-MS1)	Source: M	QK0830-04		Prepared &	k Analyze	d: 11/30/0	07			
Gasoline Range Organics (C4-C12)	5.44	0.10	mg/kg	1.10	3.46	181	50-135			LM,AY
Surrogate: 1,2-Dichloroethane-d4	0.00466		"	0.00500		93	65-135			
Surrogate: 4-Bromofluorobenzene	0.00510		"	0.00500		102	60-125			
Surrogate: Dibromofluoromethane	0.00490		"	0.00500		98	50-135			
Surrogate: Toluene-d8	0.00494		"	0.00500		99	70-120			
Matrix Spike Dup (7K30039-MSD1)	Source: M	QK0830-04		Prepared:	11/30/07	Analyzed	: 12/01/07			
Gasoline Range Organics (C4-C12)	6.04	0.10	mg/kg	1.10	3.46	235	50-135	10	40	LM,AY
Surrogate: 1,2-Dichloroethane-d4	0.00470		"	0.00500		94	65-135			
Surrogate: 4-Bromofluorobenzene	0.00522		"	0.00500		104	60-125			
Surrogate: Dibromofluoromethane	0.00484		"	0.00500		97	50-135			
Surrogate: Toluene-d8	0.00504		"	0.00500		101	70-120			





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQK0830 Reported: 12/13/07 10:20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7K21038 - EPA 5030B/	5035A MeOH / EPA	8260B								
Blank (7K21038-BLK1)				Prepared	& Analyz	ed: 12/01/6	07			

Blank (7K21038-BLK1)	Prepared & Analyzed: 12/01/07								
tert-Amyl methyl ether	ND	0.025	mg/kg						
Benzene	ND	0.050	ıı						
tert-Butyl alcohol	ND	5.0	п						
Di-isopropyl ether	ND	0.025	п						
1,2-Dibromoethane (EDB)	ND	0.025	H						
1,2-Dichloroethane	ND	0.025	*						
Ethanol	ND	10	"						
Ethyl tert-butyl ether	ND	0.025	и						
Ethylbenzene	ND	0.050	"						
Methyl tert-butyl ether	ND	0.025	**						
Toluene	ND	0.050	н						
Xylenes (total)	ND	0.050	11						
Surrogate: Dibromofluoromethane	0.00228		"	0.00250	91	50-135			
Surrogate: 1,2-Dichloroethane-d4	0.00259		"	0.00250	104	65-135			
Surrogate: Toluene-d8	0.00227		"	0.00250	91	70-120			
Surrogate: 4-Bromofluorobenzene	0.00229		"	0.00250	92	60-125			
Laboratory Control Sample (7K2)	1038-BS1)			Prepared & Analyzed: 12/01/07					
tert-Amyl methyl ether	1.12	0.025	mg/kg	1.00	112	65-145			
Benzene	1.03	0.050	II	1.00	103	75-125			
tert-Butyl alcohol	20.3	5.0	11	20.0	102	70-125			
Di-isopropyl ether	1.08	0.025	"	1.00	108	60-140			
1,2-Dibromoethane (EDB)	1.02	0.025	u	1.00	102	75-140			
1,2-Dichloroethane	1.02	0.025	H	1.00	102	70-135			
Ethanol	15.9	10	n	20.0	80	45-150			
Ethyl tert-butyl ether	1.11	0.025	II	1.00	111	65-140			
Ethylbenzene	1.02	0.050	#	1.00	102	75-130			
Methyl tert-butyl ether	1.12	0.025	н	1.00	112	60-140			
Toluene	1.01	0.050	0	1.00	101	75-135			
Xylenes (total)	3.20	0.050	11	3.00	107	75-135			
Surrogate: Dibromofluoromethane	0.00242		"	0.00250	97	50-135			
Surrogate: 1,2-Dichloroethane-d4	0.00261		"	0.00250	104	65-135			
Surrogate: Toluene-d8	0.00235		"	0.00250	94	70-120			
Surrogate: 4-Bromofluorobenzene	0.00239		"	0.00250	96	60-125			





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035 Project Manager: Jay Johnson MQK0830 Reported: 12/13/07 10:20

#### Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7K21038 - EPA 5030B/503	5A MeOH / EPA	A 8260B								
Laboratory Control Sample Dup (7K			Prepared &	& Analyze	ed: 12/01/	07				
tert-Amyl methyl ether	1.10	0.025	mg/kg	1.00		110	65-145	2	25	
Benzene	1.09	0.050	н	1.00		109	75-125	6	25	
tert-Butyl alcohol	20.5	5.0	11	20.0		103	70-125	0.9	25	
Di-isopropyl ether	1.13	0.025	**	1.00		113	60-140	4	40	
1,2-Dibromoethane (EDB)	1.04	0.025	11	1.00		104	75-140	2	30	
1,2-Dichloroethane	1.04	0.025	н	1.00		104	70-135	1	25	
Ethanol	15.0	10	**	20.0		75	45-150	6	30	
Ethyl tert-butyl ether	1.10	0.025	**	1.00		110	65-140	İ	30	
Ethylbenzene	1.09	0.050	п	1.00		109	75-130	7	30	
Methyl tert-butyl ether	1.03	0.025	н	1.00		103	60-140	8	25	
Toluene	1.08	0.050	11	1.00		108	75-135	6	25	
Xylenes (total)	3.34	0.050	11	3.00		111	75-135	4	30	
Surrogate: Dibromofluoromethane	0.00240		"	0.00250		96	50-135			
Surrogate: 1,2-Dichloroethane-d4	0.00248		"	0.00250		99	65-135			
Surrogate: Toluene-d8	0.00235		"	0.00250		94	70-120			
Surrogate: 4-Bromofluorobenzene	0.00233		"	0.00250		93	60-125			
Batch 7K30039 - EPA 5030B P/T	/ EPA 8260B									
Blank (7K30039-BLK1)				Prepared:	11/27/07	Analyzed	: 11/30/07			
ert-Amyl methyl ether	ND	0.0050	mg/kg							
Benzene	ND	0.0050	"							
ert-Butyl alcohol	ND	0.020	"							
Di-isopropyl ether	ND	0.0050	If							
,2-Dibromoethane (EDB)	ND	0.0050	н							
,2-Dichloroethane	ND	0.0050	н							
Ethanol	ND	0.10	H							
Ethyl tert-butyl ether	ND	0.0050	H							
Ethylbenzene	ND	0.0050	и							
Methyl tert-butyl ether	ND	0.0050	11							
Toluene	ND	0.0050	п							
(ylenes (total)	ND	0.0050	"							
Surrogate: Dibromofluoromethane	0.00486		"	0.00500		97	50-135			
Surrogate: 1,2-Dichloroethane-d4	0.00504		"	0.00500		101	65-135			
Surrogate: Toluene-d8	0.00496		"	0.00500		99	70-120			
Surrogate: 4-Bromofluorobenzene	0.00456		11	0.00500		91	60-125			

TestAmerica 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.





Project: BP Heritage #11117,Oakland, CA

Spike

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQK0830 Reported: 12/13/07 10:20

RPD

%REC

#### Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica Morgan Hill

Reporting

Surrogate: 1,2-Dichloroethane-d4         0.00502         " 0.00500         100 65-135           Surrogate: Toluene-d8         0.00502         " 0.00500         100 70-120           Surrogate: 4-Bromofluorobenzene         0.00512         " 0.00500         102 60-125           Matrix Spike (7K30039-MS1)         Source: MQK0830-04         Prepared & Analyzed: 11/30/07           tert-Amyl methyl ether         0.0385         0.0050         mg/kg         0.0200         0.0122         131 65-140           Benzene         0.327         0.0050         " 0.0200         0.210 590 65-145         BB.           tert-Butyl alcohol         0.889         0.020         " 0.0200 ND         113 65-145         BB.           Di-isopropyl ether         0.0227         0.0050 " 0.0200 ND         ND 113 65-145         BB.           1,2-Dibromoethane (EDB)         0.0219 0.0050 " 0.0200 ND         ND 110 60-150           1,2-Dichloroethane         0.0240 0.0050 " 0.0200 ND         115 35-150           Ethyl tert-butyl ether         0.0234 0.0050 " 0.0200 0.00640 114 65-150           Ethyl tert-butyl ether         0.161 0.0050 " 0.0200 0.00640 114 65-150           Ethyl tert-butyl ether         1.38 0.0050 " 0.0200 0.0064 114 65-150           Ethyl tert-butyl ether         1.38 0.0050 " 0.0200 0.0064 114 65-150	Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Prepared	Batch 7K30039 - EPA 5030B P/I	Γ / EPA 8260B									
tert-Amyl methyl ether         0.0243         0.0050         mg/kg         0.0200         121         65-145           Benzene         0.0223         0.0050         "         0.0200         112         75-125           Lett-Butyl alcohol         0.390         0.0000         "         0.0200         112         60-140           1,2-Dichloroethane (EDB)         0.0223         0.0050         "         0.0200         113         75-140           1,2-Dichloroethane         0.0223         0.0050         "         0.0200         113         76-135           Ethanol         0.409         0.10         "         0.0200         116         65-140           Ethyl terr-buryl ether         0.0231         0.0050         "         0.0200         111         66-140           Ethyl terr-buryl ether         0.0222         0.0050         "         0.0200         111         66-140           Tolucne         0.0221         0.0050         "         0.0200         111         66-140           Tolucne         0.0221         0.0050         "         0.0200         111         66-140           Surrogate: Jackburyl ether         0.0222         0.0050         "         0.0200         115<					Prepared	& Analyze	ed: 11/30/	′07			
tert-Butyl alcohol 0.390 0.020 " 0.400 97 70-125   Di-isopropyl ether 0.0224 0.0050 " 0.0200 112 60-140   1.2-Dirchloroethane (EDB) 0.0223 0.0050 " 0.0200 113 75-140   1.2-Dirchloroethane 0.0225 0.0050 " 0.0200 113 75-135   Ethanol 0.409 0.10 " 0.0200 116 65-140   Ethyl tert-butyl ether 0.0231 0.0050 " 0.0200 116 65-140   Ethyl tert-butyl ether 0.0226 0.0050 " 0.0200 116 65-140   Ethyl tert-butyl ether 0.0221 0.0050 " 0.0200 116 65-140   Ethyl tert-butyl ether 0.0221 0.0050 " 0.0200 116 65-140   Ethyl tert-butyl ether 0.0221 0.0050 " 0.0200 116 65-140   Ethyl tert-butyl ether 0.0221 0.0050 " 0.0200 116 65-140   Ethyl tert-butyl ether 0.0221 0.0050 " 0.0200 115 75-135   Ethronogluoromethane 0.00518 " 0.0200 105 75-135   Ethronogluoromethane 0.00508 " 0.00500 " 0.0200 105 75-135   Ethronogluoromethane 0.00508 " 0.00500 " 0.00500 100 65-135   Ethronogluoromethane 0.00502 " 0.00500 100 65-135   Ethronogluoromethane 0.00502 " 0.00500 100 70-120   Ethyl tert-Amyl methyl ether 0.0385 0.0050 " 0.00500 100 70-120   Ethronogluoromethane 0.00502 " 0.00500 100 70-120   Ethronogluoromethane 0.00502 " 0.00500 100 70-120   Ethronogluoromethane 0.00502 " 0.00500 100 70-120   Ethronogluoromethane 0.00502 " 0.00500 100 70-120   Ethronogluoromethane 0.00502 " 0.00500 100 70-120   Ethronogluoromethane 0.00502 " 0.00500 0.0122 131 65-140   Ethronogluoromethane 0.00502 " 0.00500 0.0122 131 65-140   Ethronogluoromethane 0.00500 " 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500	tert-Amyl methyl ether	0.0243	0.0050	mg/kg	0.0200		121	65-145			
Di-isopropyl ether   0.0224   0.0050   " 0.0200   112   60-140	Benzene	0.0223	0.0050	**	0.0200		112	75-125			
1,2-Dichforomethane (EDB) 1,2-Dichforomethane 0,0225 0,0050 0,0200 1113 70-135 Ethanol 1,4-Dichforothane 0,0225 0,0050 0,00200 1113 70-135 Ethyl tert-buyl ether 0,0231 0,0050 0,00200 1116 0,5-140 Ethyl tert-buyl ether 0,0226 0,0050 0,00200 1113 0,5-130 Methyl tert-buyl ether 0,0221 0,0050 0,00200 1111 0,0040 0,0050 0,00200 1115 0,5-135  Methyl tert-buyl ether 0,0211 0,0050 0,00200 0,0050 0,00200 0,0050 0,00200 0,0050 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500 0,00500	tert-Butyl alcohol	0.390	0.020	**	0.400		97	70-125			
1,2-Dichloroethane	Di-isopropyl ether	0.0224	0.0050	n	0.0200		112	60-140			
Ethanol	1,2-Dibromoethane (EDB)	0.0223	0.0050	**	0.0200		112	75-140			
Ethyl tert-butyl ether	1,2-Dichloroethane	0.0225	0.0050	U	0.0200		113	70-135			
Ethylbenzene   0.0226   0.0050   "   0.0200   113   75-130     Methyl tert-butyl ether   0.0222   0.0050   "   0.0200   111   60-140     Toluene   0.0211   0.0050   "   0.0200   105   75-135     Surrogate: Dibromofluoromethane   0.00508   "   0.00500   "   0.00500   115   75-135     Surrogate: Dibromofluoromethane   0.00508   "   0.00500   100   0.65-135     Surrogate: Toluene-48   0.00502   "   0.00500   100   0.65-135     Surrogate: H-Bromofluorobenzene   0.00512   "   0.00500   100   0.61-135     Surrogate: H-Bromofluorobenzene   0.00512   "   0.00500   100   0.01-20     Surrogate: H-Bromofluorobenzene   0.00512   "   0.00500   0.0122   131   0.01-10     Surrogate: H-Bromofluorobenzene   0.00512   "   0.00500   0.0122   131   0.01-10     Surrogate: H-Bromofluorobenzene   0.0385   0.0050   "   0.0200   0.0122   131   0.01-10     Surrogate: H-Bromofluorobenzene   0.0385   0.0050   "   0.0200   0.0122   131   0.01-10     Surrogate: H-Bromofluorobenzene   0.0227   0.0050   "   0.0200   0.0122   131   0.01-10     Surrogate: H-Bromofluorobenzene   0.0227   0.0050   "   0.0200   0.000   ND   113   0.01-10     Surrogate: H-Bromofluorobenzene   0.0227   0.0050   "   0.0200   0.000   ND   115   0.01-10     Surrogate: H-Bromofluorobenzene   0.0240   0.0050   "   0.0200   0.00640   114   0.01-10     Surrogate: H-Bromofluorobenzene   0.0388   0.0050   "   0.0200   0.00640   114   0.01-10     Surrogate: H-Bromofluorobenzene   0.0388   0.0050   "   0.0200   0.00640   114   0.01-10     Surrogate: H-Bromofluorobenzene   0.0040   "   0.00500   0.00640   114   0.01-10     Surrogate: H-Bromofluorobenzene   0.00400   "   0.00500   0.00640   114   0.01-10	Ethanol	0.409	0.10	н	0.400		102	45-150			
Methyl tert-butyl ether         0.0222         0.0050         "         0.0200         111         60-140           Toluene         0.0211         0.0050         "         0.0200         105         75-135           Xylenes (total)         0.0688         0.0050         "         0.06600         115         75-135           Surrogate: Dibromofluoromethane         0.00508         "         0.00500         100         65-135           Surrogate: 1.2-Dichloroethane-d4         0.00502         "         0.00500         100         65-135           Surrogate: 4-Bromofluorobenzene         0.00512         "         0.00500         100         65-135           Matrix Spike (7K30039-MS1)         Source: MQK0830-04         Prepared & Analyzed: 11/30/07         11/30/07           tert-Amyl methyl ether         0.0385         0.0050         mg/kg         0.0200         0.0122         131         65-145           Benzene         0.327         0.0050         "         0.0200         0.212         50         65-145         BB           tert-Butyl alcohol         0.889         0.020         "         0.0200         ND         113         65-145         BB           tert-Butyl alcohol         0.086         0.0219<	Ethyl tert-butyl ether	0.0231	0.0050	n	0.0200		116	65-140			
Toluene   0.0211   0.0050   " 0.0200   105 75-135	Ethylbenzene	0.0226	0.0050	п	0.0200		113	75-130			
Xylenes (total)   0.0688   0.0050   " 0.0600   115   75-135	Methyl tert-butyl ether	0.0222	0.0050	н	0.0200		111	60-140			
Surrogate: Dibromofluoromethane         0.00508         " 0.00500         102 50-135           Surrogate: 1,2-Dichloroethane-d4         0.00502         " 0.00500         100 65-135           Surrogate: Toluene-d8         0.00502         " 0.00500         100 70-120           Surrogate: 4-Bromofluorobenzene         0.00512         " 0.00500         102 60-125           Matrix Spike (7K30039-MS1)         Source: MQK0830-04         Prepared & Analyzed: 11/30/07           tert-Amyl methyl ether         0.0385         0.0050         mg/kg         0.0200         0.0122         131 65-140           Benzene         0.327         0.0050         " 0.0200         0.212 590 65-145         BB           tert-Butyl alcohol         0.889         0.020         " 0.0200         0.060 71 70-130         BB           Di-isopropyl ether         0.0227         0.0050         " 0.0200         ND 113 65-145         BB           1,2-Dichloroethane (EDB)         0.0219         0.0050         " 0.0200         ND 110 60-150           1,2-Dichloroethane         0.0240         0.0050         " 0.0200         0.0182 111 60-140           Ethyl tert-butyl ether         0.034         0.0050         " 0.0200 0.00640 114 65-150           Ethyl tert-butyl ether         1.38 0.0050         " 0.020	Toluene	0.0211	0.0050	**	0.0200		105	75-135			
Surrogate: 1,2-Dichloroethane-d4         0.00502         " 0.00500         100 65-135           Surrogate: Toluene-d8         0.00502         " 0.00500         100 70-120           Surrogate: 4-Bromofluorobenzene         0.00512         " 0.00500         102 60-125           Matrix Spike (7K30039-MS1)         Source: MQK0830-04         Prepared & Analyzed: 11/30/07           tert-Amyl methyl ether         0.0385         0.0050         mg/kg         0.0200         0.0122         131 65-140           Benzene         0.327         0.0050         " 0.0200         0.210 590 65-145         BB.           tert-Butyl alcohol         0.889         0.020         " 0.400 0.606 71 70-130         70-130           Di-isopropyl ether         0.0227 0.0050 " 0.0050 " 0.0200 ND 113 65-145         BB.           1,2-Dibfomoethane (EDB)         0.0219 0.0050 " 0.0020 ND 113 65-145         BB.           1,2-Dichloroethane         0.0240 0.0050 " 0.0200 ND 115 35-150           Ethyl tert-butyl ether         0.0240 0.0050 " 0.0200 0.0082 111 60-140           Ethyl tert-butyl ether         0.0234 0.0050 " 0.0200 0.0083 380 75-140           Ethyl tert-butyl ether         1.38 0.0050 " 0.0200 0.0853 380 75-140           Methyl tert-butyl ether         1.38 0.0050 " 0.0200 0.0188 140 65-140           Yelenes (total)         0.0240 0.0060 0.0	Xylenes (total)	0.0688	0.0050	11	0.0600		115	75-135			
Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene         0.00502         " 0.00500         100         70-120           Matrix Spike (7K30039-MS1)         Source: MQK0830-04         Prepared & Analyzed: 11/30/07         11/30/07           tert-Amyl methyl ether         0.0385         0.0050         mg/kg         0.0200         0.0122         131         65-140           Benzene         0.327         0.0050         " 0.0200         0.210         590         65-145         BB           tert-Butyl alcohol         0.889         0.020         " 0.0200         ND 113         65-145         BB           1,2-Dibromoethane (EDB)         0.0219         0.0050         " 0.0200         ND 110         60-150           1,2-Dichloroethane         0.0240         0.0050         " 0.0200         ND 115         35-150           Ethyl tert-butyl ether         0.0234         0.0050         " 0.0200         0.0014         111         60-140           Ethyl tert-butyl ether         0.0234         0.0050         " 0.0200         0.0060         114         65-150           Ethyl tert-butyl ether         0.161         0.0050         " 0.0200         0.0064         114         65-150           Ethyl tert-butyl ether         1.38         0.0050	Surrogate: Dibromofluoromethane	0.00508		"	0.00500		102	50-135			
Matrix Spike (7K30039-MS1)         Source: MQK0830-04         Prepared & Analyzed: 11/30/07           tert-Amyl methyl ether         0.0385         0.0050         mg/kg         0.0200         0.0122         131         65-140           Benzene         0.327         0.0050         "         0.0200         0.210         590         65-145         BB.           tert-Butyl alcohol         0.889         0.020         "         0.400         0.606         71         70-130           Di-isopropyl ether         0.0227         0.0050         "         0.0200         ND         113         65-145           1,2-Dibromoethane (EDB)         0.0219         0.0050         "         0.0200         ND         110         60-150           1,2-Dichloroethane         0.0240         0.0050         "         0.0200         0.0182         111         60-140           Ethanol         0.459         0.10         "         0.400         ND         115         35-150           Ethyl tert-butyl ether         0.0234         0.0050         "         0.0200         0.00640         114         65-150           Ethyl tert-butyl ether         1.38         0.0050         "         0.0200         0.0853         380	Surrogate: 1,2-Dichloroethane-d4	0.00502		"	0.00500		100	65-135			
Matrix Spike (7K30039-MS1)         Source: MQK0830-04         Prepared & Analyzed: 11/30/07           tert-Amyl methyl ether         0.0385         0.0050 mg/kg         0.0200 0.0122         131 65-140           Benzene         0.327 0.0050 " 0.0050 " 0.0200 0.210 590 65-145         BB.           tert-Butyl alcohol         0.889 0.020 " 0.400 0.606 71 70-130           Di-isopropyl ether         0.0227 0.0050 " 0.0200 ND 113 65-145           1,2-Dibromoethane (EDB)         0.0219 0.0050 " 0.0200 ND 110 60-150           1,2-Dichloroethane         0.0240 0.0050 " 0.0200 ND 115 35-150           Ethanol         0.459 0.10 " 0.400 ND 115 35-150           Ethyl tert-butyl ether         0.0234 0.0050 " 0.0200 0.00640 114 65-150           Ethyl tert-butyl ether         0.161 0.0050 " 0.0200 0.0853 380 75-140           Methyl tert-butyl ether         1.38 0.0050 " 0.0200 0.0853 380 75-140           Methyl tert-butyl ether         1.38 0.0050 " 0.0200 0.0853 380 75-140           Methyl tert-butyl ether         1.38 0.0050 " 0.0200 0.0108 140 65-140           Xylenes (total)         0.223 0.0050 " 0.00500 98 50-135           Surrogate: Dibromofluoromethane         0.00400 " 0.00500 98 50-135           Surrogate: Dibromofluoromethane-d4         0.00466 " 0.00500 99 70-120           Surrogate: Toluene-d8         0.00490 " 0.00500 99 70-120	Surrogate: Toluene-d8	0.00502		"	0.00500		100	70-120			
tert-Amyl methyl ether 0.0385 0.0050 mg/kg 0.0200 0.0122 131 65-140  Benzene 0.327 0.0050 " 0.0200 0.210 590 65-145 BB  tert-Butyl alcohol 0.889 0.020 " 0.400 0.606 71 70-130  Di-isopropyl ether 0.0227 0.0050 " 0.0200 ND 113 65-145  1,2-Dibromoethane (EDB) 0.0219 0.0050 " 0.0200 ND 110 60-150  1,2-Dichloroethane 0.0240 0.0050 " 0.0200 ND 110 60-150  1,2-Dichloroethane 0.0240 0.0050 " 0.0200 0.00182 111 60-140  Ethanol 0.459 0.10 " 0.400 ND 115 35-150  Ethyl tert-butyl ether 0.0234 0.0050 " 0.0200 0.00640 114 65-150  Ethyl tert-butyl ether 0.138 0.0050 " 0.0200 0.0853 380 75-140  Methyl tert-butyl ether 1.38 0.0050 " 0.0200 0.0188 140 65-140  Xylenes (total) 0.223 0.0050 " 0.0200 0.0108 140 65-140  Xylenes (total) 0.223 0.0050 " 0.00500 98 50-135  Surrogate: Dibromofluoromethane 0.00490 " 0.00500 99 70-120	Surrogate: 4-Bromofluorobenzene	0.00512		"	0.00500		102	60-125			
Benzene   0.327   0.0050   "   0.0200   0.210   590   65-145   BB.	Matrix Spike (7K30039-MS1)	Source: Mo	QK0830-04		Prepared	& Analyze	d: 11/30/	07			
tert-Butyl alcohol 0.889 0.020 " 0.400 0.606 71 70-130 Di-isopropyl ether 0.0227 0.0050 " 0.0200 ND 113 65-145 1,2-Dibromoethane (EDB) 0.0219 0.0050 " 0.0200 ND 110 60-150 1,2-Dichloroethane (EDB) 0.0240 0.0050 " 0.0200 0.00182 111 60-140 Ethanol 0.459 0.10 " 0.400 ND 115 35-150 Ethyl tert-butyl ether 0.0234 0.0050 " 0.0200 0.000640 114 65-150 Ethyl tert-butyl ether 0.161 0.0050 " 0.0200 0.000640 114 65-150 Ethyl tert-butyl ether 1.38 0.0050 " 0.0200 0.0853 380 75-140 Methyl tert-butyl ether 1.38 0.0050 " 0.0200 0.0182 110 60-150 BB, Toluene 0.0388 0.0050 " 0.0200 0.0108 140 65-140 Xylenes (total) 0.223 0.0050 " 0.00600 0.123 167 70-145 Surrogate: Dibromofluoromethane 0.00490 " 0.00500 98 50-135 Surrogate: Toluene-d8 0.00494 " 0.00500 99 70-120	tert-Amyl methyl ether	0.0385	0.0050	mg/kg	0.0200	0.0122	131	65-140			
Di-isopropyl ether       0.0227       0.0050       " 0.0200       ND 113 65-145         1,2-Dibromoethane (EDB)       0.0219       0.0050       " 0.0200       ND 110 60-150         1,2-Dichloroethane       0.0240       0.0050       " 0.0200 0.00182 111 60-140         Ethanol       0.459       0.10       " 0.400 ND 115 35-150         Ethyl tert-butyl ether       0.0234 0.0050       " 0.0200 0.000640 114 65-150         Ethylbenzene       0.161 0.0050       " 0.0200 0.0853 380 75-140         Methyl tert-butyl ether       1.38 0.0050       " 0.0200 1.38 3 60-150       BB,         Toluene       0.0388 0.0050       " 0.0200 0.0108 140 65-140         Xylenes (total)       0.223 0.0050       " 0.0600 0.123 167 70-145         Surrogate: Dibromofluoromethane       0.00490       " 0.00500 98 50-135         Surrogate: Toluene-d8       0.00494       " 0.00500 99 70-120	Benzene	0.327	0.0050	ш	0.0200	0.210	590	65-145			BB, EY
1,2-Dibromoethane (EDB)       0.0219       0.0050       " 0.0200       ND 110       60-150         1,2-Dichloroethane       0.0240       0.0050       " 0.0200       0.00182       111       60-140         Ethanol       0.459       0.10       " 0.400       ND 115       35-150         Ethyl tert-butyl ether       0.0234       0.0050       " 0.0200       0.000640       114       65-150         Ethylbenzene       0.161       0.0050       " 0.0200       0.0853       380       75-140         Methyl tert-butyl ether       1.38       0.0050       " 0.0200       1.38       3 60-150       BB,         Toluene       0.0388       0.0050       " 0.0200       0.0108       140       65-140         Xylenes (total)       0.223       0.0050       " 0.0600       0.123       167       70-145         Surrogate: Dibromofluoromethane       0.00490       " 0.00500       98       50-135         Surrogate: Toluene-d8       0.00494       " 0.00500       99       70-120	tert-Butyl alcohol	0.889	0.020	19	0.400	0.606	71	70-130			
1,2-Dichloroethane       0.0240       0.0050       " 0.0200       0.00182       111       60-140         Ethanol       0.459       0.10       " 0.400       ND 115       35-150         Ethyl tert-butyl ether       0.0234       0.0050       " 0.0200       0.000640       114       65-150         Ethylbenzene       0.161       0.0050       " 0.0200       0.0853       380       75-140         Methyl tert-butyl ether       1.38       0.0050       " 0.0200       1.38       3 60-150       BB,         Toluene       0.0388       0.0050       " 0.0200       0.0108       140       65-140         Xylenes (total)       0.223       0.0050       " 0.0600       0.123       167       70-145         Surrogate: Dibromofluoromethane       0.00490       " 0.00500       98       50-135         Surrogate: Toluene-d8       0.00494       " 0.00500       99       70-120	Di-isopropyl ether	0.0227	0.0050	0	0.0200	ND	113	65-145			
Ethanol 0.459 0.10 " 0.400 ND 115 35-150  Ethyl tert-butyl ether 0.0234 0.0050 " 0.0200 0.000640 114 65-150  Ethylbenzene 0.161 0.0050 " 0.0200 0.0853 380 75-140  Methyl tert-butyl ether 1.38 0.0050 " 0.0200 1.38 3 60-150 BB,  Toluene 0.0388 0.0050 " 0.0200 0.0108 140 65-140  Xylenes (total) 0.223 0.0050 " 0.0600 0.123 167 70-145  Surrogate: Dibromofluoromethane 0.00490 " 0.00500 98 50-135  Surrogate: 1,2-Dichloroethane-d4 0.00466 " 0.00500 99 70-120	1,2-Dibromoethane (EDB)	0.0219	0.0050	н	0.0200	ND	110	60-150			
Ethyl tert-butyl ether         0.0234         0.0050         "         0.0200         0.00640         114         65-150           Ethylbenzene         0.161         0.0050         "         0.0200         0.0853         380         75-140           Methyl tert-butyl ether         1.38         0.0050         "         0.0200         1.38         3         60-150         BB,           Toluene         0.0388         0.0050         "         0.0200         0.0108         140         65-140           Xylenes (total)         0.223         0.0050         "         0.0600         0.123         167         70-145           Surrogate: Dibromofluoromethane         0.00490         "         0.00500         98         50-135           Surrogate: 1,2-Dichloroethane-d4         0.00466         "         0.00500         99         70-120	1,2-Dichloroethane	0.0240	0.0050	"	0.0200	0.00182	111	60-140			
Ethylbenzene       0.161       0.0050       "       0.0200       0.0853       380       75-140         Methyl tert-butyl ether       1.38       0.0050       "       0.0200       1.38       3       60-150       BB,         Toluene       0.0388       0.0050       "       0.0200       0.0108       140       65-140         Xylenes (total)       0.223       0.0050       "       0.0600       0.123       167       70-145         Surrogate: Dibromofluoromethane       0.00490       "       0.00500       98       50-135         Surrogate: 1,2-Dichloroethane-d4       0.00466       "       0.00500       99       70-120         Surrogate: Toluene-d8       0.00494       "       0.00500       99       70-120	Ethanol	0.459	0.10	**	0.400	ND	115	35-150			
Methyl tert-butyl ether         1.38         0.0050         "         0.0200         1.38         3         60-150         BB,           Toluene         0.0388         0.0050         "         0.0200         0.0108         140         65-140           Xylenes (total)         0.223         0.0050         "         0.0600         0.123         167         70-145           Surrogate: Dibromofluoromethane         0.00490         "         0.00500         98         50-135           Surrogate: 1,2-Dichloroethane-d4         0.00466         "         0.00500         93         65-135           Surrogate: Toluene-d8         0.00494         "         0.00500         99         70-120	Ethyl tert-butyl ether	0.0234	0.0050	11	0.0200	0.000640	114	65-150			
Toluene 0.0388 0.0050 " 0.0200 0.0108 140 65-140  Xylenes (total) 0.223 0.0050 " 0.0600 0.123 167 70-145  Surrogate: Dibromofluoromethane 0.00490 " 0.00500 98 50-135  Surrogate: 1,2-Dichloroethane-d4 0.00466 " 0.00500 93 65-135  Surrogate: Toluene-d8 0.00494 " 0.00500 99 70-120	Ethylbenzene	0.161	0.0050	0	0.0200	0.0853	380	75-140			BB
Toluene 0.0388 0.0050 " 0.0200 0.0108 140 65-140  Xylenes (total) 0.223 0.0050 " 0.0600 0.123 167 70-145  Surrogate: Dibromofluoromethane 0.00490 " 0.00500 98 50-135  Surrogate: 1,2-Dichloroethane-d4 0.00466 " 0.00500 93 65-135  Surrogate: Toluene-d8 0.00494 " 0.00500 99 70-120	Methyl tert-butyl ether	1.38	0.0050	u	0.0200	1.38	3	60-150			BB, EY
Surrogate: Dibromofluoromethane       0.00490       " 0.00500       98 50-135         Surrogate: 1,2-Dichloroethane-d4       0.00466       " 0.00500       93 65-135         Surrogate: Toluene-d8       0.00494       " 0.00500       99 70-120	Toluene	0.0388	0.0050	tt	0.0200	0.0108	140	65-140			
Surrogate: 1,2-Dichloroethane-d4       0.00466       " 0.00500       93 65-135         Surrogate: Toluene-d8       0.00494       " 0.00500       99 70-120	Xylenes (total)	0.223	0.0050	н	0.0600	0.123	167	70-145			ВВ
Surrogate: Toluene-d8 0.00494 " 0.00500 99 70-120	Surrogate: Dibromofluoromethane	0.00490		"	0.00500		98	50-135			
	Surrogate: 1,2-Dichloroethane-d4	0.00466		"	0.00500		93	65-135			
Surrogate: 4-Bromofluorobenzene 0.00510 " 0.00500 102 60-125	Surrogate: Toluene-d8	0.00494		"	0.00500		99	70-120			
	Surrogate: 4-Bromofluorobenzene	0.00510		"	0.00500		102	60-125			





