



Atlantic Richfield Company  
(a BP affiliated company)

P.O. Box 1257  
San Ramon, CA 94583  
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**RECEIVED**

2:08 pm, Feb 01, 2008

Alameda County  
Environmental Health

January 30, 2008

Re: Fourth Quarter, 2007 Ground-Water Monitoring Report  
Former BP Station #11120  
6400 Dublin Boulevard  
Dublin, California  
ACEH Case #RO0002431

“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 Manager

**Fourth Quarter, 2007 Ground-Water Monitoring Report**  
Former BP Station #11120  
6400 Dublin Boulevard  
Dublin, California

Prepared for

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

Prepared by



1324 Mangrove Avenue, Suite 212  
Chico, California 95926  
(530) 566-1400  
[www.broadbentinc.com](http://www.broadbentinc.com)

January, 2008

Project No. 06-02-651

Broadbent & Associates, Inc.  
1324 Mangrove Ave., Suite 212  
Chico, CA 95926  
Voice (530) 566-1400  
Fax (530) 566-1401



January 30, 2008

Project No. 06-02-651

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

Attn.: Mr. Paul Supple

Re: Fourth Quarter, 2007 Ground-Water Monitoring Report, Former BP Station #11120,  
6400 Dublin Boulevard, Dublin California. ACEH Case #RO0002431.

Dear Mr. Supple:

Provided herein is the *Fourth Quarter, 2007 Ground-Water Monitoring Report* for the Former BP Station #11120 (herein referred to as Station #11120) located at 6400 Dublin Boulevard, Dublin, California (Property). This report presents a summary of Fourth Quarter, 2007 ground-water monitoring results.

Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

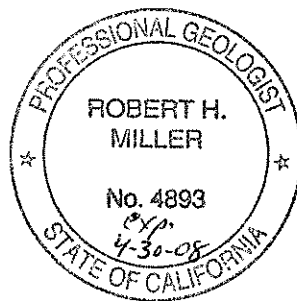
BROADBENT & ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read 'M. G. Herrick', written over a horizontal line.

Matthew G. Herrick, P.G.  
Project Hydrogeologist

A handwritten signature in black ink, appearing to read 'Robert H. Miller', written over a horizontal line.

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



Enclosures

cc: Mr. Steven Plunkett, Alameda County Environmental Health (submitted via ACEH ftp site)  
Ms. Shelby Lathrop, ConocoPhillips, 76 Broadway, Sacramento, CA 95818  
GeoTracker

## STATION #11120 QUARTERLY GROUND-WATER MONITORING REPORT

Facility: #11120	Address: 6400 Dublin Boulevard, Dublin, CA
Station #11120 Environmental Business Manager:	Mr. Paul Supple
Consulting Co./Contact Persons:	Broadbent & Associates, Inc. (BAI) / Rob Miller & Matt Herrick
Primary Agency/Regulatory ID No.:	Alameda County Environmental Health (ACEH) / ACEH Case # RO0002431
Consultant Project No.:	06-02-651
Facility Permits/Permitting Agency.:	NA

### WORK PERFORMED THIS QUARTER (Fourth Quarter, 2007):

1. Submitted Third Quarter, 2007 Ground-Water Monitoring Report. Work performed by BAI.
2. Conducted ground-water monitoring/sampling for Fourth Quarter, 2007. Work performed by Stratus Environmental, Inc.

### WORK PROPOSED FOR NEXT QUARTER (First Quarter, 2008):

1. Submit Fourth Quarter, 2007 Ground-Water Monitoring Report (contained herein).
2. Conduct quarterly ground-water monitoring/sampling for First Quarter, 2008.

### QUARTERLY RESULTS SUMMARY:

Current phase of project:	<b>Ground-water monitoring/sampling</b>
Frequency of ground-water sampling:	<b>Wells MW-8, MW-10, and MW-11: Quarterly</b>
Frequency of ground-water monitoring:	<b>Wells MW-8, MW-10, and MW-11: Quarterly</b>
Is free product (FP) present on-site:	<b>No</b>
Current remediation techniques:	<b>None</b>
Depth to ground water (below TOC):	<b>5.02 (MW-10) to 7.12 (MW-11) feet</b>
General ground-water flow direction:	<b>Southwest and Southeast</b>
Approximate hydraulic gradient:	<b>0.004</b>

### DISCUSSION:

Gasoline range organics (GRO) were detected in MW-8 at 97 micrograms per liter ( $\mu\text{g/L}$ ) during Fourth Quarter, 2007. Methyl tert-butyl ether (MTBE) was detected in wells MW-8 and MW-11 at 150  $\mu\text{g/L}$  and 45  $\mu\text{g/L}$ , respectively. No other analytes were detected in ground-water sampled collected during Fourth Quarter, 2007.

