



Atlantic Richfield Company  
(a BP affiliated company)

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30 January 2008

Re: 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

**RECEIVED**

2:19 pm, Feb 01, 2008

Alameda County  
Environmental Health



**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:**



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30 January 2008

Project No. 06-08-649

30 January 2008

Project No. 06-08-649

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

Attn.: Mr. Paul Supple

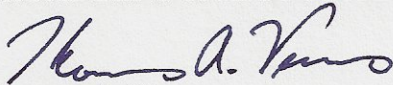
Re: Soil & Ground-Water Investigation and Fourth Quarter 2007 Ground-Water Monitoring Report, Former BP Station #11117, 7210 Bancroft Avenue, Oakland, California; ACEH Case # RO0000356

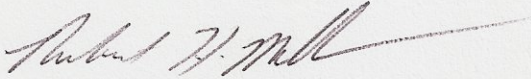
Dear Mr. Supple:

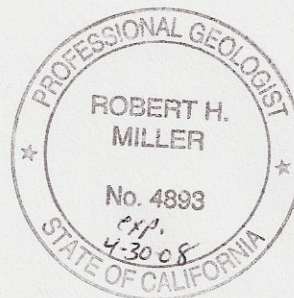
Broadbent & Associates, Inc. (BAI) is pleased to submit this *Soil & Ground-Water Investigation and Fourth Quarter 2007 Ground-Water Monitoring Report* for Former BP Station #11117 (herein referred to as Station #11117) located at 7210 Bancroft Avenue, Oakland California (Site). This report presents 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 ground-water monitoring and sampling conducted during the Fourth Quarter of 2007.

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.

  
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

**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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ATTACHMENTS

Drawing 1	Site Location Map, Former Station #11117, 7210 Bancroft Avenue, Oakland, California
Drawing 2	Site Map with Monitor Well Locations, Former Station #11117, 7210 Bancroft Avenue, Oakland, California
Drawing 3	Ground-Water Elevation Contours and Analytical Summary Map, 9 November 2007, Former Station #11117, 7210 Bancroft Avenue, Oakland, California
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Drawing 6	MTBE Iso-Concentration Contours Map, 9 November 2007, Former Station #11117, 7210 Bancroft Avenue, Oakland, California
Table 1	Summary of Ground-Water Monitoring Data: Relative Water Level Elevations and Laboratory Analyses, Station #11117, 7210 Bancroft Avenue, Oakland, CA
Table 2	Summary of Fuel Additives Analytical Data, Station #11117, 7210 Bancroft Avenue, Oakland, CA
Table 3	Historical Ground-Water Flow Direction and Gradient Data, Station #11117, 7210 Bancroft Avenue, Oakland, CA



## APPENDICES

- Appendix A Stratus Well Installation Data Package (Includes Field Data Sheets, Laboratory Analytical Reports with Chain-of-Custody Documentation, Lithologic Boring Logs, Well Construction Logs, Surveying Data, and Well Development Data)
- 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

**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.

## **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 remediation and 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). 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, Ethylbenzene, 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 chain-of-custody documentation, is provided in Appendix A. Soil laboratory analytical results are also summarized in tabular format below.

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

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, 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 on 3 December 2007. Unfortunately, well MW-6 was not 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 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. An additional 625 gallons of ground-water was generated during development of the six new wells on 11 December 2007. The latter 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. 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 non-hazardous 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
Environmental Business Manager:		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. DPE remediation system components purchased by Stratus. Delivery of system components being scheduled.
7. Authority to Construct application for treated air discharge in preparation for submittal to Bay Area Air Quality Management District. Work being performed by Stratus.
8. Application for treated water discharge in preparation for submittal to East Bay Municipal Utility District. Work being performed by Stratus.
9. 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:	<b>Ground-Water Monitoring/Sampling/Construction of DPE Remediation System</b>
Frequency of ground-water monitoring:	<b>Quarterly: MW-1, MW-2, MW-3, MW-4, MW-6, MW-7, MW-8, MW-9, MW-10, EX-1, EX-2</b>
Frequency of ground-water sampling:	<b>Quarterly: EX-1, EX-2, MW-2, MW-4, MW-7, MW-10 Semi-annually (1Q and 3Q): MW-9 Annually (1Q): MW-1, MW-3, MW-6, MW-8</b>
Is free product (FP) present on-site:	<b>No</b>
FP recovered this quarter:	<b>None</b>
Current remediation techniques:	<b>Construction of Dual Phase Extraction System in progress</b>
Depth to ground water (below TOC):	<b>20.00 (MW-1) to 23.28 (MW-7)</b>
General ground-water flow direction:	<b>North</b>
Approximate hydraulic gradient:	<b>0.02 ft/ft</b>

### 3.5 Discussion

Fourth quarter 2007 ground-water monitoring and sampling was conducted at Station #11117 on 9 November 2007 by Stratus Environmental, Inc. (Stratus). This regularly-scheduled monitoring event was prior to construction of new monitoring well MW-11, or the five new DPE wells DPE-1 through DPE-5. Water levels were gauged in the existing 11 wells at the Site. A sheen was observed in well MW-4. No other irregularities were noted during water level gauging. Depth-to-water measurements ranged from 20.00 ft at MW-1 to 23.28 ft at MW-7. Resulting ground-water surface elevations ranged from 17.92 ft above mean sea level in well MW-10 to 15.71 ft at well MW-7. Water level elevations were between historic minimum and maximum ranges for each well, as summarized in Table 1, with the following exceptions: MW-4, MW-7, MW-8, and MW-9 each recorded historic minimum ground-water elevations. These minimums are partly due to the significant difference between the recent survey data and the previous survey data. Water level elevations yielded a potentiometric ground-water flow direction and gradient to the north at approximately 0.02 ft/ft, generally consistent with historical data (see Table 3). Ground-water monitoring field data sheets are provided within 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 3.

Consistent with the current ground-water monitoring sampling schedule, water samples were collected from wells MW-2, MW-4, MW-7, MW-10, EX-1 and EX-2. Well EX-1 ran dry prior to the purge of three wetted casing volumes. No other 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 B.

Concentrations of GRO were detected above the laboratory reporting limit in each of the six wells sampled at concentrations up to 110,000 micrograms per liter ( $\mu\text{g/L}$ ) in well MW-4. Benzene was detected above the laboratory reporting limit in three of the six wells sampled at concentrations up to 6,300  $\mu\text{g/L}$  in well MW-2. Toluene was detected above the laboratory reporting limit in four of the six wells sampled at concentrations up to 3,300  $\mu\text{g/L}$  in well MW-4. Ethylbenzene was detected above the laboratory reporting limit in four of the six wells sampled at concentrations up to 3,600  $\mu\text{g/L}$  in well MW-4. Total Xylenes were detected above the laboratory reporting limit in each of the six wells sampled at concentrations up to 13,000  $\mu\text{g/L}$  in well MW-4. TBA was detected above the laboratory reporting limit in two of the six wells sampled at concentrations up to 5,700  $\mu\text{g/L}$  in well MW-4. MTBE was detected above the laboratory reporting limit in each of the six wells sampled at concentrations up to 9,500  $\mu\text{g/L}$  in well MW-2. The remaining fuel additives and oxygenates were not detected above their laboratory reporting limits in the six wells sampled this quarter.

Detected analyte concentrations were within the historic minimum and maximum ranges recorded for each well with the following exceptions: The detected MTBE concentration in the sample collected from well EX-1 reached a historic minimum value of 370  $\mu\text{g/L}$  and the detected

MTBE concentration in the sample collected from well EX-2 reached a historic maximum value of 140 µg/L. Historic laboratory analytical results are summarized in Table 1 and Table 2. A copy of the Laboratory Analytical Report, including chain-of-custody documentation is provided in Appendix B. The most recent GRO, Benzene, and MTBE concentrations are also presented in Drawing 3. Drawing 4 presents a map showing approximate GRO iso-concentration contours. Drawing 5 presents a map showing approximate Benzene iso-concentration contours. Drawing 6 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 B.

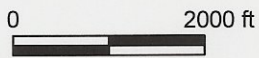
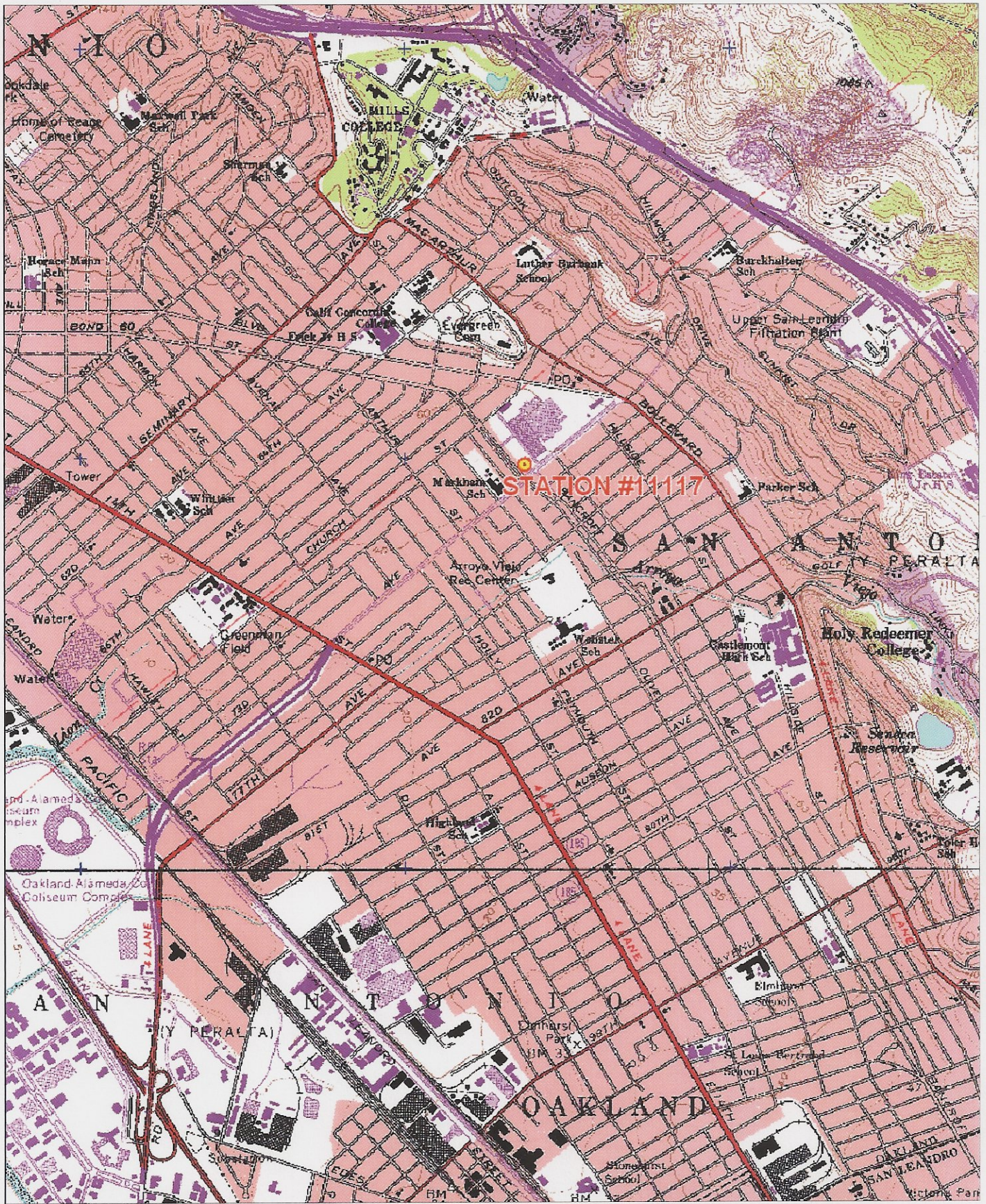
#### **4.0 CONCLUSIONS AND RECOMMENDATIONS**

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 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.





**BROADBENT & ASSOCIATES, INC.**

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL  
1324 Mangrove Ave. Suite 212, Chico, California 95926

Project No.: 06-08-649 Date: 1/14/08

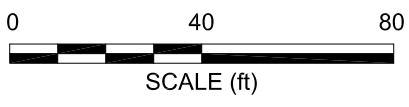
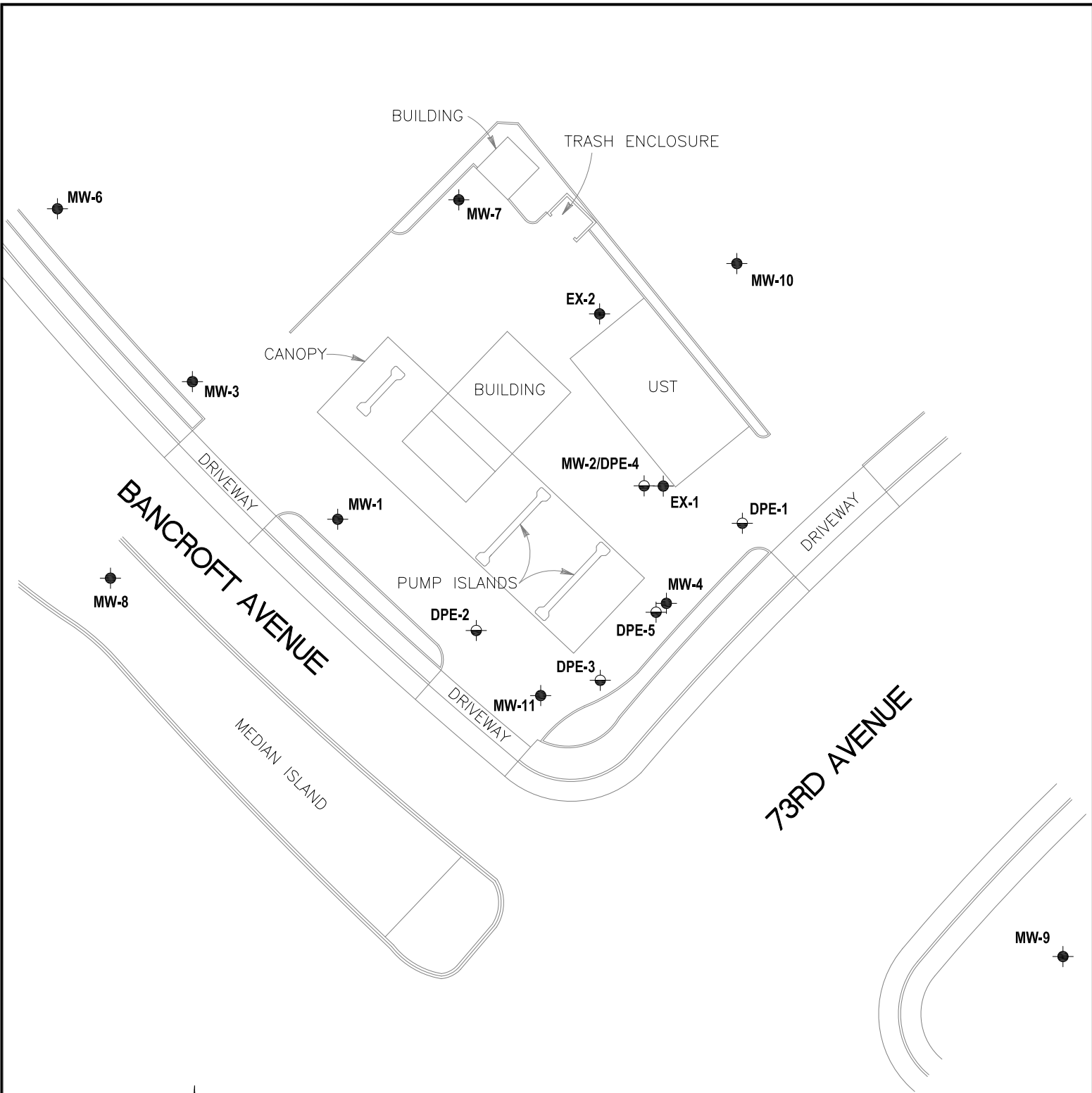
Station #11117  
7210 Bancroft Avenue  
Oakland, California

Site Location Map

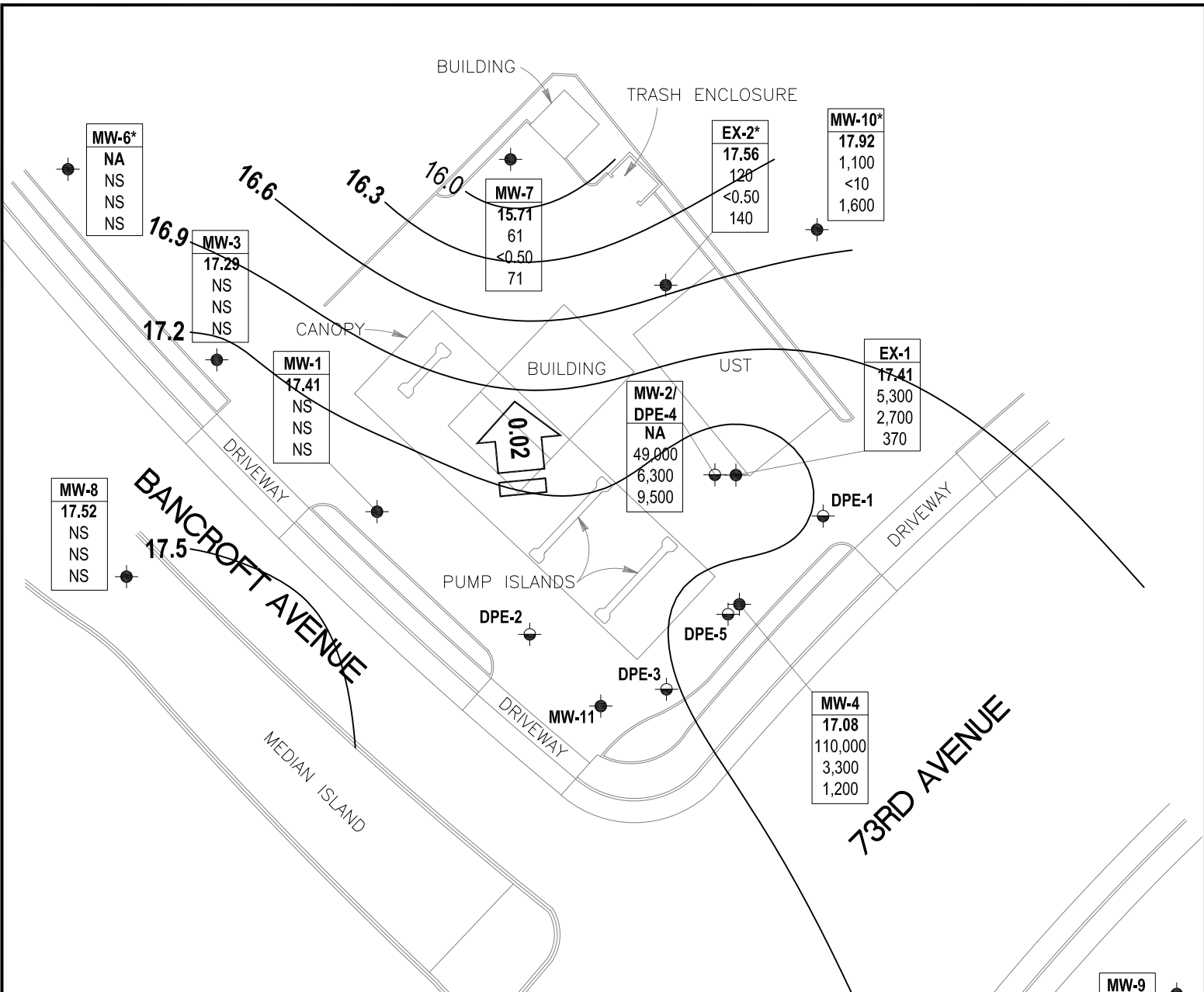
Figure

1



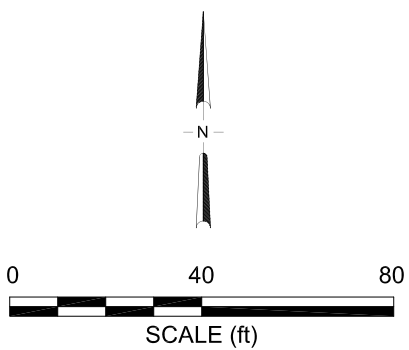


<b>LEGEND</b>	
	Monitoring well location
	DPE well location

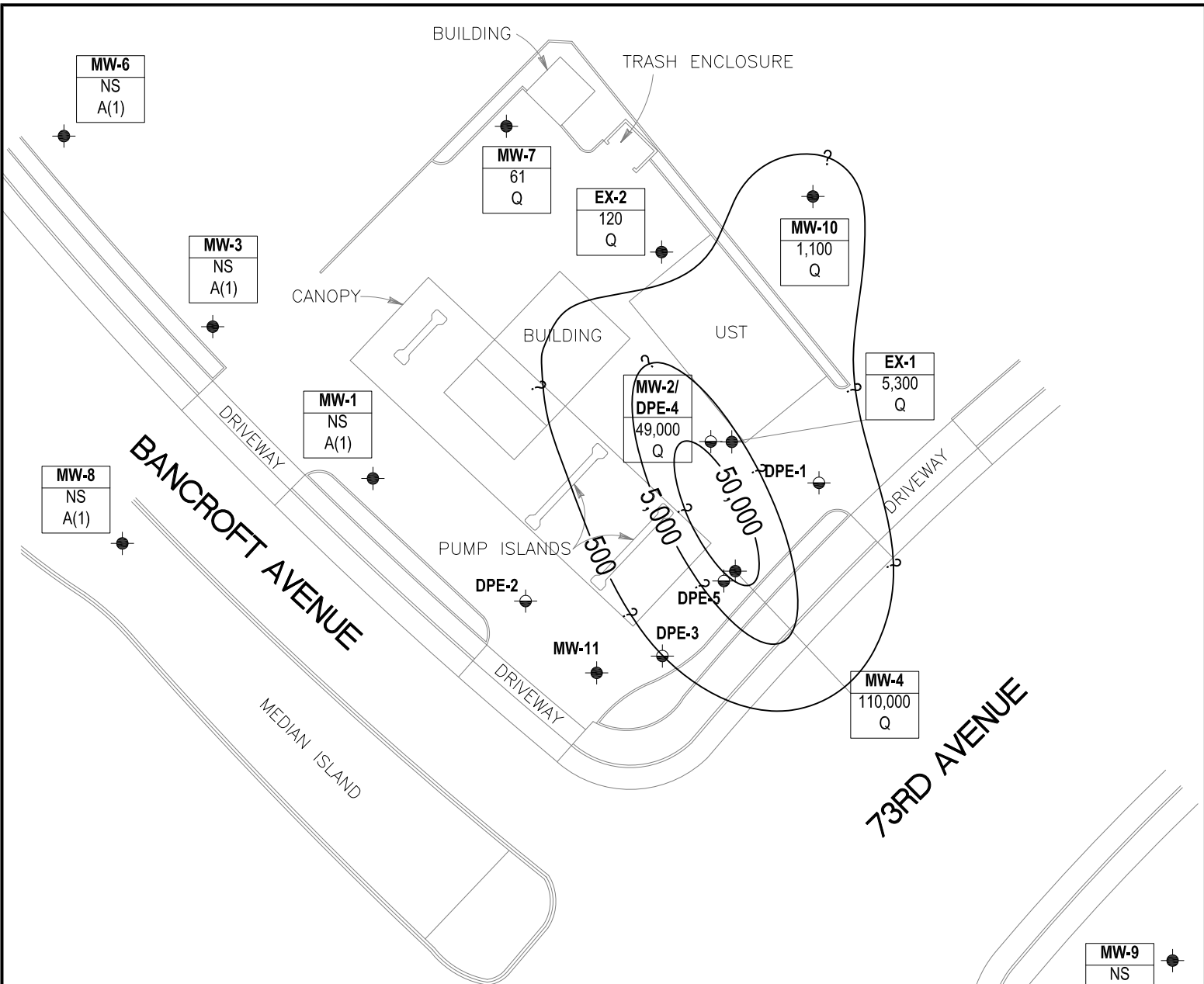


**LEGEND**

- Monitoring well location
- DPE well location
- Well** Well designation
- ELEV** Ground-water elevation (ft/MSL)
- GRO** GRO, Benzene and MTBE concentrations in micrograms per liter (µg/L)
- Benzene**
- MTBE**
- Ground-water flow gradient and direction (ft/ft)
- 0.02**
- 16.0** Ground-water elevation contour (ft/MSL)
- <** Not detected at or above laboratory reporting limit
- NM** Not measured
- NS** Not sampled
- NA** Not available, well elevation not surveyed
- \*** Elevation not used for contours