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035 Project Manager: Jay Johnson MQK0830 Reported: 12/13/07 10:20

## Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7K30039 - EPA 5030B P/T / 1	EPA 8260B									
Matrix Spike Dup (7K30039-MSD1)	Source: M	QK0830-04		Prepared:	11/30/07	Analyzed	1: 12/01/07			
tert-Amyl methyl ether	0.0427	0.0050	mg/kg	0.0200	0.0122	152	65-140	10	25	LM,AY
Benzene	0.374	0.0050	11	0.0200	0.210	823	65-145	13	25	BB, EY
tert-Butyl alcohol	0.963	0.020	#	0.400	0.606	89	70-130	8	25	
Di-isopropyl ether	0.0221	0.0050	"	0.0200	ND	110	65-145	3	40	
1,2-Dibromoethane (EDB)	0.0223	0.0050	H	0.0200	ND	111	60-150	2	30	
1,2-Dichloroethane	0.0241	0.0050	и	0.0200	0.00182	111	60-140	0.4	25	
Ethanol	0.432	0.10		0.400	ND	108	35-150	6	30	
Ethyl tert-butyl ether	0.0239	0.0050	ш	0.0200	0.000640	116	65-150	2	30	
Ethylbenzene	0.189	0.0050	H	0.0200	0.0853	519	75-140	16	30	BB
Methyl tert-butyl ether	1.48	0.0050	"	0.0200	1.38	500	60-150	7	25	BB, EY
Toluene	0.0424	0.0050	II	0.0200	0.0108	158	65-140	9	25	LM,AY
Xylenes (total)	0.252	0.0050	n	0.0600	0.123	214	70-145	12	30	ВВ
Surrogate: Dibromofluoromethane	0.00484		11	0.00500		97	50-135			
Surrogate: 1,2-Dichloroethane-d4	0.00470		"	0.00500		94	65-135			
Surrogate: Toluene-d8	0.00504		"	0.00500		101	70-120			
Surrogate: 4-Bromofluorobenzene	0.00522		"	0.00500		104	60-125			
Batch 7L03032 - EPA 5030B P/T / E	EPA 8260B									
Blank (7L03032-BLK1)				Prepared	& Analyze	d: 12/03/0	)7			
tert-Amyl methyl ether	ND	0.0050	mg/kg							
Benzene	ND	0.0050								
tert-Butyl alcohol	ND	0.020	11							
Di-isopropyl ether	ND	0.0050								
1,2-Dibromoethane (EDB)	ND	0.0050	H							
1,2-Dichloroethane	ND	0.0050	н							
Ethanol	ND	0.10	n							
Ethyl tert-butyl ether	ND	0.0050	II.							
Ethylbenzene	ND	0.0050	**							
Methyl tert-butyl ether	ND	0.0050	11							
Toluene	ND	0.0050	n							
Xylenes (total)	ND	0.0050	31							
Surrogate: Dibromofluoromethane	0.00454		"	0.00500		91	50-135			
Surrogate: 1,2-Dichloroethane-d4	0.00480		н	0.00500		96	65-135			
Surrogate: Toluene-d8	0.00450		"	0.00500		90	70-120			
Surrogate: 4-Bromofluorobenzene	0.00428		"	0.00500		86	60-125			

TestAmerica 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.



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

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682

Project: BP Heritage #11117,Oakland, CA

Spike

Project Number: G07TK-0035 Project Manager: Jay Johnson MQK0830 Reported: 12/13/07 10:20

RPD

%REC

#### Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica Morgan Hill

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Mater	
Limiye	Kesuii	Lillit	Ullis	Level	Result	70KEC	Limits	KPD	Limit	Notes	
Batch 7L03032 - EPA 5030B P/I	`/EPA 8260B										
Laboratory Control Sample (7L0303	32-BS1)	Prepared & Analyzed: 12/03/07									
tert-Amyl methyl ether	0.0190	0.0050	mg/kg	0.0200		95	65-145				
Benzene	0.0189	0.0050	11	0.0200		94	75-125				
tert-Butyl alcohol	0.387	0.020	**	0.400		97	70-125				
Di-isopropyl ether	0.0175	0.0050	**	0.0200		88	60-140				
1,2-Dibromoethane (EDB)	0.0186	0.0050	п	0.0200		93	75-140				
1,2-Dichloroethane	0.0171	0.0050	"	0.0200		86	70-135				
Ethanol	0.393	0.10	n	0.400		98	45-150				
Ethyl tert-butyl ether	0.0176	0.0050	H	0.0200		88	65-140				
Ethylbenzene	0.0203	0.0050	Ð	0.0200		102	75-130				
Methyl tert-butyl ether	0.0172	0.0050	"	0.0200		86	60-140				
Toluene	0.0189	0.0050	**	0.0200		94	75-135				
Xylenes (total)	0.0606	0.0050	Ш	0.0600		101	75-135				
Surrogate: Dibromofluoromethane	0.00444		"	0.00500		89	50-135				
Surrogate: 1,2-Dichloroethane-d4	0.00422		"	0.00500		84	65-135				
Surrogate: Toluene-d8	0.00456		"	0.00500		91	70-120				
Surrogate: 4-Bromofluorobenzene	0.00462		"	0.00500		92	60-125				
Laboratory Control Sample Dup (7L	L03032-BSD1)			Prepared &	& Analyze	d: 12/03/0	)7				
tert-Amyl methyl ether	0.0175	0.0050	mg/kg	0.0200		88	65-145	8	25		
Benzene	0.0186	0.0050	11	0.0200		93	75-125	1	25		
tert-Butyl alcohol	0.380	0.020	#	0.400		95	70-125	2	25		
Di-isopropyl ether	0.0174	0.0050	**	0.0200		87	60-140	0.6	40		
1,2-Dibromoethane (EDB)	0.0187	0.0050	U	0.0200		94	75-140	0.4	30		
1,2-Dichloroethane	0.0175	0.0050	44	0.0200		87	70-135	2	25		
Ethanol	0.388	0.10	"	0.400		97	45-150	1	30		
Ethyl tert-butyl ether	0.0180	0.0050	0	0.0200		90	65-140	2	30		
Ethylbenzene	0.0198	0.0050	"	0.0200		99	75-130	3	30		
Methyl tert-butyl ether	0.0173	0.0050	u	0.0200		87	60-140	1	25		
Toluene	0.0184	0.0050	11	0.0200		92	75-135	2	25		
Xylenes (total)	0.0588	0.0050	11	0.0600		98	75-135	3	30		
Surrogate: Dibromofluoromethane	0.00458		"	0.00500		92	50-135				
Surrogate: 1,2-Dichloroethane-d4	0.00430		"	0.00500		86	65-135				
Surrogate: Toluene-d8	0.00472		"	0.00500		94	70-120				
Surrogate: 4-Bromofluorobenzene	0.00470		"	0.00500		94	60-125				





Percent Solids

Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035 Project Manager: Jay Johnson MQK0830 Reported: 12/13/07 10:20

0.2

20

# Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7K30001 - General Prepa	ration / SM2540G									
Blank (7K30001-BLK1)				Prepared:	11/29/07	Analyzed	: 11/30/07			
Percent Solids	ND	1.0	%							
Duplicate (7K30001-DUP1)	Source: MC	QK0830-03		Prepared:	11/29/07	Analyzed	: 11/30/07			

84.0



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

Stratus Environmental Inc. [Arco] Project: BP Heritage #1117,Oakland, CA MQK0830
3330 Cameron Park Dr., Suite 550 Project Number: G07TK-0035 Reported:
Cameron Park CA, 95682 Project Manager: Jay Johnson 12/13/07 10:20

#### **Notes and Definitions**

PV Hydrocarbon result partly due to individ. peak(s) in quant. range

LM,AY MS and/or MSD above acceptance limits. See Blank Spike(LCS). Matrix interference suspected.

EY Result exceeds normal dynamic range; reported as a min. est.

BB Sample > 4x spike concentration

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

REVISED

#### Lisa Race

From:

Sandy Hayes [shayes@stratusinc.net]

Sent:

Thursday, December 06, 2007 12:00 PM

To:

Lisa Race

Subject:

RE: Problem COCs ARCO#0613, 2067,6023, 0761,11117 -

MQL0102,MQL0108,MQK0798,MQK0838,MQK0830

Attachments: Revised COC's.pdf

Hi Lisa,

Attached are the revised COC's.