Analytes detected during Fourth Quarter, 2007 were all within the historic minimum and maximum concentration ranges recorded for each well. Ground-water elevations measured during Fourth Quarter, 2007 were also within historic minimum and maximum ranges for each well.

Drawing 1 depicts the ground-water elevation contour and an analytical summary map for the Fourth Quarter, 2007. Table 1 includes a summary of ground-water monitoring data including relative water elevations and laboratory analyses. Table 2 provides a summary of fuel additives analytical data. Table 3 presents historical ground-water flow direction and gradient.

The *Evaluation Residual MTBE, Review Historic Gradient, and Conduit and Sensitive Receptor Survey Report* was submitted on December 20, 2006. The report recommended that a formal closure

request be completed and submitted to the ACEH for review. A response from the ACEH has not been received regarding this recommendation.

### **CLOSURE:**

The findings presented in this report are based upon: observations of Stratus Environmental, Inc. field personnel and/or their subcontractor(s) (see Appendix A), the points investigated, and results of laboratory tests performed by TestAmerica of Morgan Hill, California. Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No other warranty, expressed or implied was made. This report has been prepared for the exclusive use of Atlantic Richfield Company. It is possible that variations in soil or ground-water conditions could exist beyond points explored in this investigation. Also, changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

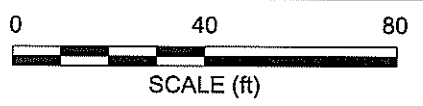
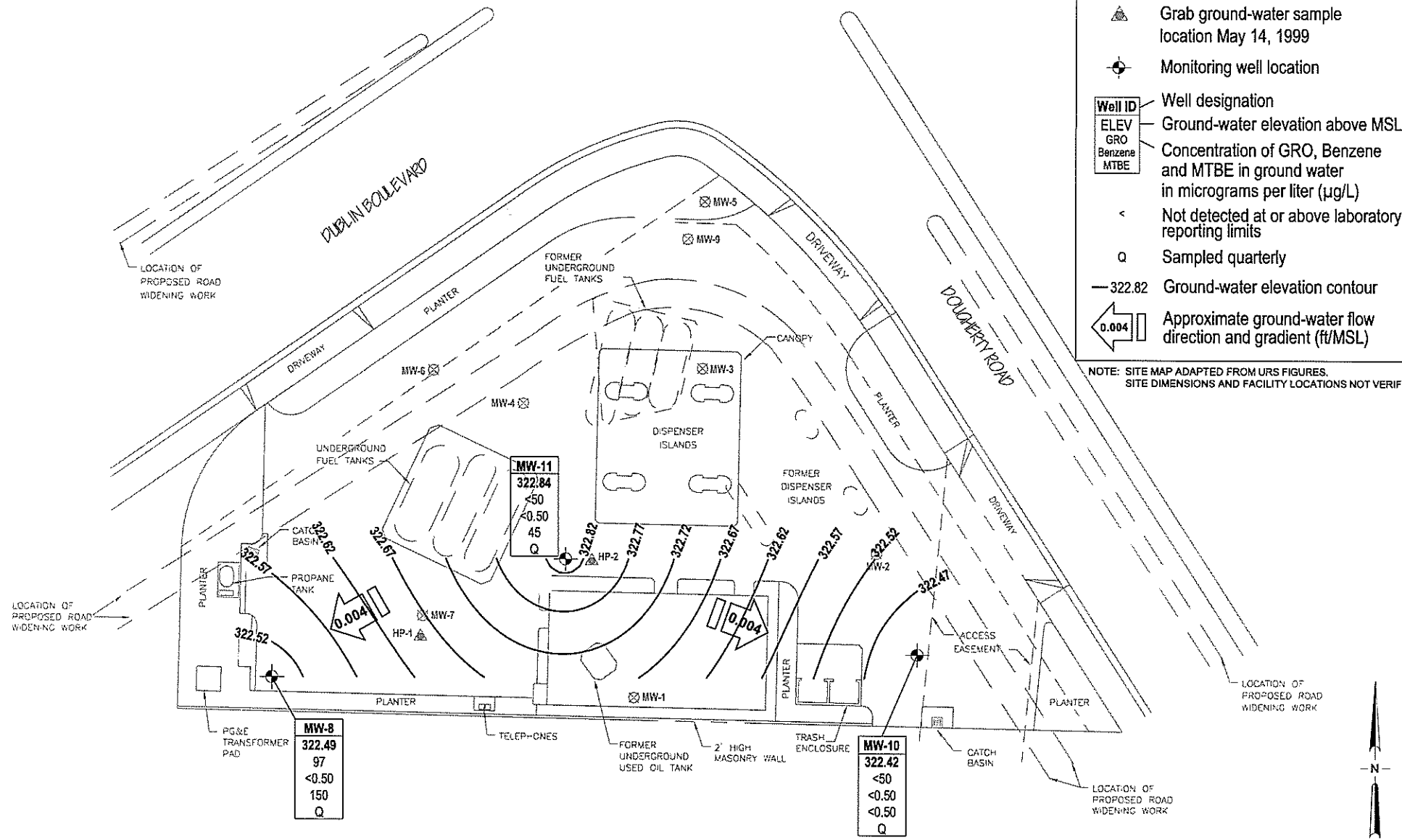
### **ATTACHMENTS:**