<b>MW-9</b>
17.01
NS
NS
NS

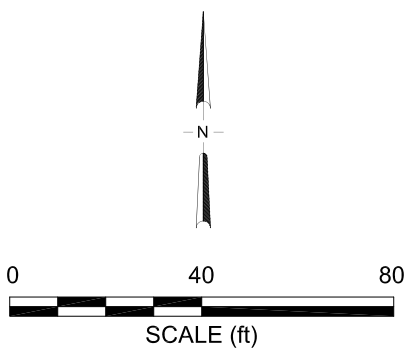


**LEGEND**

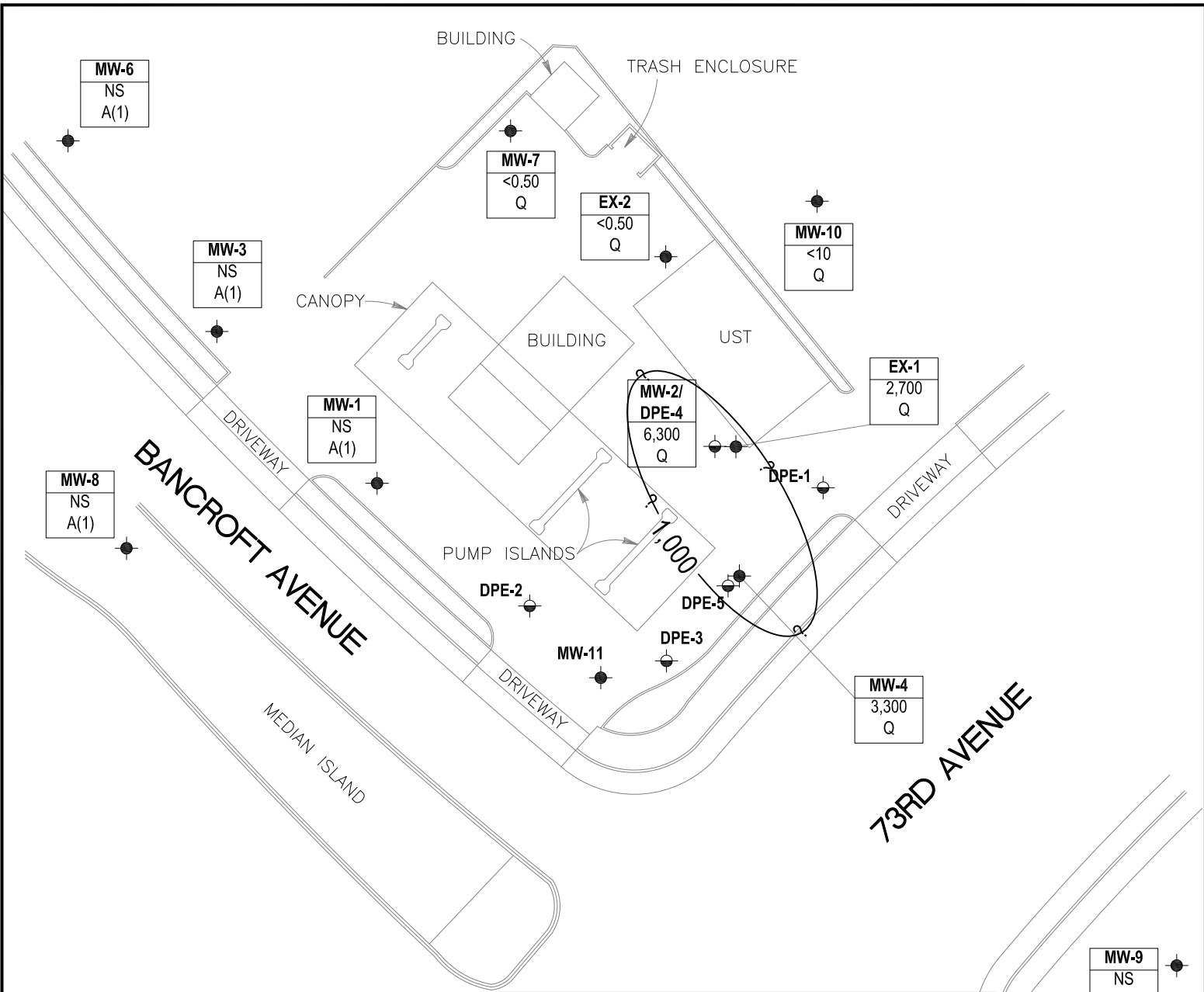
- Monitoring well location
- DPE well location

Well	Well designation
GRO	GRO concentrations in micrograms per liter (µg/L)
A/Q/SA	Sampling frequency

- 5,000 ~ Approximate GRO iso-concentration contour in micrograms per liter (µg/L). Contour interval = logarithmic.
- Q Sampled quarterly
- SA(1,3) Sampled semi-annually, 1st and 3rd quarter
- A(1) Sampled annually, 1st quarter
- < Not detected at or above laboratory reporting limit
- NS Not sampled
- ? Contours within regions not bounded by monitoring points. All contours depicted are approximate.





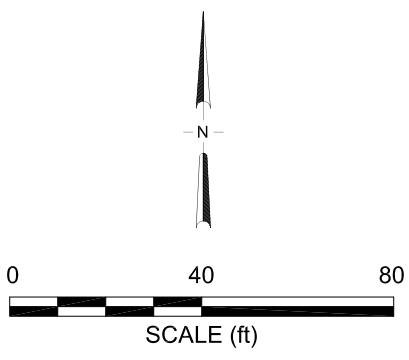


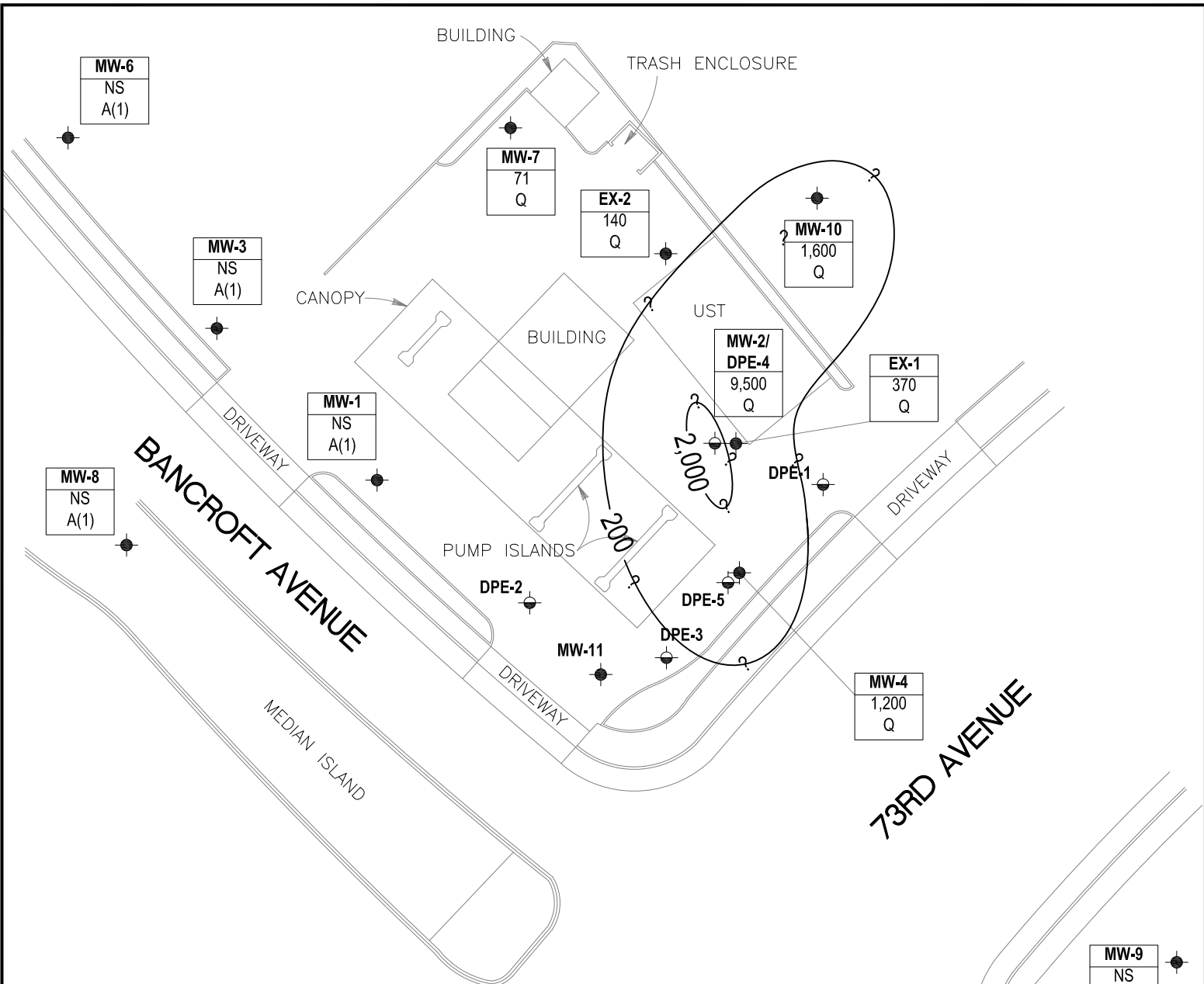
**LEGEND**

- Monitoring well location
- DPE well location

<b>Well</b>	Well designation
<b>Benzene</b>	Benzene concentrations in micrograms per liter (µg/L)
<b>A/Q/SA</b>	Sampling frequency

- 1,000- Approximate Benzene iso-concentration contour in micrograms per liter (µg/L). Contour interval = logarithmic.
- Q Sampled quarterly
- SA(1,3) Sampled semi-annually, 1st and 3rd quarter
- A(1) Sampled annually, 1st quarter
- < Not detected at or above laboratory reporting limit
- NS Not sampled
- ? Contours within regions not bounded by monitoring points. All contours depicted are approximate.



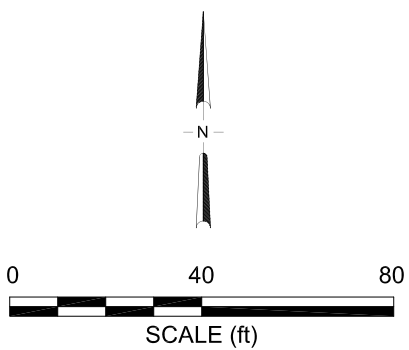


**LEGEND**

- Monitoring well location
- DPE well location

Well	Well designation
MTBE	MTBE concentrations in micrograms per liter (µg/L)
A/Q/SA	Sampling frequency

- 2,000- Approximate MTBE iso-concentration contour in micrograms per liter (µg/L). Contour interval = logarithmic.
- Q Sampled quarterly
- SA(1,3) Sampled semi-annually, 1st and 3rd quarter
- A(1) Sampled annually, 1st quarter
- < Not detected at or above laboratory reporting limit
- NS Not sampled
- ? Contours within regions not bounded by monitoring points. All contours depicted are approximate.



**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>EX-1</b>															
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	
<b>11/9/2007</b>	<b>P</b>	<b>38.98</b>	<b>21.57</b>	<b>--</b>	<b>17.41</b>	<b>5,300</b>	<b>2,700</b>	<b>29</b>	<b>220</b>	<b>200</b>	<b>370</b>	<b>1.50</b>	<b>TAMC</b>	<b>7.12</b>	<b>z</b>
<b>EX-2</b>															
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	

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Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>EX-2 Cont.</b>															
11/9/2007	P	39.63	22.07	--	17.56	120	<0.50	0.53	0.57	2.7	140	4.01	TAMC	7.37	z
<b>MW-1</b>															
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	--	49.80	30.53	--	19.27	40,000	3,400	3,000	1,300	3,400	--	--	ANA	--	c
9/15/1992	--	--	--	--	--	36,000	3,800	3,400	1,400	3,800	--	--	ANA	--	d
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	--	l
3/15/1993	--	--	--	--	--	15,000	1,100	860	440	1,400	--	--	PACE	--	d, l
6/7/1993	--	--	--	--	--	720	0.7	0.7	<0.5	<0.5	--	--	PACE	--	d, l
6/7/1993	--	49.80	25.01	--	24.79	750	0.8	0.8	<0.5	<0.5	--	--	PACE	--	l
9/23/1993	--	49.80	28.70	--	21.10	40,000	4,000	500	920	3,000	6,619	--	PACE	--	e, l
12/27/1993	--	49.80	28.66	--	21.14	27,000	2,000	400	940	2,600	13,558	--	PACE	--	e, l
12/27/1993	--	--	--	--	--	21,000	1,700	380	830	2,400	9,219	--	PACE	--	e, l, d
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	--	



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Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-1 Cont.</b>															
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	--	
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	

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						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-1 Cont.</b>															
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	--	--	--	--	--	--	--	--	--	
<b>11/9/2007</b>	<b>--</b>	<b>37.41</b>	<b>20.00</b>	<b>--</b>	<b>17.41</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>z</b>
<b>MW-2</b>															
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	--	c
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

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						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-2 Cont.</b>															
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	--	
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	--	

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-2 Cont.</b>															
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	
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	
<b>11/9/2007</b>	<b>P</b>	<b>38.46</b>	<b>21.53</b>	<b>--</b>	<b>16.93</b>	<b>49,000</b>	<b>6,300</b>	<b>3,300</b>	<b>2,900</b>	<b>8,300</b>	<b>9,500</b>	<b>1.05</b>	<b>TAMC</b>	<b>7.10</b>	<b>z</b>
<b>MW-3</b>															
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	--	

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-3 Cont.</b>															
12/15/1992	--	49.95	31.93	--	18.02	12,000	940	<50	310	120	--	--	ANA	--	c
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
10/13/1994	--	49.95	27.83	--	22.12	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.6	PACE	--	1
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	--	

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-3 Cont.</b>															
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	--	
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	--	--	--	--	--	--	--	--	--	
<b>11/9/2007</b>	--	<b>37.56</b>	<b>20.27</b>	--	<b>17.29</b>	--	--	--	--	--	--	--	--	--	<b>z</b>

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-4</b>															
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	--	l
6/7/1993	--	50.76	25.67	--	25.09	73,000	10,000	19,000	3,400	14,000	--	--	PACE	--	l
9/23/1993	--	50.76	29.37	--	21.39	--	--	--	--	--	--	--	--	--	
9/24/1993	--	50.76	--	--	--	68,000	11,000	2,100	8,600	990	390	--	PACE	--	l
9/24/1993	--	--	--	--	--	59,000	5,300	10,000	2,200	8,400	309	--	PACE	--	d
12/27/1993	--	50.76	29.40	--	21.36	32,000	2,500	4,400	1,300	4,400	387	--	PACE	--	l
4/5/1994	--	50.76	27.09	--	23.67	64,000	6,500	14,000	1,900	9,600	413	1.4	PACE	--	l
7/22/1994	--	--	--	--	--	85,000	11,000	21,000	3,300	14,000	435	--	PACE	--	d, l
7/22/1994	--	50.76	27.33	--	23.43	85,000	10,000	20,000	3,200	13,000	796	0.8	PACE	--	l
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
10/13/1994	--	--	--	--	--	51,000	7,400	13,000	2,100	9,100	773	--	PACE	--	d, l
1/25/1995	--	50.76	21.85	--	28.91	26,000	3,600	9,600	1,200	6,400	--	--	ATI	--	
1/25/1995	--	--	--	--	--	28,000	4,200	12,000	1,500	7,800	--	--	ATI	--	d, l
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	--	--	--	--	--	40,000	3,500	9,000	1,200	8,700	4,300	--	ATI	--	d
1/12/1996	--	50.76	25.34	--	25.42	46,000	3,500	8,300	1,100	8,000	3,000	3.3	ATI	--	
4/22/1996	--	50.76	19.13	--	31.63	40,000	5,100	9,600	980	11,800	29,000	3.2	SPL	--	
4/22/1996	--	--	--	--	--	61,000	8,300	16,000	1,600	15,200	36,000	--	SPL	--	d
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	--	50.76	20.95	--	29.81	100,000	7,900	16,000	2,500	13,700	37,000	3.7	SPL	--	
11/8/1996	--	--	--	--	--	110,000	9,100	20,000	3,000	15,400	39,000	--	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	--	
1/3/1997	--	--	--	--	--	66,000	12,000	19,000	2,900	15,000	69,000	--	SPL	--	d

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-4 Cont.</b>															
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	--	--	--	--	--	--	--	--	--	
10/3/1997	--	50.76	--	--	--	66,000	8,200	8,600	2,700	13,400	80,000	4.4	SPL	--	
10/3/1997	--	--	--	--	--	71,000	8,600	8,700	2,900	13,500	84,000	--	SPL	--	d
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



Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-4 Cont.</b>															
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	
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)
<b>11/9/2007</b>	<b>P</b>	<b>38.35</b>	<b>21.27</b>	<b>SHEEN</b>	<b>17.08</b>	<b>110,000</b>	<b>3,300</b>	<b>2,400</b>	<b>3,600</b>	<b>13,000</b>	<b>1,200</b>	<b>0.73</b>	<b>TAMC</b>	<b>7.07</b>	<b>s, z</b>
<b>MW-6</b>															
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	--	l
6/7/1993	--	50.32	26.33	--	23.99	<50	<0.5	<0.5	<0.5	1.5	--	--	PACE	--	l
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	--	l
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

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-6 Cont.</b>															
1/25/1995	--	50.32	22.16	--	28.16	240	6	<0.5	<0.5	<1	--	--	ATI	--	
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	--	

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-6 Cont.</b>															
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	--	--	--	--	--	--	--	--	--	
<b>11/9/2007</b>	--	--	<b>20.70</b>	--	--	--	--	--	--	--	--	--	--	--	<b>Unable to survey</b>
<b>MW-7</b>															
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	--	
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	--	

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-7 Cont.															
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
11/10/2003	P	51.40	20.24	--	31.16	230	<1.0	<1.0	<1.0	<1.0	92	--	SEQM	6.7	o
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

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-7 Cont.</b>															
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	
<b>11/9/2007</b>	<b>P</b>	<b>38.99</b>	<b>23.28</b>	<b>--</b>	<b>15.71</b>	<b>61</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>1.3</b>	<b>71</b>	<b>2.13</b>	<b>TAMC</b>	<b>8.57</b>	<b>z</b>
<b>MW-8</b>															
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	--	
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	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-8 Cont.															
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	--	--	--	--	--	--	--	--	--	
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	--	--	--	--	--	--	--	--	--	

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-8 Cont.</b>															
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	--	--	--	--	--	--	--	--	--	
<b>11/9/2007</b>	<b>--</b>	<b>38.44</b>	<b>20.92</b>	<b>--</b>	<b>17.52</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>z</b>
<b>MW-9</b>															
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	--	
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

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-9 Cont.</b>															
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	
11/03/2005	--	51.05	19.90	--	31.15	--	--	--	--	--	--	--	--	--	
02/14/2006	P	51.05	12.95	--	38.10	2,700	<25	<25	<25	<25	2,200	--	SEQM	7.0	w
5/30/2006	--	51.05	13.76	--	37.29	--	--	--	--	--	--	--	--	--	
8/29/2006	--	51.05	17.86	--	33.19	1,200	580	<25	<25	<25	<25	--	TAMC	6.9	
11/29/2006	--	51.05	20.25	--	30.80	--	--	--	--	--	--	--	--	--	
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	
5/25/2007	--	51.05	17.28	--	33.77	--	--	--	--	--	--	--	--	--	
8/9/2007	P	51.05	19.71	--	31.34	650	150	<0.50	<0.50	2.0	1.4	1.07	TAMC	7.58	
<b>11/9/2007</b>	--	<b>38.63</b>	<b>21.62</b>	--	<b>17.01</b>	--	--	--	--	--	--	--	--	--	<b>z</b>



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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-9</b>															
<b>MW-10</b>															
1/9/1998	--	--	20.97	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	4.3	SPL	--	h
5/6/1998	--	--	18.07	--	--	800	<0.5	<1.0	<1.0	<1.0	980	3.9	SPL	--	h
7/21/1998	--	--	18.28	--	--	80	<0.5	<1.0	<1.0	<1.0	<10	4.0	SPL	--	h
12/30/1998	--	--	22.22	--	--	--	--	--	--	--	--	--	--	--	h
2/2/1999	--	--	21.83	--	--	940	<10	<10	<10	<10	690	--	SPL	--	h
5/10/1999	--	--	17.99	--	--	--	--	--	--	--	--	--	--	--	h
9/23/1999	--	--	22.61	--	--	<50	<1.0	<1.0	<1.0	1.4	1,000	--	SPL	--	h
12/23/1999	--	--	23.75	--	--	--	--	--	--	--	--	--	--	--	h
3/27/2000	--	--	18.83	--	--	1,900	<0.5	<0.5	<0.5	<0.5	28,000	--	PACE	--	h
5/22/2000	--	--	19.47	--	--	--	--	--	--	--	--	--	--	--	h
8/31/2000	--	--	22.64	--	--	1,700	<0.5	<0.5	<0.5	<0.5	13,000	--	PACE	--	h
12/11/2000	--	--	22.84	--	--	--	--	--	--	--	--	--	--	--	h
3/20/2001	--	--	19.57	--	--	16,000	<0.5	<0.5	<0.5	<1.5	11,900	--	PACE	--	h
6/19/2001	--	--	20.63	--	--	--	--	--	--	--	--	--	--	--	h
9/20/2001	--	--	23.07	--	--	5,800	<0.5	<0.5	<0.5	<1.5	8,160	--	PACE	--	h
12/27/2001	--	--	20.92	--	--	6,600	17.3	14.5	<12.5	<25	7,750	--	PACE	--	h
2/28/2002	--	--	18.52	--	--	3,600	10.8	<0.5	<0.5	<1.0	5,380	--	PACE	--	h
6/28/2002	--	--	18.41	--	--	<50	<0.5	<0.5	<0.5	<1.0	2,570	--	PACE	--	h
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	

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-10 Cont.</b>															
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	
<b>11/9/2007</b>	<b>P</b>	<b>40.45</b>	<b>22.53</b>	<b>--</b>	<b>17.92</b>	<b>1,100</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>13</b>	<b>1,600</b>	<b>1.83</b>	<b>TAMC</b>	<b>7.31</b>	<b>z</b>
<b>QC-2</b>															
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, l
6/7/1993	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	i, l
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, l
4/5/1994	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	i, l
7/22/1994	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	i, l
10/13/1994	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	i, l
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  
µg/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\8260.  
k = Samples ran outside of EPA recommended hold time.  
l = 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 Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>EX-1</b>									
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	
<b>11/9/2007</b>	<b>&lt;15,000</b>	<b>1,900</b>	<b>370</b>	<b>&lt;25</b>	<b>&lt;25</b>	<b>&lt;25</b>	<b>&lt;25</b>	<b>&lt;25</b>	
<b>EX-2</b>									
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	
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	
<b>11/9/2007</b>	<b>&lt;300</b>	<b>&lt;20</b>	<b>140</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-1</b>									
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	
<b>MW-2</b>									
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
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	
<b>11/9/2007</b>	<b>&lt;60,000</b>	<b>&lt;4,000</b>	<b>9,500</b>	<b>&lt;100</b>	<b>&lt;100</b>	<b>&lt;100</b>	<b>&lt;100</b>	<b>&lt;100</b>	
<b>MW-3</b>									
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	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-3 Cont.</b>									
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	
<b>MW-4</b>									
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
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	
<b>11/9/2007</b>	<b>&lt;60,000</b>	<b>5,700</b>	<b>1,200</b>	<b>&lt;100</b>	<b>&lt;100</b>	<b>&lt;100</b>	<b>&lt;100</b>	<b>&lt;100</b>	
<b>MW-6</b>									
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	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-7</b>									
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	
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	
<b>11/9/2007</b>	<b>&lt;300</b>	<b>&lt;20</b>	<b>71</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	
<b>MW-8</b>									
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	
<b>MW-9</b>									
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



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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-9 Cont.</b>									
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	
<b>MW-10</b>									
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
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	
<b>11/9/2007</b>	<b>&lt;6,000</b>	<b>&lt;400</b>	<b>1,600</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>&lt;10</b>	

ABBREVIATIONS AND SYMBOLS:

-- = Not analyzed/applicable/measurable  
< = Not detected above reported detection limit  
1,2-DCA = 1,2-Dichloroethane  
µg/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 verification 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**

<b>Date Sampled</b>	<b>Approximate Flow Direction</b>	<b>Approximate Hydraulic Gradient</b>
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
<b>11/9/2007</b>	<b>North</b>	<b>0.02</b>

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, Laboratory Analytical Reports with Chain-of-Custody Documentation, Lithologic Boring Logs, Well Construction Logs, Surveying Data, and Well Development Data)



3330 Cameron Park Drive, Ste 550  
Cameron Park, California 95682  
(530) 676-6004 ~ Fax: (530) 676-6005

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

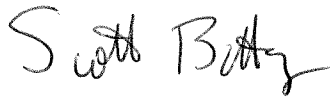
*Date:* November 20, 2007                      *Arrival:* 07:30                      *Departure:* 17:00  
*On-Site Supplier Representative:* Collin Fischer and David Demello  
*Scope of Work Performed:* Health and safety meeting. Installed 1 extraction well and 1 monitoring well (DPE-3 and MW-11).  
*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

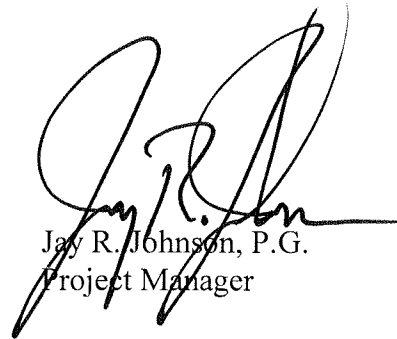
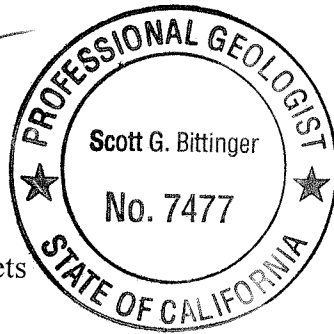
This submittal presents the tabulation of data collected in association with the installation of 5 DPE wells and one monitoring well. The attachments include field data sheets, boring logs, drilling permit, site plan, chain of custody documentation and certified analytical results. The information is 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,

**STRATUS ENVIRONMENTAL, INC.**



Scott Bittinger  
Project Geologist



Jay R. Johnson, P.G.  
Project Manager

**Attachments:**

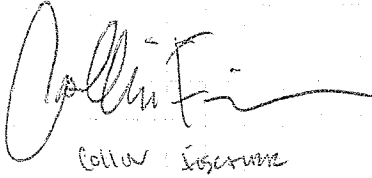
- Field Data Sheets
- Boring Logs
- DWR well completion & destruction forms
- Site Plan
- Drilling Permit
- Site Survey Plot Plan
- Chain-of-Custody Documentation
- Certified Analytical Results

Cc: Paul Supple, BP/Arco

ARCO 1117 - COLIN FISHER

11/05/07  
JUNING  
CLEAR

- 0745 ONSITE, WAIT FOR CRUZ BROTHERS, GET PHONE CALL, THEY WILL BE 1/2 HOUR LATE
- 0915 CRUZ BROTHERS ARRIVES 1-25 HOURS LATE, SAFETY MEETING
- 1045 LOCATE UTILITIES & LOCATIONS, NO GPR, (EX-1 ALLEGEDLY INSTALLED)?  
? ? ? ?  
? ? ? ?
- 1115 ONSITE



Colin Fisher

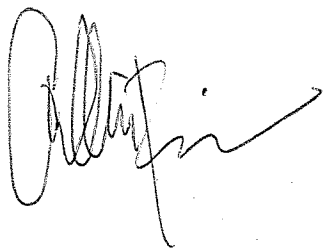
STRATUS ENV. INC.