613 - G0C4B-0023 2067 - G03CP-0021 11117 - G07TK-0035; Global ID T0600100201 761 - G0C3L-0017 6023 - G0C4Q-0013

Thank you!

Sandy Hayes
Stratus Environmental, Inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682
shayes@stratusinc.net
Phone: 530.313.9964

Fax: 530.676.6005

----Original Message----

From: Lisa Race [mailto:lisa.race@testamericainc.com]

Sent: Thursday, December 06, 2007 11:20 AM

To: knagaraju@stratusinc.net; scarter@stratusinc.net; Sandy Hayes; Scott Bittinger; Sonia Nandi

Subject: Problem COCs ARCO#0613, 2067,6023, 0761,11117 -

MQL0102,MQL0108,MQK0798,MQK0838,MQK0830

All COCs are missing the ENFOS number. The COC for 11117 is also missing the Global ID. Please complete the attached COCs and return.

See attached. Feel free to contact me with any questions. Please note new e-mail address: <u>Lisa.Race@Testamericainc.com</u>

#### LISA RACE

Senior Project Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

885 Jarvis Drive Morgan Hill, CA 95037 Tel 408.782.8156 | Fax 408.782.6308 www.testamericainc.com www.stl-inc.com The holiday season is upon us. TestAmerica is dedicated to maintaining the highest level of customer satisfaction. Our facility will be closed December 24th, 25th and January 1st, 2008. We will be open for sample receiving and pre-scheduled courier service on December 31st, the day before the New Year's Day holiday. We will also have a limited Project Management staff to assist you with your needs on December 31st. Please contact your project manager with your holiday scheduling needs. Thank you and Happy Holidays!

Confidentiality Notice: The information contained in this message is intended only for the use of the addressee, and may be confidential and/or privileged. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.

REVISED

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Chain of Custody Record \$400 On-size Time: Project Name: ARCO III 7 Temp: 5°5 BP BU/AR Region/Enfos Segment: Off-site Time: Temp: State or Lead Regulatory Agency: Mitale 1944 A BP affiliated company Country Meteorological Events: Requested Due Date (mm/dd/yy): Wind Speed: Direction: ab Name: TextAmerica BP/AR Pacifity No.: (1117 Address: 885 Jarvis Drive Consultant/Contractor: Stratus Environmental, Inc. BP/AR Facility Address: 7710 Concerns Morgan Hill, CA 95937 ALVE, WHELEAUD 3330 Cameron Park Drive, Suite 550 Address: Site Lat/Long: Lab PM: Lise Rece Cameron Park, CA 95682 California Global ID No.: 10600100 20 Tele/Fax: 408-782-8156 408-782-6308 (fax) Consultant/Contractor Project No.: Enfos Project No. GOTTK-0035 BP/AR PM Contact Paul Supple Consultant/Contractor PM: Jay Johnson Provision or OOC (circle one) Address: 2010 Crow Canyon Place, Suite 150 Provision Tele/Fax: (530) 676-6000 / (530) 676-6005 Phase/WBS: ANTHOR OL- ASSESSMENT San Ramon, CA Report Type & QC Level: Level I with EDP Sub Phase/Task: 03-Analytical Tele/Fax: 925-275-3506 E-mail EDD To: shaves@stratusinc.net Cost Element 01-Contractor labor Lab Bottle Order No: Invoice to: Atlantic Richfield Co. Matrix Preservative Requested Analysis MQK0830 Sample Point Latticong and Iteen Water/Liquid Sample Description No. Laboratory No. Comments PITO Methanol H,SO. HNO Ē REVISED 90 "lalor 4 O 0730 STAUDALL 02 K 17330 53 DUPE 1360 7-148-4E 04 y. ŧ VVV EXBF MESE 7BA 9 Sampler's Name: Collon Assence Bedinguished By / Affiliation

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BP COC Rev. 5 18/11/2006

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A BP affiliated company

**Chain of Custody Record** 

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BP > Americas > West > Retail > Alameda > \\\\\\\\\\\

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Off-site Time: Temp:
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Wind Speed: Direction:

BP COC Rev. 5 18/11/2006

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White Copy - Client Services

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TEST AMERICA SAMPLE RECEIPT LOG

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Address: 885 Jarvis Drive	PRIAD Facility All 1200 R.	Consultant/Contractor: Stratus Environmental, Inc.
Morgan Hill, CA 95937	Site Lat/Long:	Address: 3330 Cameron Park Drive, Suite 550
ab PM: Lisa Race	California Global ID No.: 706	Cameron Park, CA 95682
ele/Fax: 408-782-8156 408-782-6308 (fax)	Enfos Project No	Consultant/Contractor Project No.:
P/AR PM Contact: Paul Supple	n · · ·	Consultant/Contractor PM: Jay Johnson
ddress: 2010 Crow Canyon Place, Suite 150		Tele/Fax: (530) 676-6000 / (530) 676-6005
San Ramon, CA	Sub Phase/Task: 03 Applytical	Report Type & QC Level: Level 1 with EDF
ele/Fax: 925-275-3506	Cost Element: 01-Contractor leber	E-mail EDD To: shayes@stratusinc.net
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January 24, 2008

Mr. Rob Miller Broadbent & Associates, Inc. 2000 Kirman Avenue Reno, NV 89502

Re: Well Development Data Package, BP Service Station No. 11117, located at

7210 Bancroft, Oakland, California

#### **General Information**

Data Submittal Prepared / Reviewed by: Sandy Hayes / Jay Johnson

Phone Number: (530) 676-6000

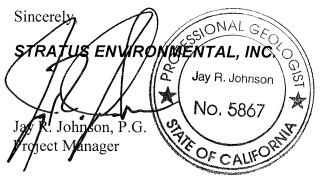
On-Site Supplier Representative: Greg Wilkins and Vince Zalutka

Sampling Date: December 11, 2007 Weather Conditions: Not noted. Unusual Field Conditions: None

Scope of Work Performed: Well Development

Variations from Work Scope: Development of wells DPE-1, DPE-2, DPE-3, DPE-4, DEP-5, and MW-11. Well DPE-3 purged dry before three casing volumes were removed.

This submittal presents the tabulation of data collected in association with routine groundwater monitoring. The attachments include field data sheets and non-hazardous waste data form. The information is being provided to BP-ARCO's Scoping Supplier for use in preparing a report for regulatory submittal. This submittal is limited to presentation of collected data and does not include data interpretation or conclusions or recommendations. Any questions concerning this submittal should be addressed to the Preparer/Reviewer identified above.



#### **Attachments:**

- Field Data Sheets
- Non-Hazardous Waste Data Form

cc: Mr. Paul Supple, BP/ARCO



Site Contact Phone No.

Site Address: 7210 Bamcroff Ave.
City Oakland CA
Sampled By 6. Wilkins / V. 2alutha
Developed

Site Number: ARCO IIII Project No. EIIII Project PM Ta Tolyson

Date Sampled 12-11-07

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Multiplier Values 2"=0.5 4"=2.0 6"=4.4

## **NON-HAZARDOUS WASTE DATA FORM**

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NON-HAZARDOUS WASTE DATA FORM

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Transporter Name and Mail BELSHIRE 25971 TOWNE FOOTHILL RAN	CENTRE DRIVE	BESI: 14745	0	Transporter's F (949) 460 Person to Cont LARRY IN FAX#: (949) 460	0-5200 act: MOOTHART	Transporter's C	AR000183 DOT No.: 450647	913
Description of Soil	Moisture Content	Contaminated by	/: Approx		cription of Delivery	Gross Weight	Tare Weight	Net Weigh
Sand Organic Clay Other	0 - 10%	Gas 🖸 Diesel 🗓 Other 🗓	40	DMS		4530	772	2316
Sand O Organic O Clay O Other O List any exception to items listed	0 - 10%	Gas 🗖 Diesel 🗖 Other 🚨			Scale Ticket#		139	1) 50
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FAC#	1117 2403							
Recycling Facility certifies t	he receipt of the soil co	overed by this mani			-			
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: (Clease print/ordype:



February 7, 2008

Mr. Rob Miller Broadbent & Associates, Inc. 2000 Kirman Avenue Reno, NV 89502

Re: Groundwater Sampling Data Package, BP Service Station No. 11117, located at

7210 Bancroft, Oakland, California

#### **General Information**

Data Submittal Prepared / Reviewed by: Sandy Hayes / Jay Johnson

Phone Number: (530) 676-6000

On-Site Supplier Representative: Greg Wilkins and Tony Hill

Sampling Date: December 14, 2007

Weather Conditions: Clear

Unusual Field Conditions: None

Scope of Work Performed: Developed newly installed wells and conducted groundwater

sampling of DPE-1, DPE-2, DPE-3, DPE-4, DEP-5, and MW-11.

Variations from Work Scope: None

This submittal presents the tabulation of data collected in association with routine groundwater monitoring. The attachments include field data sheets, non-hazardous waste data form, chain of custody documentation, and certified analytical results. The information is being provided to BP-ARCO's Scoping Supplier for use in preparing a report for regulatory submittal. This submittal is limited to presentation of collected data and does not include data interpretation or conclusions or recommendations. Any questions concerning this submittal should be addressed to the Preparer/Reviewer identified above.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Lay R. Johnson, P.G.

Project Manager

Attachments:

Sincerely,

Jay R. Johnson

No. 5867

- Field Data Sheets
- Non-Hazardous Waste Data Form
- Chain of Custody Documentation
- Certified Analytical Results

cc: Mr. Paul Supple, BP/ARCO



Site Address: 7210 Buncroff Ave.
City Oakland CA
Sampled By 6. Wilkins / V. 2 alutha
Developed

Site Number: ARCO (((1))
Project No. E(((1)))
Project PM Ja Johnson
Date Sampled (12-11-07)

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Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sample   Sam	Waler Le	evel Data		1000		Purgo Va	1							Silvi de	I Date	Sampled	12-11-	07
Well ID         Time         Depth to water feet         Top of water feet         Water Column feet         Well Column (A)         Multiplier Value (inches)         Actual Casing Water Volumes Purged (gallons)         No gallons)         Water Volumes Purged (gallons)         No gallons)         DTW At Sample Sample Time I.D.         Dissolved Oxygen Time (mg/L)           PF-4 [12]         20.33         40.04         19.75         46.6         120.31         120         44.7         39.85         PF-1           PF-3 0830 10.47         39.62 18.95         46.6         130.35 130         44.6         130.35 130         44.6         130.35 130         44.6         15.0         46.6         125.07 45         45.6         125.07 45         45.6         125.07 45         45.6         125.07 45         45.6         125.07 45         45.6         125.07 45         45.6         125.07 45         45.6         125.07 45         45.6         125.07 45         45.6         125.07 45         45.6         125.07 45         45.6         125.07 45         45.6         125.07 45         45.6         125.07 45         45.6         125.07 45         45.6         125.07 45         45.6         125.07 45         45.6         125.07 45         45.6         125.07 45         45.6         125.07 45         45.6         125.0	Depth of value   Screen   Weil   Feet   Screen   Weil   Feet   Screen   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet   Seet  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CPE-1         0.456         21.62         39.85         18.23         Y         6.6         [20.3]         [20         X         X         DTB         35.86         DPE-1           CPE-3         0.830         10.67         19.75         Y         6.6         130.35         130         X         X         DTB         35.86         DPE-1           CPE-4         12.6         12.12         40.6         130.35         130         X         X         DTB         21.11           CPE-4         12.6         21.27         40.6         125.07         45         X         X         DTB         14.0           CPE-5         06.6         12.12         40.6         123.82         12.4         40.6         125.0         12.0           CPE-5         06.6         12.0         36.10         15.05         36.10         15.05         36.10         35.26         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6	Pe-1	Pe-1	Pre-1		water	Screen	Well	Water Column	Diameter	Value	Volumes	Water Purged	No				DTW At			Data Dissolved	- Carolina Charles
	Wells Surged with Bailer	Wells Surged with Bailer -	Wells Surged with Bailer -	PE-4 [12] PE-3 0830: PE-4 [2]6 PE-5 065]	20.33 10.67 21.27 21.05	·	40.09 39.62 40.03 36.10	18.23 19.75 18.95 18.76 15.05	У У У	6.6	120,31 130,35 125,07 123,82 99,33	120 130 45 124 99	Purge	X X X	X X Dr	DTB 39.79 Q (5gul DTB 40.07 PTB 39.70	35.86 21.11 N/M 19.02	DPE-1	Time	Oxygen (mg/L)	ACTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE
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625 gal

(A) Casing water Column Depth wtr. Depth to Bottom

Multiplier Values 2"=0.5 4"=2.0 6"=4.4



Site Address: 7210 Bancus Ft Ave City Oakland CA Sampled By G.W.Kms / T. Hill

Site Number: ARCO 11117
Project No. FILLT
Project PM J. Solmsm
Date Sampled 12-14-0

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Waler Level Data		1								Date	e Sample	12-19	(-0)
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Depth to Top of Depth of Water	- 1		Three	Actual			T		DTW		T	Field	
water Screen Well Colum	in Diamete	Multiplier Value	1	Water					At			Data Data	
A) leet leet (A)	(inches)		Volumes		No					e Samole	Sample	Dissolved	· 14
10-1 0519 19.83 36.27			(gallons)	(gallons)		Bailer	Pump	Other	Time	I.D.	Time	Oxygen (mg/L)	
in-3 0512 20.21 44.87					$\times$							1	_
14.4 0507 21,10 39.73					_X_								-1
125 No Well		ļ			X					<u> </u>	-		_
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Zzigal

(A) Casing water Column Depth wtr. Depth to Bottom

Multiplier Values 2"=0.5 4"=2.0 6"=4.4

THE

# NO. 635446

# NON-HAZARDOUS WASTE DATA FORM

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r e e e e
44.00

NO. 885436

# NON-HAZARDOUS WASTE DATA FORM

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## Atlantic Richfield Company

A BP affiliated company

## **Chain of Custody Record**

Project Name: ARCO 11117

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda > 11117

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

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Sta	TAT	, , ,	

On-site Time: 0425

Off-site Time: 0845

Sky Conditions: Clear

Meteorological Events: —

Wind Speed: Direction: —

1	Name: TestAmerica	BP/AR Facility No.	P/AR Facility No.: 11117 Consultant/Cor								/Contr	actor: Stratus Environmental, Inc.																	
Addı	ess: 885 Jarvis Drive						BP/AR Facility Ad	dress	;	721	10 Ba	ancro	ft, Oa	ıklan	d					Addre					on Park				
Morg	gan Hill, CA 95937						Site Lat/Long:													1 tuare					rk, CA 9		une 55	<i>J</i>	
<b> </b>	PM: Lisa Race						California Global II	O No	).;	T00	6001	0020	1							Consu	ltant				ct No.:	3082			
Tele/	Fax: 408-782-8156 408-782-630	)8 (fax)			•	$\top$	Enfos Project No.:					-003								Солзи					CI INO	Jay Jol			
BP/A	R PM Contact: Paul Supple				<del></del> .	ī	Provision or OOC	(circ	le on				visio	n.						Tele/F					000 //52				
Addr	ess: 2010 Crow Canyon Place, Suit	te 150				╢	Phase/WBS:	(0110			itorii		771310							Repor					000 / (53				
	San Ramon, CA	· · · · · · · · · · · · · · · · · · ·				1	Sub Phase/Task:		_		ytica									1					@-tt		with E	<u>DF</u>	
Tele/	Fax: 925-275-3506					1	Cost Element:						or		•					Invoic					@stratu	sinc.ne	<u>[</u>		
Lab	Bottle Order No:				Matri	x	Cost Element: 01-Contractor labor   Preservative   Request									ILIC IXI	CITTLET	IG CO.											
Item No.	Sample Description	Time	Date		Water/Liquid	, no.	Laboratory No.	No. of Containers	Unpreserved	H <sub>2</sub> SO <sub>4</sub>			nanol		GRO/BTEX/Oxy*	1,2-DCA	Ethanol		ЕDВ								mments Oxy =	s	
1	DPE-1	0740	12/14		X			3			T	1X			X	1>	<b>1</b> 又		X	T			T	T	1	<del></del>	<i>(22)</i>		===
2	DPE-2	0608			1			6		$\vdash$	1	11	1	<del> </del>		$\dagger \dagger$	$\top T$	1		$\dagger = \dagger$	+	_	-	+-1	141	11 by	820	20	
		1000			++	+-			-	-	+-	+			╂┼	+	╂	+-		-			_						
3	DPE-3	0659						3			ŀ								1										
4	DPE-Y	0825						3				$\prod$				$\prod$	$\prod$	-					1	$\Box$					
5	PPE-5	0738					,	3				11				$\dagger \dagger$	$\prod$							$\Box$					
6	MW-11	0643	1		J			3				†	1		1	1	1	十					1						
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9 10	TB1111712142007	0539						3	-			-						-							- 01	1 Ho	LP		
Sam	pler's Name: 6. Wikins/	THY		111			Relina	V uiche	d_Bv	1 459	Filia M	8/	<u> </u>	<u></u>		ate	1	<u></u>			<u></u>								
Sam	pler's Company: Amfu	5					Relinq	2	27	Tu		2 -				YOZ	╬		ime		+I		epted	By / A	Affiliation			Date	Time
Ship	ment Date: /2-/4-	07							V		<u> </u>				121	WI	1	10.	20	CV		er_					12	114	1020
Ship	ment Method: Stort									-					╟─		╢			<b> </b>									<u>  </u>
Ship	ment Tracking No:														╟		╫─		····	<b> </b>									
Spec	ial Instructions:	Please	cc resul	ts to	rmille	r(a)b	roadbentinc.com	· · · · · · · · · · · · · · · · · · ·							JL		<u> </u>			JL							L_		<u> </u>
	Custody Seals In Place: Ye	es / No	<u>  T</u>	emp	Blank	: Ye	s/No   Cool	er T	emp	on	Rec	eipt:		°F	/C		Tr	ip E	Blank: Y	es / No	)	N	1S/M	SD S	Sample S	ubmitted	l: Yes /	No	$\parallel$
																						<u> </u>					. 105/	LYU	



3 January, 2008

Jay Johnson Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park, CA 95682

RE: BP Heritage #11117,Oakland, CA Work Order: MQL0519

Enclosed are the results of analyses for samples received by the laboratory on 12/14/07 20:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race

Senior Project Manager

CA ELAP Certificate # 2682

The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.



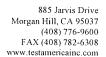


Stratus Environmental Inc. [Arco] Project: BP Heritage #11117,Oakland, CA MQL0519
3330 Cameron Park Dr., Suite 550 Project Number: G07TK-0035 Reported:
Cameron Park CA, 95682 Project Manager: Jay Johnson 01/03/08 16:15

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DPE-1	MQL0519-01	Water	12/14/07 07:40	12/14/07 20:15
DPE-2	MQL0519-02	Water	12/14/07 06:08	12/14/07 20:15
DPE-3	MQL0519-03	Water	12/14/07 06:59	12/14/07 20:15
DPE-4	MQL0519-04	Water	12/14/07 08:25	12/14/07 20:15
DPE-5	MQL0519-05	Water	12/14/07 07:38	12/14/07 20:15
MW-11	MQL0519-06	Water	12/14/07 06:43	12/14/07 20:15
TB1111712142007	MQL0519-07	Water	12/14/07 05:39	12/14/07 20:15

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.