- Drawing 1. Ground-Water Elevation Contour and Analytical Summary Map, Station #11120, Dublin CA
- Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #11120, Dublin CA
- Table 2. Summary of Fuel Additives Analytical Data, Station #11120, Dublin CA
- Table 3. Historical Ground-Water Flow Direction and Gradient, Station #11120, Dublin, CA
- Appendix A. Stratus Environmental, Inc. Ground-Water Sampling Data Package (Includes Field Data Sheets, Non-Hazardous Waste Data Form, Chain of Custody Documentation, and Certified Analytical Results)
- Appendix B. Historical Ground-Water Analytical Data for Former Wells Abandoned in 1999 (Source: Alisto Engineering)
- Appendix C. GeoTracker Upload Confirmation

### LEGEND

- ⊗ Destroyed ground-water monitoring well
- ▲ Grab ground-water sample location May 14, 1999
- ⊕ Monitoring well location
- Well ID** Well designation
- ELEV** Ground-water elevation above MSL
- GRO** Concentration of GRO, Benzene and MTBE in ground water in micrograms per liter (µg/L)
- Benzene**
- MTBE**
- < Not detected at or above laboratory reporting limits
- Q Sampled quarterly
- 322.82 Ground-water elevation contour
- ← 0.004 Approximate ground-water flow direction and gradient (ft/MSL)

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



**BROADBENT & ASSOCIATES, INC.**  
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL  
 2000 Kirman Ave., Reno, NV  
 Project No.: 06-02-651 Date: 1/24/08

Former BP Station #11120  
 6400 Dublin Boulevard  
 Dublin, California

Ground-Water Elevation Contour  
 and Analytical Summary Map  
 December 26, 2007