USA TICKET #: 417214  
 EXP DATE: 12/31/07  
 DATE CHG: 11/5/07

Clearly  
Clean  
Method

## ARCO 1117 - COLLIN FISHER

- 0730 ONSITE
- 0800 WOODWARD ARRIVES, SAFETY MEETING, SITE WALK
- 0900 START ON DPE-1
- 1045 DPE-1 CLEANED TO 5' BGS, MOVE TO & START MW-11
- 1200 SMALL NATURE OPENING (CRACK) FOUND @ ~ 3.5-4' BGS IN MW-11  
HOLE WAS OPENED UNDER TO INVESTIGATE PEO RUNNING IN  
THE DIRECTION TO BE REMOVED, CLEANED TO 5' BGS.
- 1230 MOVE TO MW-12, START MW-12, PAUL SUPPLE ARRIVES
- 1240 BOB MILLER FROM BROADBENT ARRIVES
- 1300 BEGIN MW-12, CLEAN TO 5' & PATCH
- 1445 DONE W/ MW-12, CLEANUP, & JACOBSON/DPE-3
- 1515 CLEANUP
- 1600 ONSITE

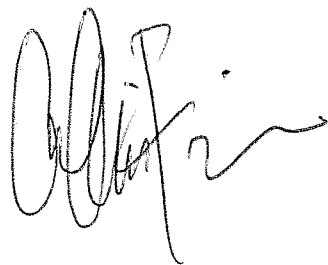


STRATUS ENV., INC.

PARTLY CLOUDY  
SUNNY  
11/13/07

ARCO 11117 - COLLIN FISCHER

- 0615 ONSITE
- 0645 WOODWARD ARRIVES, SAFETY MEETING, Fill up truck w/ H<sub>2</sub>O
- 0700 BEGIN WORK, ON DPE-4 (former MW-2)  
AIR KNIFE & INSTALL 5' CONDUCTOR CASING.
- 0930 RAN OUT OF H<sub>2</sub>O FOR H<sub>2</sub>O-KNIFE, Fill up
- 0950 RESUME WORK ON DPE-4
- 1145 DONE W/ DPE-4, 5' CONDUCTOR INSTALLED, MOVE TO DPE-5
- 1445 DONE W/ DPE-5 MOVE TO DPE-2
- 1615 DONE W/ DPE-2, PATCH ~~W/ AIR KNIFE TO DPE-3~~  
CLEAR
- 1645 OFFSITE



STRATUS RENTALS, INC.

11/14/07  
Sunny  
Clear

ARCO 1117 - Collin Fescure

- 0630 onsite
- 0700 WOODWARD ARRIVES, SAFETY MEETING
- 0715 START ON DPE-3
- 0850 Cleanup to 5' BOS.
- 0900 CLEAN UP, PATCH
- 0915 OFFSITE.



STRATUS ENV., INC.



PARTLY  
CLOUDY  
4/19/07

ARCO MIT - COLLIN FISCHER  
DAVID DEMELLO

0700 ONSITE

0800 WOODWARD

0820 SET UP

ARRIVES, SAFETY MEETING, SITE WALK  
ON DPE-4, START DRILLING  
OVERDRILL 2" WELL TO 45' BGS  
INSTALL 4" WELL TO 40' BGS

1015 DPE-4  
WELL SET

40'

SAND 45'-13'  
SCREEN 40'-15'  
BIT 13'-10'  
GRUNT 10'-0'

1200 DECON AUGERS & MOVE TO

DPE-1

1240 START DRILLING

1400 WELL SET 40'

SAND 40-13  
SCREEN 40-15  
BIT 13-10  
GRUNT 10-0

1515 START MIXING GROUT, CLEAN AUGERS

1545 GROUT HOLES

~~START DRILLING~~

1600 CLEANUP

1700 DEPARTURE

STRATUS ENV., INC.

Sunny  
Clear

11/20/07

# ARCO 1117 - COLTON FISCHER DAVID PERMELLO

0900 ON SITE, STARTS IMPROVING, SET UP

0950 START DRILLING MW-11

1130 DRILLED TO 40"

1200 SET WELL @ 40'

SCREEN 40-45'  
SAND 40-13  
BENT 13-10  
GRUNT 10-0

+ Go AHEAD GIVEN BY ALAMEDA COUNTY TO PROCEED

1300 MOVE TO DPE-3, SET UP

1320 START DRILLING DPE-3

1500 DRILLED TO 40'

1545 SET WELL @ 40'

1615 CLEANUP

1700 ~~ON SITE~~

38-13  
~~SCREEN~~  
SAND ~~40-13~~ 40-11  
BENT ~~13-10~~ 11-8  
GRUNT ~~10-0~~ 8-0

STRATUS ENV., INC.

Sunny  
Clear  
W 12/07

# ARCO 11117 - Callow Fisheries DRAIN DAMAGE

0700 ONSITE, SAFETY MEETING, SET UP ON DPE-2.  
 0745 START DRILLING, EXCLUSION SET UP ETC.  
 0830 START SAMPLING.  
 0945 DRILLED TO 40' SET WELL

SAMP 40-13  
 SCREEN 40-15  
 BENT 13-10  
 GROUT 10-0

1115 DECON AUGERS, CLEANUP, SET BOTES  
 1200 MOVE TO DPE-5  
 1230 START DRILLING  
 1300 START SAMPLING  
 1400 DRILLED TO 40' SET WELL

SAMP 40-13  
 SCREEN 40-15  
 BENT 13-10  
 GROUT 10-0

1500 CLEANUP SET BOT  
 1600 DECON, ORGANIZE DRUMS  
 1730 ONSITE

47 DRUMS

W 37 SOIL  
 W 10 TEO

*John Fi*

STRATUS ENV., INC.



**SOIL BORING LOG**

**Boring No. MW-11**

**Sheet: 2 of 2**

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

Sample		Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
S	MW-11 20'	15 19 24	1035	100		GC	Clayey gravel, GC, dark olive grey, (5Y 3/2), wet, dense 80% medium graiend gravel, 15% clay	0	
S	MW-11 25'	8 12 24	1040	0			No recovery	0	
S	MW-11 30'	8 24 30	1055	100			Clayey gravel, GC, dark olive grey, (5Y 3/2), wet, very dense 85% fine gravel, 15% clay	0	
S	MW-11 35'	13 33 36	1105	100			becomes 75% fine to medium graiend gravel, 15% clay, 10% coarse sand	0	
S	MW-11 40'	5 15 25	1125	100			Poorly graded sand, SP, dark olive grey, (5Y 3/2), wet, very dense 100% medium grained sand		

Comments:

*STRATUS*  
ENVIRONMENTAL, INC.



**SOIL BORING LOG**

**Boring No. DPE-1**

**Sheet: 1 of 2**

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

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
							Cleared to 5' bgs with air knife		
						1			
						2			
						3			
						4			
						5	CL		
S	DPE-1 5'	10	1240	100		6		Clay, CL, dark yellowish brown, (10YR 4/4), dry, hard, medium plasticity 100% clay	0
		20				7			
		30				8			
						9			
						10			
S	DPE-1 10'	12	1245	100		11	GM	Silty Gravel with clay, GM, dark yellowish brown, (10YR 4/6), moist medium dense, 75% medium gravel, 15% silt, 10% clay	0
		14				12			
		16				13			
						14			
						15			
S	DPE-1 15'	18	1250	100		16	GP	Poorly graded gravel with sand, GP, dark grayish brown, (2.5Y 4/2), moist very dense, 80% fine gravel, 20% coarse sand	0
		27				17			
		27				18			
						19			
						20	CL		

Recovery \_\_\_\_\_  
Sample \_\_\_\_\_

Comments:



**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:	

Sample		Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)						
Type	No.		Time	Recov.											
S	DPE-1 20'	7 14 20	1255	100		21 22 23 24 25	CL	Silty clay with sand, CL, dark yellowish brown, (10YR 4/6), moist, hard low plasticity, 60% clay, 30% silt, 10% sand	0						
S	DPE-1 25'	10 16 22	1300	100					26 27 28 29 30	GM	Silty gravel with sand, GM, light olive brown, (2.5Y 5/3), wet, dense 70% fine gravel, 20% silt, 10% medium sand	0			
S	DPE-1 30'	5 7 12	1305	100								31 32 33 34 35	CL	same as above	0
S	DPE-1 35'	7 15 22	1310	100											36 37 38 39 40
S	DPE-1 40'		1315	100				becomes silty clay, CL, 80% clay, 20% silt							

Comments:

*STRATUS*  
ENVIRONMENTAL, INC.



**SOIL BORING LOG**

**Boring No. DPE-2**

**Sheet: 1 of 2**

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

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
							Cleared to 5' bgs with air knife		
						1			
						2			
						3			
						4			
S	DPE-2 5'	10 23 33	0835	100		5			
						6		Sandy clay, CL, dark yellowish brown, (10YR 4/6), dry, hard medium plasticity, 65% clay, 35% medium to coarse sand	0
						7			
						8			
						9			
						10	CL		
S	DPE-2 10'	10 10 15	0850	100		11		same as above	0
						12			
						13			
						14			
						15			
S	DPE-2 15'	9 15 20	0900	100		16		Sandy clay, CL, dark olive brown, (2.5Y 3/3), moist, hard, low plasticity 60% clay, 40% medium sand	0
						17			
						18			
						19			
						20	SC ▼		

Recovery \_\_\_\_\_  
Sample \_\_\_\_\_

Comments:





**SOIL BORING LOG**

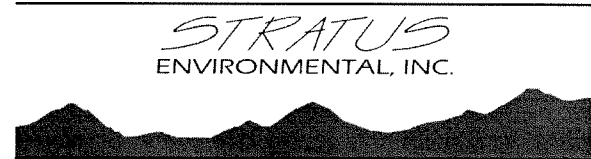
**Boring No. DPE-2**

**Sheet: 2 of 2**

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

Sample		Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
S	DPE-2 20'	7 11 24	910	100		SC	Clayey sand with gravel, SC, very dark grey, (5Y 3/1), wet, dense 70% medium grained sand, 20% clay, 10% fine grained gravel	0	
S	DPE-2 25'	7 18 34	915	100		GC	Clayey gravel with sand, GC, olive grey, (5Y 4/2), wet, very dense 75% medium grained gravel, 15% clay, 10% coarse grained sand	0	
S	DPE-2 30'	10 18 27	930	100		GC	same as above, but with hydrocarbon odor	0	
S	DPE-2 35'	14 26 34	940	100		SM	same as above	0	
S	DPE-2 40'	14 20 32	950	100			Silty sand, SM, olive grey, (5Y 4/2), wet, very dense 80% medium grained sand, 20% silt	0	

Comments:



**SOIL BORING LOG**

**Boring No. DPE-3**

**Sheet: 1 of 2**

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

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

Recovery \_\_\_\_\_  
Sample \_\_\_\_\_

Comments:



**SOIL BORING LOG**

**Boring No. DPE-3**

**Sheet: 2 of 2**

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

Sample		Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)	
Type	No.		Time	Recov.						
S	DPE-3 20'	12 20 26	1400	100		21	GC	Clayey gravel with sand, GC, dark olive grey, (5Y 3/2), wet, dense 75% medium grained gravel, 15% clay, 10% coarse grained sand	0	
						22				
						23				
						24				
S	DPE-3 25'	11 13 23	1410	100		25			same as above	0
						26				
						27				
						28				
						29				
						30				
S	DPE-3 30'	9 14 19	1420	100	31		same as above	0		
					32					
					33					
					34	SP				
					35		Poorly graded fine sand, SP			
S	DPE-3 35'	5 6 6	1425	100	36	GP	Poorly graded gravel, GP, dark olive grey, (5Y 3/2), wet, medium dense 100% medium gravel	0		
					37					
					38					
					39					
S	DPE-3 40'		1430	100	40		same as above	0		

Comments:

*STRATUS*  
ENVIRONMENTAL, INC.



**SOIL BORING LOG**

**Boring No. DPE-4**

**Sheet: 1 of 3**

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

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						1		Cleared to 5' bgs with air knife	
						2			
						3			
						4			
						5			
						6			
						7			
						8			
						9			
						10			
						11			
						12			
						13			
						14			
						15			
						16			
						17			
						18			
						19			
						20			

Recovery \_\_\_\_\_  
Sample \_\_\_\_\_

Comments: Overdrill existing 2" well to 45' bgs  
Set new 4" well at 40' bgs



**SOIL BORING LOG**

**Boring No. DPE-4**

**Sheet: 2 of 3**

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

Sample		Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
						21			
						22			
						23			
						24			
						25			
						26			
						27			
						28			
						29			
S						30			
						31			
						32			
						33			
						34			
S						35			
						36			
						37			
						38			
						39			
S						40			0

Comments:

*STRATUS*  
ENVIRONMENTAL, INC.



**SOIL BORING LOG**

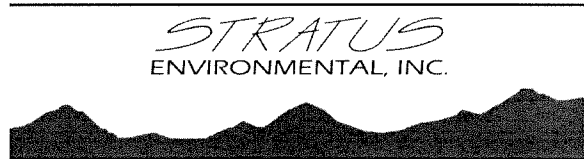
**Boring No. DPE-4**

**Sheet: 3 of 3**

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

Sample		Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
						41			
						42			
						43			
						44			
						45			
						46			
						47			
						48			
						49			
S						50			
						51			
						52			
						53			
						54			
S						55			
						56			
						57			
						58			
						59			
S						60			0

Comments:



**SOIL BORING LOG**

**Boring No. DPE-5**

**Sheet: 1 of 2**

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

Sample		Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
							Cleared to 5' bgs with air knife		
						1			
						2			
						3			
						4	CL		
S	DPE-5 5'	11 17 33	1300	100		5			
						6	CL	Silty clay, CL, dark yellowish brown, (10YR 3/6), dry, hard, medium plasticity 70% clay, 30% silt	0
						7			
						8			
						9			
S	DPE-5 10'	8 9 13	1305	100		10			
						11	SM	Silty sand, SM, olive, (5Y 4/3), dry, medium dense 85% medium grained sand, 15% silt	0
						12			
						13			
						14			
S	DPE-5 15'	11 15 20	1315	100		15			
						16	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
						17			
						18			
						19			
						20	SC		

Recovery \_\_\_\_\_  
Sample \_\_\_\_\_

Comments:



**SOIL BORING LOG**

**Boring No. DPE-5**

**Sheet: 2 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:	

Sample		Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
S	DPE-5 20'	4 7 12	1320	100		SC	Clayey sand, SC, dark olive grey, (5Y 3/2), wet, medium dense 80% medium grained sand, 20% clay	0	
S	DPE-5 25'	7 20 23	1330	100		GC	Clayey gravel with sand, GC, dark olive grey, (5Y 3/2), wet, dense 75% medium grained gravel, 15% clay, 10% coarse grained sand	0	
S	DPE-5 30'	14 27 50/3"	1340	100		GC	same as above	0	
S	DPE-3 35'	15 25 45	1350	100		GC	increasing clay content 70% medium grained gravel, 20% clay, 10% coarse grained sand	0	
S	DPE-5 40'	17 24 30	1400	100		GC	same as above	0	

Comments:

*STRATUS*  
ENVIRONMENTAL, INC.





**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**CONFIDENTIAL**

**STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)**

**REMOVED**

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**CONFIDENTIAL**

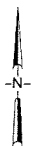
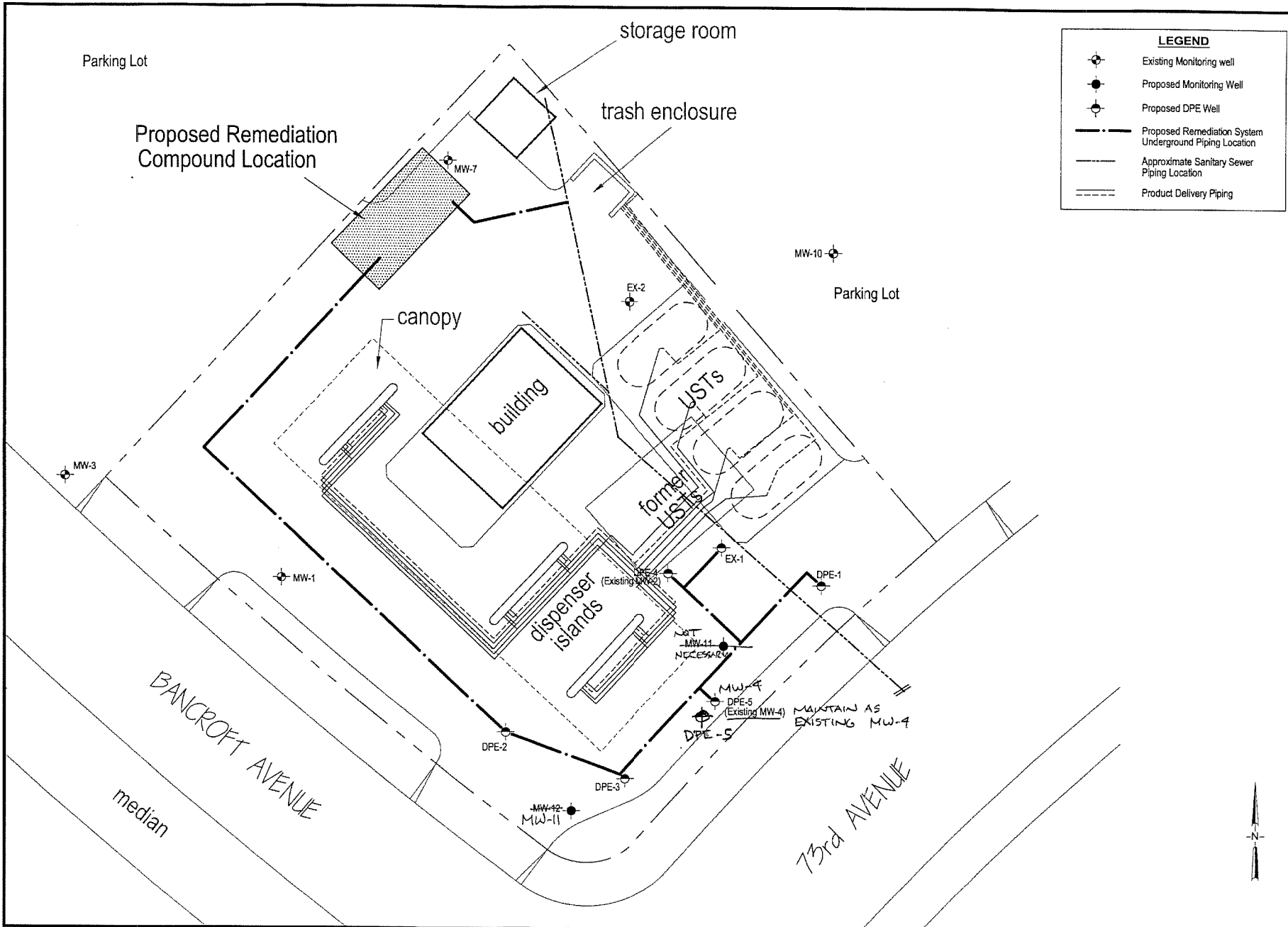
STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

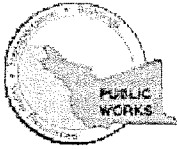
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**Alameda County Public Works Agency - Water Resources Well Permit**

S10 385 0737 Vicky Hunkler

3PM Brian Day



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  
**Site Location:** 7210 Bancroft Ave, Oakland, CA  
**Project Start Date:** 11/19/2007

**City of Project Site:** Oakland  
**Completion Date:** 11/30/2007

**Applicant:** Stratus Environmental - Scott Bittinger  
3330 Cameron Park Dr #550, Cameron Park, CA 95682  
**Property Owner:** BP West Coast Products, LLC  
6 Centerpointe Dr, La Palma, CA 90623  
**Client:** \*\* same as Property Owner \*\*

**Phone:** 530-676-2062  
**Phone:** 925-275-3506

<b>Receipt Number:</b> WR2007-0501	<b>Total Due:</b>	\$800.00
<b>Payer Name :</b> Stratus	<b>Total Amount Paid:</b>	\$800.00
	<b>Paid By:</b> CHECK	<b>PAID IN FULL</b>

**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.

Remediation Well Construction-Extraction - 5 Wells

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

**Work Total: \$200.00**

### 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

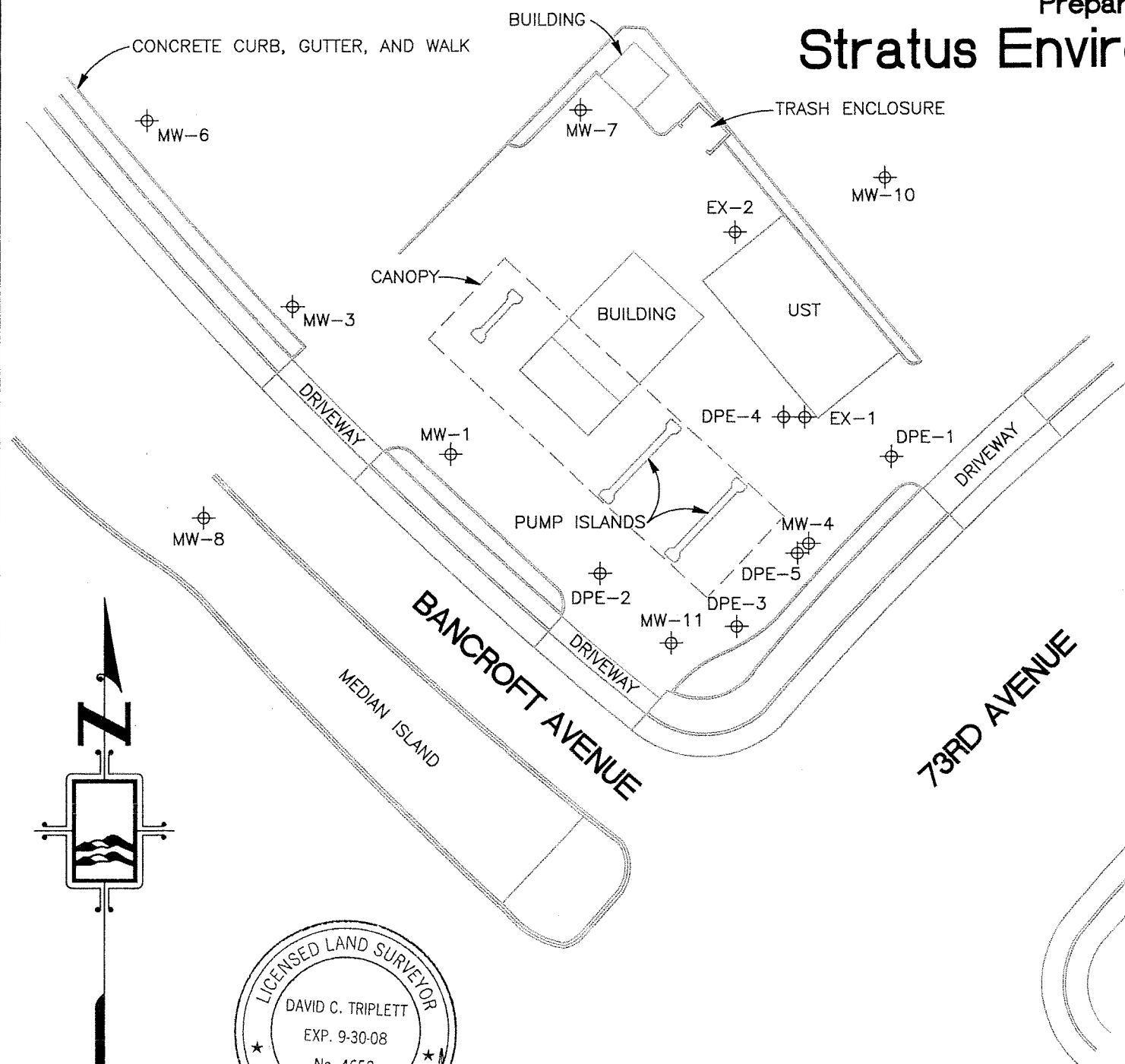
1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from 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. Permittee, 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
-