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQL0519 Reported: 01/03/08 16:15

# Total Purgeable Hydrocarbons by GC/MS (CA LUFT) TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DPE-1 (MQL0519-01) Water Sample	d: 12/14/07 07:40	Received:	12/14/07	20:15					
Gasoline Range Organics (C4-C12)	360	50	ug/l	1	7L21018	12/21/07	12/22/07	LUFT GCMS	***********
Surrogate: 1,2-Dichloroethane-d4		105 %	60-	150	"	"	"	"	
Surrogate: Dibromofluoromethane		98 %	75-	130	"	n	"	"	
Surrogate: Toluene-d8		101 %	75-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94 %	55-	130	"	"	"	"	
DPE-2 (MQL0519-02) Water Sampled	d: 12/14/07 06:08	Received:	12/14/07	20:15					
Gasoline Range Organics (C4-C12)	2500	50	ug/l	1	7L21018	12/21/07	12/22/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		109 %	60-	150	"	"	"	"	
Surrogate: Dibromofluoromethane		99 %	75-1	130	"	"	"	n	
Surrogate: Toluene-d8		109 %	75-1	120	"	n	"	rr .	
Surrogate: 4-Bromofluorobenzene		118 %	55-1	130	"	"	"	"	
DPE-3 (MQL0519-03) Water Sampled	l: 12/14/07 06:59	Received:	12/14/07	20:15					
Gasoline Range Organics (C4-C12)	13000	2500	ug/l	50	7L27010	12/27/07	12/27/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		94 %	60-1	150	"	"	"	"	
Surrogate: Dibromofluoromethane		92 %	75-1	30	"	"	"	"	
Surrogate: Toluene-d8		102 %	75- <i>1</i>	20	"	"	H	"	
Surrogate: 4-Bromofluorobenzene		98 %	55-1	30	"	"	"	n .	
DPE-4 (MQL0519-04) Water Sampled	I: 12/14/07 08:25	Received:	12/14/07	20:15					
Gasoline Range Organics (C4-C12)	510000	10000	ug/l	200	7L21018	12/21/07	12/22/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		102 %	60-1	50	"	"	"	n .	
Surrogate: Dibromofluoromethane		95 %	75-1	30	"	"	"	n .	
Surrogate: Toluene-d8		105 %	75-1	20	"	"	n .	"	
Surrogate: 4-Bromofluorobenzene		104 %	55-1	30	"	n	"	n	





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQL0519 Reported: 01/03/08 16:15

# Total Purgeable Hydrocarbons by GC/MS (CA LUFT) TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DPE-5 (MQL0519-05) Water Sampled: 12/14	1/07 07:38 F	Received:	12/14/07 20	):15		****			
Gasoline Range Organics (C4-C12) 30	0000	10000	ug/l	200	7L21018	12/21/07	12/22/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		99 %	60-150	)	"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	75-130	)	"	"	"	n .	
Surrogate: Toluene-d8		102 %	75-120	)	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	55-130	)	"	"	"	H .	
MW-11 (MQL0519-06) Water Sampled: 12/1	4/07 06:43	Received:	12/14/07 2	0:15					
Gasoline Range Organics (C4-C12)	8000	1000	ug/l	20	7L27010	12/27/07	12/27/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		92 %	60-150	)	"	"	"	n	
Surrogate: Dibromofluoromethane		96 %	75-130	)	"	"	"	"	
Surrogate: Toluene-d8		104 %	75-120	)	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	55-130	)	"	"	"	"	





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQL0519 Reported: 01/03/08 16:15

## Volatile Organic Compounds by EPA Method 8260B TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
DPE-1 (MQL0519-01) Water Samp	pled: 12/14/07 07:40	Received:	12/14/07 2	0:15					
tert-Amyl methyl ether	ND	0.50	ug/l	1	7L27011	12/27/07	12/27/07	EPA 8260B	
Benzene	24	0.50	H	п	11	**	1)	п	
tert-Butyl alcohol	1300	20	11	II .	н	n	**	н	BE
Di-isopropyl ether	ND	0.50	н	**	"	п	п	₽.	
1,2-Dibromoethane (EDB)	ND	0.50	D	"	II.	**	II	H	
1,2-Dichloroethane	ND	0.50	#	"	11	"	11	II	
Ethanol	ND	300	H	**	"	П	н	"	
Ethyl tert-butyl ether	3.4	0.50	11	Ħ	II	11	11	II	
Ethylbenzene	3.4	0.50	"	11	*)	11	"	II.	
Methyl tert-butyl ether	28	0.50	II	31	Ħ	II	Ü	#	
Toluene	ND	0.50	#1	11	II	**	II .	O .	
Xylenes (total)	ND	0.50			н		"	11	
Surrogate: Dibromofluoromethane		92 %	75-13	0	"	"	"	u	
Surrogate: 1,2-Dichloroethane-d4		89 %	60-15	0	"	"	"	ıı .	
Surrogate: Toluene-d8		102 %	75-12	0	"	"	"	н	
Surrogate: 4-Bromofluorobenzene		97 %	55-13	0	"	"	"	"	
DPE-2 (MQL0519-02) Water Samp	oled: 12/14/07 06:08	Received:	12/14/07 2	0:15					
tert-Amyl methyl ether	ND	0.50	ug/l	1	7L27011	12/27/07	12/27/07	EPA 8260B	
Benzene	1.2	0.50	"	Ħ	н	n .	#	n	
tert-Butyl alcohol	ND	20	н	"	II	11	II	H	
Di-isopropyl ether	ND	0.50	#	н	11	"	н	п	
1,2-Dibromoethane (EDB)	ND	0.50	n	н	*	H	"	II.	
1,2-Dichloroethane	ND	0.50	п	**	H	II .	II	"	
Ethanol	ND	300	"	U	**	"	11	н	
Ethyl tert-butyl ether	ND	0.50	n	11	e	II .	"	II .	
Ethylbenzene	12	0.50	Ш	"	11	II .	H	**	
Methyl tert-butyl ether	0.71	0.50	11	Ħ	0	#1	II	tt.	
Toluene	0.99	0.50	H	П	**	It	**	п	
Xylenes (total)	32	0.50	11		11		Ħ	"	
Surrogate: Dibromofluoromethane		92 %	75-13	0	"	"	11	"	
Surrogate: 1,2-Dichloroethane-d4		86 %	60-15	0	"	"	"	"	
Surrogate: Toluene-d8		98 %	75-12	9	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		98 %	55-13	9	"	"	"	"	





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQL0519 Reported: 01/03/08 16:15

#### Volatile Organic Compounds by EPA Method 8260B TestAmerica Morgan Hill

			1104 111	organ I					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
DPE-3 (MQL0519-03) Water Sampled	12/14/07 06:59	Received:	12/14/07	20:15					
tert-Amyl methyl ether	ND	25	ug/l	50	7L27010	12/27/07	12/27/07	EPA 8260B	
Benzene	1800	25	H	11	"	"	н	tt .	
tert-Butyl alcohol	1700	1000	11	"	II	#	н	п	
Di-isopropyl ether	ND	25	**	"	н	п	#		
1,2-Dibromoethane (EDB)	ND	25	#	D	#	п	**	**	
1,2-Dichloroethane	ND	25	Ш	#	II .	"	11	II .	
Ethanol	ND	15000	#	n	11	11	**	n	10
Ethyl tert-butyl ether	ND	25	If	п	H	11	n	"	
Ethylbenzene	830	25	11	"	II	и	Ü	II .	
Methyl tert-butyl ether	770	25	"	н		11	!!	#	
Toluene	840	25	n	11	"	t)	п	H	
Xylenes (total)	1200	25		**	11	#	11	п	
Surrogate: Dibromofluoromethane		92 %	75-	130	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		94 %	60-	150	"	"	"	"	
Surrogate: Toluene-d8		102 %	75-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98 %	55-	130	"	"	"	"	
DPE-4 (MQL0519-04) Water Sampled:	12/14/07 08:25	Received:	12/14/07	20:15					
tert-Amyl methyl ether	ND	500	ug/l	1000	7L27011	12/27/07	12/27/07	EPA 8260B	
Benzene	12000	500	11	II	"	11	It	**	
tert-Butyl alcohol	ND	20000	н	11	"	#	H	II .	
Di-isopropyl ether	ND	500	**	**	II .	H	**	II.	
1,2-Dibromoethane (EDB)	ND	500	tt.	u	**	II .	н	n	
1,2-Dichloroethane	ND	500	и	п	n	n .	D.	11	
Ethanol	ND	300000	**	н	п	и		п	
Ethyl tert-butyl ether	ND	500	H	**	11	п	и	и	
Ethylbenzene	4900	500	ш	n	"	ŧi.	II.	11	
Methyl tert-butyl ether	8000	500	н	II.	n	#	11	п	
Toluene	27000	500	n	"	11	п	"	**	
Xylenes (total)	27000	500	п	п	"	0	н	H	
Surrogate: Dibromofluoromethane		92 %	75-1	30	11	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		85 %	60-1	50	"	"	"	"	
Surrogate: Toluene-d8		97 %	75-1		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91 %	55-1	30	"	"	"	"	





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035 Project Manager: Jay Johnson MQL0519 Reported: 01/03/08 16:15

## Volatile Organic Compounds by EPA Method 8260B TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DPE-5 (MQL0519-05) Water Sampled	12/14/07 07:38	Received:	12/14/07 2	0:15					
tert-Amyl methyl ether	ND	500	ug/l	1000	7L27011	12/27/07	12/27/07	EPA 8260B	
Benzene	9200	500	II .	II .	"	н	H.	H	
tert-Butyl alcohol	ND	20000	"	"	II	**	II	ti.	
Di-isopropyl ether	ND	500	U	n	**	II .	**	H	
1,2-Dibromoethane (EDB)	ND	500	n	п	0	41	tt.	**	
1,2-Dichloroethane	ND	500	10	**	11	"	11	H	
Ethanol	ND	300000	Ħ	Ħ	*1	11	"	II	
Ethyl tert-butyl ether	ND	500	II	U	H	11	11	#	
Ethylbenzene	4600	500	n	81	II	*1	II	**	
Methyl tert-butyl ether	16000	500	"	"	11	*	II .	**	
Toluene	4100	500	II .	H	н	JF	**	ш	
Xylenes (total)	20000	500	II .	11	II .	#1		11	***************************************
Surrogate: Dibromofluoromethane		89 %	75-13	0	"	"	"	11	
Surrogate: 1,2-Dichloroethane-d4		82 %	60-15	0	"	11	n	"	
Surrogate: Toluene-d8		97 %	75-12	0	"	"	ıı .	n .	
Surrogate: 4-Bromofluorobenzene		90 %	55-13	0	"	"	"	"	
MW-11 (MQL0519-06) Water Sampled	: 12/14/07 06:43	Received	: 12/14/07	20:15					
tert-Amyl methyl ether	ND	10	ug/l	20	7L27010	12/27/07	12/27/07	EPA 8260B	
Benzene	ND	10	п	п	11	н	п	#	
tert-Butyl alcohol	ND	400	**	"	II .	tt.	п	rr .	
Di-isopropyl ether	ND	10	n	n	#	II .	"	U	
1,2-Dibromoethane (EDB)	ND	10	II	п	"		н	"	
1,2-Dichloroethane	ND	10	0	"	11	"	11	11	
Ethanol	ND	6000	"	Ħ	"	11	11	Ш	IC
Ethyl tert-butyl ether	ND	10	II	D	If	**	11	и	
Ethylbenzene	230	10	11	**	п	t#	U	ıt	
Methyl tert-butyl ether	ND	10	"	H	n	n	"	U.	
Toluene	72	10	П	n	I)	н	II	**	
Xylenes (total)	760	10	11	"	11	Ħ		H	
Surrogate: Dibromofluoromethane		96 %	75-13	0	"	"	11	n	
Surrogate: 1,2-Dichloroethane-d4		92 %	60-15	9	"	"	"	n .	
Surrogate: Toluene-d8		104 %	75-120	9	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	55-13		"	"	"	"	





Project: BP Heritage #11117,Oakland, CA

Spike

Project Number: G07TK-0035 Project Manager: Jay Johnson MQL0519 Reported: 01/03/08 16:15

RPD

%REC

#### Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control TestAmerica Morgan Hill

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7L21018 - EPA 5030B P/T / I	LUFT GCMS									
Blank (7L21018-BLK1)				Prepared:	12/21/07	Analyzed	i: 12/22/07			
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.55		11	2.50		102	60-150			
Surrogate: Dibromofluoromethane	2.37		"	2.50		95	75-130			
Surrogate: Toluene-d8	2.43		"	2.50		97	75-120			
Surrogate: 4-Bromofluorobenzene	2.24		"	2.50		90	55-130			
Laboratory Control Sample (7L21018-I	BS2)			Prepared	& Analyze	ed: 12/21/	07			
Gasoline Range Organics (C4-C12)	472	50	ug/l	500		94	55-130			
Surrogate: 1,2-Dichloroethane-d4	2.48		"	2.50		99	60-150			
Surrogate: Dibromofluoromethane	2.37		"	2.50		95	75-130			
Surrogate: Toluene-d8	2.56		n	2.50		102	75-120			
Surrogate: 4-Bromofluorobenzene	2.57		"	2.50		103	55-130			
Laboratory Control Sample Dup (7L210	018-BSD2)			Prepared:	12/21/07	Analyzed	1: 12/22/07			
Gasoline Range Organics (C4-C12)	467	50	ug/l	500		93	55-130	1	20	
Surrogate: 1,2-Dichloroethane-d4	2,41		"	2.50		96	60-150		***************************************	
Surrogate: Dibromofluoromethane	2.34		"	2.50		94	75-130			
Surrogate: Toluene-d8	2.60		"	2.50		104	75-120			
Surrogate: 4-Bromofluorobenzene	2.56		"	2.50		102	55-130			
Matrix Spike (7L21018-MS1)	Source: MQ	L0519-02		Prepared:	12/21/07	Analyzed	: 12/22/07			
Gasoline Range Organics (C4-C12)	2260	50	ug/l	550	2500	0	25-150		***************************************	LN,AY
Surrogate: 1,2-Dichloroethane-d4	2.54		"	2.50		102	60-150			***************************************
Surrogate: Dibromofluoromethane	2.51		"	2.50		100	75-130			
Surrogate: Toluene-d8	2.62		"	2.50		105	75-120			
Surrogate: 4-Bromofluorobenzene	2.86		"	2.50		114	55-130			
Matrix Spike Dup (7L21018-MSD1)	Source: MQ	L0519-02		Prepared:	12/21/07	Analyzed	: 12/22/07			
Gasoline Range Organics (C4-C12)	2200	50	ug/l	550	2500	0	25-150	3	20	LN,AY
Surrogate: 1,2-Dichloroethane-d4	2.58		"	2.50		103	60-150			***************************************
Surrogate: Dibromofluoromethane	2.58		"	2.50		103	75-130			
Surrogate: Toluene-d8	2.61		"	2.50		104	75-120			
Surrogate: 4-Bromofluorobenzene	2.69		n	2.50		108	55-130			





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQL0519 Reported: 01/03/08 16:15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7L27010 - EPA 5030B P/T	/ EPA 8260B									
Blank (7L27010-BLK1)				Prepared 6	& Analyze	d: 12/27/0	)7			
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	n							
tert-Butyl alcohol	ND	20	II .							
Di-isopropyl ether	ND	0.50	**							
1,2-Dibromoethane (EDB)	ND	0.50	**							
1,2-Dichloroethane	ND	0.50	n							
Ethanol	ND	300	п							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	п							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	tf							
Surrogate: Dibromofluoromethane	2.38		"	2.50		95	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.38		"	2.50		95	60-150			
Surrogate: Toluene-d8	2.46		"	2.50		98	75-120			
Surrogate: 4-Bromofluorobenzene	2.43		"	2.50		97	55-130			
Laboratory Control Sample (7L27010	-BS1)			Prepared &	& Analyze	d: 12/27/0	17			
tert-Amyl methyl ether	12.1	0.50	ug/l	10.0		121	75-125			**************************************
Benzene	10.6	0.50	11	10.0		106	75-120			
tert-Butyl alcohol	188	20	II	200		94	80-120			
Di-isopropyl ether	10.8	0.50	11	10.0		108	70-130			
1,2-Dibromoethane (EDB)	11.3	0.50	n	10.0		113	75-130			
1,2-Dichloroethane	9.34	0.50	H .	10.0		93	65-130			
Ethanol	144	300	н	200		72	50-150			
Ethyl tert-butyl ether	11.0	0.50	"	10.0		110	75-130			
Ethylbenzene	10.3	0.50	ш	10.0		103	80-125			
Methyl tert-butyl ether	11.2	0.50	11	10.0		112	80-130			
Гoluene	10.9	0.50	"	10.0		109	80-120			
Xylenes (total)	33.3	0.50		30.0		111	80-125			
Surrogate: Dibromofluoromethane	2.47		11	2,50		99	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.32		"	2.50		93	60-150			
Surrogate: Toluene-d8	2.58		"	2.50		103	75-120			
Surrogate: 4-Bromofluorobenzene	2.52		11	2,50		101	55-130			





Project: BP Heritage #11117,Oakland, CA

Spike

Source

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQL0519 Reported: 01/03/08 16:15

RPD

%REC

## Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control TestAmerica Morgan Hill

Reporting

		Reporting		Spike	Source		70KEC		KPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7L27010 - EPA 5030B P/T / L	UFT GCMS									
Blank (7L27010-BLK1)				Prepared	& Analyze	ed: 12/27/	07			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.38		11	2.50	V.1817. SOLITION	95	60-150			
Surrogate: Dibromofluoromethane	2.38		"	2.50		95	75-130			
Surrogate: Toluene-d8	2.46		"	2.50		98	75-120			
Surrogate: 4-Bromofluorobenzene	2.43		"	2.50		97	55-130			
Laboratory Control Sample (7L27010-B	SS2)			Prepared 6	& Analyze	ed: 12/27/	07			
Gasoline Range Organics (C4-C12)	503	50	ug/l	500		101	55-130			
Surrogate: 1,2-Dichloroethane-d4	2.25		"	2.50		90	60-150		***************************************	111110000000000000000000000000000000000
Surrogate: Dibromofluoromethane	2.36		n	2.50		94	75-130			
Surrogate: Toluene-d8	2.58		"	2.50		103	75-120			
Surrogate: 4-Bromofluorobenzene	2.61		"	2.50		104	55-130			
Laboratory Control Sample Dup (7L270	10-BSD2)			Prepared o	& Analyze	d: 12/27/	07			
Gasoline Range Organics (C4-C12)	495	50	ug/l	500		99	55-130	2	20	
Surrogate: 1,2-Dichloroethane-d4	2.36		"	2.50		94	60-150			TAR ANNA
Surrogate: Dibromofluoromethane	2.33		"	2.50		93	75-130			
Surrogate: Toluene-d8	2.57		"	2.50		103	75-120			
Surrogate: 4-Bromofluorobenzene	2.52		"	2.50		101	55-130			
Matrix Spike (7L27010-MS1)	Source: M	QL0557-03		Prepared &	& Analyze	d: 12/27/0	07			
Gasoline Range Organics (C4-C12)	563	50	ug/l	550	ND	102	25-150			
Surrogate: 1,2-Dichloroethane-d4	2.06		"	2.50		82	60-150			
Surrogate: Dibromofluoromethane	2.31		"	2.50		92	75-130			
Surrogate: Toluene-d8	2.56		"	2.50		102	75-120			
Surrogate: 4-Bromofluorobenzene	2.55		"	2.50		102	55-130			
Matrix Spike Dup (7L27010-MSD1)	Source: M	QL0557-03		Prepared &	& Analyze	d: 12/27/0	)7			
Gasoline Range Organics (C4-C12)	590	50	ug/l	550	ND	107	25-150	5	20	
Surrogate: 1,2-Dichloroethane-d4	2.24		"	2.50		90	60-150			
Surrogate: Dibromofluoromethane	2.47		"	2.50		99	75-130			
Surrogate: Toluene-d8	2.61		"	2.50		104	75-120			
Surrogate: 4-Bromofluorobenzene	2.62		"	2.50		105	55-130			





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQL0519 Reported: 01/03/08 16:15

Batch 7L27010 - EPA 5030B P/T /	EPA 8260B										
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	