Drawing  
**1**

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**  
**Station #11120, 6400 Dublin Blvd., Dublin, 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</b>															
02/25/2002	--	328.94	6.02	--	322.92	<50	<0.5	<0.5	<0.5	<0.5	1.98	--	PACE	--	
09/30/2002	--	328.94	6.16	--	322.78	<50	<0.5	<0.5	<0.5	<0.5	2.9/4.8	--	SEQM	--	a
12/13/2002	--	328.94	5.81	--	323.13	<50	<0.5	<0.5	<0.5	<0.5	5.9/6.4	--	SEQM	--	a
03/12/2003	--	328.94	5.80	--	323.14	<50	<0.50	<0.50	<0.50	<0.50	4.3/3.8	--	SEQM	--	
06/28/2003	--	328.94	5.70	--	323.24	<50	<0.50	<0.50	<0.50	<0.50	4.1	--	SEQM	--	b
09/30/2003	--	328.94	5.90	--	323.04	<50	<0.50	<0.50	<0.50	<0.50	4.1	--	SEQM	--	
12/05/2003	P	328.94	5.89	--	323.05	<50	<0.50	<0.50	<0.50	<0.50	6.7	--	SEQM	7.2	
03/10/2004	P	328.94	4.74	--	324.20	<50	<0.50	<0.50	<0.50	<0.50	5.1	--	SEQM	6.7	
06/21/2004	P	328.94	6.12	--	322.82	<50	<0.50	<0.50	<0.50	<0.50	7.5	--	SEQM	7.0	
09/17/2004	P	328.94	6.38	--	322.56	<50	<0.50	<0.50	<0.50	<0.50	6.6	--	SEQM	7.2	
12/13/2004	P	328.94	5.47	--	323.47	<50	<0.50	<0.50	<0.50	<0.50	6.7	--	SEQM	6.8	
03/03/2005	P	328.94	4.43	--	324.51	<50	<0.50	<0.50	<0.50	<0.50	5.6	--	SEQM	6.9	
06/10/2005	P	328.94	5.35	--	323.59	<50	<0.50	<0.50	<0.50	<0.50	6.2	--	SEQM	6.9	
09/16/2005	P	328.94	6.58	--	322.36	<50	<0.50	<0.50	<0.50	<0.50	5.7	--	SEQM	6.9	
12/15/2005	P	328.94	8.54	--	320.40	<50	<0.50	<0.50	<0.50	<0.50	2.6	--	SEQM	7.0	
03/01/2006	P	328.94	7.55	--	321.39	<50	<0.50	<0.50	<0.50	<0.50	2.8	--	SEQM	7.1	
6/23/2006	P	328.94	8.14	--	320.80	<50	<0.50	<0.50	<0.50	<0.50	35	--	TAMC	7.2	
9/19/2006	P	328.94	7.33	--	321.61	82	<1.0	<1.0	<1.0	<1.0	130	--	TAMC	7.2	c
12/19/2006	P	328.94	7.55	--	321.39	82	<1.0	<1.0	<1.0	<1.0	120	3.28	TAMC	7.51	
3/29/2007	P	328.94	7.44	--	321.50	120	<0.50	<0.50	<0.50	<0.50	180	3.19	TAMC	7.51	
6/5/2007	P	328.94	7.58	--	321.36	77	<1.0	<1.0	<1.0	<1.0	130	4.87	TAMC	7.59	c
9/11/2007	P	328.94	8.00	--	320.94	76	<0.50	<0.50	<0.50	<0.50	130	2.43	TAMC	--	c, d (MTBE)
12/26/2007	P	328.94	6.45	--	322.49	97	<0.50	<0.50	<0.50	<0.50	150	4.32	TAMC	7.53	c
<b>MW-9</b>															
02/25/2002	--	329.96	5.90	--	324.06	<250	<2.50	<2.50	<2.50	<5.00	<2.50	--	PACE	--	
09/30/2002	--	329.96	6.92	--	323.04	<50	<0.5	<0.5	<0.5	<0.5	1.4/3.3	--	SEQM	--	a
12/13/2002	--	329.96	6.51	--	323.45	<50	<0.5	<0.5	<0.5	<0.5	0.53/<2.5	--	SEQM	--	a
03/12/2003	--	329.96	6.86	--	323.10	<50	<0.50	<0.50	<0.50	<0.50	0.59/<2.5	--	SEQM	--	
06/28/2003	--	329.96	5.95	--	324.01	<50	<0.50	<0.50	<0.50	<0.50	1.0	--	SEQM	--	b
09/30/2003	--	329.96	6.24	--	323.72	<50	<0.50	<0.50	<0.50	<0.50	16	--	SEQM	--	