# Monitoring Well Exhibit

Prepared For:  
**Stratus Environmental, Inc.**

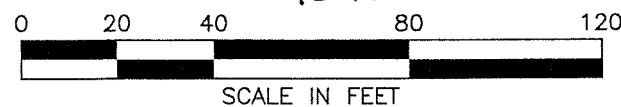
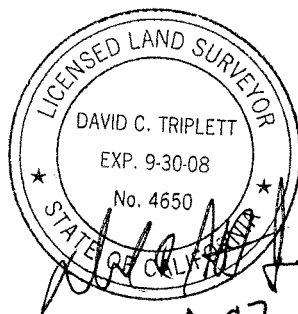


DESCRIPTION	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEV (PVC)	ELEV (BOX)
MW-1	2105831.9	6076851.1	37.7662945	-122.1773313	37.41	37.85
MW-3	2105872.6	6076808.1	37.7664043	-122.1774826	37.56	37.90
MW-4	2105807.0	6076948.4	37.7662308	-122.1769933	38.35	38.65
MW-6	2105923.8	6076768.2	37.7665428	-122.1776238	*	38.18
MW-7	2105926.5	6076886.9	37.7665560	-122.1772133	38.99	39.45
MW-8	2105814.5	6076783.9	37.7662436	-122.1775627	38.44	38.66
MW-9	2105702.5	6077065.7	37.7659497	-122.1765810	38.63	39.13
MW-10	2105907.6	6076969.2	37.7665082	-122.1769275	40.45	40.74
MW-11	2105779.8	6076911.2	37.7661543	-122.1771203	37.64	37.98
EX-1	2105841.7	6076947.4	37.7663262	-122.1769988	38.98	39.33
EX-2	2105892.7	6076928.6	37.7664653	-122.1770672	39.63	39.88
DPE-1	2105830.8	6076970.8	37.7662973	-122.1769173	38.95	39.29
DPE-2	2105799.0	6076892.1	37.7662062	-122.1771874	37.64	38.01
DPE-3	2105784.2	6076928.8	37.7661675	-122.1770597	37.82	38.32
DPE-4	2105841.8	6076941.8	37.7663261	-122.1770183	38.46	39.13
DPE-5	2105804.3	6076945.4	37.7662235	-122.1770036	38.23	38.70

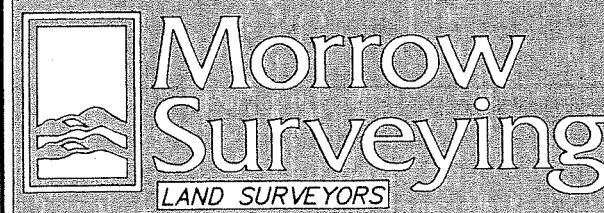
\*UNABLE TO OPEN BOX IN ORDER TO GET TOP OF CASING ELEVATION.

**BASIS OF COORDINATES AND ELEVATIONS:**

COORDINATES ARE CALIFORNIA STATE PLANE ZONE 3 COORDINATES FROM GPS OBSERVATIONS USING UNIVERSITY OF CALIFORNIA BAY AREA DEFORMATION CORS STATION OBSERVATION FILES AND BASED ON THE CALIFORNIA SPATIAL REFERENCE CENTER DATUM, REFERENCE EPOCH 2000.35.  
 COORDINATE DATUM IS NAD 83(CORS).  
 DATUM ELLIPSOID IS GRS80.  
 REFERENCE GEOID IS GEOID99.  
 CORS STATIONS USED WERE BRIB AND PBL1.  
 VERTICAL DATUM IS BASED ON CITY OF OAKLAND BENCHMARK DESIGNATED 3787 IN FIELD BOOK 1595, PAGE 50. CUT SQUARE NORTHERLY CURB ON KRAUSE AVE. APPROXIMATELY 37' WESTERLY OF PL WESTERLY OF 73RD AVE.  
 ELEVATION=33.82'



Station 1117  
Bancroft Avenue  
Oakland  
Alameda County  
California



1450 Harbor Blvd. Ste. D  
West Sacramento  
California 95691  
(916) 372-8124  
paulg@morrrowsurveying.com

Date: 12-7-07  
Scale: 1" = 40'  
Sheet 1 of 1  
Revised:  
Field Book: MW-38  
Dwg. No. 7502-070 PG



bp  
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: Alameda County  
 Requested Due Date (mm/dd/yy): \_\_\_\_\_

On-site Time: <u>0700</u>	Temp: <u>55</u>
Off-site Time: _____	Temp: _____
Sky Conditions: <u>Shawy</u>	
Meteorological Events: _____	
Wind Speed: _____	Direction: _____

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>U17</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>720 Riverwood Ave, Oakland</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long: _____	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>10600100201</u>	Consultant/Contractor Project No.: _____
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: <u>GOTTK-0035</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>Phase 01 - Assessment</u>	Report Type & QC Level: <u>Level 1 with EDP</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail BDD To: <u>shaves@stratusinc.net</u>
Tele/Fax: <u>925-275-3506</u>	Cost Element: <u>01-Contractor labor</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			MQK0830 Laboratory No.	No. of Containers	Preservative				Requested Analysis				Sample Point Lat/Long and Comments	
				Soil/Solid	Water/Liquid	Air			Unpreserved	H2SO4	HNO3	HCl	Methanol	Colo	BOD	1/2 PCA		SO4#
1	DPE-2 20'	0910	12/07	X			01	1	X					X	X			REVISED  STANDARD TAT  SO4# = DUPE TAKE BOD MPE TBA
2	DPE-2 30'	0930		X			02	1	X				X	X				
3	DPE-5 20'	1320		X			03	1	X				X	X				
4	DPE-5 35'	1350	V	X			04	1	X				X	X				
5																		
6																		
7																		
8																		
9																		
10																		

Sampler's Name: <u>Colin Jensen</u>	Relinquished By / Affiliation: <u>Daniel J. Miller / Stratus</u>		Date: <u>11/28/07</u>	Time: _____	Accepted By / Affiliation: <u>JULIE N. TAMM</u>	Date: <u>11/29/07</u>	Time: <u>0935</u>
Sampler's Company: <u>STRATUS ENV., INC</u>	Shipment Date: _____		Shipment Method: _____		Shipment Tracking No.: _____		
Special Instructions: <u>Please cc results to rmliller@broadbentinc.com</u>							

Custody Seals in Place: (Yes/No) | Temp Blank: Yes/No | Cooler Temp on Receipt: 11.2°C | Trip Blank: Yes/No | MS/MSD Sample Submitted: Yes/No

# Atlantic Richfield Company

A BP affiliated company

## Chain of Custody Record

Project Name: ARCO W17  
 BP BUAR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > W17  
 State or Lead Regulatory Agency: Alameda County  
 Requested Due Date (mm/dd/yy): \_\_\_\_\_

On-site Time: <u>0900</u>	Temp: <u>85</u>
Off-site Time: _____	Temp: _____
Sky Conditions: <u>Clear</u>	
Meteorological Events: _____	
Wind Speed: _____	Direction: _____

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>W17</u>	Consultant/Contractor: <u>Status Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>7210 Bancroft Ave, Oakland, CA</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
Morgan Hill, CA 95937	Site Lat/Long: _____	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>FOG00100201</u>	Consultant/Contractor Project No.: _____
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: <u>G07TK-0035</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>01 - ASSESSMENT</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shaves@stratusinc.net</u>
Tele/Fax: <u>925-275-3506</u>	Cost Element: <u>01-Contractor labor</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative				Requested Analysis				Sample Point Lat/Long and Comments
				Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	GPB	BETAL	WZ PL4	
1	<del>XXXXXXXXXX</del>	<del>XXXX</del>	<del>XXXX</del>				<u>HOK0677</u>										<u>REVISED</u>
2	<del>XXXXXXXXXX</del>	<del>XXXX</del>	<del>XXXX</del>														<u>STANDARD TAT</u>
3	<del>XXXXXXXXXX</del>	<del>XXXX</del>	<del>XXXX</del>														<u>*SOB = DPE</u>
4	<u>MW-11 20'</u>	<u>1035</u>	<u>1035</u>			X	<u>01</u>	<u>1</u>	X								<u>LAB</u>
5	<u>MW-11 30'</u>	<u>1035</u>	<u>1035</u>			X	<u>02</u>	<u>1</u>	X								<u>LAB</u>
6	<del>XXXXXXXXXX</del>	<del>XXXX</del>	<del>XXXX</del>														<u>LAB</u>
7	<del>XXXXXXXXXX</del>	<del>XXXX</del>	<del>XXXX</del>														
8	<u>DPE-3 20'</u>	<u>1400</u>	<u>1400</u>			X	<u>03</u>	<u>1</u>	X								
9	<u>DPE-3 35'</u>	<u>1425</u>	<u>1425</u>			X	<u>04</u>	<u>1</u>	X								
10																	

Sampler's Name: <u>COLIN FOX</u>	Relinquished By / Affiliation: <u>Paul Supple / TestAmerica</u>	Date: <u>11/21/07</u>	Time: <u>1800</u>	Accepted By / Affiliation: <u>JULIE N. TAMM</u>	Date: <u>11/21/07</u>	Time: <u>1103</u>
Sampler's Company: <u>STATUS ENV. INC.</u>	Shipment Date: <u>11-20-07</u>		Shipment Method: _____		Shipment Tracking No: _____	
Special Instructions: <u>Please cc results to rmler@broadbentinc.com</u>						

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 6.6°F | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No



A BP affiliated company

Chain of Custody Record

Project Name: ARCO 1117  
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > 1117  
 State or Lead Regulatory Agency: ALAMEDA COUNTY  
 Requested Due Date (mm/dd/yyyy): \_\_\_\_\_

On-site Time: <u>0700</u>	Temp: <u>58</u>
Off-site Time: <u>1430</u>	Temp: <u>60</u>
Sky Conditions: <u>Partly Cloudy</u>	
Meteorological Events: _____	
Wind Speed: _____	Direction: _____

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>1117</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>7210 BANCROFT AVENUE</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long: <u>OAKLAND, CA</u>	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600100201</u>	Consultant/Contractor Project No.: _____
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: <u>G07TK-0035</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR Pmt Contact: <u>Paul Supple</u>	Provision or OOC (circle one): <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>01 - ASSESSMENT</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayas@stratusinc.net</u>
Tele/Fax: <u>925-275-3506</u>	Cost Element: <u>01-Contractor labor</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative				Requested Analysis						Sample Point Lat/Long and REVISIONS	
				Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	ENGL	FCI	Methanol	GPLO	PERTEX	1/2 DUA	SO <sub>2</sub>	SO <sub>4</sub>		EDS
1	DPE-1 5'	1240	11/10/07				NAK0250	01	X											
2	DPE-1 10'	1245					02	1												STANDARD TMT
3	DPE-1 15'	1250					03	1												
4	DPE-1 20'	1255					04	1												SO <sub>2</sub> => DPE
5	DPE-1 25'	1300					05	1												TAMM
6	DPE-1 30'	1305					06	1												ETBE
7	DPE-1 35'	1310					07	1												MIBK
8	DPE-1 40'	1315					08	1												TBA
9																				
10																				

Sampler's Name: <u>Colin Fischer</u>	Being Issued By / Affiliation: <u>David [Signature]</u>		Date: <u>11/20/07</u>	Time: <u>1900</u>	Accepted By / Affiliation: <u>JULIE N. TAMM</u>	Date: <u>11/20/07</u>	Time: <u>1053</u>
Sampler's Company: <u>STRATUS ENV., INC.</u>	Shipment Date: <u>11-17-07</u>		Shipment Method: _____		Shipment Tracking No: _____		

Special Instructions: Please cc results to [rmiller@broadbentinc.com](mailto:rmiller@broadbentinc.com) # 11/20/07 @ 12:08 Analyze DPE-1-25' of DPE-1-35' ONLY LTR MS/MSD Sample Submitted: Yes/No

Custody Seals In Place: Yes/No | Temp Blank: Yes/No | Cooler Temp on Receipt: 5.0°F | Trip Blank: Yes/No

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.

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



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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-11 20' (MQK0677-01) Soil Sampled: 11/20/07 10:35 Received: 11/21/07 11:03</b>									
<b>Gasoline Range Organics (C4-C12)</b>	<b>0.10</b>	0.10	mg/kg	1	7K23009	11/21/07	11/23/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		83 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		94 %	50-135		"	"	"	"	
Surrogate: Toluene-d8		100 %	70-120		"	"	"	"	
<b>MW-11 30' (MQK0677-02) Soil Sampled: 11/20/07 10:55 Received: 11/21/07 11:03</b>									
<b>Gasoline Range Organics (C4-C12)</b>	<b>1.9</b>	0.10	mg/kg	1	7K23009	11/21/07	11/23/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		82 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		93 %	50-135		"	"	"	"	
Surrogate: Toluene-d8		101 %	70-120		"	"	"	"	
<b>DPE-3 20' (MQK0677-03) Soil Sampled: 11/20/07 14:00 Received: 11/21/07 11:03</b>									
<b>Gasoline Range Organics (C4-C12)</b>	<b>0.39</b>	0.10	mg/kg	1	7K23009	11/21/07	11/23/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		84 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	50-135		"	"	"	"	
Surrogate: Toluene-d8		101 %	70-120		"	"	"	"	
<b>DPE-3 35' (MQK0677-04) Soil Sampled: 11/20/07 14:25 Received: 11/21/07 11:03</b>									
<b>Gasoline Range Organics (C4-C12)</b>	<b>3.6</b>	0.10	mg/kg	1	7K23009	11/21/07	11/23/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		84 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	50-135		"	"	"	"	
Surrogate: Toluene-d8		103 %	70-120		"	"	"	"	

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

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	Notes
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**MW-11 20' (MQK0677-01) Soil Sampled: 11/20/07 10:35 Received: 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	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		94 %	50-135		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		83 %	65-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	70-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		88 %	60-125		"	"	"	"	

**MW-11 30' (MQK0677-02) Soil Sampled: 11/20/07 10:55 Received: 11/21/07 11:03**

tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7K23009	11/21/07	11/23/07	EPA 8260B	
<b>Benzene</b>	<b>0.0089</b>	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.11</b>	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
<b>Toluene</b>	<b>0.022</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.11</b>	0.0050	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		93 %	50-135		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		82 %	65-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	70-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98 %	60-125		"	"	"	"	

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

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	Notes
<b>DPE-3 20' (MQK0677-03) Soil Sampled: 11/20/07 14:00 Received: 11/21/07 11:03</b>									
tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7K23009	11/21/07	11/23/07	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.0050</b>	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		96 %	50-135		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		84 %	65-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	70-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93 %	60-125		"	"	"	"	
<b>DPE-3 35' (MQK0677-04) Soil Sampled: 11/20/07 14:25 Received: 11/21/07 11:03</b>									
tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7K23009	11/21/07	11/23/07	EPA 8260B	
<b>Benzene</b>	<b>0.082</b>	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.15</b>	0.0050	"	"	"	"	"	"	BB
<b>Methyl tert-butyl ether</b>	<b>0.060</b>	0.0050	"	"	"	"	"	"	
<b>Toluene</b>	<b>0.20</b>	0.0050	"	"	"	"	"	"	BB
<b>Xylenes (total)</b>	<b>0.28</b>	0.0050	"	"	"	"	"	"	BB
<i>Surrogate: Dibromofluoromethane</i>		96 %	50-135		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		84 %	65-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %	70-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		108 %	60-125		"	"	"	"	

TestAmerica - Morgan Hill, CA

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.

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

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

Stratus Environmental Inc. [Arco]  
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Project Manager: Jay Johnson

MQK0677  
Reported:  
11/29/07 13:59

**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
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**Batch 7K23009 - EPA 5030 (pres 48h)/5035 / LUFT GCMS**

<b>Blank (7K23009-BLK1)</b>		Prepared & Analyzed: 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			
<b>Laboratory Control Sample (7K23009-BS2)</b>		Prepared & Analyzed: 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		"	0.00500		102	70-120			
<b>Laboratory Control Sample Dup (7K23009-BSD2)</b>		Prepared & Analyzed: 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			
<b>Matrix Spike (7K23009-MS1)</b>		<b>Source: MQK0677-04</b>		Prepared & Analyzed: 11/23/07						
Gasoline Range Organics (C4-C12)	7.28	0.10	mg/kg	1.10	3.59	335	50-135			LM,AY
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			
<b>Matrix Spike Dup (7K23009-MSD1)</b>		<b>Source: MQK0677-04</b>		Prepared & Analyzed: 11/23/07						
Gasoline Range Organics (C4-C12)	7.18	0.10	mg/kg	1.10	3.59	326	50-135	1	40	LM,AY
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			

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

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	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 7K23009 - EPA 5030 (pres 48h)/5035 / EPA 8260B**

**Blank (7K23009-BLK1)**

Prepared & Analyzed: 11/23/07

tert-Amyl methyl ether	ND	0.0050	mg/kg							
Benzene	ND	0.0050	"							
tert-Butyl alcohol	ND	0.020	"							
Di-isopropyl ether	ND	0.0050	"							
1,2-Dibromoethane (EDB)	ND	0.0050	"							
1,2-Dichloroethane	ND	0.0050	"							
Ethanol	ND	0.10	"							
Ethyl tert-butyl ether	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Methyl tert-butyl ether	ND	0.0050	"							
Toluene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00474</i>		<i>"</i>	<i>0.00500</i>		<i>95</i>	<i>50-135</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00424</i>		<i>"</i>	<i>0.00500</i>		<i>85</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00472</i>		<i>"</i>	<i>0.00500</i>		<i>94</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00424</i>		<i>"</i>	<i>0.00500</i>		<i>85</i>	<i>60-125</i>			

**Laboratory Control Sample (7K23009-BS1)**

Prepared & Analyzed: 11/23/07

tert-Amyl methyl ether	0.0215	0.0050	mg/kg	0.0200		108	65-145			
Benzene	0.0223	0.0050	"	0.0200		111	75-125			
tert-Butyl alcohol	0.323	0.020	"	0.400		81	70-125			
Di-isopropyl ether	0.0179	0.0050	"	0.0200		89	60-140			
1,2-Dibromoethane (EDB)	0.0229	0.0050	"	0.0200		114	75-140			
1,2-Dichloroethane	0.0181	0.0050	"	0.0200		90	70-135			
Ethanol	0.284	0.10	"	0.400		71	45-150			
Ethyl tert-butyl ether	0.0202	0.0050	"	0.0200		101	65-140			
Ethylbenzene	0.0203	0.0050	"	0.0200		101	75-130			
Methyl tert-butyl ether	0.0208	0.0050	"	0.0200		104	60-140			
Toluene	0.0229	0.0050	"	0.0200		115	75-135			
Xylenes (total)	0.0635	0.0050	"	0.0600		106	75-135			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00504</i>		<i>"</i>	<i>0.00500</i>		<i>101</i>	<i>50-135</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00422</i>		<i>"</i>	<i>0.00500</i>		<i>84</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00516</i>		<i>"</i>	<i>0.00500</i>		<i>103</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00492</i>		<i>"</i>	<i>0.00500</i>		<i>98</i>	<i>60-125</i>			

TestAmerica - Morgan Hill, CA

*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.*

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

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	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 7K23009 - EPA 5030 (pres 48h)/5035 / EPA 8260B**

<b>Matrix Spike (7K23009-MS1)</b>	<b>Source: MQK0677-04</b>			<b>Prepared &amp; Analyzed: 11/23/07</b>						
tert-Amyl methyl ether	0.0253	0.0050	mg/kg	0.0200	ND	126	65-140			
Benzene	0.108	0.0050	"	0.0200	0.0817	132	65-145			
tert-Butyl alcohol	0.433	0.020	"	0.400	ND	108	70-130			
Di-isopropyl ether	0.0197	0.0050	"	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	"	0.400	ND	95	35-150			
Ethyl tert-butyl ether	0.0222	0.0050	"	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	"	0.0200	0.0601	124	60-150			
Toluene	0.265	0.0050	"	0.0200	0.203	311	65-140			BB
Xylenes (total)	0.481	0.0050	"	0.0600	0.279	338	70-145			BB
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00510</i>		<i>"</i>	<i>0.00500</i>		<i>102</i>	<i>50-135</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00400</i>		<i>"</i>	<i>0.00500</i>		<i>80</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00510</i>		<i>"</i>	<i>0.00500</i>		<i>102</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00586</i>		<i>"</i>	<i>0.00500</i>		<i>117</i>	<i>60-125</i>			

<b>Matrix Spike Dup (7K23009-MSD1)</b>	<b>Source: MQK0677-04</b>			<b>Prepared &amp; Analyzed: 11/23/07</b>						
tert-Amyl methyl ether	0.0213	0.0050	mg/kg	0.0200	ND	106	65-140	17	25	
Benzene	0.0948	0.0050	"	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	"	0.0200	ND	85	65-145	15	40	
1,2-Dibromoethane (EDB)	0.0223	0.0050	"	0.0200	ND	111	60-150	12	30	
1,2-Dichloroethane	0.0167	0.0050	"	0.0200	ND	83	60-140	16	25	
Ethanol	0.308	0.10	"	0.400	ND	77	35-150	20	30	
Ethyl tert-butyl ether	0.0196	0.0050	"	0.0200	ND	98	65-150	13	30	
Ethylbenzene	0.193	0.0050	"	0.0200	0.150	213	75-140	12	30	BB
Methyl tert-butyl ether	0.0724	0.0050	"	0.0200	0.0601	61	60-150	16	25	
Toluene	0.231	0.0050	"	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
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00470</i>		<i>"</i>	<i>0.00500</i>		<i>94</i>	<i>50-135</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00398</i>		<i>"</i>	<i>0.00500</i>		<i>80</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00506</i>		<i>"</i>	<i>0.00500</i>		<i>101</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00580</i>		<i>"</i>	<i>0.00500</i>		<i>116</i>	<i>60-125</i>			

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

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 - Quality Control**  
**TestAmerica - Morgan Hill, CA**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 7K27001 - General Preparation / SM2540G**

<b>Blank (7K27001-BLK1)</b>				Prepared: 11/26/07 Analyzed: 11/27/07						
Percent Solids	ND	1.0	%							
<b>Duplicate (7K27001-DUP1)</b>				Source: MQK0678-01 Prepared: 11/26/07 Analyzed: 11/27/07						
Percent Solids	81.3	1.0	%		81.3			0.07	20	



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

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Project Manager: Jay Johnson

MQK0677  
Reported:  
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

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](mailto: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  
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11/26/2007

# Atlantic Richfield Company

A BP affiliated company

## Chain of Custody Record

Project Name: ARCO W17  
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > W17  
 State or Lead Regulatory Agency: Alameda County  
 Requested Due Date (mm/dd/yy): \_\_\_\_\_

Page k of L

On-site Time: 0900 Temp: 85  
 Off-site Time: \_\_\_\_\_ Temp: \_\_\_\_\_  
 Sky Conditions: Clear  
 Meteorological Events: \_\_\_\_\_  
 Wind Speed: \_\_\_\_\_ Direction: \_\_\_\_\_