Matrix Spike (7L27010-MS1)	Source: MQ	L0557-03		Prepared 6						
tert-Amyl methyl ether	12.4	0.50	ug/l	10.0	1.84	106	75-140			
Benzene	10.8	0.50	"	10.0	ND	108	80-120			
tert-Butyl alcohol	189	20	11	200	ND	94	80-125			
Di-isopropyl ether	10.4	0.50	n	10.0	ND	104	75-135			
1,2-Dibromoethane (EDB)	9.68	0.50	"	10.0	ND	97	80-135			
1,2-Dichloroethane	8.39	0.50	н	10.0	ND	84	65-145			
Ethanol	166	300	П	200	ND	83	50-150			
Ethyl tert-butyl ether	10.2	0.50	0	10.0	ND	102	80-135			
Ethylbenzene	10.6	0.50	**	10.0	ND	106	75-130			
Methyl tert-butyl ether	14.4	0.50	н	10.0	5.21	92	75-145			
Toluene	11.1	0.50	11	10.0	ND	111	80-125			
Xylenes (total)	33.9	0.50	#	30.0	ND	113	75-125			
Surrogate: Dibromofluoromethane	2.31		11	2.50		92	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.06		"	2.50		82	60-150			
Surrogate: Toluene-d8	2.56		"	2.50		102	75-120			
Surrogate: 4-Bromofluorobenzene	2.55		"	2.50		102	55-130			
Matrix Spike Dup (7L27010-MSD1)	Source: MQ	L0557-03		Prepared &	& Analyze	d: 12/27/	07			
Matrix Spike Dup (7L27010-MSD1) tert-Amyl methyl ether	Source: MQ	<b>L0557-03</b> 0.50	ug/l	Prepared 8	& Analyze	ed: 12/27/ 123	75-140	13	25	
tert-Amyl methyl ether			ug/l "					13	25 20	
	14.1	0.50	•	10.0	1.84	123	75-140			
tert-Amyl methyl ether Benzene	14.1 10.9	0.50 0.50	"	10.0 10.0	1.84 ND	123 109	75-140 80-120	1	20	
tert-Amyl methyl ether Benzene tert-Butyl alcohol	14.1 10.9 191	0.50 0.50 20	11	10.0 10.0 200	1.84 ND ND	123 109 96	75-140 80-120 80-125	1 1	20 25	
tert-Amyl methyl ether Benzene tert-Butyl alcohol Di-isopropyl ether	14.1 10.9 191 11.1	0.50 0.50 20 0.50	11	10.0 10.0 200 10.0	1.84 ND ND ND	123 109 96 111	75-140 80-120 80-125 75-135	1 1 7	20 25 25	
tert-Amyl methyl ether Benzene tert-Butyl alcohol Di-isopropyl ether 1,2-Dibromoethane (EDB)	14.1 10.9 191 11.1 11.0	0.50 0.50 20 0.50 0.50	11 11 10	10.0 10.0 200 10.0 10.0	1.84 ND ND ND ND	123 109 96 111 110	75-140 80-120 80-125 75-135 80-135	1 1 7 13	20 25 25 30	
tert-Amyl methyl ether Benzene tert-Butyl alcohol Di-isopropyl ether 1,2-Dibromoethane (EDB) 1,2-Dichloroethane Ethanol	14.1 10.9 191 11.1 11.0 9.20	0.50 0.50 20 0.50 0.50 0.50	H H H H H H H H H H H H H H H H H H H	10.0 10.0 200 10.0 10.0 10.0	1.84 ND ND ND ND ND	123 109 96 111 110 92	75-140 80-120 80-125 75-135 80-135 65-145	1 7 13 9	20 25 25 30 25	
tert-Amyl methyl ether Benzene tert-Butyl alcohol Di-isopropyl ether 1,2-Dibromoethane (EDB) 1,2-Dichloroethane	14.1 10.9 191 11.1 11.0 9.20	0.50 0.50 20 0.50 0.50 0.50 300	# # # # # # # # # # # # # # # # # # #	10.0 10.0 200 10.0 10.0 10.0 200	1.84 ND ND ND ND ND ND	123 109 96 111 110 92 75	75-140 80-120 80-125 75-135 80-135 65-145 50-150	1 1 7 13 9 10	20 25 25 30 25 25	
tert-Amyl methyl ether Benzene tert-Butyl alcohol Di-isopropyl ether 1,2-Dibromoethane (EDB) 1,2-Dichloroethane Ethanol Ethyl tert-butyl ether Ethylbenzene	14.1 10.9 191 11.1 11.0 9.20 151 11.3	0.50 0.50 20 0.50 0.50 0.50 300 0.50	11 11 11 11 11	10.0 10.0 200 10.0 10.0 10.0 200 10.0	1.84 ND ND ND ND ND ND	123 109 96 111 110 92 75 113	75-140 80-120 80-125 75-135 80-135 65-145 50-150 80-135	1 7 13 9 10	20 25 25 30 25 25 25	
tert-Amyl methyl ether Benzene tert-Butyl alcohol Di-isopropyl ether 1,2-Dibromoethane (EDB) 1,2-Dichloroethane Ethanol Ethyl tert-butyl ether	14.1 10.9 191 11.1 11.0 9.20 151 11.3	0.50 0.50 20 0.50 0.50 0.50 300 0.50 0.50	11 11 11 11 11 11 11 11 11 11 11 11 11	10.0 10.0 200 10.0 10.0 10.0 200 10.0 10.	1.84 ND ND ND ND ND ND ND ND ND ND ND ND ND	123 109 96 111 110 92 75 113	75-140 80-120 80-125 75-135 80-135 65-145 50-150 80-135 75-130	1 7 13 9 10 11 2	20 25 25 30 25 25 25 25 20	-
tert-Amyl methyl ether Benzene tert-Butyl alcohol Di-isopropyl ether 1,2-Dibromoethane (EDB) 1,2-Dichloroethane Ethanol Ethyl tert-butyl ether Ethylbenzene Methyl tert-butyl ether	14.1 10.9 191 11.1 11.0 9.20 151 11.3 10.4 16.5	0.50 0.50 20 0.50 0.50 0.50 0.50 0.50 0.50 0.50	11 11 11 11 11 11 11 11 11 11 11 11 11	10.0 10.0 200 10.0 10.0 10.0 200 10.0 10.	1.84 ND ND ND ND ND ND ND ND ND ND ND ND ND	123 109 96 111 110 92 75 113 104	75-140 80-120 80-125 75-135 80-135 65-145 50-150 80-135 75-130 75-145	1 1 7 13 9 10 11 2	20 25 25 30 25 25 25 25 20 25	
tert-Amyl methyl ether Benzene tert-Butyl alcohol Di-isopropyl ether 1,2-Dibromoethane (EDB) 1,2-Dichloroethane Ethanol Ethyl tert-butyl ether Ethylbenzene Methyl tert-butyl ether Toluene Xylenes (total)	14.1 10.9 191 11.1 11.0 9.20 151 11.3 10.4 16.5	0.50 0.50 20 0.50 0.50 0.50 0.50 0.50 0.50 0.50	11 11 11 11 11 11 11 11 11 11 11 11 11	10.0 10.0 200 10.0 10.0 10.0 200 10.0 10.	1.84 ND ND ND ND ND ND ND ND ND ND ND ND ND	123 109 96 111 110 92 75 113 104 113	75-140 80-120 80-125 75-135 80-135 65-145 50-150 80-135 75-130 75-145 80-125	1 1 7 13 9 10 11 2 14	20 25 25 30 25 25 25 20 25 25	
tert-Amyl methyl ether Benzene tert-Butyl alcohol Di-isopropyl ether 1,2-Dibromoethane (EDB) 1,2-Dichloroethane Ethanol Ethyl tert-butyl ether Ethylbenzene Methyl tert-butyl ether Toluene Xylenes (total) Surrogate: Dibromofluoromethane	14.1 10.9 191 11.1 11.0 9.20 151 11.3 10.4 16.5 11.0 33.7	0.50 0.50 20 0.50 0.50 0.50 0.50 0.50 0.50 0.50		10.0 10.0 200 10.0 10.0 10.0 200 10.0 10.	1.84 ND ND ND ND ND ND ND ND ND ND ND ND ND	123 109 96 111 110 92 75 113 104 113 110	75-140 80-120 80-125 75-135 80-135 65-145 50-150 80-135 75-130 75-145 80-125 75-125	1 1 7 13 9 10 11 2 14	20 25 25 30 25 25 25 20 25 25	
tert-Amyl methyl ether Benzene tert-Butyl alcohol Di-isopropyl ether 1,2-Dibromoethane (EDB) 1,2-Dichloroethane Ethanol Ethyl tert-butyl ether Ethylbenzene Methyl tert-butyl ether Toluene	14.1 10.9 191 11.1 11.0 9.20 151 11.3 10.4 16.5 11.0 33.7	0.50 0.50 20 0.50 0.50 0.50 0.50 0.50 0.50 0.50		10.0 10.0 200 10.0 10.0 10.0 200 10.0 10.	1.84 ND ND ND ND ND ND ND ND ND ND ND ND ND	123 109 96 111 110 92 75 113 104 113 110 112	75-140 80-120 80-125 75-135 80-135 65-145 50-150 80-135 75-130 75-145 80-125 75-125	1 1 7 13 9 10 11 2 14	20 25 25 30 25 25 25 20 25 25	





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035
Project Manager: Jay Johnson

MQL0519 Reported: 01/03/08 16:15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7L27011 - EPA 5030B P/T	/ EPA 8260B									
Blank (7L27011-BLK1)				Prepared	& Analyze	ed: 12/27/	07			
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	H							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	11							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	U							
Ethanol	ND	300	н							
Ethyl tert-butyl ether	ND	0.50	n							
Ethylbenzene	ND	0.50	II .							
Methyl tert-butyl ether	ND	0.50	#							
Toluene	ND	0.50	11							
Xylenes (total)	ND	0.50	II .							
Surrogate: Dibromofluoromethane	2.28		"	2.50		91	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.18		"	2.50		87	60-150			
Surrogate: Toluene-d8	2.38		"	2.50		95	75-120			
Surrogate: 4-Bromofluorobenzene	2.21		"	2.50		88	55-130			
Laboratory Control Sample (7L27011	-BS1)			Prepared &	& Analyze	d: 12/27/0	)7			
tert-Amyl methyl ether	9.94	0.50	ug/l	10.0		99	75-125			
Benzene	10.4	0.50	"	10.0		104	75-120			
ert-Butyl alcohol	180	20	U	200		90	80-120			
Di-isopropyl ether	9.80	0.50	n	10.0		98	70-130			
1,2-Dibromoethane (EDB)	10.1	0.50	"	10.0		101	75-130			
1,2-Dichloroethane	8.67	0.50	II .	10.0		87	65-130			
Ethanol	156	300	п	200		78	50-150			
Ethyl tert-butyl ether	10.1	0.50	11	10.0		101	75-130			
Ethylbenzene	10.8	0.50	n	10.0		108	80-125			
Methyl tert-butyl ether	9.80	0.50	11	10.0		98	80-130			
Toluene	10.8	0.50	II	10.0		108	80-120			
Kylenes (total)	33.1	0.50	"	30.0		110	80-125			
Surrogate: Dibromofluoromethane	2.27		"	2.50		91	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.18		"	2.50		87	60-150			
Surrogate: Toluene-d8	2.43		u	2.50		97	75-120			
Surrogate: 4-Bromofluorobenzene	2.35		"	2.50		94	55-130			





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0035 Project Manager: Jay Johnson MQL0519 Reported: 01/03/08 16:15

Retric Amyl methyl ether   12.7	Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Retric Amyl methyl ether   12.7	Batch 7L27011 - EPA 5030B P/T / F	EPA 8260B									
Benzene 33.3 0.50 " 10.0 23.5 98 80-120   Benzene 1480 20 " 200 1340 72 80-125   Benzene 1480 1480 20 " 200 1340 72 80-125   Benzene 1480 1480 20 " 200 1340 72 80-125   Benzene 1480 1480 20 " 200 1340 72 80-125   Benzene 1480 1480 20 " 200 180 177 80-135   Benzene 1480 1480 1480 1480 1480 1480 1480 1480	Matrix Spike (7L27011-MS1)	Source: M	IQL0519-01		Prepared	& Analyze	ed: 12/27/	07			
Part   Patry   alcohol   1480   20    "   200   1340   72   80-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125   8-125	tert-Amyl methyl ether	12.7	0.50	ug/l	10.0	ND	127	75-140			
Di-isopropyl ether	Benzene	33.3	0.50	n	10.0	23.5	98	80-120			
1.2-Dibromoethane (EDB)	tert-Butyl alcohol	1480	20	**	200	1340	72	80-125			BE
1,2-Dichloroethane	Di-isopropyl ether	10.8	0.50	п	10.0	ND	108	75-135			
Ethyl terr-butyl ether	1,2-Dibromoethane (EDB)	11.7	0.50	"	10.0	ND	117	80-135			
Ethyl tert-butyl ether	1,2-Dichloroethane	9.78	0.50	"	10.0	ND	98	65-145			
Ethylbenzene	Ethanol	150	300	п	200	ND	75	50-150			
Methyl tert-butyl ether	Ethyl tert-butyl ether	15.2	0.50	"	10.0	3.40	118	80-135			
Toluene 11.4 0.50 " 10.0 0.350 110 80-125	Ethylbenzene	14.0	0.50	и	10.0	3.42	106	75-130			
Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name	Methyl tert-butyl ether	41.4	0.50	**	10.0	28.4	130				
Surrogate: Dibromofluoromethane   2.37   "   2.50   95   75-130	Toluene	11.4	0.50	н	10.0	0.350	110	80-125			
Surrogate: 1,2-Dichloroethane-d4 2,29 " 2,50 101 75-120 Surrogate: Tohwene-d8 2,52 " 2,50 101 75-120 Surrogate: 4-Bromofluorobenzene 2,47 " 2,50 99 55-130  Matrix Spike Dup (7L27011-MSD1) Source: MQL0519-01 Prepared & Analyzed: 12/27/07  ert-Amyl methyl ether 12,9 0,50 12,0 10,0 12,0 12,0 13,0 10,0 10,0 10,0 10,0 10,0 10,0 10	Xylenes (total)	33.7	0.50	n n	30.0	0.450	111	75-125			
Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene 2.47 " 2.50 99 55-130  Matrix Spike Dup (7L27011-MSD1) Source: MQL0519-01 Prepared & Analyzed: 12/27/07  ert-Amyl methyl ether 12.9 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.	Surrogate: Dibromofluoromethane	2.37		"	2.50		95	75-130			
Matrix Spike Dup (7L27011-MSD1)   Source: MQL0519-01   Prepared & Analyzed: 12/27/07	Surrogate: 1,2-Dichloroethane-d4	2.29		"	2.50		92	60-150			
Matrix Spike Dup (7L27011-MSD1)         Source: MQL0519-01         Prepared & Analyzed: 12/27/07           Pert-Amyl methyl ether         12.9         0.50         ug/l         10.0         ND         129         75-140         1         25           Benzene         33.2         0.50         "         10.0         23.5         96         80-120         0.3         20           ert-Butyl alcohol         1460         20         "         200         1340         61         80-125         1         25         BB           Di-isopropyl ether         11.0         0.50         "         10.0         ND         110         75-135         2         25         BB           1,2-Dibromoethane (EDB)         11.7         0.50         "         10.0         ND         110         75-135         2         25         BB           1,2-Dibromoethane (EDB)         11.7         0.50         "         10.0         ND         117         80-135         0.3         30           1,2-Dibromoethane         9.66         0.50         "         10.0         ND         97         65-145         1         25           Ethanol         150         300         "         200	Surrogate: Toluene-d8	2.52		"	2.50		101	75-120			
Serial Content   12.9   0.50   ug/l   10.0   ND   129   75-140   1   25   25   25   25   25   25   25	Surrogate: 4-Bromofluorobenzene	2.47		"	2.50		99	55-130			
Benzene 33.2 0.50 " 10.0 23.5 96 80-120 0.3 20 ert-Butyl alcohol 1460 20 " 200 1340 61 80-125 1 25 BB Di-isopropyl ether 11.0 0.50 " 10.0 ND 110 75-135 2 25 1 25 1 25 1 25 1 25 1 25 1 25 1	Matrix Spike Dup (7L27011-MSD1)	Source: M	QL0519-01		Prepared	& Analyze	d: 12/27/	07			
Surrogate: Dibromofluoromethane   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene-d8   Surrogate: Toluene	tert-Amyl methyl ether	12.9	0.50	ug/l	10.0	ND	129	75-140	1	25	
Di-isopropyl ether 11.0 0.50 " 10.0 ND 110 75-135 2 25 1,2-Dibromoethane (EDB) 11.7 0.50 " 10.0 ND 117 80-135 0.3 30 1,2-Dichloroethane (EDB) 11.7 0.50 " 10.0 ND 97 65-145 1 25 Ethanol 150 300 " 200 ND 75 50-150 0.2 25 Ethyl tert-butyl ether 15.3 0.50 " 10.0 3.40 119 80-135 0.7 25 Ethylbenzene 13.9 0.50 " 10.0 3.42 104 75-130 0.7 20 Methyl tert-butyl ether 41.8 0.50 " 10.0 28.4 134 75-145 1 25 Ethylbenzene 11.3 0.50 " 10.0 0.350 110 80-125 0.4 25 Ethylense (total) 33.6 0.50 " 30.0 0.450 110 75-125 0.5 20 Ethylbenzene 11.3 0.50 " 2.50 96 75-130 0.7 25 Ethylbenzene 11.3 0.50 " 2.50 92 60-150 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100 0.50 100	Benzene	33.2	0.50	II .	10.0	23.5	96	80-120	0.3	20	
1,2-Dibromoethane (EDB)	tert-Butyl alcohol	1460	20	11	200	1340	61	80-125	1	25	ВВ
1,2-Dichloroethane	Di-isopropyl ether	11.0	0.50	n	10.0	ND	110	75-135	2	25	
Ethanol 150 300 " 200 ND 75 50-150 0.2 25 Ethyl tert-butyl ether 15.3 0.50 " 10.0 3.40 119 80-135 0.7 25 Ethyl benzene 13.9 0.50 " 10.0 3.42 104 75-130 0.7 20 Methyl tert-butyl ether 41.8 0.50 " 10.0 28.4 134 75-145 1 25 Foluene 11.3 0.50 " 10.0 0.350 110 80-125 0.4 25 Exylenes (total) 33.6 0.50 " 30.0 0.450 110 75-125 0.5 20 Entrogate: Dibromofluoromethane 2.40 " 2.50 96 75-130 Entrogate: 1,2-Dichloroethane-d4 2.29 " 2.50 92 60-150 Entrogate: Toluene-d8 2.52 " 2.50 101 75-120	1,2-Dibromoethane (EDB)	11.7	0.50	п	10.0	ND	117	80-135	0.3	30	
Ethyl tert-butyl ether 15.3 0.50 " 10.0 3.40 119 80-135 0.7 25 Ethylbenzene 13.9 0.50 " 10.0 3.42 104 75-130 0.7 20 Methyl tert-butyl ether 41.8 0.50 " 10.0 28.4 134 75-145 1 25 Foluene 11.3 0.50 " 10.0 0.350 110 80-125 0.4 25 Exylenes (total) 33.6 0.50 " 30.0 0.450 110 75-125 0.5 20 Entrogate: Dibromofluoromethane 2.40 " 2.50 96 75-130 Entrogate: 1,2-Dichloroethane-d4 2.29 " 2.50 92 60-150 Entrogate: Toluene-d8 2.52 " 2.50 101 75-120	1,2-Dichloroethane	9.66	0.50	11	10.0	ND	97	65-145	1	25	
Ethyl tert-butyl ether 15.3 0.50 " 10.0 3.40 119 80-135 0.7 25 Ethylbenzene 13.9 0.50 " 10.0 3.42 104 75-130 0.7 20 Methyl tert-butyl ether 41.8 0.50 " 10.0 28.4 134 75-145 1 25 Toluene 11.3 0.50 " 10.0 0.350 110 80-125 0.4 25 Kylenes (total) 33.6 0.50 " 30.0 0.450 110 75-125 0.5 20 Surrogate: Dibromofluoromethane 2.40 " 2.50 96 75-130 Surrogate: 1,2-Dichloroethane-d4 2.29 " 2.50 92 60-150 Surrogate: Toluene-d8 2.52 " 2.50 101 75-120	Ethanol	150	300	n	200	ND	75	50-150	0.2	25	
Methyl tert-butyl ether 41.8 0.50 " 10.0 28.4 134 75-145 1 25  Foluene 11.3 0.50 " 10.0 0.350 110 80-125 0.4 25  Kylenes (total) 33.6 0.50 " 30.0 0.450 110 75-125 0.5 20  Surrogate: Dibromofluoromethane 2.40 " 2.50 96 75-130  Surrogate: 1,2-Dichloroethane-d4 2.29 " 2.50 92 60-150  Surrogate: Toluene-d8 2.52 " 2.50 101 75-120	Ethyl tert-butyl ether	15.3	0.50	n	10.0	3.40	119	80-135	0.7		
Wethyl tert-butyl ether     41.8     0.50     "     10.0     28.4     134     75-145     1     25       Foluene     11.3     0.50     "     10.0     0.350     110     80-125     0.4     25       Kylenes (total)     33.6     0.50     "     30.0     0.450     110     75-125     0.5     20       Surrogate: Dibromofluoromethane     2.40     "     2.50     96     75-130       Surrogate: 1,2-Dichloroethane-d4     2.29     "     2.50     92     60-150       Surrogate: Toluene-d8     2.52     "     2.50     101     75-120	Ethylbenzene	13.9	0.50	п	10.0	3.42	104	75-130	0.7	20	
Foluene 11.3 0.50 " 10.0 0.350 110 80-125 0.4 25 Kylenes (total) 33.6 0.50 " 30.0 0.450 110 75-125 0.5 20  Surrogate: Dibromofluoromethane 2.40 " 2.50 96 75-130  Surrogate: 1,2-Dichloroethane-d4 2.29 " 2.50 92 60-150  Surrogate: Toluene-d8 2.52 " 2.50 101 75-120	Methyl tert-butyl ether	41.8	0.50	19	10.0	28.4	134	75-145	I		
Xylenes (total)     33.6     0.50     "     30.0     0.450     110     75-125     0.5     20       Surrogate: Dibromofluoromethane     2.40     "     2.50     96     75-130       Surrogate: 1,2-Dichloroethane-d4     2.29     "     2.50     92     60-150       Surrogate: Toluene-d8     2.52     "     2.50     101     75-120	Гoluene	11.3	0.50	п	10.0	0.350	110				
Surrogate: 1,2-Dichloroethane-d4 2.29 " 2.50 92 60-150 Surrogate: Toluene-d8 2.52 " 2.50 101 75-120	Xylenes (total)	33.6	0.50	**	30.0	0.450	110	75-125	0.5		
Surrogate: Toluene-d8 2.52 " 2.50 101 75-120	Surrogate: Dibromofluoromethane	2.40		n	2.50		96	75-130			
Surrogate: Toluene-d8 2.52 " 2.50 101 75-120	Surrogate: 1,2-Dichloroethane-d4	2.29		"	2.50		92	60-150			
	Surrogate: Toluene-d8	2.52		"	2.50		101				
	Surrogate: 4-Bromofluorobenzene	2.53		"							



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

Stratus Environmental Inc. [Arco] Project: BP Heritage #11117,Oakland, CA MQL0519
3330 Cameron Park Dr., Suite 550 Project Number: G07TK-0035 Reported:
Cameron Park CA, 95682 Project Manager: Jay Johnson 01/03/08 16:15