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**  
**Station #11120, 6400 Dublin Blvd., Dublin, 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>															
12/05/2003	P	329.96	7.21	--	322.75	<50	<0.50	<0.50	<0.50	<0.50	33	--	SEQM	7.6	
03/10/2004	P	329.96	5.37	--	324.59	<50	<0.50	<0.50	<0.50	<0.50	2.4	--	SEQM	7.1	
06/21/2004	P	329.96	6.67	--	323.29	<50	<0.50	<0.50	<0.50	<0.50	1.6	--	SEQM	7.8	
09/17/2004	P	329.96	7.89	--	322.07	<50	<0.50	<0.50	<0.50	<0.50	0.72	--	SEQM	7.5	
12/13/2004	P	329.96	5.22	--	324.74	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.6	
03/03/2005	P	329.96	5.12	--	324.84	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.6	
06/10/2005	P	329.96	5.90	--	324.06	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.5	
09/16/2005	P	329.96	6.99	--	322.97	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.6	
12/15/2005	P	329.96	8.52	--	321.44	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.7	
03/01/2006	P	329.96	8.06	--	321.90	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.7	
6/23/2006	P	329.96	8.56	--	321.40	<50	<0.50	<0.50	<0.50	<0.50	1.1	--	TAMC	7.3	
7/21/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well Abandoned
<b>MW-10</b>															
02/25/2002	--	327.44	4.21	--	323.23	53	2.58	<0.5	2.83	8.46	<0.5	--	PACE	--	
09/30/2002	--	327.44	4.71	--	322.73	<50	<0.5	<0.5	<0.5	<0.5	0.51/2.8	--	SEQM	--	a
12/13/2002	--	327.44	6.36	--	321.08	<50	<0.5	<0.5	<0.5	<0.5	<0.5/<2.5	--	SEQM	--	a
03/12/2003	--	327.44	7.96	--	319.48	<50	<0.50	<0.50	<0.50	<0.50	0.76/<2.5	--	SEQM	--	
06/28/2003	--	327.44	7.70	--	319.74	<50	<0.50	<0.50	<0.50	<0.50	0.68	--	SEQM	--	b
09/30/2003	--	327.44	7.57	--	319.87	<50	<0.50	<0.50	<0.50	<0.50	0.71	--	SEQM	--	
12/05/2003	P	327.44	6.64	--	320.80	<50	<0.50	<0.50	<0.50	<0.50	0.78	--	SEQM	7.1	
03/10/2004	P	327.44	5.20	--	322.24	<50	<0.50	<0.50	<0.50	<0.50	0.58	--	SEQM	6.4	
06/21/2004	P	327.44	7.45	--	319.99	<50	<0.50	<0.50	<0.50	<0.50	1.1	--	SEQM	7.0	
09/17/2004	P	327.44	7.49	--	319.95	<50	<0.50	<0.50	<0.50	<0.50	0.82	--	SEQM	7.0	
12/13/2004	P	327.44	5.19	--	322.25	<50	<0.50	<0.50	<0.50	<0.50	0.73	--	SEQM	6.8	
03/03/2005	P	327.44	4.86	--	322.58	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	6.9	
06/10/2005	P	327.44	4.00	--	323.44	<50	<0.50	<0.50	<0.50	<0.50	1.2	--	SEQM	6.8	
09/16/2005	P	327.44	4.78	--	322.66	<50	<0.50	<0.50	<0.50	<0.50	0.98	--	SEQM	6.9	
12/15/2005	P	327.44	6.67	--	320.77	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.0	
03/01/2006	P	327.44	5.67	--	321.77	<50	<0.50	<0.50	<0.50	<0.50	0.59	--	SEQM	7.1	
6/23/2006	P	327.44	5.83	--	321.61	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	TAMC	7.0	