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>W17</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>7210 Bancroft Ave, Oakland, CA</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
Morgan Hill, CA 95037	Site Lat/Long: _____	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>70600100201</u>	Consultant/Contractor Project No.: _____
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: <u>G07TK-0035</u>	Consultant/Contractor PM: <u>Iay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>01 - ASSESSMENT</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shaves@stratusinc.net</u>
Tele/Fax: <u>925-275-3506</u>	Cost Element: <u>01-Contractor labor</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Sample Point Lat/Long and Comments
				Soil/Solid	Water/Liquid	Air			Unpreserved	H2SO4	HNO3	HCl	Methanol	Grp	Betal	1/2 BCL	SOB #	EDB	
1	<del>XXXXXXXXXX</del>	<del>XXXX</del>	<del>XXXX</del>				<u>HCK0677</u>												<u>REVISED</u>
2	<del>XXXXXXXXXX</del>	<del>XXXX</del>	<del>XXXX</del>																<u>STANDARD TAT</u>
3	<del>XXXXXXXXXX</del>	<del>XXXX</del>	<del>XXXX</del>																<u>*SOB = DPE</u>
4	<u>MW-11 20'</u>	<u>1036</u>	<u>1036</u>		X		<u>01</u>	<u>1</u>	X					X	X	X	X	X	<u>DPE</u>
5	<u>MW-11 30'</u>	<u>1035</u>	<u>1035</u>		X		<u>02</u>	<u>1</u>	X					X	X	X	X	X	<u>TAMM</u>
6	<del>XXXXXXXXXX</del>	<del>XXXX</del>	<del>XXXX</del>																<u>PHB</u>
7	<del>XXXXXXXXXX</del>	<del>XXXX</del>	<del>XXXX</del>																<u>TBT</u>
8	<u>DPE-3 20'</u>	<u>1100</u>	<u>1100</u>		X		<u>03</u>	<u>1</u>	X					X	X	X	X	X	
9	<u>DPE-3 35'</u>	<u>1125</u>	<u>1125</u>		X		<u>04</u>	<u>1</u>	X					X	X	X	X	X	
10																			

Sampler's Name: Collin Foster  
 Sampler's Company: Stratus Env. Inc.  
 Shipment Date: 11-20-07  
 Shipment Method: \_\_\_\_\_  
 Shipment Tracking No: \_\_\_\_\_  
 Special Instructions: Please cc results to rmler@broadbentinc.com

Relinquished By / Affiliation <u>Collin Foster Stratus Env.</u>	Date <u>11/20/07</u>	Time <u>1800</u>	Accepted By / Affiliation <u>JULIE N. TAMM</u>	Date <u>11/21/07</u>	Time <u>1103</u>
--	-------------------------	---------------------	---	-------------------------	---------------------

Custody Seals in Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 5.6°C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

# Atlantic Richfield Company

A BP affiliated company

## Chain of Custody Record

Project Name: ARCO W17  
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > W17  
 State or Lead Regulatory Agency: Alameda County  
 Requested Due Date (mm/dd/yy): \_\_\_\_\_

Page k of l

On-site Time: <u>0900</u>	Temp: <u>85</u>
Off-site Time: _____	Temp: _____
Sky Conditions: <u>Clear</u>	
Meteorological Events: _____	
Wind Speed: _____	Direction: _____

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>W17</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>7210 BANCROFT AVE, OAKLAND, CA</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
Morgan Hill, CA 95937	Site Lat/Long: _____	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600100201</u>	Consultant/Contractor Project No.: _____
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: _____	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>01 - ASSESSMENT</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shaves@stratusinc.net</u>
Tele/Fax: <u>925-275-3506</u>	Cost Element: <u>01-Contractor labor</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Sample Point Lat/Long and Comments
				Sol/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	Cr6	Biotex	1/2 PCA	SO <sub>4</sub> <sup>2-</sup>	EDB	
1	<del>XXXXXXXXXX</del>	<del>XXXX</del>	<del>XXXX</del>				<u>MOK0677</u>												
2	<del>XXXXXXXXXX</del>	<del>XXXX</del>	<del>XXXX</del>																<u>STANDARD TAT</u>
3	<del>XXXXXXXXXX</del>	<del>XXXX</del>	<del>XXXX</del>																<u>*SO<sub>4</sub><sup>2-</sup> = DLPE</u>
4	<u>MW-11 20'</u>	<u>1035</u>		X			<u>01</u>	<u>1</u>	X										<u>JANU</u>
5	<u>MW-11 30'</u>	<u>1055</u>		X			<u>02</u>	<u>1</u>	X										<u>FEB</u>
6	<del>XXXXXXXXXX</del>	<del>XXXX</del>	<del>XXXX</del>																<u>MAR</u>
7	<del>XXXXXXXXXX</del>	<del>XXXX</del>	<del>XXXX</del>																<u>APR</u>
8	<u>DPE-3 20'</u>	<u>1400</u>		X			<u>03</u>	<u>1</u>	X										<u>MAY</u>
9	<u>DPE-3 35'</u>	<u>1425</u>		X			<u>04</u>	<u>1</u>	X										<u>JUN</u>
10																			

Sampler's Name: <u>COLIN FOSTER</u>	Relinquished By / Affiliation: <u>Stratus Environmental, Inc.</u>	Date: <u>11/20/07</u>	Time: <u>1800</u>	Accepted By / Affiliation: <u>JULIE N. TAMM</u>	Date: <u>11/21/07</u>	Time: <u>1103</u>
Sampler's Company: <u>STRATUS ENV. INC.</u>						
Shipment Date: <u>11-20-07</u>						
Shipment Method: _____						
Shipment Tracking No: _____						

Special Instructions: Please cc results to rmitter@broadbentinc.com

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 5-6°F | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

# FedEx. US Airbill

Express

FedEx Tracking Number **8636 0741 2918**

**1 From**  
Date 11-20-07

Sender's Name ... Phone ...

Company ...

Address ...

City ... State ... ZIP ...

**2 Your Internal Billing Reference**

**3 To**  
Recipient's Name ... Phone ...

Company ...

Recipient's Address ...

Address ...

City ... State ... ZIP ...



8636 0741 2918

fedex.com 1.800.GoFedEx 1.800.463.3339

## Recipient's Copy

**4a Express Package Service** Packages up to 70 lbs.

FedEx Priority Overnight  
 FedEx Standard Overnight  
 FedEx First Overnight

FedEx 2Day  
 FedEx Express Saver

**4b Express Freight Service** Packages over 150 lbs.

FedEx 1Day Freight  
 FedEx 2Day Freight  
 FedEx 3Day Freight

**5 Packaging**

FedEx Envelope  
 FedEx Pak  
 FedEx Box  
 FedEx Tube  
 Other

**6 Special Handling**

SATURDAY Delivery  
 HOLD at FedEx Location  
 HOLD Saturday at FedEx location

Does this shipment contain dangerous goods?  
 No  
 Yes (Agree attached Signature Declaration)  
 Yes (Signer's Declaration attached)

Other special handling:  Dry Ice,  Fragile,  Cargo Aircraft Only

**7 Payment Method**

Sender's Bill  
 Recipient  
 Third Party  
 Credit Card  
 Cash/Cheque

Total Packages: 11 Total Weight: ... Total Declared Value: ...

Total Packages: 11 Total Weight: ... Total Declared Value: ...

Total Packages: 11 Total Weight: ... Total Declared Value: ...

**8 Residential Delivery Signature Options**

No Signature Required  
 Direct Signature  
 Indirect Signature

**520**

fedex.com 1.800.GoFedEx 1.800.463.3339

## TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARCO  
 REC. BY (PRINT) JULIE N.  
 WORKORDER: MQK0677

DATE REC'D AT LAB: 11/21/07  
 TIME REC'D AT LAB: 1103  
 DATE LOGGED IN: 11/21/07

For Regulatory Purposes?  
 DRINKING WATER  
 WASTE WATER  
 OTHER SOIL

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) <input checked="" type="radio"/> Present / <input type="radio"/> Absent <input checked="" type="radio"/> Intact / <input type="radio"/> Broken*								<div style="transform: rotate(-45deg); font-size: 2em; font-weight: bold;">                     JULIE N.                      SEE COC                      11/21/07                 </div>
2. Chain-of-Custody <input checked="" type="radio"/> Present / <input type="radio"/> Absent*								
3. Traffic Reports or Packing List: <input checked="" type="radio"/> Present / <input type="radio"/> Absent								
4. Airbill: <input checked="" type="radio"/> Airbill / <input type="radio"/> Sticker <input checked="" type="radio"/> Present / <input type="radio"/> Absent								
5. Airbill #: <u>SEE ATTACHED</u>								
6. Sample Labels: <input checked="" type="radio"/> Present / <input type="radio"/> Absent								
7. Sample IDs: <input checked="" type="radio"/> Listed / <input type="radio"/> Not Listed on Chain-of-Custody							<u># METAL CORE</u>	
8. Sample Condition: <input checked="" type="radio"/> Intact / <input type="radio"/> Broken* / <input type="radio"/> Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="radio"/> Yes / <input type="radio"/> No*								
10. Sample received within hold time? <input checked="" type="radio"/> Yes / <input type="radio"/> No*								
11. Adequate sample volume received? <input checked="" type="radio"/> Yes / <input type="radio"/> No*								
12. Proper preservatives used? <input checked="" type="radio"/> Yes / <input type="radio"/> No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes) <input checked="" type="radio"/> Yes / <input type="radio"/> No*								
14. Read Temp: <u>6.6°C</u> Correction Factor: <u>-1.0</u> Corrected Temp: <u>5.6°C</u> Is corrected temp. 0-8°C? <input checked="" type="radio"/> Yes / <input type="radio"/> No**								

\*\*Exception (if any): Metals / Perchlorate  
 DFF on Ice or Problem COC



bp  
A BP affiliated company

### Chain of Custody Record

Project Name: ARCO 1117  
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > 1117  
 State or Lead Regulatory Agency: ALAMEDA County  
 Requested Due Date (mm/dd/yy): \_\_\_\_\_

On-site Time: <u>0900</u>	Temp: <u>85</u>
Off-site Time:	Temp:
Sky Conditions: <u>Sunny</u>	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: TestAmerica	BP/AR Facility No.: <u>1117</u>	Consultant/Contractor: Stratus Environmental, Inc.
Address: 885 Jarvis Drive	BP/AR Facility Address: <u>7210 BANCROFT AVE, OAKLAND, CA</u>	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.: <u>T0600100201</u>	Consultant/Contractor Project No.:
Tele/Fax: 408-782-8156 408-782-6308 (fax)	Enfos Project No.:	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: <del>Monitoring</del> <u>OL - ASSESSMENT</u>	Report Type & QC Level: Level 1 with EDF
San Ramon, CA	Sub Phase/Task: 03-Analytical	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: 925-275-3506	Cost Element: 01-Contractor labor	Invoice to: Atlantic Richfield Co.

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Sample Point Lat/Long and Comments		
				Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	Geo	BETA	1/2 DIA	SO <sub>4</sub> *	EDB		EIOH	
1	<del>XXXXXXXXXX</del>	<del>1035</del>	<del>11/20/07</del>	<del>X</del>																	
2	<del>XXXXXXXXXX</del>	<del>1035</del>	<del>11/20/07</del>	<del>X</del>																	STANDARD TAT
3	<del>XXXXXXXXXX</del>	<del>1035</del>	<del>11/20/07</del>	<del>X</del>																	*SO <sub>4</sub> = DPE DAILY ETBE MTBE TBAH
4	MW-11 20'	1035	11/20/07	X			1	T													
5	MW-11 30'	1035	11/20/07	X			1	T													
6	<del>XXXXXXXXXX</del>	<del>1035</del>	<del>11/20/07</del>	<del>X</del>																	
7	<del>XXXXXXXXXX</del>	<del>1035</del>	<del>11/20/07</del>	<del>X</del>																	
8	DPE-3 20'	1400	11/20/07	X			1	X													
9	DPE-3 35'	1425	11/20/07	X			1	X													
10																					

Sampler's Name: <u>Collin Fischer</u>	Relinquished By / Affiliation: <u>Paul Miller / Stratus Env.</u>	Date: <u>11/20/07</u>	Time: <u>1800</u>	Accepted By / Affiliation:	Date:	Time:
Sampler's Company: <u>STRATUS ENV., INC.</u>						
Shipment Date: <u>11-20-07</u>						
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Please cc results to [rmiller@broadbentinc.com](mailto:rmiller@broadbentinc.com)

Custody Seals In Place (Yes/No) | Temp Blank: Yes/No | Cooler Temp on Receipt: \_\_\_\_\_ °F/C | Trip Blank: Yes/No | MS/MSD Sample Submitted: Yes/No

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]  
3330 Cameron Park Dr., Suite 550  
Cameron Park CA, 95682

Project: BP Heritage #11117, Oakland, CA  
Project Number: G07TK-0035  
Project Manager: Jay Johnson

MQK0636  
Reported:  
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.

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

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
<b>DPE-1 25' (MQK0636-05) Soil</b>									<b>BU</b>
Sampled: 11/19/07 13:00 Received: 11/20/07 10:53									
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 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	50-135		"	"	"	"	
Surrogate: Toluene-d8		96 %	70-120		"	"	"	"	
<b>DPE-1 35' (MQK0636-07) Soil</b>									
Sampled: 11/19/07 13:10 Received: 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 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		93 %	50-135		"	"	"	"	
Surrogate: Toluene-d8		100 %	70-120		"	"	"	"	

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

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**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**DPE-1 25' (MQK0636-05) Soil**    **Sampled: 11/19/07 13:00**    **Received: 11/20/07 10:53** **BU**

tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7L04043	11/23/07	12/05/07	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
<b>tert-Butyl alcohol</b>	<b>0.28</b>	<b>0.020</b>	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %	50-135		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		116 %	65-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96 %	70-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92 %	60-125		"	"	"	"	

**DPE-1 35' (MQK0636-07) Soil**    **Sampled: 11/19/07 13:10**    **Received: 11/20/07 10:53**

tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7K27005	11/27/07	11/27/07	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		93 %	50-135		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92 %	65-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	70-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99 %	60-125		"	"	"	"	

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

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**  
**TestAmerica - Morgan Hill, CA**

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

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

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) - Quality Control**  
**TestAmerica - Morgan Hill, CA**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 7K27005 - EPA 5030B P/T / LUFT GCMS**

**Blank (7K27005-BLK1)** Prepared & Analyzed: 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-BS2)** Prepared & Analyzed: 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 (7K27005-BSD2)** Prepared & Analyzed: 11/27/07

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: MQK0711-01 Prepared & Analyzed: 11/27/07

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: MQK0711-01 Prepared & Analyzed: 11/27/07

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			

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

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) - Quality Control

### TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 7L04043 - EPA 5030B P/T / 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-BS2)

Prepared & Analyzed: 12/04/07

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 (7L04043-BS2)

Prepared & Analyzed: 12/04/07

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: MQL0021-03RE1

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: MQL0021-03RE1

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			

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**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
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**Batch 7K27005 - EPA 5030B P/T / EPA 8260B**

**Blank (7K27005-BLK1)**

Prepared & Analyzed: 11/27/07

tert-Amyl methyl ether	ND	0.0050	mg/kg							
Benzene	ND	0.0050	"							
tert-Butyl alcohol	ND	0.020	"							
Di-isopropyl ether	ND	0.0050	"							
1,2-Dibromoethane (EDB)	ND	0.0050	"							
1,2-Dichloroethane	ND	0.0050	"							
Ethanol	ND	0.10	"							
Ethyl tert-butyl ether	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Methyl tert-butyl ether	ND	0.0050	"							
Toluene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00516</i>		<i>"</i>	<i>0.00500</i>		<i>103</i>	<i>50-135</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00506</i>		<i>"</i>	<i>0.00500</i>		<i>101</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00498</i>		<i>"</i>	<i>0.00500</i>		<i>100</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00488</i>		<i>"</i>	<i>0.00500</i>		<i>98</i>	<i>60-125</i>			

**Laboratory Control Sample (7K27005-BS1)**

Prepared & Analyzed: 11/27/07

tert-Amyl methyl ether	0.0217	0.0050	mg/kg	0.0200		108	65-145			
Benzene	0.0214	0.0050	"	0.0200		107	75-125			
tert-Butyl alcohol	0.370	0.020	"	0.400		93	70-125			
Di-isopropyl ether	0.0208	0.0050	"	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	"	0.400		108	45-150			
Ethyl tert-butyl ether	0.0210	0.0050	"	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	"	0.0200		108	75-135			
Xylenes (total)	0.0668	0.0050	"	0.0600		111	75-135			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00528</i>		<i>"</i>	<i>0.00500</i>		<i>106</i>	<i>50-135</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00486</i>		<i>"</i>	<i>0.00500</i>		<i>97</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00504</i>		<i>"</i>	<i>0.00500</i>		<i>101</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00508</i>		<i>"</i>	<i>0.00500</i>		<i>102</i>	<i>60-125</i>			

TestAmerica - Morgan Hill, CA

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Cameron Park CA, 95682

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 - Quality Control**  
**TestAmerica - Morgan Hill, CA**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 7K27005 - EPA 5030B P/T / EPA 8260B**

Matrix Spike (7K27005-MS1)	Source: MQK0711-01	Prepared & Analyzed: 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	"	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	"	0.0200	ND	95	60-150			
1,2-Dichloroethane	0.0199	0.0050	"	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	"	0.0200	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	"	0.0200	ND	112	65-140			
Xylenes (total)	0.0762	0.0050	"	0.0600	ND	127	70-145			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00486</i>		"	<i>0.00500</i>		<i>97</i>	<i>50-135</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00466</i>		"	<i>0.00500</i>		<i>93</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00480</i>		"	<i>0.00500</i>		<i>96</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00428</i>		"	<i>0.00500</i>		<i>86</i>	<i>60-125</i>			

Matrix Spike Dup (7K27005-MSD1)	Source: MQK0711-01	Prepared & Analyzed: 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	"	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	"	0.0200	ND	87	60-150	9	30	
1,2-Dichloroethane	0.0196	0.0050	"	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	"	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	"	0.0200	ND	92	65-140	20	25	
Xylenes (total)	0.0571	0.0050	"	0.0600	ND	95	70-145	29	30	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00512</i>		"	<i>0.00500</i>		<i>102</i>	<i>50-135</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00482</i>		"	<i>0.00500</i>		<i>96</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00476</i>		"	<i>0.00500</i>		<i>95</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00402</i>		"	<i>0.00500</i>		<i>80</i>	<i>60-125</i>			

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Cameron Park CA, 95682

Project: BP Heritage #11117, Oakland, CA  
Project Number: G07TK-0035  
Project Manager: Jay Johnson

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Reported:  
12/05/07 15:10

**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
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**Batch 7L04043 - EPA 5030B P/T / EPA 8260B**

**Blank (7L04043-BLK1)**

Prepared: 11/23/07 Analyzed: 12/04/07

tert-Amyl methyl ether	ND	0.0050	mg/kg							
Benzene	ND	0.0050	"							
tert-Butyl alcohol	ND	0.020	"							
Di-isopropyl ether	ND	0.0050	"							
1,2-Dibromoethane (EDB)	ND	0.0050	"							
1,2-Dichloroethane	ND	0.0050	"							
Ethanol	ND	0.10	"							
Ethyl tert-butyl ether	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Methyl tert-butyl ether	ND	0.0050	"							
Toluene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00502</i>		<i>"</i>	<i>0.00500</i>		<i>100</i>	<i>50-135</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00552</i>		<i>"</i>	<i>0.00500</i>		<i>110</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00490</i>		<i>"</i>	<i>0.00500</i>		<i>98</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00472</i>		<i>"</i>	<i>0.00500</i>		<i>94</i>	<i>60-125</i>			

**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			
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			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00524</i>		<i>"</i>	<i>0.00500</i>		<i>105</i>	<i>50-135</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00558</i>		<i>"</i>	<i>0.00500</i>		<i>112</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00510</i>		<i>"</i>	<i>0.00500</i>		<i>102</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00532</i>		<i>"</i>	<i>0.00500</i>		<i>106</i>	<i>60-125</i>			

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Project Manager: Jay Johnson

MQK0636  
Reported:  
12/05/07 15:10

**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
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**Batch 7L04043 - EPA 5030B P/T / EPA 8260B**

<b>Matrix Spike (7L04043-MS1)</b>	<b>Source: MQL0021-03</b>			<b>Prepared: 12/04/07 Analyzed: 12/05/07</b>						
tert-Amyl methyl ether	0.0224	0.0050	mg/kg	0.0200	ND	112	65-140			
Benzene	0.0225	0.0050	"	0.0200	ND	113	65-145			
tert-Butyl alcohol	0.410	0.020	"	0.400	ND	102	70-130			
Di-isopropyl ether	0.0238	0.0050	"	0.0200	ND	119	65-145			
1,2-Dibromoethane (EDB)	0.0236	0.0050	"	0.0200	ND	118	60-150			
1,2-Dichloroethane	0.0250	0.0050	"	0.0200	ND	125	60-140			
Ethanol	0.465	0.10	"	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	"	0.0200	ND	111	60-150			
Toluene	0.0212	0.0050	"	0.0200	0.000400	104	65-140			
Xylenes (total)	0.0688	0.0050	"	0.0600	0.000220	114	70-145			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00540</i>		<i>"</i>	<i>0.00500</i>		<i>108</i>	<i>50-135</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00546</i>		<i>"</i>	<i>0.00500</i>		<i>109</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00506</i>		<i>"</i>	<i>0.00500</i>		<i>101</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00510</i>		<i>"</i>	<i>0.00500</i>		<i>102</i>	<i>60-125</i>			

<b>Matrix Spike Dup (7L04043-MSD1)</b>	<b>Source: MQL0021-03</b>			<b>Prepared: 12/04/07 Analyzed: 12/05/07</b>						
tert-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	
tert-Butyl alcohol	0.375	0.020	"	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	"	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	"	0.0200	ND	107	75-140	8	30	
Methyl tert-butyl ether	0.0209	0.0050	"	0.0200	ND	104	60-150	6	25	
Toluene	0.0201	0.0050	"	0.0200	0.000400	99	65-140	5	25	
Xylenes (total)	0.0645	0.0050	"	0.0600	0.000220	107	70-145	6	30	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00558</i>		<i>"</i>	<i>0.00500</i>		<i>112</i>	<i>50-135</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00534</i>		<i>"</i>	<i>0.00500</i>		<i>107</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00516</i>		<i>"</i>	<i>0.00500</i>		<i>103</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00514</i>		<i>"</i>	<i>0.00500</i>		<i>103</i>	<i>60-125</i>			

TestAmerica - Morgan Hill, CA

*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.*

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

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 - Quality Control**  
**TestAmerica - Morgan Hill, CA**

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

**Batch 7K26008 - General Preparation / SM2540G**

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

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

Project: BP Heritage #11117, Oakland, CA  
Project Number: G07TK-0035  
Project Manager: Jay Johnson

MQK0636  
Reported:  
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  
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

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](mailto: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](http://www.testamericainc.com) [www.stl-inc.com](http://www.stl-inc.com)

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11/26/2007

FBO # 118830881

# Atlantic Richfield Company

A BP affiliated company

## Chain of Custody Record

Project Name: ARCO 1117  
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > 1117  
 State or Lead Regulatory Agency: ALAMEDA COUNTY  
 Requested Due Date (mm/dd/yy): \_\_\_\_\_

Page 1 of 1

On-site Time: <u>0700</u>	Temp: <u>58</u>
Off-site Time: <u>1430</u>	Temp: <u>60</u>
Sky Conditions: <u>Partly Cloudy</u>	
Meteorological Events: _____	
Wind Speed: _____	Direction: _____

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>1117</u>	Consultant/Contractor: <u>Status Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>7210 BRANFLET AVENUE</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long: <u>ORLANDO, CA</u>	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600100201</u>	Consultant/Contractor Project No.: _____
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: <u>G07TK-0035</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>01 - ASSESSMENT</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayas@stratusinc.net</u>
Tele/Fax: <u>925-275-3506</u>	Cost Element: <u>01-Contractor labor</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative				Requested Analysis						Sample Point Lat/Long and Comments			
				Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	GPDA	BUTYL	1/2 DIA	SO <sub>4</sub> <sup>2-</sup>	NO <sub>3</sub> <sup>-</sup>		NO <sub>2</sub> <sup>-</sup>	EDS	LEAD
1	DPE-1 5'	1240	11/19/07	X			M060636	1	X					X	X	X						
2	DPE-1 10'	1245					02	1						X	X	X						STANDARD TAT
3	DPE-1 15'	1250					03	1														
4	DPE-1 20'	1255					04	1														SO <sub>4</sub> ⇒ DPE
5	DPE-1 25'	1300					05	1														TAME
6	DPE-1 30'	1305					06	1														ETBE
7	DPE-1 35'	1310					07	1														MIBZ
8	DPE-1 40'	1315	V	V			08	1	V					V	V	V						TBA
9																						
10																						

Sampler's Name: <u>Colin Fischer</u>	Reimprinted By/Affiliation: <u>Paul Miller</u>	Date: <u>11/20/07</u>	Time: <u>1900</u>	Accepted By/Affiliation: <u>JULIEN TAMM</u>	Date: <u>11/20/07</u>	Time: <u>1053</u>
Sampler's Company: <u>STATUS ENVIRONMENTAL, INC.</u>						
Shipment Date: <u>11-19-07</u>						
Shipment Method: _____						
Shipment Tracking No.: _____						

Special Instructions: Please cc results to rmliller@broadbentinc.com

Custody Seals In Place:  Yes /  No | Temp Blank:  Yes /  No | Cooler Temp on Receipt: 5.0°C | Trip Blank:  Yes /  No | MS/MSD Sample Submitted:  Yes /  No

11/20/07 @ 12:08 Analyze DPE-1-25' & DPE-1-35' only L/R



A BP affiliated company

### Chain of Custody Record

Project Name: ARCO 1117  
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > 1117  
 State or Lead Regulatory Agency: ALAMEDA COUNTY  
 Requested Due Date (mm/dd/yy): \_\_\_\_\_

On-site Time: <u>0700</u>	Temp: <u>58</u>
Off-site Time: <u>1430</u>	Temp: <u>60</u>
Sky Conditions: <u>Partly Cloudy</u>	
Meteorological Events: _____	
Wind Speed: _____	Direction: _____

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>1117</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>7210 BANKROFT AVENUE</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long: <u>OAKLAND, CA.</u>	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600100201</u>	Consultant/Contractor Project No.: _____
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: _____	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>01 - ASSESSMENT</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-275-3506</u>	Cost Element: <u>01-Contractor labor</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Sample Point Lat/Long and Comments					
				Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	GP0	BP/AR	1/2 DCA	SO <sub>4</sub> <sup>2-</sup>	EDS		ETOH				
1	DPE-1 5'	1240	11/17/07	X			M&K086	01	X															
2	DPE-1 10'	1245					02	1																STANDARD TAT
3	DPE-1 15'	1250					03	1																
4	DPE-1 20'	1255					04	1																SO <sub>4</sub> ⇒ DPE
5	DPE-1 25'	1300					05	1																TAMH
6	DPE-1 30'	1305					06	1																ETBR
7	DPE-1 35'	1310					07	1																MISE
8	DPE-1 40'	1315		↓	↓		08	1	↓															TBA
9																								
10																								

Sampler's Name: <u>Colin Fischer</u>	Relinquished By / Affiliation: <u>David [Signature]</u>	Date: <u>11/20/07</u>	Time: <u>1900</u>	Accepted By / Affiliation: <u>Julie N. TAMH</u>	Date: <u>11/20/07</u>	Time: <u>1053</u>
Sampler's Company: <u>STRATUS ENV. INC.</u>						
Shipment Date: <u>11-19-07</u>						
Shipment Method: _____						
Shipment Tracking No.: _____						

Special Instructions: Please cc results to rmiller@broadbentinc.com # 11/20/07 @ 12:08 Analyze DPE-1-25' & DPE-1-35' only LR

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 5.0 °C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

11/30/07

1053

**FedEx** US Airbill  
Express

FedEx Tracking Number **8606 8478 7052**

Recipient's Copy

1 From **[Redacted]**

Date **11-11-07**

Sender's Name **Star-Tech Services, Inc.** Phone **301-610-8201**

Company \_\_\_\_\_

Address **3330 Rockledge Ave** Dept./Floor/Box/Room \_\_\_\_\_

City **Rockledge** State **FL** ZIP **32955**

2 Your Internal Billing Reference \_\_\_\_\_

3 To Recipient's Name **TRSE, INC** Phone **407-762-4306**

Company **TRSE, INC**

Recipient's Address **865 J Street** Dept./Floor/Box/Room \_\_\_\_\_

Address \_\_\_\_\_  
This is not a postbox. It is not a specific FedEx location, post office or mail room.