#### **Notes and Definitions**

IC Calib. verif. is within method limits but outside contract limits

BB Sample > 4x spike concentration

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

Page	$f_{-}/$
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# Atlantic Richfield

A BP affiliated company

Chain of Custody Record

Project Name:

ARCO 11117

BP BU/AR Region/Enfos Segment:

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BP > Americas > West > Retail > Alameda > 11117

On-site Time 0425 Temp High 205 Off-site Time: 0845 Tempilore 403 Sky Conditions: clear

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

SHA TAT

Meteorological Events: --Wind Speed: ---Direction: ---

Lab 1	Name: TestAmerica						BP/AR Facility N	a -	-	11	117								الم		400								
Addg	css: 885 Jarvis Drive						BP/AR Facility A		۲.			nerat	ft, Oal	l-la-a-							ant/Co					nvironne			
Morg	an Hill, CA 95937						Site Lat/Long			1,2.1	. O Day	ILAOI	ii, Odi	Mail	<u> </u>				- Ad	idress	<u> </u>					Drive, S	uite 55	3	
ab P	M: Lisa Race		****				California Global	T) N	n -	TW	50010	1820:	•						-  _						c, CA 9:	5682			
(clc/)	Fax: 408-782-8156 408-782-636	08 (fax)					Enfos Project No.		···		TTK-	7						,					ctor Pro		No.:				
	R PM Contact: Paul Supple		***************************************	-		ᆍ	Provision or OOC		·la an													••	ctor PIV			Jay Jot			
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,	San Ramon, CA					-	Sub Phase/Task:				toning viical		<del></del>										Lovel:				with E	DF	
ele/i	ax: 925-275-3506						Cost Element				ractor															sinc.ne	<u> </u>	•	
ab I	Sotfle Order No;			T	Mai	Crix	Total Incident	ï	1		resea	_		_				- T				tianti	e Richt	field	Co.				
item No.	Sample Description	Time	Date Date	Soil/Solid	Water/Liquid	Air	Laboratory No.	No. of Containers	Unpreserved		HNO,	HCI	Methanol		GRO/BTEX/Oxy*	1,2-DCA	Brhanol	Reque EL CS	SDECI A	maly	54.9						mments Oxy =		
1	PPE-I	0740	12/14		И	П	_01	3				又		寸	卤	寸	V	艾	<del></del>	┢				╬		<del></del>			
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	Custody Seals in Place Ye	`	_						·	T			a.J.	0-1	<del></del>				<u>_</u>								<u> </u>		
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## TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: REC. BY (PRINT) WORKORDER:	STRATUS PH MP L057 9		DATE REC'D AT LAB: TIME REC'D AT LAB: DATE LOGGED IN:	12/14/0 2015 12/15/0				For Regulatory Purposes?  DRINKING WATER  WASTE WATER  OTHER			
CIRCLE THE APPRO	OPRIATE RESPONSE	LAB SAMPLE#	CLIENT ID	CONTAINER DESCRIPTION		рH	SAMPLE	DATE SAMPLED	REMARKS: CONDITION (ETC.)		
Custody Seal(s)	Present / Absent										
2. Chain-of-Custody	(Interot / Broken* (Present / Absent*							_/_			
3. Traffic Reports or									· · · · · · · · · · · · · · · · · · ·		
Packing List	Present (Absent)										
4. Airbill:	Airbill / Sticker					***					
5. Airbill #:	Present / Absent					$\overline{\mathcal{L}}$					
6. Sample Labels:	Present / Absent				\%\ \%	<i>Y_</i>					
7. Sample IDs:	(Listed)/ Not Listed				**						
•	on Chain-of-Custody										
8. Sample Condition:	Intact / Broken* /			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	/						
	Leaking*			Super Contract							
9. Does information or				gr /							
traffic reports and s agree?	ample labels Yes No*										
10. Sample received with			رق	/							
hold time?	Yes) No*		//								
11. Adequate sample volu			<6°/			***************************************					
received?	(Yes) No*										
12. Proper preservatives											
13 Trip Blank / Temp Bla											
(circle which, if yes)  14. Read Temp:	(Yes) No*										
Correction Factor:	-1.0		/								
Corrected Temp:	3.6.0										
is corrected temp. 0-6	°C? Yes/No**										
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SAMPLERECEIPTLOG Revision 9 (10/26/07) IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

Page 1 of \_\_\_\_

#### APPENDIX B

STRATUS GROUND-WATER SAMPLING DATA PACKAGE (Includes Field Data Sheets and Laboratory Analytical Report with Chain-of-Custody Documentation)



November 27, 2007

Mr. Rob Miller Broadbent & Associates, Inc. 2000 Kirman Avenue Reno, NV 89502

Re: Groundwater Sampling Data Package, BP Service Station No. 11117, located at

7210 Bancroft, Oakland, California

#### **General Information**

Data Submittal Prepared / Reviewed by: Sandy Hayes / Jay Johnson

Phone Number: (530) 676-6000

On-Site Supplier Representative: David DeMello / Tony Hill

Sampling Date: November 9, 2007

Arrival: 05:00 Departure: 10:30

Weather Conditions: Clear

Unusual Field Conditions: None

Scope of Work Performed: Quarterly monitoring and sampling

Variations from Work Scope: A sheen was noted in Well MW-4. Well EX-1 ran dry before

three casing volumes were removed.

This submittal presents the tabulation of data collected in association with routine groundwater monitoring. The attachments include field data sheets, non-hazardous waste data form, chain of custody documentation, and certified analytical results. The information is being provided to BP-ARCO's Scoping Supplier for use in preparing a report for regulatory submittal. This submittal is limited to presentation of collected data and does not include data interpretation or conclusions or recommendations. Any questions concerning this submittal should be addressed to the Preparer/Reviewer identified above.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Jay R. Johnson, P.C.

Jay R. Johnson
No. 5867

#### **Attachments:**

- Field Data Sheets
- Non-Hazardous Waste Data Form
- Chain of Custody Documentation
- Certified Analytical Results

cc: Mr. Paul Supple, BP/ARCO



Site Address: 72/0 Bancroft
City Oak Land, CA
Sampled By D. Sellello ORIGINAL

Site Number: ARCO IIII 7
Project No. E IIII 7
Project PM TAY Tahusan
Date Sampled IL-09-07

Site Contact Phone No.

	Water Le	evel Data				Purge Vo	ume Çalcu	ılations			Well P	urge M	lethod	Sar	nple Rec	ord	Field
		Depth to		Total Depth of Well	Casing Water Column	Well Diameter	Multiplier Value	Three Casing Volumes	Actual Water Purged	Z 0				DTW At	Sample	Cample	Data Dissolved Oxygen
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Nw-2	0525		20	39.33	17,80	2	15	8.90	9		X			21.89	Mw-2	<u> </u>	1.65
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Nw-4	0535	21.27	20	39.56	18.29	2	15	9,15	9		X			X.	Mw-4		7/3
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Site Number ARCO 1117
Project No. ELLLT
Project PM Jay Johnson
Date Sampled 11-09-07

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## **Wellhead Observation Form**

Account: ARCO 1117
Sampled by: D. De Mello / Tony

Box in good condition	Lock Missing (Replaced with new)	Water in Box	Bolts Missing	Bolts Stripped	Bolt-Holes Stripped	Cracked or Broken Lid	Cracked Box and/or Bolt - Holes	Misc.	Add'l Notes and Other Stuff
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# Atlantic Richfield Company

A BP affiliated company

**Chain of Custody Record** Project Name:

ARCO 11117

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda > 11117

ORIGINAL

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

STD-TAT

On-site Time: 0500 Temp: 60's Off-site Time: 1030 Temp: 70'5 Sky Conditions: CLEAN Meteorological Events: Wind Speed: Direction:

Lab Name: TestAmerica	BP/AR Facility No.: 11117	Consultant/Contractor: Stratus Environmental, Inc.			
Address: 885 Jarvis Drive	BP/AR Facility Address: 7210 Bancroft, Oakland	Address: 3330 Cameron Park Drive, Suite 550			
Morgan Hill, CA 95937	Site Lat/Long:	Cameron Park, CA 95682			
Lab PM: Lisa Race	California Global ID No.: T0600100201	Consultant/Contractor Project No.:			
Tele/Fax: 408-782-8156 408-782-6308 (fax)	Enfos Project No.: G07TK-0029	Consultant/Contractor PM: Jay Johnson			
BP/AR PM Contact: Paul Supple	Provision or OOC (circle one) Provision	Tele/Fax: (530) 676-6000 / (530) 676-6005			
Address: 2010 Crow Canyon Place, Suite 150	Phase/WBS: 04-Monitoring	Report Type & QC Level: Level 1 with EDF			
San Ramon, CA	Sub Phase/Task: 03-Analytical	E-mail EDD To: shayes@stratusinc.net			
Tele/Fax: 925-275-3506	Cost Element: 01-Contractor labor	Invoice to: Atlantic Richfield Co.			
ab Bottle Order No: Matr	Preservative All by 8260 Requesto	<u> </u>			
Item Sample Description Time Date Date No. Water/Liquid	No. of Containers Unpreserved H2SO4 HNO3 HCI Methanol Methanol SRO/BTEX/Oxy* GRO/BTEX/Oxy* GRO/BTEX/	Sample Point Lat/Long and Comments *Oxy = MTBE,TAME,ETBE,DIPE,TBA			
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27 November, 2007

Jay Johnson Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park, CA 95682

RE: BP Heritage #11117,Oakland, CA Work Order: MQK0358

Enclosed are the results of analyses for samples received by the laboratory on 11/09/07 16:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race

Senior Project Manager

CA ELAP Certificate # 1210

The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.



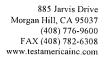


3	Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550	Project: Project Number:	BP Heritage #11117,Oakland, CA G07TK-0029	MQK0358 Reported:
	Cameron Park CA, 95682	Project Manager:	Jay Johnson	11/27/07 13:39

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	MQK0358-01	Water	11/09/07 09:20	11/09/07 16:40
MW-4	MQK0358-02	Water	11/09/07 10:10	11/09/07 16:40
MW-7	MQK0358-03	Water	11/09/07 07:35	11/09/07 16:40
MW-10	MQK0358-04	Water	11/09/07 06:55	11/09/07 16:40
EX-1	MQK0358-05	Water	11/09/07 09:30	11/09/07 16:40
EX-2	MQK0358-06	Water	11/09/07 08:45	11/09/07 16:40
TB-11117-11092007	MQK0358-07	Water	11/09/07 05:15	11/09/07 16:40

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 no custody seals.





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0029 Project Manager: Jay Johnson MQK0358 Reported: 11/27/07 13:39

# Total Purgeable Hydrocarbons by GC/MS (CA LUFT) TestAmerica - Morgan Hill, CA

				0					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-2 (MQK0358-01) Water Sampled: 11/0	9/07 09:20	Received:	11/09/07	16:40					
Gasoline Range Organics (C4-C12)	49000	10000	ug/l	200	7K15016	11/15/07	11/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		97 %	60-1	50	"	"	"	"	
Surrogate: Dibromofluoromethane		93 %	75-1	30	"	n n	"	"	
Surrogate: Toluene-d8		92 %	75-1.	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		88 %	55-1	30	"	"	"	n .	
MW-4 (MQK0358-02) Water Sampled: 11/0	9/07 10:10	Received:	11/09/07	16:40					
Gasoline Range Organics (C4-C12)	10000	10000	ug/l	200	7K15016	11/15/07	11/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		100 %	60-1.	50	"	"	"	"	
Surrogate: Dibromofluoromethane		90 %	75-1.	30	"	"	"	"	
Surrogate: Toluene-d8		95 %	75-1.	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	55-1.	30	"	"	"	n .	
MW-7 (MQK0358-03) Water Sampled: 11/09	9/07 07:35	Received:	11/09/07	16:40					
Gasoline Range Organics (C4-C12)	61	50	ug/l	1	7K15016	11/15/07	11/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		102 %	60-1.	50	"	"	"	"	
Surrogate: Dibromofluoromethane		94 %	75-13	30	"	"	"	"	
Surrogate: Toluene-d8		92 %	75-12	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		89 %	55-13	30	"	"	"	"	
MW-10 (MQK0358-04) Water Sampled: 11/0	9/07 06:55	Received	: 11/09/07	16:40					
Gasoline Range Organics (C4-C12)	1100	200	ug/l	4	7K16001	11/16/07	11/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-15	50	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	75-13	30	"	"	"	"	
Surrogate: Toluene-d8		96 %	75-12	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		93 %	55-13	30	"	"	"	n	





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0029 Project Manager: Jay Johnson MQK0358 Reported: 11/27/07 13:39

## Total Purgeable Hydrocarbons by GC/MS (CA LUFT) TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
EX-1 (MQK0358-05) Water Sampled:	11/09/07 09:30	Received:	11/09/07 1	6:40	***************************************				
Gasoline Range Organics (C4-C12)	5300	1000	ug/l	20	7K15016	11/15/07	11/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		97 %	60-1	50	"	"	11	"	
Surrogate: Dibromofluoromethane		92 %	75-1	30	"	"	n n	"	
Surrogate: Toluene-d8		91 %	75-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88 %	55-1	30	"	"	"	"	
EX-2 (MQK0358-06) Water Sampled:	11/09/07 08:45	Received:	11/09/07 1	6:40					
Gasoline Range Organics (C4-C12)	120	50	ug/l	I	7K15016	11/15/07	11/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		101 %	60-1	50	"	"	"	п	
Surrogate: Dibromofluoromethane		94 %	75-1	30	"	"	"	n	
Surrogate: Toluene-d8		92 %	75-1	20	n	"	"	n	
Surrogate: 4-Bromofluorobenzene		85 %	55-1	30	"	<i>n</i>	n	n .	



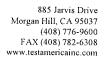


Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0029 Project Manager: Jay Johnson MQK0358 Reported: 11/27/07 13:39

#### Volatile Organic Compounds by EPA Method 8260B TestAmerica - Morgan Hill, CA

MW-2 (MQK0358-01) Water Sampled: 11/09/07 09:20  Fert-Amyl methyl ether ND  Benzene 6300  Fert-Butyl alcohol ND  Di-isopropyl ether ND  1,2-Dibromoethane (EDB) ND  1,2-Dichloroethane ND  Ethanol ND  Ethyl tert-butyl ether ND  Ethyl tert-butyl ether Source  Methyl tert-butyl ether 9500  Foluene 3300  Kylenes (total) 8300  Eurrogate: Dibromofluoromethane  Eurrogate: 1,2-Dichloroethane-d4	100 100 4000 100 100 100 60000 100 100 100 100 10	: 11/09/0' ug/l " " " " " " " " " "	200	7K15016	11/15/07	11/16/07 " " " " " " "	EPA 8260B	
Benzene   6300     ert-Butyl alcohol   ND     Di-isopropyl ether   ND     1,2-Dibromoethane (EDB)   ND     1,2-Dichloroethane   ND     Ethanol   ND     Ethyl tert-butyl ether   ND     Ethylbenzene   2900     Methyl tert-butyl ether   9500     Foluene   3300     Surrogate: Dibromofluoromethane	100 4000 100 100 100 60000 100 100 100 100	11 10 10 10 10 10 10 10 10 10 10 10 10 1	n u u u u u u u u u u u	0 0 0 0 0 0	11 11 11 11 11 11 11 11 11 11 11	11 11 11 11 11 11 11 11 11 11 11 11 11	0 0 0	
Surrogate: Dibromofluoromethane   ND	4000 100 100 100 60000 100 100 100 100	10 40 40 40 41 41 41 41 41 41 41 41 41 41 41 41 41	11 11 11 11 11	0 0 0 0	n n n n	0 11 11 11	0 0 0	
Di-isopropyl ether         ND           1,2-Dibromoethane (EDB)         ND           1,2-Dichloroethane         ND           Ethanol         ND           Ethyl tert-butyl ether         ND           Ethylbenzene         2900           Methyl tert-butyl ether         9500           Foluene         3300           Kylenes (total)         8300	100 100 100 60000 100 100 100 100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	11 (1 (1) (1)	11 11 11 11	11 19	
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1,2-Dichloroethane	100 60000 100 100 100 100	11 11 11 11	п п п	tt 11 21	11 12	H H	# # #	
Ethanol         ND           Ethyl tert-butyl ether         ND           Ethylbenzene         2900           Methyl tert-butyl ether         9500           Foluene         3300           Kylenes (total)         8300           Surrogate: Dibromofluoromethane	60000 100 100 100 100 100	# # # # # # # # # # # # # # # # # # #	11 n	11 23	11	H	0 11 91	
Ethyl tert-butyl ether         ND           Ethylbenzene         2900           Methyl tert-butyl ether         9500           Foluene         3300           Kylenes (total)         8300           Surrogate: Dibromofluoromethane	100 100 100 100 100	11 11 19	11 n	# 11	**	44	11 14	
Ethylbenzene       2900         Methyl tert-butyl ether       9500         Foluene       3300         Kylenes (total)       8300         Surrogate: Dibromofluoromethane	100 100 100 100	# #	11	11			"	
Methyl tert-butyl ether 9500 Foluene 3300 Kylenes (total) 8300 Surrogate: Dibromofluoromethane	100 100 100	11	11		n	0	u	
Toluene 3300  Kylenes (total) 8300  Surrogate: Dibromofluoromethane	100 100	11		"			ii.	
Kylenes (total) 8300 Surrogate: Dibromofluoromethane	100				#1	II .	**	
Surrogate: Dibromofluoromethane		11	"	II .	"	"	**	
	93%		11		0	н	II .	
Surrogate: 12-Dichloroethane-d4	15/0	75-	130	"	"	n	"	
an ogate. 1,2-Diemorbeihane-u-	97 %	60-	150	"	"	"	"	
Surrogate: Toluene-d8	92 %	75-	120	n	"	"	rr rr	
Surrogate: 4-Bromofluorobenzene	88 %	55-	130	"	"	"	"	
MW-4 (MQK0358-02) Water Sampled: 11/09/07 10:10	Received:	11/09/07	16:40					
ert-Amyl methyl ether ND	100	ug/l	200	7K15016	11/15/07	11/16/07	EPA 8260B	
Benzene 3300	100	n	n	81	U	n	II .	
ert-Butyl alcohol 5700	4000	#1	"	н	"	**	н	
Di-isopropyl ether ND	100	"	u	11	II .	11	n	
,2-Dibromoethane (EDB) ND	100	А	11	"	**	11	#	
,2-Dichloroethane ND	100	"	II.	11	11	"	"	
Ethanol ND	60000	n	"	"	11	D .	II.	
thyl tert-butyl ether ND	100	"	n	Ħ		н	H	
Sthylbenzene 3600	100	u	0		n	n	11	
1200 Methyl tert-butyl ether	100	Ð	"	11	#1	11	41	
Coluene 2400	100	"	11	II	tt.	**	"	
(ylenes (total) 13000	100	**	**	"	H	н	II	
urrogate: Dibromofluoromethane	90 %	75-1	30	"	"	"	11	
urrogate: 1,2-Dichloroethane-d4	100 %	60-1	50	"	n	"	"	
urrogate: Toluene-d8	95 %	75-1	20	"	"	"	"	
urrogate: 4-Bromofluorobenzene	92 %	55-1		"	"	"	"	





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0029
Project Manager: Jay Johnson