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

Station #11120, 6400 Dublin Blvd., Dublin, 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>															
9/19/2006	P	327.44	6.87	--	320.57	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	TAMC	7.1	
12/19/2006	--	327.44	7.10	--	320.34	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.61	TAMC	7.29	
3/29/2007	P	327.44	5.25	--	322.19	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.85	TAMC	7.25	
6/5/2007	P	327.44	6.94	--	320.50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.65	TAMC	7.31	
9/11/2007	P	327.44	5.88	--	321.56	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.68	TAMC	--	
12/26/2007	P	327.44	5.02	--	322.42	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.75	TAMC	7.31	
<b>MW-11</b>															
02/25/2002	--	329.75	6.02	--	323.73	1,800	1.34	<0.5	<0.5	<1.0	2,550	--	PACE	--	
09/30/2002	--	329.75	7.12	--	322.63	<50	<0.5	<0.5	<0.5	<0.5	1,500/1,400	--	SEQM	--	a
12/13/2002	--	329.75	6.60	--	323.15	1,300	<10	<10	<10	<10	1,400/2,000	--	SEQM	--	a
03/12/2003	--	329.75	5.79	--	323.96	<500	<5.0	<5.0	<5.0	<5.0	650/2,900	--	SEQM	--	
06/28/2003	--	329.75	5.68	--	324.07	<5,000	<50	<50	<50	<50	2,500	--	SEQM	--	b
09/30/2003	--	329.75	6.68	--	323.07	5,100	<25	<25	<25	<25	3,200	--	SEQM	--	
12/05/2003	P	329.75	6.69	--	323.06	<5,000	<50	<50	<50	<50	3,500	--	SEQM	7.2	
03/10/2004	P	329.75	5.29	--	324.46	3,000	<25	<25	<25	<25	1,800	--	SEQM	6.8	
06/21/2004	P	329.75	6.65	--	323.10	<5,000	<50	<50	<50	<50	1,900	--	SEQM	7.1	
09/17/2004	P	329.75	7.02	--	322.73	<2,500	<25	<25	<25	<25	1,700	--	SEQM	7.1	
12/13/2004	P	329.75	6.01	--	323.74	650	<5.0	<5.0	<5.0	<5.0	610	--	SEQM	6.9	
03/03/2005	P	329.75	5.13	--	324.62	250	<2.5	<2.5	<2.5	<2.5	190	--	SEQM	7.0	c
06/10/2005	P	329.75	6.00	--	323.75	<100	4.1	<1.0	<1.0	<1.0	100	--	SEQM	7.0	
09/16/2005	P	329.75	7.24	--	322.51	<100	<1.0	<1.0	<1.0	<1.0	52	--	SEQM	7.0	
12/15/2005	P	329.75	8.91	--	320.84	<50	<0.50	<0.50	<0.50	<0.50	9.0	--	SEQM	7.1	
03/01/2006	P	329.75	8.05	--	321.70	<50	<0.50	<0.50	<0.50	<0.50	21	--	SEQM	7.2	
6/23/2006	P	329.96	8.65	--	321.31	<50	<0.50	<0.50	<0.50	<0.50	23	--	TAMC	7.2	
9/19/2006	P	329.96	8.07	--	321.89	<50	<0.50	<0.50	<0.50	<0.50	26	--	TAMC	7.3	
12/19/2006	P	329.96	8.17	--	321.79	<50	<0.50	<0.50	<0.50	<0.50	42	3.07	TAMC	7.47	
3/29/2007	P	329.96	8.05	--	321.91	<50	<0.50	<0.50	<0.50	<0.50	65	1.84	TAMC	7.46	
6/5/2007	P	329.96	8.22	--	321.74	53	<0.50	<0.50	<0.50	<0.50	74	2.23	TAMC	7.53	c
9/11/2007	P	329.96	8.62	--	321.34	<50	<0.50	<0.50	<0.50	<0.50	55	2.94	TAMC	--	
12/26/2007	P	329.96	7.12	--	322.84	<50	<0.50	<0.50	<0.50	<0.50	45	4.81	TAMC	7.45	

ABBREVIATIONS AND SYMBOLS:

TOC = Top of casing in ft MSL

DTW = Depth to water in ft bgs

GWE = Groundwater elevation in ft MSL

GRO = Gasoline range organics

TPH-g = Total petroleum hydrocarbons as gasoline

MTBE = Methyl tert butyl ether by EPA method 8021B (prior to 6/28/03) or 8260B

DO = Dissolved oxygen

µg/L = Micrograms per liter

mg/L = Milligrams per liter

< = Not detected at or above laboratory reporting limit

-- = Not sampled/applicable/analyzed/measured

PACE = Pace, Inc.

SEQM = Sequoia Analytical Laboratory

TAMC = TestAmerica

P/NP = Well purged/not purged prior to sampling

ft bgs = Feet below ground surface

ft MSL = Feet above mean sea level

FOOTNOTES:

a = Analyzed by EPA method 8260 B; fuel oxygenates include ethanol, tert-butyl alcohol, di-isopropyl ether, ethyl tert-butyl ether, tert-amyl methyl ether; lead scavengers include: 1,2-dichloroethane & ethylene dibromide.

b = Beginning on the second quarter 2003 monitoring event (6/28/03), TPH-g, benzene, toluene, ethylbenzene, total xylenes, MTBE and fuel oxygenates analyzed by EPA method 8260B.

c = The hydrocarbon result for GRO was partly due to individual peaks in the quantitative range.

d = Sample > 4x spike concentration.