City **Abbeville** State **GA** ZIP **31507**

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First business day, 8:00 a.m. to 7:00 p.m. Monday through Saturday. Delivery by 8:00 a.m.
- FedEx 2Day  
Second business day, 7:00 a.m. to 7:00 p.m. Monday through Saturday. Delivery by 12:00 p.m.
- FedEx Express Saver  
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- FedEx 1Day Freight<sup>SM</sup>  
Next business day, 7:00 a.m. to 7:00 p.m. Monday through Saturday. Delivery by 12:00 p.m.
- FedEx 2Day Freight<sup>SM</sup>  
Second business day, 7:00 a.m. to 7:00 p.m. Monday through Saturday. Delivery by 12:00 p.m.
- FedEx 3Day Freight<sup>SM</sup>  
Third business day, 7:00 a.m. to 7:00 p.m. Monday through Saturday. Delivery by 12:00 p.m.

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Total Packages	Total Weight	Total Declared Value <sup>SM</sup>	Total Charges <sup>SM</sup>
1		\$ 0.00	

8 NEW Residential Delivery Signature Options

- No Signature Required  
Package may be left with no signature required.
- Direct Signature  
Recipient or authorized person may sign for delivery.
- Indirect Signature  
Someone other than recipient or authorized person may sign for delivery.



8606 8478 7052

fedex.com 1.800.GoFedEx



## TEST AMERICA SAMPLE RECEIPT LOG

**CLIENT NAME:** ARCO 1117  
**REC. BY (PRINT):** JULIE N.  
**WORKORDER:** MRK0036

**DATE REC'D AT LAB:** 11/20/07  
**TIME REC'D AT LAB:** 1053  
**DATE LOGGED IN:** 11/20/07

**For Regulatory Purposes?**  
 DRINKING WATER  
 WASTE WATER  
 OTHER SOIL

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) <input checked="" type="radio"/> Present / <input type="radio"/> Absent <input type="radio"/> Intact / <input type="radio"/> Broken*								
2. Chain-of-Custody <input checked="" type="radio"/> Present / <input type="radio"/> Absent*								
3. Traffic Reports or Packing List: <input checked="" type="radio"/> Present / <input type="radio"/> Absent*								
4. Airbill: <input type="radio"/> Airbill / <input type="radio"/> Sticker <input checked="" type="radio"/> Present / <input type="radio"/> Absent								
5. Airbill #: <u>SEE ATTACHED</u>								
6. Sample Labels: <input checked="" type="radio"/> Present / <input type="radio"/> Absent								* Metal cores
7. Sample IDs: <input checked="" type="radio"/> Listed / <input type="radio"/> Not Listed on Chain-of-Custody								
8. Sample Condition: <input type="radio"/> Intact / <input type="radio"/> Broken* / <input type="radio"/> Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="radio"/> Yes / <input type="radio"/> No*								
10. Sample received within hold time? <input checked="" type="radio"/> Yes / <input type="radio"/> No*								
11. Adequate sample volume received? <input checked="" type="radio"/> Yes / <input type="radio"/> No*								
12. Proper preservatives used? <input checked="" type="radio"/> Yes / <input type="radio"/> No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes) <input checked="" type="radio"/> Yes / <input type="radio"/> No*								
14. Read Temp: <u>6.8°C</u> Correction Factor: <u>-1.0°C</u> Corrected Temp: <u>5.8°C</u> Is corrected temp. 0-6°C? <input checked="" type="radio"/> Yes / <input type="radio"/> No**								
**Exception (if any): Metals / Perchlorate DFF on Ice or Problem COC								

JULIE N. SEE COC 11/20/07

FED EX # 11002001

# Atlantic Richfield Company

bp  
A BP affiliated company

## Chain of Custody Record

Project Name: ARCO 1117  
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > 1117  
 State or Lead Regulatory Agency: ALAMEDA County  
 Requested Due Date (mm/dd/yy): \_\_\_\_\_

On-site Time: 0700 Temp: 55  
 Off-site Time: 1430 Temp: 60  
 Sky Conditions: Partly Cloudy  
 Meteorological Events: \_\_\_\_\_  
 Wind Speed: \_\_\_\_\_ Direction: \_\_\_\_\_

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>1117</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>7210 BANCROFT AVENUE</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
Morgan Hill, CA 95937	Site Lat/Long: <u>OAKLAND, CA.</u>	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600100201</u>	Consultant/Contractor Project No.: _____
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: _____	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>01-ASSESSMENT</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-275-3506</u>	Cost Element: <u>01-Contractor labor</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis						Sample Point Lat/Long and Comments							
				Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	GUPO	BTEX	1/2 DCA	SO <sub>2</sub>	DURE	THALE		NOBE	ETBA	TBA	EGB	ETOH		
1	DPE-1 5'	1240	11/17	X				X						X	X	X	X										
2	DPE-1 10'	1245												X	X	X	X									STANDARD TAT	
3	DPE-1 15'	1250												X	X	X	X										
4	DPE-1 20'	1255												X	X	X	X									SO <sub>2</sub> => DPE	
5	DPE-1 25'	1300												X	X	X	X									TALUE	
6	DPE-1 30'	1305												X	X	X	X									ETBE	
7	DPE-1 35'	1310												X	X	X	X									MTBE	
8	DPE-1 40'	1315	V	V				1						X	X	X	X									TBA	
9																											
10																											

Sampler's Name: Collin Fischer  
 Sampler's Company: STRATUS ENV. INC.  
 Shipment Date: 11-17-07  
 Shipment Method: \_\_\_\_\_  
 Shipment Tracking No: \_\_\_\_\_

Relinquished By / Affiliation: <u>Paul Supple</u>	Date: <u>11-17-07</u>	Time: <u>1900</u>	Accepted By / Affiliation: _____	Date: _____	Time: _____
---	-----------------------	-------------------	----------------------------------	-------------	-------------

Special Instructions: Please cc results to rmiller@broadbentinc.com

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]  
3330 Cameron Park Dr., Suite 550  
Cameron Park CA, 95682

Project: BP Heritage #11117, Oakland, CA  
Project Number: G07TK-0035  
Project Manager: Jay Johnson

MQK0830  
Reported:  
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.

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

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**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>DPE-2 20' (MQK0830-01) Soil Sampled: 11/21/07 09:10 Received: 11/29/07 09:35</b>									
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 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	50-135		"	"	"	"	
Surrogate: Toluene-d8		96 %	70-120		"	"	"	"	
<b>DPE-2 30' (MQK0830-02) Soil Sampled: 11/21/07 09:30 Received: 11/29/07 09:35</b>									
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 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		95 %	50-135		"	"	"	"	
Surrogate: Toluene-d8		95 %	70-120		"	"	"	"	
<b>DPE-5 20' (MQK0830-03) Soil Sampled: 11/21/07 13:20 Received: 11/29/07 09:35</b>									
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 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	50-135		"	"	"	"	
Surrogate: Toluene-d8		98 %	70-120		"	"	"	"	
<b>DPE-5 35' (MQK0830-04) Soil Sampled: 11/21/07 13:50 Received: 11/29/07 09:35</b>									
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 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		91 %	50-135		"	"	"	"	
Surrogate: Toluene-d8		100 %	70-120		"	"	"	"	

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

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	Notes
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**DPE-2 20' (MQK0830-01) Soil Sampled: 11/21/07 09:10 Received: 11/29/07 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	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		86 %	50-135		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92 %	65-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		85 %	70-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		85 %	60-125		"	"	"	"	

**DPE-2 30' (MQK0830-02) Soil Sampled: 11/21/07 09:30 Received: 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	"	"	"	"	"	"	
tert-Butyl alcohol	ND	500	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>12</b>	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>26</b>	5.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		95 %	50-135		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	65-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		95 %	70-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96 %	60-125		"	"	"	"	

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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	Notes
<b>DPE-5 20' (MQK0830-03) Soil Sampled: 11/21/07 13:20 Received: 11/29/07 09:35</b>									
tert-Amyl methyl ether	ND	2.5	mg/kg	100	7K21038	11/29/07	12/01/07	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	500	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>31</b>	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<b>Toluene</b>	<b>14</b>	5.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>150</b>	5.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %	50-135		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	65-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98 %	70-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96 %	60-125		"	"	"	"	
<b>DPE-5 35' (MQK0830-04) Soil Sampled: 11/21/07 13:50 Received: 11/29/07 09:35</b>									
tert-Amyl methyl ether	<b>0.012</b>	0.0050	mg/kg	1	7K30039	11/29/07	11/30/07	EPA 8260B	
tert-Butyl alcohol	<b>0.61</b>	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.085</b>	0.0050	"	"	"	"	"	"	BB
<b>Toluene</b>	<b>0.011</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.12</b>	0.0050	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		91 %	50-135		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95 %	65-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	70-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	60-125		"	"	"	"	
<b>Benzene</b>	<b>0.41</b>	0.050	"	"	7K21038	"	12/01/07	"	
<b>Methyl tert-butyl ether</b>	<b>3.9</b>	0.025	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		92 %	50-135		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %	65-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94 %	70-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93 %	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.

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

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
<b>DPE-2 20' (MQK0830-01) Soil    Sampled: 11/21/07 09:10    Received: 11/29/07 09:35</b>									
Percent Solids	81	1.0	%	1	7K30001	11/29/07	11/30/07	SM2540G	
<b>DPE-2 30' (MQK0830-02) Soil    Sampled: 11/21/07 09:30    Received: 11/29/07 09:35</b>									
Percent Solids	86	1.0	%	1	7K30001	11/29/07	11/30/07	SM2540G	
<b>DPE-5 20' (MQK0830-03) Soil    Sampled: 11/21/07 13:20    Received: 11/29/07 09:35</b>									
Percent Solids	84	1.0	%	1	7K30001	11/29/07	11/30/07	SM2540G	
<b>DPE-5 35' (MQK0830-04) Soil    Sampled: 11/21/07 13:50    Received: 11/29/07 09:35</b>									
Percent Solids	77	1.0	%	1	7K30001	11/29/07	11/30/07	SM2540G	



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MQK0830  
Reported:  
12/13/07 10:20

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 7K21038 - EPA 5030B/5035A MeOH / LUFT GCMS**

**Blank (7K21038-BLK1)**

Prepared & Analyzed: 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 (7K21038-BS2)**

Prepared & Analyzed: 12/01/07

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 (7K21038-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			

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Cameron Park CA, 95682

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) - Quality Control**  
**TestAmerica Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 7K30039 - EPA 5030B P/T / LUFT GCMS**

**Laboratory Control Sample (7K30039-BS2)**

Prepared & Analyzed: 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	"		0.00500	99	50-135				
Surrogate: Toluene-d8	0.00496	"		0.00500	99	70-120				

**Laboratory Control Sample Dup (7K30039-BSD2)**

Prepared & Analyzed: 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	"		0.00500	98	65-135				
Surrogate: 4-Bromofluorobenzene	0.00516	"		0.00500	103	60-125				
Surrogate: Dibromofluoromethane	0.00468	"		0.00500	94	50-135				
Surrogate: Toluene-d8	0.00502	"		0.00500	100	70-120				

**Matrix Spike (7K30039-MS1)**

Source: MQK0830-04

Prepared & Analyzed: 11/30/07

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: MQK0830-04

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				

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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
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**Batch 7K21038 - EPA 5030B/5035A MeOH / EPA 8260B**

**Blank (7K21038-BLK1)**

Prepared & Analyzed: 12/01/07

tert-Amyl methyl ether	ND	0.025	mg/kg							
Benzene	ND	0.050	"							
tert-Butyl alcohol	ND	5.0	"							
Di-isopropyl ether	ND	0.025	"							
1,2-Dibromoethane (EDB)	ND	0.025	"							
1,2-Dichloroethane	ND	0.025	"							
Ethanol	ND	10	"							
Ethyl tert-butyl ether	ND	0.025	"							
Ethylbenzene	ND	0.050	"							
Methyl tert-butyl ether	ND	0.025	"							
Toluene	ND	0.050	"							
Xylenes (total)	ND	0.050	"							
<i>Surrogate: Dibromofluoromethane</i>	0.00228		"	0.00250		91	50-135			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.00259		"	0.00250		104	65-135			
<i>Surrogate: Toluene-d8</i>	0.00227		"	0.00250		91	70-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.00229		"	0.00250		92	60-125			

**Laboratory Control Sample (7K21038-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	"	1.00		103	75-125			
tert-Butyl alcohol	20.3	5.0	"	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	"	1.00		102	75-140			
1,2-Dichloroethane	1.02	0.025	"	1.00		102	70-135			
Ethanol	15.9	10	"	20.0		80	45-150			
Ethyl tert-butyl ether	1.11	0.025	"	1.00		111	65-140			
Ethylbenzene	1.02	0.050	"	1.00		102	75-130			
Methyl tert-butyl ether	1.12	0.025	"	1.00		112	60-140			
Toluene	1.01	0.050	"	1.00		101	75-135			
Xylenes (total)	3.20	0.050	"	3.00		107	75-135			
<i>Surrogate: Dibromofluoromethane</i>	0.00242		"	0.00250		97	50-135			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.00261		"	0.00250		104	65-135			
<i>Surrogate: Toluene-d8</i>	0.00235		"	0.00250		94	70-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.00239		"	0.00250		96	60-125			

TestAmerica Morgan Hill

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3330 Cameron Park Dr., Suite 550  
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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
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**Batch 7K21038 - EPA 5030B/5035A MeOH / EPA 8260B**

**Laboratory Control Sample Dup (7K21038-BSD1)**

Prepared & Analyzed: 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	"	1.00	109	75-125	6	25	
tert-Butyl alcohol	20.5	5.0	"	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	"	1.00	104	75-140	2	30	
1,2-Dichloroethane	1.04	0.025	"	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	1	30	
Ethylbenzene	1.09	0.050	"	1.00	109	75-130	7	30	
Methyl tert-butyl ether	1.03	0.025	"	1.00	103	60-140	8	25	
Toluene	1.08	0.050	"	1.00	108	75-135	6	25	
Xylenes (total)	3.34	0.050	"	3.00	111	75-135	4	30	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00240</i>		<i>"</i>	<i>0.00250</i>	<i>96</i>	<i>50-135</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00248</i>		<i>"</i>	<i>0.00250</i>	<i>99</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00235</i>		<i>"</i>	<i>0.00250</i>	<i>94</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00233</i>		<i>"</i>	<i>0.00250</i>	<i>93</i>	<i>60-125</i>			

**Batch 7K30039 - EPA 5030B P/T / EPA 8260B**

**Blank (7K30039-BLK1)**

Prepared: 11/27/07 Analyzed: 11/30/07

tert-Amyl methyl ether	ND	0.0050	mg/kg						
Benzene	ND	0.0050	"						
tert-Butyl alcohol	ND	0.020	"						
Di-isopropyl ether	ND	0.0050	"						
1,2-Dibromoethane (EDB)	ND	0.0050	"						
1,2-Dichloroethane	ND	0.0050	"						
Ethanol	ND	0.10	"						
Ethyl tert-butyl ether	ND	0.0050	"						
Ethylbenzene	ND	0.0050	"						
Methyl tert-butyl ether	ND	0.0050	"						
Toluene	ND	0.0050	"						
Xylenes (total)	ND	0.0050	"						
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00486</i>		<i>"</i>	<i>0.00500</i>	<i>97</i>	<i>50-135</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00504</i>		<i>"</i>	<i>0.00500</i>	<i>101</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00496</i>		<i>"</i>	<i>0.00500</i>	<i>99</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00456</i>		<i>"</i>	<i>0.00500</i>	<i>91</i>	<i>60-125</i>			

TestAmerica Morgan Hill

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

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
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**Batch 7K30039 - EPA 5030B P/T / EPA 8260B**

**Laboratory Control Sample (7K30039-BS1)**

Prepared & Analyzed: 11/30/07

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			
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-Dibromoethane (EDB)	0.0223	0.0050	"	0.0200		112	75-140			
1,2-Dichloroethane	0.0225	0.0050	"	0.0200		113	70-135			
Ethanol	0.409	0.10	"	0.400		102	45-150			
Ethyl tert-butyl ether	0.0231	0.0050	"	0.0200		116	65-140			
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			
Xylenes (total)	0.0688	0.0050	"	0.0600		115	75-135			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00508</i>		"	<i>0.00500</i>		<i>102</i>	<i>50-135</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00502</i>		"	<i>0.00500</i>		<i>100</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00502</i>		"	<i>0.00500</i>		<i>100</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00512</i>		"	<i>0.00500</i>		<i>102</i>	<i>60-125</i>			

**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, EY
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	0.00182	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			BB
Methyl tert-butyl ether	1.38	0.0050	"	0.0200	1.38	3	60-150			BB, EY
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			BB
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00490</i>		"	<i>0.00500</i>		<i>98</i>	<i>50-135</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00466</i>		"	<i>0.00500</i>		<i>93</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00494</i>		"	<i>0.00500</i>		<i>99</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00510</i>		"	<i>0.00500</i>		<i>102</i>	<i>60-125</i>			

TestAmerica Morgan Hill

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

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
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**Batch 7K30039 - EPA 5030B P/T / EPA 8260B**

Matrix Spike Dup (7K30039-MSD1)	Source: MQK0830-04	Prepared: 11/30/07	Analyzed: 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	"	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	"	0.0200	ND	111	60-150	2	30	
1,2-Dichloroethane	0.0241	0.0050	"	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	"	0.0200	0.000640	116	65-150	2	30	
Ethylbenzene	0.189	0.0050	"	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	"	0.0200	0.0108	158	65-140	9	25	LM,AY
Xylenes (total)	0.252	0.0050	"	0.0600	0.123	214	70-145	12	30	BB
Surrogate: Dibromofluoromethane	0.00484		"	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 / EPA 8260B**

Blank (7L03032-BLK1)	Prepared & Analyzed: 12/03/07									
tert-Amyl methyl ether	ND	0.0050	mg/kg							
Benzene	ND	0.0050	"							
tert-Butyl alcohol	ND	0.020	"							
Di-isopropyl ether	ND	0.0050	"							
1,2-Dibromoethane (EDB)	ND	0.0050	"							
1,2-Dichloroethane	ND	0.0050	"							
Ethanol	ND	0.10	"							
Ethyl tert-butyl ether	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Methyl tert-butyl ether	ND	0.0050	"							
Toluene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Surrogate: Dibromofluoromethane	0.00454		"	0.00500		91	50-135			
Surrogate: 1,2-Dichloroethane-d4	0.00480		"	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

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

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
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**Batch 7L03032 - EPA 5030B P/T / EPA 8260B**

**Laboratory Control Sample (7L03032-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	"	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	"	0.0200		93	75-140			
1,2-Dichloroethane	0.0171	0.0050	"	0.0200		86	70-135			
Ethanol	0.393	0.10	"	0.400		98	45-150			
Ethyl tert-butyl ether	0.0176	0.0050	"	0.0200		88	65-140			
Ethylbenzene	0.0203	0.0050	"	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	"	0.0600		101	75-135			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00444</i>		<i>"</i>	<i>0.00500</i>		<i>89</i>	<i>50-135</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00422</i>		<i>"</i>	<i>0.00500</i>		<i>84</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00456</i>		<i>"</i>	<i>0.00500</i>		<i>91</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00462</i>		<i>"</i>	<i>0.00500</i>		<i>92</i>	<i>60-125</i>			

**Laboratory Control Sample Dup (7L03032-BSD1)**

Prepared & Analyzed: 12/03/07

tert-Amyl methyl ether	0.0175	0.0050	mg/kg	0.0200		88	65-145	8	25	
Benzene	0.0186	0.0050	"	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	"	0.0200		94	75-140	0.4	30	
1,2-Dichloroethane	0.0175	0.0050	"	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	"	0.0200		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	"	0.0200		87	60-140	1	25	
Toluene	0.0184	0.0050	"	0.0200		92	75-135	2	25	
Xylenes (total)	0.0588	0.0050	"	0.0600		98	75-135	3	30	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00458</i>		<i>"</i>	<i>0.00500</i>		<i>92</i>	<i>50-135</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00430</i>		<i>"</i>	<i>0.00500</i>		<i>86</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00472</i>		<i>"</i>	<i>0.00500</i>		<i>94</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00470</i>		<i>"</i>	<i>0.00500</i>		<i>94</i>	<i>60-125</i>			

TestAmerica Morgan Hill

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

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 - Quality Control**  
**TestAmerica Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 7K30001 - General Preparation / SM2540G**

<b>Blank (7K30001-BLK1)</b>				Prepared: 11/29/07 Analyzed: 11/30/07						
Percent Solids	ND	1.0	%							
<b>Duplicate (7K30001-DUP1)</b>				Prepared: 11/29/07 Analyzed: 11/30/07						
Percent Solids	84.0	1.0	%		84.2			0.2	20	



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

Project: BP Heritage #11117, Oakland, CA  
Project Number: G07TK-0035  
Project Manager: Jay Johnson

MQK0830  
Reported:  
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

**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

**REVISED**

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:  
[Lisa.Race@Testamericainc.com](mailto: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](http://www.testamericainc.com) [www.stl-inc.com](http://www.stl-inc.com)

12/6/2007

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**





**PROBLEM CHAIN-OF-CUSTODY**

MOK0830

DATE/TIME 11/29/07 0950

DATE RECEIVED 11/29/07

CLIENT ARCO

TURN AROUND TIME STD

CLIENT SERVICES REP LISA RACE

ANALYST JWIE

**PROBLEM**

1) RECEIVED SAMPLES PARTHOLD (SAMPLED 11/21/07)

2) RECEIVED TEMP. 11.2°C  
(COOLER STUFFED WITH BUBBLE WRAPS BUT NO ICE)

**RESOLUTION**

Client Instruction\* Continue metal analysis

Telephone Number of Client: e-mail / phone

Client Contact for Instruction: Scott Bittinger

Date and Time of Instruction: 11/29/07 @ 10:51 AM

Date & Time Form Given to Sample Control: 11/29/07

CLIENT SERVICES REP. SIGNATURE: 

DATE/TIME: 11/29/07

\*If client does not return call within 24 hours, please route this form to the Laboratory Director.