MQK0358 Reported: 11/27/07 13:39

## Volatile Organic Compounds by EPA Method 8260B TestAmerica - Morgan Hill, CA

ND	Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Benzene	MW-7 (MQK0358-03) Water Sa	mpled: 11/09/07 07:35	Received	: 11/09/07	16:40					
ND	tert-Amyl methyl ether	ND	0.50	ug/l	1	7K15016	11/15/07	11/16/07	EPA 8260B	
Di-isopropyl ether   ND   0.50   "   "   "   "   "   "	Benzene	ND	0.50	#	"	n .	n	**	и	
1,2-Dibromoethane (EDB)	tert-Butyl alcohol	ND	20	Ħ	n	n	u	n	n	
1,2-Dichloroethane	Di-isopropyl ether	ND	0.50	n	н	н	If	D	H	
Ethanol ND 300 " " " " " " " " " " " " Ethyl tert-butyl ether ND 0.50 " " " " " " " " " " " " " " " " " " "	1,2-Dibromoethane (EDB)	ND	0.50	n	0	II.	"	"	u	
Ethyl tert-butyl ether ND 0.50 " " " " " " " " " " " " " " " " " " "	1,2-Dichloroethane	ND	0.50	II	**	11	0	ш	H	
Methyl tert-butyl ether	Ethanol	ND	300	"	"	"	11	"	11	
Methyl tert-butyl ether   71   0.50   " " " " " " " "   "   "   "   "   "	Ethyl tert-butyl ether	ND	0.50	11	"	#1	n	II .	tt	
ND   0.50   "   "   "   "   "   "   "   "   "	Ethylbenzene	ND	0.50	**	U	n	41	"	II	
No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.	Methyl tert-butyl ether	71	0.50	H	#1	II .	"	H	#	
Surrogate: Dibromofluoromethane	Toluene	ND	0.50	"	If	"	н	H	n	
Surrogate: 1,2-Dichloroethane-d8	Xylenes (total)	1.3	0.50	11	н	1)	"	"	u	
Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene 89 % 55-130 " " " " " " " " " " " " " " " " " " "	Surrogate: Dibromofluoromethane		94 %	75-1	30	11	"	"	"	
Surrogate: 4-Bromofluorobenzene	Surrogate: 1,2-Dichloroethane-d4		102 %	60-1	50	"	"	"	"	
MW-10 (MQK0358-04) Water   Sampled: 11/09/07 06:55   Received: 11/09/07 16:40    ert-Amyl methyl ether   ND   10   ug/l   20   7K15016   11/15/07   11/16/07   EPA 8260B    Benzene   ND   10   "   "   "   "   "   "   "   "      ert-Butyl alcohol   ND   400   "   "   "   "   "   "   "   "      Di-isopropyl ether   ND   10   "   "   "   "   "   "   "   "      1,2-Dibromoethane (EDB)   ND   10   "   "   "   "   "   "   "   "      Ethanol   ND   6000   "   "   "   "   "   "   "   "      Ethyl tert-butyl ether   ND   10   "   "   "   "   "   "   "      Ethyl tert-butyl ether   ND   10   "   "   "   "   "   "      Ethyl tert-butyl ether   1600   10   "   "   "   "   "   "   "      Folume (Valenes (total)   13   10   "   "   "   "   "   "   "   "   "	Surrogate: Toluene-d8		92 %	75-1	20	"	"	"	"	
Series	Surrogate: 4-Bromofluorobenzene		89 %	55-1	30	"	"	"	"	
Senzene	MW-10 (MQK0358-04) Water S	ampled: 11/09/07 06:55	Received	i: 11/09/0	7 16:40					
Senzene   ND   10	tert-Amyl methyl ether	ND	10	ug/l	20	7K15016	11/15/07	11/16/07	EPA 8260B	
Di-isopropyl ether ND 10 " " " " " " " " " " " " " " " " " "	Benzene	ND	10		II	n	"	*	II .	
1,2-Dibromoethane (EDB)	tert-Butyl alcohol	ND	400	11	н	41	u u	H	"	
1,2-Dichloroethane	Di-isopropyl ether	ND	10	н	II	U	11	н	U	
Ethanol ND 6000 " " " " " " " " " " " " " " " " "	1,2-Dibromoethane (EDB)	ND	10	"	н	n	*	11	11	
Ethyl tert-butyl ether ND 10 " " " " " " " " " " " " " " " " " "	1,2-Dichloroethane	ND	10	П	H	#	n	11	H	
Sthylbenzene         ND         10         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "	Ethanol	ND	6000	n	11	Ħ	#1	"	. н	
Methyl tert-butyl ether         1600         10         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "<	Ethyl tert-butyl ether	ND	10	(f	"	н	Ħ	It	U	
Foluene         ND         10         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "	Ethylbenzene	ND	10	"	11	n	н	"	п	
Kylenes (total)         13         10         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "         "	Methyl tert-butyl ether	1600	10	n	н	11	u	n	#	
Surrogate: Dibromofluoromethane 91 % 75-130 " " " " " " " " " " " " " " " " " " "	Toluene Toluene	ND	10	11	n	"	11	H	п	
Surrogate: 1,2-Dichloroethane-d4 100 % 60-150 " " " " " " " " " " " " " " " " " " "	Xylenes (total)	13	10	11	"	n	H	11	u	
Surrogate: Toluene-d8 92 % 75-120 " " " "	Surrogate: Dibromofluoromethane		91%	75-1.	30	"	"	"	"	
	Surrogate: 1,2-Dichloroethane-d4		100 %	60-1.	50	"	"	"	"	
'urrogate: 4-Bromofluorobenzene 87 % 55-130 " " " "	Surrogate: Toluene-d8		92 %	75-1.	20	n	"	"	"	
	Surrogate: 4-Bromofluorobenzene		87 %	55-1.	30	"	"	n	"	





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0029 Project Manager: Jay Johnson MQK0358 Reported: 11/27/07 13:39

## Volatile Organic Compounds by EPA Method 8260B TestAmerica - Morgan Hill, CA

Analyte Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
EX-1 (MQK0358-05) Water Sampled: 11/09/07 09	:30 Received:	11/09/07	16:40					
tert-Amyl methyl ether ND	25	ug/l	50	7K16001	11/16/07	11/16/07	EPA 8260B	
Benzene 2700	25	n	tr	"	u	u	11	
tert-Butyl alcohol 1900	1000	**	9	11	11	II .	u	
Di-isopropyl ether ND	25	11	"	**	**	11	п	
1,2-Dibromoethane (EDB) ND	25	п	II .	"	н	**	Ü	
1,2-Dichloroethane ND	25	"	"	11	II .	IT	H	
Ethanol ND	15000	H	11		n n	#1	It	
Ethyl tert-butyl ether ND	25	П	#1	"	n	"	н	
Ethylbenzene 220	25	H	н	0	11	II.		
Methyl tert-butyl ether 370	25	n	H	**	н	H	II .	
Toluene 29	25	11	II	11	n	H	ti .	
Xylenes (total) 200	25	"	"	11	11	11	и	
Surrogate: Dibromofluoromethane	113 %	75-1	130	"	"	"	#	
Surrogate: 1,2-Dichloroethane-d4	109 %	60-1	150	"	"	"	"	
Surrogate: Toluene-d8	104 %	75-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	91 %	55-1	30	"	"	"	"	
EX-2 (MQK0358-06) Water Sampled: 11/09/07 08	:45 Received:	11/09/07 1	6:40					
tert-Amyl methyl ether ND	0.50	ug/l	1	7K15016	11/15/07	11/16/07	EPA 8260B	
Benzene ND	0.50	H	n	11	"	ti .	II .	
tert-Butyl alcohol ND	20	"	11	"	tr	н	ri .	
Di-isopropyl ether ND	0.50	11	н	n	11	11	и	
1,2-Dibromoethane (EDB) ND	0.50	II .	II.	н	н	11	п	
1,2-Dichloroethane ND	0.50	- 11	11	"	n	"	"	
Ethanol ND	300	"	"	11	0	11	H-	
Ethyl tert-butyl ether ND	0.50	11	Ħ	#		и	н	
Ethylbenzene 0.57	0.50	"	**	"	ti .	"	н	
Methyl tert-butyl ether 140	0.50	Ħ	n	II	н	п	II.	
Toluene 0.53	0.50	11	It	*	tt	н	II .	
Xylenes (total) 2.7	0.50	11	11	H.	*1	11	"	
Surrogate: Dibromofluoromethane	94 %	75-1	30	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	101 %	60-1	50	"	"	"	n	
Surrogate: Toluene-d8	92 %	75-1	20	"	"	"	"	





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0029
Project Manager: Jay Johnson

MQK0358 Reported: 11/27/07 13:39

## Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7K15016 - EPA 5030B P/T / I	LUFT GCMS									
Blank (7K15016-BLK1)				Prepared 6	& Analyze	d: 11/15/	07			*********
Gasoline Range Organics (C4-C12)	ND	50	ug/l						***************************************	
Surrogate: 1,2-Dichloroethane-d4	2.42		"	2.50		97	60-150		***************************************	
Surrogate: Dibromofluoromethane	2.28		"	2.50		91	75-130			
Surrogate: Toluene-d8	2.30		"	2.50		92	75-120			
Surrogate: 4-Bromofluorobenzene	2.16		"	2.50		86	55-130			
aboratory Control Sample (7K15016-E	BS2)			Prepared 6	& Analyze	d: 11/15/	07			
Gasoline Range Organics (C4-C12)	484	50	ug/l	500		97	55-130			
Surrogate: 1,2-Dichloroethane-d4	2.43		"	2.50		97	60-150			
Surrogate: Dibromofluoromethane	2.33		"	2.50		93	75-130			
Surrogate: Toluene-d8	2.35		"	2.50		94	75-120			
Surrogate: 4-Bromofluorobenzene	2.37		"	2.50		95	55-130			
Laboratory Control Sample Dup (7K150	016-BSD2)			Prepared &	& Analyze	d: 11/15/0	07			
Gasoline Range Organics (C4-C12)	441	50	ug/l	500	, , , , , , , , , , , , , , , , , , , ,	88	55-130	9	20	
Surrogate: 1,2-Dichloroethane-d4	2.42		"	2.50		97	60-150			
Surrogate: Dibromofluoromethane	2.27		"	2.50		91	75-130			
Surrogate: Toluene-d8	2.30		"	2.50		92	75-120			
Surrogate: 4-Bromofluorobenzene	2.25		"	2.50		90	55-130			
Matrix Spike (7K15016-MS1)	Source: MO	QK0356-01		Prepared &	& Analyze	d: 11/15/0	)7			
Gasoline Range Organics (C4-C12)	652	50	ug/l	550	ND	119	25-150			
Surrogate: 1,2-Dichloroethane-d4	2.36		"	2.50		94	60-150			
Surrogate: Dibromofluoromethane	2.39		"	2.50		96	75-130			
Surrogate: Toluene-d8	2.37		"	2.50		95	75-120			
Eurrogate: 4-Bromofluorobenzene	2.32		"	2.50		93	55-130			
Matrix Spike Dup (7K15016-MSD1)	Source: MC	QK0356-01		Prepared &	t Analyze	d: 11/15/0	)7			
Gasoline Range Organics (C4-C12)	544	50	ug/l	550	ND	99	25-150	18	20	
Surrogate: 1,2-Dichloroethane-d4	2.33		"	2.50		93	60-150			
urrogate: Dibromofluoromethane	2.37		"	2.50		95	75-130			
'urrogate: Toluene-d8	2.33		"	2.50		93	75-120			
urrogate: 4-Bromofluorobenzene	2.34		"	2.50		94	55-130			





Project: BP Heritage #11117,Oakland, CA

Spike

Source

Project Number: G07TK-0029
Project Manager: Jay Johnson

MQK0358 Reported: 11/27/07 13:39

RPD

%REC

## Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7K16001 - EPA 5030B P/T / I	LUFT GCMS									
Blank (7K16001-BLK1)		W		Prepared	& Analyze	d: 11/16/	07			
Gasoline Range Organics (C4-C12)	ND	50	ug/l	***************************************						
Surrogate: 1,2-Dichloroethane-d4	2.78	***************************************	"	2.50		111	60-150			
Surrogate: Dibromofluoromethane	2.61		"	2.50		104	75-130			
Surrogate: Toluene-d8	2.54		"	2.50		102	75-120			
Surrogate: 4-Bromofluorobenzene	2.20		"	2.50		88	55-130			
Laboratory Control Sample (7K16001-F	BS2)			Prepared 6	& Analyze	d: 11/16/	07			
Gasoline Range Organics (C4-C12)	487	50	ug/l	500		97	55-130			
Surrogate: 1,2-Dichloroethane-d4	2.43		"	2.50		97	60-150			
Surrogate: Dibromofluoromethane	2.77		n	2.50		111	75-130			
Surrogate: Toluene-d8	2.70		"	2.50		108	75-120			
Surrogate: 4-Bromofluorobenzene	2.95		"	2.50		118	55-130			
Laboratory Control Sample Dup (7K160	001-BSD2)			Prepared &	& Analyze	d: 11/16/0	07			
Gasoline Range Organics (C4-C12)	487	50	ug/l	500		97	55-130	0.02	20	
Surrogate: 1,2-Dichloroethane-d4	2.74		"	2.50		110	60-150			
Surrogate: Dibromofluoromethane	2.60		н	2.50		104	75-130			
Surrogate: Toluene-d8	2.53		"	2.50		101	75-120			
Surrogate: 4-Bromofluorobenzene	2.72		"	2.50		109	55-130			
Matrix Spike (7K16001-MS1)	Source: M	QK0357-03		Prepared &	& Analyze	d: 11/16/(	)7			
Gasoline Range Organics (C4-C12)	594	50	ug/l	550	ND	108	25-150			
Surrogate: 1,2-Dichloroethane-d4	2.61		"	2.50		104	60-150			
Surrogate: Dibromofluoromethane	2.63		"	2.50		105	75-130			
Surrogate: Toluene-d8	2.50		n	2.50		100	75-120			
Surrogate: 4-Bromofluorobenzene	2.75		n	2.50		110	55-130			
Matrix Spike Dup (7K16001-MSD1)	Source: M	QK0357-03		Prepared &	& Analyze	d: 11/16/0	)7			
Gasoline Range Organics (C4-C12)	611	50	ug/l	550	ND	111	25-150	3	20	
Surrogate: 1,2-Dichloroethane-d4	2.77		"	2.50		111	60-150			
Surrogate: Dibromofluoromethane	2.59		"	2.50		104	75-130			
Surrogate: Toluene-d8	2.67		"	2.50		107	75-120			
Surrogate: 4-Bromofluorobenzene	2.54		"	2.50		102	55-130			





Project: BP Heritage #11117,Oakland, CA

Spike

Source

Project Number: G07TK-0029 Project Manager: Jay Johnson MQK0358 Reported: 11/27/07 13:39

RPD

%REC

## Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7K15016 - EPA 5030B P/T /	EPA 8260B									
Blank (7K15016-BLK1)				Prepared	& Analyze	d: 11/15/	07			
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	п							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	н							
Ethanol	ND	300	11							
Ethyl tert-butyl ether	ND	0.50	n							
Ethylbenzene	ND	0.50	#							
Methyl tert-butyl ether	ND	0.50	n							
Toluene	ND	0.50	11							
Xylenes (total)	ND	0.50								
Surrogate: Dibromofluoromethane	2.28		"	2.50		91	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.42		"	2.50		97	60-150			
Surrogate: Toluene-d8	2.30		"	2.50		92	75-120			
Surrogate: 4-Bromofluorobenzene	2.16		"	2.50		86	55-130			
Laboratory Control Sample (7K15016-	BS1)			Prepared &	& Analyze	d: 11/15/0	)7			
tert-Amyl methyl ether	9.18	0.50	ug/l	10.0		92	75-125			
Benzene	9.31	0.50		10.0		93	75-120			
ert-Butyl alcohol	198	20	"	200		99	80-120			
Di-isopropyl ether	9.45	0.50	er e	10.0		94	70-130			
1,2-Dibromoethane (EDB)	9.60	0.50	н	10.0		96	75-130			
1,2-Dichloroethane	9.45	0.50	0	10.0		94	65-130			
Ethanol	239	300	**	200		119	50-150			
Ethyl tert-butyl ether	9.36	0.50	11	10.0		94	75-130			
Ethylbenzene	9.80	0.50	ě1	10.0		98	80-125			
Methyl tert-butyl ether	9.24	0.50	"	10.0		92	80-130			
Toluene	9.17	0.50	t)	10.0		92	80-120			
Xylenes (total)	28.5	0.50	"	30.0		95	80-125			
Surrogate: Dibromofluoromethane	2.28		"	2.50	** **	91	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.35		"	2.50		94	60-150			
Surrogate: Toluene-d8	2.27		"	2.50		91	75-120			
Surrogate: 4-Bromofluorobenzene	2.23		"	2.50		89	55-130			





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0029 Project Manager: Jay Johnson

MQK0358 Reported: 11/27/07 13:39

## Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7K15016 - EPA 5030B P/T / I	EPA 8260B									
Matrix Spike (7K15016-MS1)	Source: M	IQK0356-01		Prepared	& Analyze	ed: 11/15/	07			
tert-Amyl methyl ether	9,55	0.50	ug/l	10.0	ND	96	75-140			
Benzene	9.50	0.50	n	10.0	ND	95	80-120			
tert-Butyl alcohol	206	20	0	200	2.13	102	80-125			
Di-isopropyl ether	9.69	0.50	"	10.0	ND	97	75-135			
1,2-Dibromoethane (EDB)	10.1	0.50	н	10.0	ND	101	80-135			
1,2-Dichloroethane	12.4	0.50	**	10.0	2.48	99	65-145			
Ethanol	243	300	н	200	ND	121	50-150			
Ethyl tert-butyl ether	9.67	0.50	11	10.0	ND	97	80-135			
Ethylbenzene	9.93	0.50	0	10.0	ND	99	75-130			
Methyl tert-butyl ether	9.81	0.50	**	10.0	0.220	96	75-145			
Toluene	9.42	0.50	n	10.0	ND	94	80-125			
Xylenes (total)	29.7	0.50	#	30.0	0.450	97	75-125			
Surrogate: Dibromofluoromethane	2.39		"	2.50		96	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.36		"	2.50		94	60-150			
Surrogate: Toluene-d8	2.37		"	2.50		95	75-120			
Surrogate: 4-Bromofluorobenzene	2.32		"	2.50		93	55-130			
Matrix Spike Dup (7K15016-MSD1)	Source: M	QK0356-01		Prepared 6	& Analyze	d: 11/15/0	07			
tert-Amyl methyl ether	9.54	0.50	ug/l	10.0	ND	95	75-140	0.1	25	
Benzene	9.42	0.50	**	10.0	ND	94	80-120	0.8	20	
tert-Butyl alcohol	200	20	"	200	2.13	99	80-125	3	25	
Di-isopropyl ether	9.61	0.50	11	10.0	ND	96	75-135	0.8	25	
1,2-Dibromoethane (EDB)	10.0	0.50	**	10.0	ND	100	80-135	0.3	30	
1,2-Dichloroethane	12.4	0.50	n	10.0	2.48	99	65-145	0.08	25	
Ethanol	238	300	"	200	ND	119	50-150	2	25	
Ethyl tert-butyl ether	9.74	0.50	н	10.0	ND	97	80-135	0.7	25	
Ethylbenzene	9.80	0.50	11	10.0	ND	98	75-130	1	20	
Methyl tert-butyl ether	9.88	0.50	н	10.0	0.220	97	75-145	0.7	25	
Гoluene	9.37	0.50	н	10.0	ND	94	80-125	0.5	25	
Xylenes (total)	29.0	0.50	11	30.0	0.450	95	75-125	2	20	
Surrogate: Dibromofluoromethane	2.37		"	2.50		95	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.33		"	2.50		93	60-150			
Surrogate: Toluene-d8	2.33		"	2.50		93	75-120			
Surrogate: 4-Bromofluorobenzene	2.34		"	2.50		94	55-130			





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0029 Project Manager: Jay Johnson

MQK0358 Reported: 11/27/07 13:39

## Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7K16001 - EPA 5030B P/T /	EPA 8260B									
Blank (7K16001-BLK1)				Prepared 6	& Analyze	d: 11/16/	07			- I Trans
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	u							
tert-Butyl alcohol	ND	20	n							
Di-isopropyl ether	ND	0.50	II							
1,2-Dibromoethane (EDB)	ND	0.50	**							
1,2-Dichloroethane	ND	0.50	n							
Ethanol	ND	300	n							
Ethyl tert-butyl ether	ND	0.50	**							
Ethylbenzene	ND	0.50	ri							
Methyl tert-butyl ether	ND	0.50	11							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	U							
Surrogate: Dibromofluoromethane	2.61		"	2.50		104	75-130			***************************************
Surrogate: 1,2-Dichloroethane-d4	2.78		"	2.50		111	60-150			
Surrogate: Toluene-d8	2.54		"	2.50		102	75-120			
Surrogate: 4-Bromofluorobenzene	2.20		"	2.50		88	55-130			
Laboratory Control Sample (7K16001-	BS1)			Prepared &	& Analyze	d: 11/16/0	)7			
tert-Amyl methyl ether	9.92	0.50	ug/l	10.0		99	75-125			***************************************
Benzene	10.1	0.50	#1	10.0		101	75-120			
tert-Butyl alcohol	189	20	" .	200		94	80-120			
Di-isopropyl ether	9.08	0.50	II.	10.0		91	70-130			
1,2-Dibromoethane (EDB)	10.2	0.50	"	10.0		102	75-130			
1,2-Dichloroethane	10.2	0.50	н	10.0		102	65-130			
Ethanol	183	300	"	200		91	50-150			
Ethyl tert-butyl ether	9.88	0.50	0	10.0		99	75-130			
Ethylbenzene	10.6	0.50	н	10.0		106	80-125			
Methyl tert-butyl ether	9.35	0.50	Ħ	10.0		94	80-130			
Foluene	8.96	0.50	**	10.0		90	80-120			
Xylenes (total)	31.2	0.50	Ħ	30.0		104	80-125			
Surrogate: Dibromofluoromethane	2.43		"	2.50		97	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.22		"	2.50		89	60-150			
Surrogate: Toluene-d8	2.64		"	2.50		106	75-120			
Surrogate: 4-Bromofluorobenzene	2.47		"	2.50		99	55-130			