NOTES:

TOC elevations surveyed relative to an elevation of 18.409 ft MSL.

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 inclusion of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported.

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

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 #11120, 6400 Dublin Blvd., Dublin, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-8</b>									
03/12/2003	<100	<20	4.3/3.8	<0.50	<0.50	<0.50	<0.50	<0.50	
06/28/2003	<100	<20	4.1	<0.50	<0.50	<0.50	<0.50	<0.50	
09/30/2003	<100	<20	4.1	<0.50	<0.50	<0.50	<0.50	<0.50	
12/05/2003	<100	<20	6.7	<0.50	<0.50	<0.50	<0.50	<0.50	
03/10/2004	<100	<20	5.1	<0.50	<0.50	<0.50	<0.50	<0.50	a
06/21/2004	<100	<20	7.5	<0.50	<0.50	<0.50	<0.50	<0.50	
09/17/2004	16	<20	6.6	<0.50	<0.50	<0.50	<0.50	<0.50	b
12/13/2004	<100	<20	6.7	<0.50	<0.50	<0.50	<0.50	<0.50	
03/03/2005	<100	<20	5.6	<0.50	<0.50	<0.50	<0.50	<0.50	
06/10/2005	<100	<20	6.2	<0.50	<0.50	<0.50	<0.50	<0.50	
09/16/2005	<100	<20	5.7	<0.50	<0.50	<0.50	<0.50	<0.50	
12/15/2005	<100	<20	2.6	<0.50	<0.50	<0.50	<0.50	<0.50	
03/01/2006	<300	<20	2.8	<0.50	<0.50	<0.50	<0.50	<0.50	
6/23/2006	<300	<20	35	<0.50	<0.50	<0.50	<0.50	<0.50	
9/19/2006	<600	<40	130	<1.0	<1.0	<1.0	<1.0	<1.0	a (ethanol)
12/19/2006	<600	<40	120	<1.0	<1.0	<1.0	<1.0	<1.0	a, c (ethanol)
3/29/2007	<300	<20	180	<0.50	<0.50	<0.50	<0.50	<0.50	
6/5/2007	<600	<40	130	<1.0	<1.0	<1.0	<1.0	<1.0	
9/11/2007	<300	<20	130	<0.50	<0.50	<0.50	<0.50	<0.50	d (ethanol), e (MTBE)
12/26/2007	<300	<20	150	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>MW-9</b>									
03/12/2003	<100	<20	0.59/<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	
06/28/2003	<100	<20	1.0	<0.50	<0.50	<0.50	<0.50	<0.50	
09/30/2003	<100	<20	16	<0.50	<0.50	<0.50	<0.50	<0.50	
12/05/2003	<100	<20	33	<0.50	<0.50	<0.50	<0.50	<0.50	
03/10/2004	<100	<20	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	a
06/21/2004	<100	<20	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	
09/17/2004	13	<20	0.72	<0.50	<0.50	<0.50	<0.50	<0.50	b
12/13/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
03/03/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
06/10/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