# FedEx US Airbill

Express

FedEx Tracking Number **8606 8479 7720**

**1 From**  
 Date 11/28/01  
 Sender's Name STATES ENVIRONMENTAL Phone 530 476-6644  
 Company STATES ENVIRONMENTAL  
 Address 3330 CRENSHAW PARK DR  
 City CRENSHAW PARK CA State CA Zip 95682

**2 Your Internal Billing Reference**

**3 To**  
 Recipient's Name LISA RICE Phone \_\_\_\_\_  
 Company TEST ACCIA  
 Recipient's Address 885 JONAS DR  
 City MORGAN HILL State CA Zip 95037



8606 8479 7720

fedex.com 1.800.GoFedEx 1.800.463.3338

## Recipient's Copy

**4a Express Package Service**

FedEx Priority Overnight  
 Packages up to 150 lbs.  
 FedEx First Overnight  
 Delivery available. Scheduling service available.

FedEx Standard Overnight  
 Packages up to 150 lbs.  
 FedEx First Overnight  
 Delivery available. Scheduling service available.

FedEx 2Day  
 Packages up to 150 lbs.  
 FedEx Express Saver  
 Packages up to 150 lbs.

**4b Express Freight Service**

FedEx 1Day Freight  
 Packages up to 150 lbs.  
 FedEx 2Day Freight  
 Packages up to 150 lbs.

**5 Packaging**

FedEx Envelope  
 FedEx Pak  
 FedEx Box  
 FedEx Tube  
 Other

**6 Special Handling**

SATURDAY Delivery  
 HOLD Monday at FedEx Location  
 HOLD Saturday at FedEx Location

Does this shipment contain dangerous goods?  
 No  
 Yes

Single Recipient  
 Recipient  
 Third Party  
 Credit Card  
 Cash/Check

**7 Payment \$/lb:**

Total Packages: \_\_\_\_\_ Total Weight: \_\_\_\_\_ Total Declared Value: \$ \_\_\_\_\_ Total Charges: \_\_\_\_\_

**8 NEW Residential Delivery Signature Options**

No Signature Required  
 Direct Signature  
 Indirect Signature

fedex.com 1.800.GoFedEx 1.800.463.3338

**520**

## TEST AMERICA SAMPLE RECEIPT LOG

**CLIENT NAME:** ARCO (1117)  
**REC. BY (PRINT):** JULIE N.  
**WORKORDER:** MAK0830

**DATE REC'D AT LAB:** 11/29/07  
**TIME REC'D AT LAB:** 0935  
**DATE LOGGED IN:** 11/29/07

**For Regulatory Purposes?**  
 DRINKING WATER  
 WASTE WATER  
 OTHER SOIL

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / Absent Intact / Broken*								
2. Chain-of-Custody Present / Absent*								
3. Traffic Reports or Packing List: Present / Absent								
4. Airbill: Airbill / Sticker Present / Absent								
5. Airbill #: <u>SEE ATTACHED</u>								
6. Sample Labels: Present / Absent								* Metal Cores
7. Sample IDs: Listed / Not Listed on Chain-of-Custody								
8. Sample Condition: Intact / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree? Yes / No*								
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? (circle which, if yes) Yes / No*								
14. Read Temp: <u>12.2°C</u> Correction Factor: <u>-1.0°C</u> Corrected Temp: <u>11.2°C</u> Is corrected temp. 0-6°C? Yes / No**								

\*\*Exception (if any): Metals / Perchlorate  
 DFF on Ice or Problem COC

JULIE N. 11/29/07  
 SEE COC



# 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: ALAMEDA COUNTY  
 Requested Due Date (mm/dd/yy): \_\_\_\_\_

On-site Time: 0700 Temp: 55  
 Off-site Time: \_\_\_\_\_ Temp: \_\_\_\_\_  
 Sky Conditions: Sunny  
 Meteorological Events: \_\_\_\_\_  
 Wind Speed: \_\_\_\_\_ Direction: \_\_\_\_\_

Lab Name: TestAmerica	BP/AR Facility No.: <u>1117</u>	Consultant/Contractor: Stratus Environmental, Inc.
Address: 885 Jarvis Drive	BP/AR Facility Address: <u>7210 BANCROFT AVE, OAKLAND</u>	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.: <u>706</u>	Consultant/Contractor Project No.: _____
Tele/Fax: 408-782-8156 408-782-6308 (fax)	Enfos Project No.: _____	Consultant/Contractor PM: Jay Johnson
BP/AR PM Contact: Paul Supple	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: (530) 676-6000 / (530) 676-6005
Address: 2010 Crow Canyon Place, Suite 150	Phase/WBS: <u>01 - ASSESSMENT</u>	Report Type & QC Level: Level 1 with EDF
San Ramon, CA	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: 925-275-3506	Cost Element: <u>01-Contractor labor</u>	Invoice to: Atlantic Richfield Co.

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis						Sample Point Lat/Long and Comments			
				Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	Crlo	BTEX	1/2 PCA	SO <sub>4</sub> *	EPB	ETOH				
1	DPE-2 20'	0910	12/17	X				X															
2	DPE-2 30'	0930		X				X															STANDARD TAT
3	DPE-5 20'	1320		X				X															
4	DPE-5 35'	1350	V	X				X															*SO <sub>4</sub> = DLPE TAME ETBE MTBE TBA
5																							
6																							
7																							
8																							
9																							
10																							

Sampler's Name: Collin Foshee  
 Sampler's Company: STRATUS ENV., INC.  
 Shipment Date: \_\_\_\_\_  
 Shipment Method: \_\_\_\_\_  
 Shipment Tracking No: \_\_\_\_\_

Relinquished By / Affiliation <u>Daniel D'Amico / Stratus</u>	Date <u>11/28/2007</u>	Time <u>7</u>	Accepted By / Affiliation	Date	Time
--	---------------------------	------------------	---------------------------	------	------

Special Instructions: Please cc results to rmiller@broadbentinc.com



3330 Cameron Park Drive, Ste 550  
Cameron Park, California 95682  
(530) 676-6004 ~ Fax: (530) 676-6005

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.

Sincerely,

**STRATUS ENVIRONMENTAL, INC.**

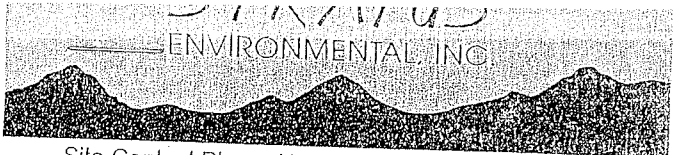
Jay R. Johnson, P.G.  
Project Manager



**Attachments:**

- Field Data Sheets
- Non-Hazardous Waste Data Form

cc: Mr. Paul Supple, BP/ARCO



Site Address: 7210 Bancroft Ave.  
 City: Oakland CA  
 Sampled By: G. Wilkins / V. Zalutka  
 Developed

Site Number: ARCO 11117  
 Project No. E11117  
 Project PM Jay Johnson  
 Date Sampled 12-11-07

Site Contact Phone No.

ORIGINAL

Water Level Data				Purge Volume Calculations					Well Purge Method				Sample Record			Field Data	
Well ID	Time	Depth to water feet	Top of Screen feet	Total Depth of Well feet	Casing Water Column (A)	Well Diameter (inches)	Multiplier Value (B)	Free Casing Volumes (gallons)	Actual Water Purged (gallons)	No Purge	Bailer	Pump	Other	DTW At Sample Time	Sample I.D.	Sample Time	Dissolved Oxygen (mg/L)
DPE-1	0456	21.62		39.85	18.23	4	6.6	120.31	120		X	X	DTB	39.80	DPE-1		
DPE-2	1121	20.33		40.09	19.75	4	6.6	130.35	130		X	X	DTB	21.11			
DPE-3	0830	20.67		39.62	18.95	4	6.6	125.07	45		X	X	DTB 39.79	N/M			
DPE-4	1210	21.27		40.03	18.76	4	6.6	123.82	124				DTB 40.07				
DPE-5	0651	21.05		36.10	15.05	4	6.6	99.33	99		X	X	DTB 39.70	25.10			
MW-11	0938	19.06		35.26	16.20	4	6.6	106.92	107		X	X	DTB 37.70	29.80			
Wells Surged with Bailer -																	

625 gal

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

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



NO. 685446

# NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR	SITE:		EPA I.D. NO.	NOT REQUIRED	
	NAME <u>BP WEST COAST PRODUCTS LLC ARCO # 1117</u>		PROFILE NO.		
	ADDRESS <u>P.O. BOX 80249</u> <u>RANCHO SANTA MARGARITA</u>				
	CITY, STATE, ZIP <u>CA 92588</u>		PHONE NO. ( ) _____		
CONTAINERS: No. _____		VOLUME <u>625 gal</u>	WEIGHT _____		
TYPE: <input type="checkbox"/> TANK TRUCK <input type="checkbox"/> DUMP TRUCK <input type="checkbox"/> DRUMS <input type="checkbox"/> CARTONS <input type="checkbox"/> OTHER _____					
WASTE DESCRIPTION: <u>NON-HAZARDOUS WATER</u>			GENERATING PROCESS: <u>WELL PURGING/DECON WATER</u>		
COMPONENTS OF WASTE			COMPONENTS OF WASTE		
PPM                      %			PPM                      %		
1. <u>WATER</u>	<u>99-100%</u>		5. _____		
2. <u>TPH</u>	<u>&lt;1%</u>		6. _____		
3. _____			7. <u>BESI#</u>		
4. _____			8. _____		
PROPERTIES: <u>7-10</u> pH <input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> SLUDGE <input type="checkbox"/> SLURRY <input type="checkbox"/> OTHER _____					
HANDLING INSTRUCTIONS: <u>WEAR ALL APPROPRIATE PROTECTIVE CLOTHING</u>					
THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.			<u>Larry Moothart BESI for BP</u> TYPED OR PRINTED FULL NAME & SIGNATURE                      DATE <u>12-11-07</u>		
TRANSPORTER	NAME <u>Transporter #1</u> <u>STRATUS ENVIRONMENTAL</u>		EPA I.D. NO.		
	ADDRESS <u>3300 CAMERON PARK DR</u>		SERVICE ORDER NO. _____		
	CITY, STATE, ZIP <u>CAMERON PARK, CA 95582</u>		PICK UP DATE _____		
	PHONE NO. <u>530-676-2081</u>				
TRUCK, UNIT, I.D. NO. _____		<u>Larry Moothart BESI for BP</u> TYPED OR PRINTED FULL NAME & SIGNATURE                      DATE <u>12-11-07</u>			
TSD FACILITY	NAME <u>SEAPORT REFINING &amp; ENVIRONMENTAL, LLC</u>		EPA I.D. NO.		
	ADDRESS <u>700 SEAPORT BLVD.</u>		DISPOSAL METHOD		
	CITY, STATE, ZIP <u>REDWOOD CITY, CA 94063</u>		<input type="checkbox"/> LANDFILL <input type="checkbox"/> OTHER _____		
	PHONE NO. <u>650-364-1024</u>				
		TYPED OR PRINTED FULL NAME & SIGNATURE                      DATE			
GEN	OLD/NEW	L	A	TONS	DISCREPANCY
TRANS		S	B		
C/Q		RT/CD	HWDF		

NO. 668529

# NON-HAZARDOUS WASTE DATA FORM

GENERATING SITE: EPA I.D. NO. [REDACTED]

NAME BP WEST COAST PRODUCTS, LLC FORMER ARCO 11117  
ADDRESS P.O. BOX 80249 7210 BANCROFT AVE PROFILE NO. [REDACTED]  
RANCHO SANTA MARGARITA, CA 92888 OAKLAND, CA 94605 PHONE NO. (849) 460 5200  
CITY, STATE, ZIP

CONTAINERS: No. 7 VOLUME 385 gallons WEIGHT \_\_\_\_\_

TYPE:  TANK TRUCK  DUMP TRUCK  DRUMS  CARTONS  OTHER \_\_\_\_\_

WASTE DESCRIPTION NON-HAZARDOUS WATER GENERATING PROCESS WELL PURGING / DECON WATER  
COMPONENTS OF WASTE PPM % COMPONENTS OF WASTE PPM %  
1. WATER 99-100% 5. \_\_\_\_\_  
2. TPH <1% 6. \_\_\_\_\_  
3. \_\_\_\_\_ 7. \_\_\_\_\_  
4. \_\_\_\_\_ 8. \_\_\_\_\_

PROPERTIES: pH 7-10  SOLID  LIQUID  SLUDGE  SLURRY  OTHER \_\_\_\_\_

HANDLING INSTRUCTIONS: 24-HOUR EMERGENCY PHONE: 800-424-9300

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

Larry Moothart of BESI on behalf of generator 1/4/08  
TYPED OR PRINTED FULL NAME & SIGNATURE DATE

NAME BELSHIRE EPA I.D. NO. [REDACTED]

ADDRESS 25971 TOWNE CENTRE DRIVE 1281 Brea Cyn Rd SERVICE ORDER NO. \_\_\_\_\_  
CITY, STATE, ZIP FOOTHILL RANCH, CA 92610 Brea Ca 92821 PICK UP DATE 1-8-08  
PHONE NO. (949) 460-5200 714-999-6355  
Photo SPWIS 1-8-08  
TRUCK, UNIT, I.D. NO. TYPED OR PRINTED FULL NAME & SIGNATURE DATE

NAME DEMENNO KERDOON EPA I.D. NO. [REDACTED]

ADDRESS 2000 N. ALAMEDA ST. DISPOSAL METHOD  LANDFILL  OTHER Recycler  
CITY, STATE, ZIP COMPTON, CA 90222  
PHONE NO. 310-537-7100

SPHAI D SUAY 1/8/08  
TYPED OR PRINTED FULL NAME & SIGNATURE DATE

GEN	OLD/NEW	L	A	TONS
TRANS		S	B	
C/Q		RT/CD	HWDF	NONE

DISCREPANCY

TO BE COMPLETED BY GENERATOR

TRANSPORTER

TSD FACILITY

**TPST Soil Recyclers of CA**  
Non-Hazardous Soils

Manifest

Invoice

Date of Shipment: 1 / 1	Responsible for Payment:	Transporter Truck #: 6221732	Facility #: A07	Given by TPST: 303671901	Load #: 1
----------------------------	--------------------------	---------------------------------	--------------------	-----------------------------	--------------

Generator's Name and Billing Address: <b>BP WEST COAST PRODUCTS, LLC</b> P.O. BOX 80249 RANCHO SANTA MARGARITA, CA 92688	Generator's Phone #: 949-460-5200	Generator's US EPA ID No.:
	Person to Contact:	
	FAX#:	Customer Account Number with TPST:

Consultant's Name and Billing Address:	Consultant's Phone #:	Customer Account Number with TPST:
	Person to Contact:	
	FAX#:	

Generation Site (Transport from): (name & address) <b>FORMER ARCO 11117</b> 7210 BANCROFT AVE OAKLAND, CA 94605	Site Phone #:	BTX Levels
	Person to Contact:	TPH Levels
	FAX#:	AVG. Levels

Designated Facility (Transport to): (name & address) <b>TPST SOIL RECYCLERS OF CALIFORNIA</b> 12328 HIBISCUS AVENUE ADELANTO, CA 92301	Facility Phone #: (800) 862-8001	Facility Permit Numbers
	Person to Contact: DELLENA JEFFREY	
	FAX#: (760) 246-8004	

Transporter Name and Mailing Address: <b>BELSHIRE</b> 25971 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92810 BESI: 147450	Transporter's Phone #: (949) 460-5200	Transporter's US EPA ID No.: CAR000183913
	Person to Contact: LARRY MOOTHART	Transporter's DOT No.: 450647
	FAX#: (949) 460-5210	Customer Account Number with TPST:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	40 DMS		45380	20000	23160
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					11.58

List any exception to items listed above: \_\_\_\_\_ Scale Ticket# 51391

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator <input type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date:	Month Day Year 1 14 08
--	---------------------	---------------------------

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Kevin Dunlop	Signature and date:	Month Day Year 01 14 08
----------------------------------	---------------------	----------------------------

Discrepancies: FAC# 11117  
ID# 342603

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL	Signature and date:	Month Day Year 1 14 08
---	---------------------	---------------------------

Please print or type

**APPENDIX B**

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





3330 Cameron Park Drive, Ste 550  
Cameron Park, California 95682  
(530) 676-6004 ~ Fax: (530) 676-6005

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

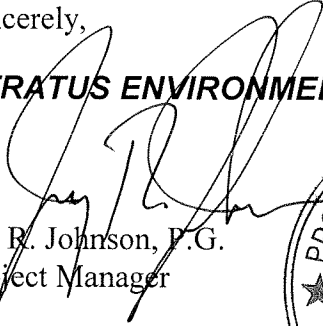
*Scope of Work Performed:* Quarterly monitoring and sampling

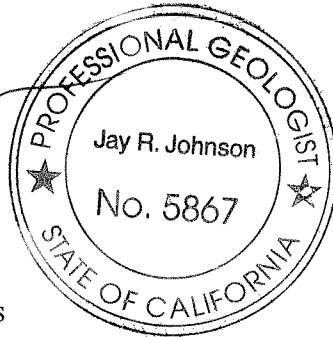
*Variations from Work Scope:* A sheen was noted in Well MW-4. Well EX-1 ran dry before three casing volumes were removed.

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.**

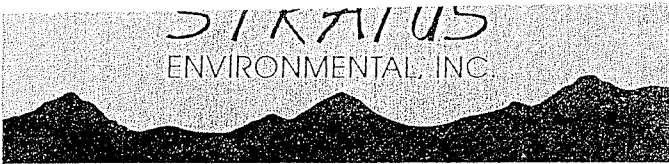
  
Jay R. Johnson, P.G.  
Project Manager



**Attachments:**

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

cc: Mr. Paul Supple, BP/ARCO



Site Address: 7210 Bancroft  
 City: OAKLAND, CA  
 Sampled By: D. DeMello

ORIGINAL

Site Number: ARCO 11117  
 Project No. E 11117  
 Project PM JAY JOHNSON  
 Date Sampled 11-09-07

Site Contact Phone No.

Water Level Data					Purge Volume Calculations					Well Purge Method				Sample Record			Field Data	
Well ID	Time	Depth to water feet	Top of Screen feet	Total Depth of Well feet	Casing Water Column (A)	Well Diameter (inches)	Multiplier Value (B)	Three Casing Volumes (gallons)	Actual Water Purged (gallons)	No Purge	Bailer	Pump	Other	DTW At Sample Time	Sample I.D.	Sample Time	Dissolved Oxygen (mg/L)	
MW-1	0555	20.00	20	36.28	-	2	.5	-	-						MW-1	N/S		
MW-2	0525	21.53	20	39.33	17.80	2	.5	8.90	9	X				21.81	MW-2	0929	1.65	
MW-3	0550	20.27	30	45.00	-	2	.5	-	-						MW-3	N/S		
MW-4	0535	21.27	20	39.56	18.29	2	.5	9.15	9	X				21.39	MW-4	1010	1.73	
MW-6	0600	20.70	20	39.28	-	2	.5	-	-						MW-6	N/S		
MW-7	0545	23.28	25	44.73	21.45	2	.5	10.73	11	X				31.69	MW-7	0735	2.13	
MW-8	0615	20.92	25	39.38	-	2	.5	-	-						MW-8	N/S		
MW-9	0625	21.67	25	38.90	-	2	.5	-	-						MW-9	N/S		
MW-10	0635	22.53	15	35.54	13.01	2	.5	6.5	6.5	X				27.09	MW-10	0655	1.83	
EX-1	0530	21.57	18	37.73	16.16	4	2	32.32	20		X	dry @ 20gal		35.62	EX-1	0930	1.50	
EX-2	0540	22.07	15	34.98	12.96	4	2	25.82	26		X			30.88	EX-2	0845	4.01	
TS-11117-110907-A-D															TB	0515		
									TOTAL	81.5								

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

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





Site Address 7210 BANCROFT  
 City OAKLAND, CA  
 Site Sampled by D. Demello

Site Number ARLO 1117  
 Project No. E1117  
 Project PM Jay Johnson  
 Date Sampled 11-09-07

ORIGINAL

Pg 1 of 1

Well ID <u>MW-10 0655</u>					Well ID <u>MW-7 0735</u>				
purge start time <u>Bailer No odor</u>					purge start time <u>Bailer No odor</u>				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>19.9</u>	<u>7.33</u>	<u>946</u>	<u>0</u>	time	<u>20.3</u>	<u>7.55</u>	<u>874</u>	<u>0</u>
time	<u>21.8</u>	<u>7.25</u>	<u>931</u>	<u>3.5</u>	time	<u>22.5</u>	<u>7.56</u>	<u>832</u>	<u>5</u>
time	<u>21.7</u>	<u>7.31</u>	<u>934</u>	<u>6.5</u>	time	<u>21.3</u>	<u>857</u>	<u>859</u>	<u>11</u>
time					time				
purge stop time <u>ORP (163)</u>					purge stop time <u>ORP (167)</u>				
Well ID <u>EX-2 0845</u>					Well ID <u>MW-2 0920</u>				
purge start time <u>0820 No odor</u>					purge start time <u>Bailer odor</u>				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>21.8</u>	<u>7.47</u>	<u>555</u>	<u>0</u>	time	<u>21.4</u>	<u>7.17</u>	<u>893</u>	
time	<u>22.1</u>	<u>7.41</u>	<u>744</u>	<u>13</u>	time	<u>21.8</u>	<u>7.10</u>	<u>870</u>	
time	<u>20.5</u>	<u>7.37</u>	<u>657</u>	<u>26</u>	time	<u>22.1</u>	<u>7.16</u>	<u>865</u>	
time					time				
purge stop time <u>0838 ORP (179)</u>					purge stop time <u>ORP (163)</u>				
Well ID <u>EX-1 0930</u>					Well ID <u>Sheen MW-4</u>				
purge start time <u>0905 odor</u>					purge start time <u>Bailer odor</u>				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>22.3</u>	<u>7.03</u>	<u>785</u>	<u>0</u>	time	<u>23.1</u>	<u>7.14</u>	<u>864</u>	<u>0</u>
time	<u>22.3</u>	<u>7.16</u>	<u>817</u>	<u>15</u>	time	<u>22.5</u>	<u>7.15</u>	<u>864</u>	<u>4.5</u>
time	<u>22.4</u>	<u>7.12</u>	<u>816</u>	<u>20</u>	time	<u>23.0</u>	<u>7.07</u>	<u>877</u>	<u>9</u>
time					time				
purge stop time <u>0920 ORP (67)</u>					purge stop time				
Well ID					Well ID				
purge start time					purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time					purge stop time				

40

DRY @ 20 gal



ORIGINAL

NO. 665091

# NON-HAZARDOUS WASTE DATA FORM

SITE

EPA I.D. NO.

NOT REQUIRED

NAME BP WEST COAST PRODUCTS LLC ARCO # 11117

ADDRESS P.O. BOX 80249 RANCHO SANTA MARGARITA CA 92688

PROFILE NO.

CITY, STATE, ZIP

PHONE NO. ( )

CONTAINERS: No. \_\_\_\_\_ VOLUME \_\_\_\_\_ WEIGHT \_\_\_\_\_

TYPE:  TANK TRUCK  DUMP TRUCK  DRUMS  CARTONS  OTHER

WASTE DESCRIPTION NON-HAZARDOUS WATER GENERATING PROCESS WELL PURGING/DECON WATER

COMPONENTS OF WASTE PPM % COMPONENTS OF WASTE PPM %

1. WATER 99-100% 5. \_\_\_\_\_

2. TPH <1% 6. \_\_\_\_\_

3. \_\_\_\_\_ 7. BESI#

4. \_\_\_\_\_ 8. \_\_\_\_\_

PROPERTIES: 7-10 pH  SOLID  LIQUID  SLUDGE  SLURRY  OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PROTECTIVE CLOTHING

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

Larry Moothart BESI for BP

TYPED OR PRINTED FULL NAME & SIGNATURE

DATE

TO BE COMPLETED BY GENERATOR

TRANSPORTER

NAME Transporter #1 STRATUS ENVIRONMENTAL

EPA I.D. NO.

ADDRESS 3350 CAMERON PARK DR

SERVICE ORDER NO. \_\_\_\_\_

CITY, STATE, ZIP CAMERON PARK, CA 95682

PICK UP DATE \_\_\_\_\_

PHONE NO. 530-676-2031

TRUCK, UNIT, I.D. NO. \_\_\_\_\_ TYPED OR PRINTED FULL NAME & SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

TSD FACILITY

NAME SEAPORT REFINING & ENVIRONMENTAL, LLC

EPA I.D. NO.

ADDRESS 700 SEAPORT BLVD.