Project: BP Heritage #11117,Oakland, CA

Project Number: G07TK-0029 Project Manager: Jay Johnson

MQK0358 Reported: 11/27/07 13:39

## Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7K16001 - EPA 5030B P/T / F	EPA 8260B									
Matrix Spike (7K16001-MS1)	Source: M	IQK0357-03		Prepared	& Analyze	ed: 11/16/	07			
tert-Amyl methyl ether	10.1	0.50	ug/l	10.0	ND	101	75-140			
Benzene	9.32	0.50	**	10.0	ND	93	80-120			
tert-Butyl alcohol	193	20	н	200	ND	96	80-125			
Di-isopropyl ether	9.75	0.50		10.0	ND	98	75-135			
1,2-Dibromoethane (EDB)	11.2	0.50	n	10.0	ND	112	80-135			
1,2-Dichloroethane	9.92	0.50	п	10.0	ND	99	65-145			
Ethanol	185	300	#	200	ND	92	50-150			
Ethyl tert-butyl ether	10.3	0.50	"	10.0	ND	103	80-135			
Ethylbenzene	11.6	0.50		10.0	ND	116	75-130			
Methyl tert-butyl ether	9.72	0.50	**	10.0	ND	97	75-145			
Toluene	9.25	0.50	"	10.0	ND	92	80-125			BA
Xylenes (total)	31.5	0.50	п	30.0	ND	105	75-125			
Surrogate: Dibromofluoromethane	2.63		"	2.50		105	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.61		"	2.50		104	60-150			
Surrogate: Toluene-d8	2.50		"	2.50		100	75-120			
Surrogate: 4-Bromofluorobenzene	2.75		"	2.50		110	55-130			
Matrix Spike Dup (7K16001-MSD1)	Source: M	QK0357-03		Prepared &	& Analyze	d: 11/16/0	07			
tert-Amyl methyl ether	11.1	0.50	ug/l	10.0	ND	111	75-140	9	25	
Benzene	9.94	0.50	n	10.0	ND	99	80-120	6	20	
tert-Butyl alcohol	186	20		200	ND	93	80-125	3	25	
Di-isopropyl ether	10.8	0.50	- 0	10.0	ND	108	75-135	10	25	
1,2-Dibromoethane (EDB)	11.1	0.50	**	10.0	ND	111	80-135	1	30	
1,2-Dichloroethane	11.2	0.50	11	10.0	ND	112	65-145	12	25	
Ethanol	199	300	n	200	ND	100	50-150	8	25	
Ethyl tert-butyl ether	10.6	0.50	11	10.0	ND	106	80-135	2	25	
Ethylbenzene	10.0	0.50	н	10.0	ND	100	75-130	14	20	
Methyl tert-butyl ether	11.2	0.50	11	10.0	ND	112	75-145	14	25	
Toluene	12.1	0.50	"	10.0	ND	121	80-125	27	25	LM, BA
Xylenes (total)	27.5	0.50	tt	30.0	ND	92	75-125	14	20	,
Surrogate: Dibromofluoromethane	2.59		"	2.50		104	75-130		***************************************	
Surrogate: 1,2-Dichloroethane-d4	2.77		"	2.50		111	60-150			
Surrogate: Toluene-d8	2.67		"	2.50		107	75-120			
Surrogate: 4-Bromofluorobenzene	2.54		"	2.50		102	55-130			



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

Stratus Environmental Inc. [Arco] Project: BP Heritage #11117,Oakland, CA MQK0358
3330 Cameron Park Dr., Suite 550 Project Number: G07TK-0029 Reported:
Cameron Park CA, 95682 Project Manager: Jay Johnson 11/27/07 13:39

#### Notes and Definitions

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

## Atlantic Richfield Company

A BP affiliated company

## **Chain of Custody Record**

Project Name:

ARCO 11117

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda > 11117

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

STD-TAT

On-site Time: 0500 Temp: 605
Off-site Time: 1030 Temp: 70'5
Sky Conditions: CleraMeteorological Events:
Wind Speed: Direction:

	1	BF/AR Facility No.:			111	17	······							Cons	suitan					Stratus Environment:		
Name: TestAmerica	╫┤	BP/AR Facility Add	ess:		7210	Banc	roft,	Oakla	ınd					Add	ress:					on Park Drive, Suit	: 550	
lress: 885 Jarvis Drive	┪	Site Lat/Long																		rk, CA 95682		
gan Hill, CA 95937	╼╢╌┤	California Global ID	No.	:	T061	05100	201													t No.:		
PM: Lisa Race	1	Enfos Project No.:		_		TK-01								Con	sultar					Jay Johns		
Fax: 408-782-8156 408-782-6308 (fax)	╬	Provision or OOC (	rirek	e one	`	P	TOVIS	sion						Tele	Fax		(530	0) 67	76 <u>-60</u>	000 / (530) 676-60	15	
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## TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: AREC. BY (PRINT) P-J- WORKORDER: M&K 0358		DATE REC'D AT LAB: TIME REC'D AT LAB: DATE LOGGED IN:	11/10/0				DRIN	atory Purposes? (ING WATER 'E WATER R
CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE#	CLIENT ID	CONTAINER DESCRIPTION		рН	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
Custody Seal(s) Present / Absent	*					7		
Intact / Broken*								
2. Chain-of-Custody Fresent / Absent*						· ·		/
Traffic Reports or								
Packing List: Present (Absent)					,			
4. Airbill: Airbill / Sticker							-	
Present / Absent								
5. Airbill #:								, <del></del>
6. Sample Labels: Present / Absent							/ "	
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8. Sample Condition: Intact/ Broken* /			الآمن					
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agree? (Yes)/ No*			1					
10. Sample received within								
hold time? (Yes)/ No*								****
11. Adequate sample volume						~	······································	
received? Yes! No*							**************************************	***
12. Proper preservatives used? (Yes / No*								
13. Trip Blank / Temp Blank Received?	-3.0							
(circle which, if yes) Yes / No*								
14. Read Temp: 3.0		/ .						***************************************
Correction Factor:( . o ·								
Corrected Temp: 2.01					1			
Is corrected temp. 0-6°C? (res) No**		<i>y</i> *	·					
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SAMPLERECEIPTLOG Revision 9 (10/26/07) "IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

## APPENDIX C

GeoTracker Upload Confirmation Reports

Main Menu | View/Add Facilities | Upload EDD | Check EDD

## UPLOADING A GEO\_MAP FILE

## YOUR IMAGE UPLOAD WAS SUCCESSFUL!

Facility Name:

BP #11117

Global ID:

T0600100201

Submittal Type:

GEO\_MAP

Submittal Date/Time:

1/25/2008 4:07:04 PM

Confirmation Number: 9705808877

Click here to view the image.

Back to Main Menu

Logged in as BROADBENT-C (CONTRACTOR)

Main Menu | View/Add Facilities | Upload EDD | Check EDD

## UPLOADING A GEO\_BORE FILE

#### YOUR IMAGE UPLOAD WAS SUCCESSFUL!

Facility Name:

BP #11117

Global ID:

T0600100201

Field Pt Name:

MW-11

Submittal Type:

GEO\_BORE

Submittal Date/Time:

1/25/2008 4:08:08 PM

Confirmation Number: 9975468516

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Facility Name:

BP #11117

Global ID:

T0600100201

Field Pt Name:

DPE-1

Submittal Type:

GEO\_BORE

Submittal Date/Time:

1/25/2008 4:09:39 PM

Confirmation Number:

8977374017

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#### UPLOADING A GEO\_BORE FILE

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Facility Name:

BP #11117

Global ID:

T0600100201

Field Pt Name:

DPE-2

Submittal Type:

GEO\_BORE

Submittal Date/Time:

1/25/2008 4:10:14 PM

Confirmation Number:

5389912486

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## UPLOADING A GEO\_BORE FILE

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Facility Name:

BP #11117

Global ID:

T0600100201

Field Pt Name:

DPE-3

Submittal Type:

GEO\_BORE

Submittal Date/Time:

1/25/2008 4:10:37 PM

Confirmation Number: 7960753500

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## UPLOADING A GEO\_BORE FILE

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Facility Name:

BP #11117

Global ID:

T0600100201

Field Pt Name:

DPE-4

Submittal Type:

GEO\_BORE

Submittal Date/Time:

1/25/2008 4:11:00 PM

Confirmation Number: 9890049815

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Facility Name:

BP #11117

Global ID:

T0600100201

Field Pt Name:

DPE-5

Submittal Type:

GEO\_BORE

Submittal Date/Time:

1/25/2008 4:11:34 PM

Confirmation Number: 6870745599

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#### **UPLOADING A GEO\_XY FILE**

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Submittal Title:GEO\_XY 11117Facility Global ID:T0600100201Facility Name:BP #11117

**Submittal Date/Time:** 12/21/2007 4:30:35 PM

Confirmation Number: 3417605340

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#### **UPLOADING A GEO\_Z FILE**

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Submittal Title:GEO\_Z 11117Facility Global ID:T0600100201Facility Name:BP #11117

Submittal Date/Time: 12/21/2007 4:22:33 PM

**Confirmation Number: 7188662469** 

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**Confirmation Number:** 3446079134

**Date/Time of Submittal:** 2/4/2008 11:24:04 AM

Facility Global ID: T0600100201
Facility Name: BP #11117
Submittal Title: DPE Soil 1107

Submittal Type: Miscellaneous Sample Results

#### Click <u>here</u> to view the detections report for this upload.

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<b>BP #11117</b> 7210 BANCROFT OAKLAND, CA 94605	Regional Board - Case #: 01-0215 SAN FRANCISCO BAY RWQCB (REGION 2 Local Agency (lead agency) - Case #: RO0000 ALAMEDA COUNTY LOP - (SP)	
CONF # 3446079134 SUBMITTED BY Broadbent & Associates, In	TITLE         QUARTER           DPE Soil 1107         Q4 2007           SUBMIT DATE         STATUS           C.         2/4/2008           PENDING REVIE	W
# FIELD POINTS SAMPLED # FIELD POINTS WITH DETECT # FIELD POINTS WITH WATER SAMPLE MATRIX TYPES  METHOD QA/QC REPO METHODS USED TESTED FOR REQUIRED ANALY LAB NOTE DATA QUALIFIERS	TIONS SAMPLE DETECTIONS ABOVE MCL  ORT  8260TPH,A2540G,SW8	2 2 0 SOIL 3260B Y
LAB BLANK DETECTIONS	OLATIONS	21 21 0 0 Y Y Y Y
MATRIX SPIKE / MATRIX SPIKE SURROGATE SPIKES % RECOV	DUPLICATE(S) % RECOVERY BETWEEN 65-135% DUPLICATE(S) RPD LESS THAN 30%	n/a n/a n/a n/a

SOIL SAMPLES FOR	8021/8260 SERIES		
MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) % RECOV	ERY BETWEEN 65-135%	N
MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) RPD LESS	THAN 30%	Υ
SURROGATE SPIKES % RI	ECOVERY BETWEEN 70-125%		Υ
BLANK SPIKE / BLANK SP	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
, -	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
BLANK SPIKE / BLANK SP. FIELD QC SAMPLES	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
, -	IKE DUPLICATES % RECOVERY  COLLECTED	DETECTIONS >	
FIELD QC SAMPLES			
FIELD QC SAMPLES SAMPLE	COLLECTED		

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**Confirmation Number:** 8007539808

**Date/Time of Submittal:** 2/4/2008 11:24:22 AM

Facility Global ID: T0600100201
Facility Name: BP #11117
Submittal Title: DPE Soil 1107 2

Submittal Type: Miscellaneous Sample Results

#### Click <u>here</u> to view the detections report for this upload.

7210 BANCROFT SAME OAKLAND, CA 94605	Regional Board - Case #: 01-0215 SAN FRANCISCO BAY RWQCB (REGION 2 Local Agency (lead agency) - Case #: RO0000 ALAMEDA COUNTY LOP - (SP)	
	TLE QUARTER PE Soil 1107 2 Q4 2007  SUBMIT DATE STATUS 2/4/2008 PENDING REVIEN	N
# FIELD POINTS SAMPLED # FIELD POINTS WITH DETECTION # FIELD POINTS WITH WATER S SAMPLE MATRIX TYPES  METHOD QA/QC REPO	ONS AMPLE DETECTIONS ABOVE MCL	4 4 0 SOIL
METHODS USED TESTED FOR REQUIRED ANALYTI LAB NOTE DATA QUALIFIERS	8260TPH,A2540G,SW8	260B Y Y
QA/QC FOR 8021/826 TECHNICAL HOLDING TIME VIOL METHOD HOLDING TIME VIOLAT LAB BLANK DETECTIONS ABOVE LAB BLANK DETECTIONS DO ALL BATCHES WITH THE 802 - LAB METHOD BLANK - MATRIX SPIKE - MATRIX SPIKE - BLANK SPIKE - SURROGATE SPIKE	ATIONS TONS	0 0 0 0 7 Y Y Y
MATRIX SPIKE / MATRIX SPIKE I SURROGATE SPIKES % RECOVER	DUPLICATE(S) % RECOVERY BETWEEN 65-135% DUPLICATE(S) RPD LESS THAN 30%	n/a n/a n/a n/a

SOIL SAMPLES FOR	8021/8260 SERIES		
MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) % RECOV	ERY BETWEEN 65-135%	N
MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) RPD LESS	THAN 30%	Υ
SURROGATE SPIKES % RI	ECOVERY BETWEEN 70-125%		Υ
BLANK SPIKE / BLANK SP	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
, -	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
BLANK SPIKE / BLANK SP. FIELD QC SAMPLES	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
, -	IKE DUPLICATES % RECOVERY  COLLECTED	DETECTIONS >	
FIELD QC SAMPLES			
FIELD QC SAMPLES SAMPLE	COLLECTED		

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Confirmation Number: 7342505931

**Date/Time of Submittal:** 2/4/2008 11:24:59 AM

Facility Global ID: T0600100201
Facility Name: BP #11117
Submittal Title: DPE Soil 1107 3

**Submittal Type:** Other/Miscellaneous Report

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BP #11117
7210 BANCROFT
OAKLAND, CA 94605

CONF #

Regional Board - Case #: 01-0215
SAN FRANCISCO BAY RWQCB (REGION 2)
Local Agency (lead agency) - Case #: RO0000356
ALAMEDA COUNTY LOP - (SP)

QUARTER

7342505931 DPE Soil 1107 3 Q4 2007

SUBMITTED BYSUBMIT DATESTATUSBroadbent & Associates, Inc.2/4/2008PENDING REVIEW

#### **SAMPLE DETECTIONS REPORT**

# FIELD POINTS SAMPLED	4
# FIELD POINTS WITH DETECTIONS	4
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	2
SAMPLE MATRIX TYPES	SOIL

#### **METHOD QA/QC REPORT**

METHODS USED	8260FA,8260TPH,A2540G,SW8260B
TESTED FOR REQUIRED ANALYTES?	Υ
LAB NOTE DATA QUALIFIERS	Υ

#### 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	Υ	
- MATRIX SPIKE	N	
- MATRIX SPIKE DUPLICATE	N	
- BLANK SPIKE	Υ	
- SURROGATE SPIKE	Υ	

#### WATER 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 85-115%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

	R 8021/8260 SERIES		
MATRIX SPIKE / MATRIX	IX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%		N
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%		n/a	
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%		Υ	
DI ANII/ CDTI/E / DI ANII/ C	DTI/E DUIDI TOATES S/ DESS/ED/		
<u>,                                      </u>	PIKE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
FIELD QC SAMPLES  SAMPLE		DETECTIONS >	, -
FIELD QC SAMPLES	 <u>3</u>		, -
FIELD QC SAMPLES SAMPLE	S COLLECTED		, -

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Confirmation Number: 7403063774

**Date/Time of Submittal:** 2/4/2008 10:06:18 AM

**Facility Global ID:** T0600100201 **Facility Name:** BP #11117

**Submittal Title:** Soil Waste Composite 1107 **Submittal Type:** Miscellaneous Sample Results

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**BP #11117 Regional Board - Case #: 01-0215** 

7210 BANCROFT SAN FRANCISCO BAY RWQCB (REGION 2)
OAKLAND, CA 94605 Local Agency (lead agency) - Case #: RO0000356

ALAMEDA COUNTY LOP - (SP)

 CONF #
 TITLE
 QUARTER

 7403063774
 Soil Waste Composite 1107
 Q4 2007

SUBMITTED BY SUBMIT DATE STATUS

Broadbent & Associates, Inc. 2/4/2008 PENDING REVIEW

#### SAMPLE DETECTIONS REPORT

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

#### **METHOD QA/QC REPORT**

METHODS USED 8260FA,8260TPH,A2540G,SW6010B
TESTED FOR REQUIRED ANALYTES? N
MISSING PARAMETERS NOT TESTED:

- 8260FA REQUIRES ETBE TO BE TESTED
- 8260FA REQUIRES TAME TO BE TESTED
- 8260FA REQUIRES DIPE TO BE TESTED
- 8260FA REQUIRES TBA TO BE TESTED
- 8260FA REQUIRES ETHANOL TO BE TESTED

LAB NOTE DATA QUALIFIERS

N

#### 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 Υ - MATRIX SPIKE N - MATRIX SPIKE DUPLICATE N - BLANK SPIKE Υ - SURROGATE SPIKE

#### WATER SAMPLES FOR 8021/8260 SERIES

•	SPIKE DUPLICATE(S) % RECOVE		n/a
MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) RPD LESS	THAN 30%	n/a
SURROGATE SPIKES % RE	COVERY BETWEEN 85-115%		n/a
BLANK SPIKE / BLANK SPI	KE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
SOIL SAMPLES FOR	8021/8260 SERIES		
MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) % RECOVE	ERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) RPD LESS	THAN 30%	n/a
SURROGATE SPIKES % RE	COVERY BETWEEN 70-125%		Υ
BLANK SPIKE / BLANK SPI	KE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
FIELD QC SAMPLES			
CAMPLE	COLLECTED	DETECTIONS >	REPDL
<u>SAMPLE</u>			
SAMPLE QCTB SAMPLES	N	0	
	N N	0 0	

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**Confirmation Number:** 3676156342

**Date/Time of Submittal:** 2/4/2008 12:37:39 PM

Facility Global ID: T0600100201 Facility Name: BP #11117

**Submittal Title:** 4Q07 Post-Development GW Samples

**Submittal Type:** GW Monitoring Report

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**BP #11117** Regional Board - Case #: 01-0215 7210 BANCROFT SAN FRANCISCO BAY RWQCB (REGION 2) OAKLAND, CA 94605 Local Agency (lead agency) - Case #: RO0000356 ALAMEDA COUNTY LOP - (SP) CONF# QUARTER 4Q07 Post-Development GW Samples 3676156342 Q4 2007 SUBMITTED BY **SUBMIT DATE STATUS** PENDING REVIEW Broadbent & Associates, Inc. 2/4/2008 SAMPLE DETECTIONS REPORT # FIELD POINTS SAMPLED 6 # FIELD POINTS WITH DETECTIONS 6 # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL SAMPLE MATRIX TYPES WATER METHOD QA/QC REPORT METHODS USED 8260FA,8260TPH TESTED FOR REQUIRED ANALYTES? LAB NOTE DATA QUALIFIERS Υ 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 Υ - MATRIX SPIKE Υ - MATRIX SPIKE DUPLICATE Υ - BLANK SPIKE Υ - SURROGATE SPIKE

#### WATER SAMPLES FOR 8021/8260 SERIES

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

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%

Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%

N
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> COLLECTED <u>DETECTIONS > REPDL</u> QCTB SAMPLES Ν 0 QCEB SAMPLES Ν 0 QCAB SAMPLES Ν 0

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Submittal Title: 4Q07 GEO\_WELL 11117

Facility Global ID: T0600100201
Facility Name: BP #11117

Submittal Date/Time: 1/29/2008 4:30:56 PM

Confirmation Number: 7941404581

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Confirmation Number: 7101392507

**Date/Time of Submittal:** 12/12/2007 2:26:05 PM

Facility Global ID: T0600100201 Facility Name: BP #11117

**Submittal Title:** 4Q07 GW Monitoring **Submittal Type:** GW Monitoring Report

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**BP #11117** Regional Board - Case #: 01-0215 7210 BANCROFT SAN FRANCISCO BAY RWQCB (REGION 2) OAKLAND, CA 94605 Local Agency (lead agency) - Case #: RO0000356 ALAMEDA COUNTY LOP - (SP)

CONF# TITLE QUARTER 4Q07 GW Monitoring 7101392507 Q4 2007

SUBMITTED BY **SUBMIT DATE STATUS** 

PENDING REVIEW Broadbent & Associates, Inc. 12/12/2007

#### SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED 6 # FIELD POINTS WITH DETECTIONS 6 # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL SAMPLE MATRIX TYPES WATER

#### METHOD QA/QC REPORT

METHODS USED 8260FA,8260TPH TESTED FOR REQUIRED ANALYTES? LAB NOTE DATA QUALIFIERS Υ

#### QA/QC FOR 8021/8260 SERIES SAMPLES TECHNICAL HOLDING TIME VIOLATIONS

METHOD HOLDING TIME VIOLATIONS 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 Υ - MATRIX SPIKE Υ - MATRIX SPIKE DUPLICATE Υ - BLANK SPIKE Υ - SURROGATE SPIKE

0

0

#### WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% Υ MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% Υ SURROGATE SPIKES % RECOVERY BETWEEN 85-115% Ν BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%

#### 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> COLLECTED <u>DETECTIONS > REPDL</u> QCTB SAMPLES Ν 0 QCEB SAMPLES Ν 0 QCAB SAMPLES Ν 0

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