DISPOSAL METHOD

CITY, STATE, ZIP REDWOOD CITY, CA 94063

LANDFILL  OTHER \_\_\_\_\_

PHONE NO. 650-354-1024

TYPED OR PRINTED FULL NAME & SIGNATURE

DATE

GEN	OLD/NEW	L	A	TONS
TRANS		S	B	
C/Q		RT/CD	HWDF	NONE

DISCREPANCY

## Chain of Custody Record

ORIGINAL

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: <u>0500</u>	Temp: <u>60's</u>
Off-site Time: <u>1030</u>	Temp: <u>70's</u>
Sky Conditions: <u>Clear</u>	
Meteorological Events: _____	
Wind Speed: _____	Direction: _____

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11117</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>7210 Bancroft, Oakland</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long: _____	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600100201</u>	Consultant/Contractor Project No.: _____
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: <u>G07TK-0029</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>04-Monitoring</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-275-3506</u>	Cost Element: <u>01-Contractor labor</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative				All by 8260 Requested Analysis				Sample Point Lat/Long and Comments *Oxy = MTBE, TAME, ETBE, DIPE, TBA
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	GRO/BTEX/Oxy*	1,2-DCA	Ethanol	
1	MW-2	0920	11/09	X			3			X		X	X	X	X		
2	MW-4	1010	11/09				6										
3	MW-7	0735					3										
4	MW-10	0655					3										
5	EX-1	0830					3										
6	EX-2	0845	4				3										
7																	
8	TB-11117-11092007	0515	11/09				2										
9																	
10																	

Sampler's Name: <u>David Demello</u>	Relinquished By / Affiliation: <u>David Demello / STRATUS ENVIRONMENTAL INC.</u>	Date: <u>11-09-07</u>	Time: <u>1215</u>	Accepted By / Affiliation: <u>Kim Nelson</u>	Date: <u>11-9-7</u>	Time: <u>12:20</u>
Sampler's Company: <u>STRATUS ENVIRONMENTAL INC.</u>						
Shipment Date: <u>11-09-07</u>						
Shipment Method: _____						
Shipment Tracking No: _____						

Special Instructions: Please cc results to rmiller@broadbentinc.com

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

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.



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

Project: BP Heritage #11117, Oakland, CA  
Project Number: G07TK-0029  
Project Manager: Jay Johnson

MQK0358  
Reported:  
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.

Stratus Environmental Inc. [Arco]  
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Cameron Park CA, 95682

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	Notes
<b>MW-2 (MQK0358-01) Water Sampled: 11/09/07 09:20 Received: 11/09/07 16:40</b>									
<b>Gasoline Range Organics (C4-C12)</b>	<b>49000</b>	<b>10000</b>	ug/l	200	7K15016	11/15/07	11/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		97 %	60-150		"	"	"	"	
Surrogate: Dibromofluoromethane		93 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		92 %	75-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88 %	55-130		"	"	"	"	
<b>MW-4 (MQK0358-02) Water Sampled: 11/09/07 10:10 Received: 11/09/07 16:40</b>									
<b>Gasoline Range Organics (C4-C12)</b>	<b>110000</b>	<b>10000</b>	ug/l	200	7K15016	11/15/07	11/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		100 %	60-150		"	"	"	"	
Surrogate: Dibromofluoromethane		90 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		95 %	75-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	55-130		"	"	"	"	
<b>MW-7 (MQK0358-03) Water Sampled: 11/09/07 07:35 Received: 11/09/07 16:40</b>									
<b>Gasoline Range Organics (C4-C12)</b>	<b>61</b>	<b>50</b>	ug/l	1	7K15016	11/15/07	11/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		102 %	60-150		"	"	"	"	
Surrogate: Dibromofluoromethane		94 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		92 %	75-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89 %	55-130		"	"	"	"	
<b>MW-10 (MQK0358-04) Water Sampled: 11/09/07 06:55 Received: 11/09/07 16:40</b>									
<b>Gasoline Range Organics (C4-C12)</b>	<b>1100</b>	<b>200</b>	ug/l	4	7K16001	11/16/07	11/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-150		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		96 %	75-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93 %	55-130		"	"	"	"	

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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	Notes
<b>EX-1 (MQK0358-05) Water Sampled: 11/09/07 09:30 Received: 11/09/07 16:40</b>									
<b>Gasoline Range Organics (C4-C12)</b>	<b>5300</b>	<b>1000</b>	ug/l	20	7K15016	11/15/07	11/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		97 %	60-150		"	"	"	"	
Surrogate: Dibromofluoromethane		92 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		91 %	75-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88 %	55-130		"	"	"	"	
<b>EX-2 (MQK0358-06) Water Sampled: 11/09/07 08:45 Received: 11/09/07 16:40</b>									
<b>Gasoline Range Organics (C4-C12)</b>	<b>120</b>	<b>50</b>	ug/l	1	7K15016	11/15/07	11/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		101 %	60-150		"	"	"	"	
Surrogate: Dibromofluoromethane		94 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		92 %	75-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85 %	55-130		"	"	"	"	

Stratus Environmental Inc. [Arco]  
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Cameron Park CA, 95682

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	Notes
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**MW-2 (MQK0358-01) Water** Sampled: 11/09/07 09:20 Received: 11/09/07 16:40

tert-Amyl methyl ether	ND	100	ug/l	200	7K15016	11/15/07	11/16/07	EPA 8260B	
<b>Benzene</b>	<b>6300</b>	100	"	"	"	"	"	"	
tert-Butyl alcohol	ND	4000	"	"	"	"	"	"	
Di-isopropyl ether	ND	100	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	100	"	"	"	"	"	"	
1,2-Dichloroethane	ND	100	"	"	"	"	"	"	
Ethanol	ND	60000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>2900</b>	100	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>9500</b>	100	"	"	"	"	"	"	
<b>Toluene</b>	<b>3300</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>8300</b>	100	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		93 %		75-130	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97 %		60-150	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92 %		75-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		88 %		55-130	"	"	"	"	

**MW-4 (MQK0358-02) Water** Sampled: 11/09/07 10:10 Received: 11/09/07 16:40

tert-Amyl methyl ether	ND	100	ug/l	200	7K15016	11/15/07	11/16/07	EPA 8260B	
<b>Benzene</b>	<b>3300</b>	100	"	"	"	"	"	"	
<b>tert-Butyl alcohol</b>	<b>5700</b>	4000	"	"	"	"	"	"	
Di-isopropyl ether	ND	100	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	100	"	"	"	"	"	"	
1,2-Dichloroethane	ND	100	"	"	"	"	"	"	
Ethanol	ND	60000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>3600</b>	100	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>1200</b>	100	"	"	"	"	"	"	
<b>Toluene</b>	<b>2400</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>13000</b>	100	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		90 %		75-130	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %		60-150	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		95 %		75-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92 %		55-130	"	"	"	"	

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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	Notes
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**MW-7 (MQK0358-03) Water Sampled: 11/09/07 07:35 Received: 11/09/07 16:40**

tert-Amyl methyl ether	ND	0.50	ug/l	1	7K15016	11/15/07	11/16/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>71</b>	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>1.3</b>	0.50	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>		94 %	75-130	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	60-150	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92 %	75-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		89 %	55-130	"	"	"	"	"	

**MW-10 (MQK0358-04) Water Sampled: 11/09/07 06:55 Received: 11/09/07 16:40**

tert-Amyl methyl ether	ND	10	ug/l	20	7K15016	11/15/07	11/16/07	EPA 8260B	
Benzene	ND	10	"	"	"	"	"	"	
tert-Butyl alcohol	ND	400	"	"	"	"	"	"	
Di-isopropyl ether	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
Ethanol	ND	6000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>1600</b>	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>13</b>	10	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>		91 %	75-130	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	60-150	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92 %	75-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		87 %	55-130	"	"	"	"	"	

Stratus Environmental Inc. [Arco]  
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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	Notes
<b>EX-1 (MQK0358-05) Water Sampled: 11/09/07 09:30 Received: 11/09/07 16:40</b>									
tert-Amyl methyl ether	ND	25	ug/l	50	7K16001	11/16/07	11/16/07	EPA 8260B	
<b>Benzene</b>	<b>2700</b>	25	"	"	"	"	"	"	
<b>tert-Butyl alcohol</b>	<b>1900</b>	1000	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
Ethanol	ND	15000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>220</b>	25	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>370</b>	25	"	"	"	"	"	"	
<b>Toluene</b>	<b>29</b>	25	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>200</b>	25	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		113 %	75-130		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		109 %	60-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		104 %	75-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		91 %	55-130		"	"	"	"	
<b>EX-2 (MQK0358-06) Water Sampled: 11/09/07 08:45 Received: 11/09/07 16:40</b>									
tert-Amyl methyl ether	ND	0.50	ug/l	1	7K15016	11/15/07	11/16/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.57</b>	0.50	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>140</b>	0.50	"	"	"	"	"	"	
<b>Toluene</b>	<b>0.53</b>	0.50	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>2.7</b>	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		94 %	75-130		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	60-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92 %	75-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		85 %	55-130		"	"	"	"	

Stratus Environmental Inc. [Arco]  
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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
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**Batch 7K15016 - EPA 5030B P/T / LUFT GCMS**

**Blank (7K15016-BLK1)**

Prepared & Analyzed: 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			

**Laboratory Control Sample (7K15016-BS2)**

Prepared & Analyzed: 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 (7K15016-BSD2)**

Prepared & Analyzed: 11/15/07

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: MQK0356-01

Prepared & Analyzed: 11/15/07

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			
Surrogate: 4-Bromofluorobenzene	2.32		"	2.50		93	55-130			

**Matrix Spike Dup (7K15016-MSD1)**

Source: MQK0356-01

Prepared & Analyzed: 11/15/07

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			
Surrogate: Dibromofluoromethane	2.37		"	2.50		95	75-130			
Surrogate: Toluene-d8	2.33		"	2.50		93	75-120			
Surrogate: 4-Bromofluorobenzene	2.34		"	2.50		94	55-130			

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

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	Limits	RPD	RPD Limit	Notes
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**Batch 7K16001 - EPA 5030B P/T / LUFT GCMS**

**Blank (7K16001-BLK1)**

Prepared & Analyzed: 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-BS2)**

Prepared & Analyzed: 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		"	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 (7K16001-BSD2)**

Prepared & Analyzed: 11/16/07

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		"	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: MQK0357-03

Prepared & Analyzed: 11/16/07

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		"	2.50		100	75-120			
Surrogate: 4-Bromofluorobenzene	2.75		"	2.50		110	55-130			

**Matrix Spike Dup (7K16001-MSD1)**

Source: MQK0357-03

Prepared & Analyzed: 11/16/07

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			



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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
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**Batch 7K15016 - EPA 5030B P/T / EPA 8260B**

**Blank (7K15016-BLK1)**

Prepared & Analyzed: 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	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	300	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	2.28		"	2.50		91	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.42		"	2.50		97	60-150			
<i>Surrogate: Toluene-d8</i>	2.30		"	2.50		92	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.16		"	2.50		86	55-130			

**Laboratory Control Sample (7K15016-BS1)**

Prepared & Analyzed: 11/15/07

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			
tert-Butyl alcohol	198	20	"	200		99	80-120			
Di-isopropyl ether	9.45	0.50	"	10.0		94	70-130			
1,2-Dibromoethane (EDB)	9.60	0.50	"	10.0		96	75-130			
1,2-Dichloroethane	9.45	0.50	"	10.0		94	65-130			
Ethanol	239	300	"	200		119	50-150			
Ethyl tert-butyl ether	9.36	0.50	"	10.0		94	75-130			
Ethylbenzene	9.80	0.50	"	10.0		98	80-125			
Methyl tert-butyl ether	9.24	0.50	"	10.0		92	80-130			
Toluene	9.17	0.50	"	10.0		92	80-120			
Xylenes (total)	28.5	0.50	"	30.0		95	80-125			
<i>Surrogate: Dibromofluoromethane</i>	2.28		"	2.50		91	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.35		"	2.50		94	60-150			
<i>Surrogate: Toluene-d8</i>	2.27		"	2.50		91	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.23		"	2.50		89	55-130			

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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
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**Batch 7K15016 - EPA 5030B P/T / EPA 8260B**

<b>Matrix Spike (7K15016-MS1)</b>	<b>Source: MQK0356-01</b>			<b>Prepared &amp; Analyzed: 11/15/07</b>						
tert-Amyl methyl ether	9.55	0.50	ug/l	10.0	ND	96	75-140			
Benzene	9.50	0.50	"	10.0	ND	95	80-120			
tert-Butyl alcohol	206	20	"	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	"	10.0	ND	101	80-135			
1,2-Dichloroethane	12.4	0.50	"	10.0	2.48	99	65-145			
Ethanol	243	300	"	200	ND	121	50-150			
Ethyl tert-butyl ether	9.67	0.50	"	10.0	ND	97	80-135			
Ethylbenzene	9.93	0.50	"	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	"	10.0	ND	94	80-125			
Xylenes (total)	29.7	0.50	"	30.0	0.450	97	75-125			
<i>Surrogate: Dibromofluoromethane</i>	2.39		"	2.50		96	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.36		"	2.50		94	60-150			
<i>Surrogate: Toluene-d8</i>	2.37		"	2.50		95	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.32		"	2.50		93	55-130			
<b>Matrix Spike Dup (7K15016-MSD1)</b>	<b>Source: MQK0356-01</b>			<b>Prepared &amp; Analyzed: 11/15/07</b>						
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	"	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	"	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	"	10.0	ND	97	80-135	0.7	25	
Ethylbenzene	9.80	0.50	"	10.0	ND	98	75-130	1	20	
Methyl tert-butyl ether	9.88	0.50	"	10.0	0.220	97	75-145	0.7	25	
Toluene	9.37	0.50	"	10.0	ND	94	80-125	0.5	25	
Xylenes (total)	29.0	0.50	"	30.0	0.450	95	75-125	2	20	
<i>Surrogate: Dibromofluoromethane</i>	2.37		"	2.50		95	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.33		"	2.50		93	60-150			
<i>Surrogate: Toluene-d8</i>	2.33		"	2.50		93	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.34		"	2.50		94	55-130			

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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
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**Batch 7K16001 - EPA 5030B P/T / EPA 8260B**

<b>Blank (7K16001-BLK1)</b>			Prepared & Analyzed: 11/16/07							
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	300	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	2.61		"	2.50		104	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.78		"	2.50		111	60-150			
<i>Surrogate: Toluene-d8</i>	2.54		"	2.50		102	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.20		"	2.50		88	55-130			

<b>Laboratory Control Sample (7K16001-BS1)</b>			Prepared & Analyzed: 11/16/07							
tert-Amyl methyl ether	9.92	0.50	ug/l	10.0		99	75-125			
Benzene	10.1	0.50	"	10.0		101	75-120			
tert-Butyl alcohol	189	20	"	200		94	80-120			
Di-isopropyl ether	9.08	0.50	"	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	"	10.0		102	65-130			
Ethanol	183	300	"	200		91	50-150			
Ethyl tert-butyl ether	9.88	0.50	"	10.0		99	75-130			
Ethylbenzene	10.6	0.50	"	10.0		106	80-125			
Methyl tert-butyl ether	9.35	0.50	"	10.0		94	80-130			
Toluene	8.96	0.50	"	10.0		90	80-120			
Xylenes (total)	31.2	0.50	"	30.0		104	80-125			
<i>Surrogate: Dibromofluoromethane</i>	2.43		"	2.50		97	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.22		"	2.50		89	60-150			
<i>Surrogate: Toluene-d8</i>	2.64		"	2.50		106	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.47		"	2.50		99	55-130			

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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
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**Batch 7K16001 - EPA 5030B P/T / EPA 8260B**

<b>Matrix Spike (7K16001-MS1)</b>	<b>Source: MQK0357-03</b>			<b>Prepared &amp; Analyzed: 11/16/07</b>						
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	"	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	"	10.0	ND	112	80-135			
1,2-Dichloroethane	9.92	0.50	"	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			
Xylenes (total)	31.5	0.50	"	30.0	ND	105	75-125			BA
<i>Surrogate: Dibromofluoromethane</i>	2.63		"	2.50		105	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.61		"	2.50		104	60-150			
<i>Surrogate: Toluene-d8</i>	2.50		"	2.50		100	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.75		"	2.50		110	55-130			

<b>Matrix Spike Dup (7K16001-MSD1)</b>	<b>Source: MQK0357-03</b>			<b>Prepared &amp; Analyzed: 11/16/07</b>						
tert-Amyl methyl ether	11.1	0.50	ug/l	10.0	ND	111	75-140	9	25	
Benzene	9.94	0.50	"	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	"	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	"	10.0	ND	112	65-145	12	25	
Ethanol	199	300	"	200	ND	100	50-150	8	25	
Ethyl tert-butyl ether	10.6	0.50	"	10.0	ND	106	80-135	2	25	
Ethylbenzene	10.0	0.50	"	10.0	ND	100	75-130	14	20	
Methyl tert-butyl ether	11.2	0.50	"	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	"	30.0	ND	92	75-125	14	20	
<i>Surrogate: Dibromofluoromethane</i>	2.59		"	2.50		104	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.77		"	2.50		111	60-150			
<i>Surrogate: Toluene-d8</i>	2.67		"	2.50		107	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.54		"	2.50		102	55-130			

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MQK0358  
Reported:  
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



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: <u>0500</u>	Temp: <u>60's</u>
Off-site Time: <u>1030</u>	Temp: <u>70's</u>
Sky Conditions: <u>Clear</u>	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11117</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>7210 Bancroft, Oakland</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
Morgan Hill, CA 95937	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0608100201</u>	Consultant/Contractor Project No.:
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: <u>G07TK-0029</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>04-Monitoring</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-275-3506</u>	Cost Element: <u>01-Contractor labor</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis				Sample Point Lat/Long and Comments *Oxy = MTBE, TAME, ETBE, DIPE, TBA	
				Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	CRC/BTEX/Oxy*	1,2-DCA	Ethanol	EDB		
1	MW-2	0820	11/09	X			MOK0358	3				X			X	X	X		
2	MW-4	1010	11/09					6											
3	MW-7	0735						3											
4	MW-10	0655						3											
5	EX-1	0830						3											
6	EX-2	0845						3											
7																			
8	TB-11117-11092007	0515	11/09					2											held

Sampler's Name: <u>David Demello</u>	Relinquished By / Affiliation: <u>David Demello / Stratus Environmental, Inc.</u>	Date: <u>11-09-07</u>	Time: <u>1215</u>	Accepted By / Affiliation: <u>Kim Nelson</u>	Date: <u>11-9-07</u>	Time: <u>1545</u>
Shipment Date: <u>11-09-07</u>				<u>Ed Martin</u>	<u>11-9-07</u>	<u>1640</u>
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Please cc results to rmler@broadbentinc.com

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 240 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

## TEST AMERICA SAMPLE RECEIPT LOG

**CLIENT NAME:** ADLO  
**REC. BY (PRINT):** D.J.  
**WORKORDER:** MOK0358

**DATE REC'D AT LAB:** 11/9/07  
**TIME REC'D AT LAB:** 1840  
**DATE LOGGED IN:** 11/10/07

**For Regulatory Purposes?**  
 DRINKING WATER  
 WASTE WATER  
 OTHER

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / <u>Absent</u> Intact / Broken*								SPEC USE 11/10/07 D.J.
2. Chain-of-Custody <u>Present</u> / Absent*								
3. Traffic Reports or Packing List: Present / <u>Absent</u>								
4. Airbill: Airbill / <u>Sticker</u> Present / <u>Absent</u>								
5. Airbill #:								
6. Sample Labels: <u>Present</u> / Absent								
7. Sample IDs: <u>Listed</u> / Not Listed on Chain-of-Custody								
8. Sample Condition: <u>Intact</u> / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree? <u>Yes</u> / No*								
10. Sample received within hold time? <u>Yes</u> / No*								
11. Adequate sample volume received? <u>Yes</u> / No*								
12. Proper preservatives used? <u>Yes</u> / No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes) <u>Yes</u> / No*								
14. Read Temp: <u>3.0</u> Correction Factor: <u>-1.0</u> Corrected Temp: <u>2.0</u> Is corrected temp. 0-6°C? <u>Yes</u> / No**								

\*\*Exception (if any): Metals / Perchlorate  
DFF on Ice or Problem COC

\*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

## APPENDIX C

### GeoTracker Upload Confirmation Reports



## Electronic Submittal Information

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### UPLOADING A GEO\_MAP FILE

**YOUR IMAGE UPLOAD WAS SUCCESSFUL!**

<b><u>Facility Name:</u></b>	<b>BP #11117</b>
<b><u>Global ID:</u></b>	<b>T0600100201</b>
<b><u>Submittal Type:</u></b>	<b>GEO_MAP</b>
<b><u>Submittal Date/Time:</u></b>	<b>1/25/2008 4:07:04 PM</b>
<b><u>Confirmation Number:</u></b>	<b>9705808877</b>

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### UPLOADING A GEO\_BORE FILE

**YOUR IMAGE UPLOAD WAS SUCCESSFUL!**

<b><u>Facility Name:</u></b>	BP #11117
<b><u>Global ID:</u></b>	T0600100201
<b><u>Field Pt Name:</u></b>	MW-11
<b><u>Submittal Type:</u></b>	GEO_BORE
<b><u>Submittal Date/Time:</u></b>	1/25/2008 4:08:08 PM
<b><u>Confirmation Number:</u></b>	9975468516

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**YOUR IMAGE UPLOAD WAS SUCCESSFUL!**

<b><u>Facility Name:</u></b>	BP #11117
<b><u>Global ID:</u></b>	T0600100201
<b><u>Field Pt Name:</u></b>	DPE-1
<b><u>Submittal Type:</u></b>	GEO_BORE
<b><u>Submittal Date/Time:</u></b>	1/25/2008 4:09:39 PM
<b><u>Confirmation Number:</u></b>	8977374017

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<b><u>Facility Name:</u></b>	BP #11117
<b><u>Global ID:</u></b>	T0600100201
<b><u>Field Pt Name:</u></b>	DPE-2
<b><u>Submittal Type:</u></b>	GEO_BORE
<b><u>Submittal Date/Time:</u></b>	1/25/2008 4:10:14 PM
<b><u>Confirmation Number:</u></b>	5389912486

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<b><u>Facility Name:</u></b>	BP #11117
<b><u>Global ID:</u></b>	T0600100201
<b><u>Field Pt Name:</u></b>	DPE-3
<b><u>Submittal Type:</u></b>	GEO_BORE
<b><u>Submittal Date/Time:</u></b>	1/25/2008 4:10:37 PM
<b><u>Confirmation Number:</u></b>	7960753500

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<b><u>Facility Name:</u></b>	BP #11117
<b><u>Global ID:</u></b>	T0600100201
<b><u>Field Pt Name:</u></b>	DPE-4
<b><u>Submittal Type:</u></b>	GEO_BORE
<b><u>Submittal Date/Time:</u></b>	1/25/2008 4:11:00 PM
<b><u>Confirmation Number:</u></b>	9890049815

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<b><u>Facility Name:</u></b>	BP #11117
<b><u>Global ID:</u></b>	T0600100201
<b><u>Field Pt Name:</u></b>	DPE-5
<b><u>Submittal Type:</u></b>	GEO_BORE
<b><u>Submittal Date/Time:</u></b>	1/25/2008 4:11:34 PM
<b><u>Confirmation Number:</u></b>	6870745599

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## UPLOADING A GEO\_XY FILE

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<b>Submittal Title:</b>	GEO_XY 11117
<b>Facility Global ID:</b>	T0600100201
<b>Facility Name:</b>	BP #11117
<b>Submittal Date/Time:</b>	12/21/2007 4:30:35 PM
<b>Confirmation Number:</b>	<b>3417605340</b>

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## UPLOADING A GEO\_Z FILE

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<b>Submittal Title:</b>	GEO_Z 11117
<b>Facility Global ID:</b>	T0600100201
<b>Facility Name:</b>	BP #11117
<b>Submittal Date/Time:</b>	12/21/2007 4:22:33 PM
<b>Confirmation Number:</b>	<b>7188662469</b>

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## UPLOADING A GEO\_WELL FILE

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<b>Submittal Title:</b>	4Q07 GEO_WELL 11117
<b>Facility Global ID:</b>	T0600100201
<b>Facility Name:</b>	BP #11117
<b>Submittal Date/Time:</b>	1/29/2008 4:30:56 PM
<b>Confirmation Number:</b>	<b>7941404581</b>

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Your EDF file has been successfully uploaded!

**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

[Click here](#) to view the detections report for this upload.

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

<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
7101392507	4Q07 GW Monitoring	Q4 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	12/12/2007	PENDING REVIEW

## **SAMPLE DETECTIONS REPORT**

# FIELD POINTS SAMPLED	6
# FIELD POINTS WITH DETECTIONS	6
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	5
SAMPLE MATRIX TYPES	WATER

## **METHOD QA/QC REPORT**

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

## **QA/QC FOR 8021/8260 SERIES SAMPLES**

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

## **WATER SAMPLES FOR 8021/8260 SERIES**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
<b>SURROGATE SPIKES % RECOVERY BETWEEN 85-115%</b>	<b>N</b>
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

**SOIL SAMPLES FOR 8021/8260 SERIES**

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

---

**FIELD QC SAMPLES**

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