**Table 2. Summary of Fuel Additives Analytical Data**  
**Station #11120, 6400 Dublin Blvd., Dublin, 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>									
09/16/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
12/15/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
03/01/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
6/23/2006	<300	<20	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	
7/21/2006	--	--	--	--	--	--	--	--	Well Abandoned
<b>MW-10</b>									
03/12/2003	<100	<20	0.76/<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	
06/28/2003	<100	<20	0.68	<0.50	<0.50	<0.50	<0.50	<0.50	
09/30/2003	<100	<20	0.71	<0.50	<0.50	<0.50	<0.50	<0.50	
12/05/2003	<100	<20	0.78	<0.50	<0.50	<0.50	<0.50	<0.50	
03/10/2004	<100	<20	0.58	<0.50	<0.50	<0.50	<0.50	<0.50	a
06/21/2004	<100	<20	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	
09/17/2004	9.4	<20	0.82	<0.50	<0.50	<0.50	<0.50	<0.50	b
12/13/2004	<100	<20	0.73	<0.50	<0.50	<0.50	<0.50	<0.50	
03/03/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
06/10/2005	<100	<20	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	
09/16/2005	<100	<20	0.98	<0.50	<0.50	<0.50	<0.50	<0.50	
12/15/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
03/01/2006	<300	<20	0.59	<0.50	<0.50	<0.50	<0.50	<0.50	
6/23/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/19/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a (ethanol)
12/19/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a, c (ethanol)
3/29/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
6/5/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/11/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	d (ethanol)
12/26/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>MW-11</b>									
03/12/2003	<1,000	<200	650/2,900	<5.0	<5.0	<5.0	<5.0	<5.0	
06/28/2003	<10,000	<2,000	2,500	<50	<50	<50	<50	<50	
09/30/2003	<5,000	<1,000	3,200	<25	<25	<25	<25	<25	

**Table 2. Summary of Fuel Additives Analytical Data**  
**Station #11120, 6400 Dublin Blvd., Dublin, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-11 Cont.									
12/05/2003	<10,000	<2,000	3,500	<50	<50	<50	<50	<50	
03/10/2004	<5,000	<1,000	1,800	<25	<25	<25	<25	<25	a
06/21/2004	<10,000	<2,000	1,900	<50	<50	<50	<50	<50	
09/17/2004	13	<1,000	1,700	<25	<25	<25	<25	<25	b
12/13/2004	<1,000	<200	610	<5.0	<5.0	<5.0	<5.0	<5.0	
03/03/2005	<500	<100	190	<2.5	<2.5	<2.5	<2.5	<2.5	
06/10/2005	<200	<40	100	<1.0	<1.0	<1.0	<1.0	<1.0	a, c
09/16/2005	<200	<40	52	<1.0	<1.0	<1.0	<1.0	<1.0	
12/15/2005	<100	<20	9.0	<0.50	<0.50	<0.50	<0.50	<0.50	
03/01/2006	<300	<20	21	<0.50	<0.50	<0.50	<0.50	<0.50	
6/23/2006	<300	<20	23	<0.50	<0.50	<0.50	<0.50	<0.50	
9/19/2006	<300	<20	26	<0.50	<0.50	<0.50	<0.50	<0.50	a (ethanol)
12/19/2006	<300	<20	42	<0.50	<0.50	<0.50	<0.50	<0.50	a, c (ethanol)
3/29/2007	<300	<20	65	<0.50	<0.50	<0.50	<0.50	<0.50	
6/5/2007	<300	<20	74	<0.50	<0.50	<0.50	<0.50	<0.50	
9/11/2007	<300	<20	55	<0.50	<0.50	<0.50	<0.50	<0.50	d (ethanol)
12/26/2007	<300	<20	45	<0.50	<0.50	<0.50	<0.50	<0.50	

ABBREVIATIONS AND SYMBOLS:

TBA = tert-Butyl alcohol

MTBE = Methyl tert-butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tert-butyl ether

TAME = tert-Amyl methyl ether

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane

µg/L = micrograms per liter

< = Not detected at or above laboratory reporting limits

FOOTNOTES:

a = The continuing calibration verification 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 = Split samples were analyzed for ethanol by EPA Method 8260B SIM; ethanol was detected in trip blank at 34 micrograms per liter. Ethanol was not detected in confirmatory analysis of samples and trip blank on a different instrument; however, holding time had expired by then.

c = LCS recorded above methanol control limits. Analyte not detected. Data not impacted.

d = CCV recovery above limit; analyte not detected.

e = Sample > 4x spike concentration.

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 #11120, 6400 Dublin Blvd., Dublin, CA**

<b>Date Sampled</b>	<b>Approximate Flow Direction</b>	<b>Approximate Hydraulic Gradient</b>
8/25/1993	Southwest	0.002
11/22/1993	Southwest	0.002
3/7/1994	South-Southwest	0.002
6/9/1994	Southwest	0.003
9/12/1994	Southwest	0.002
12/20/1994	Southwest	0.004
3/16/1995	Southwest	0.003
6/28/1995	West	0.005
9/6/1995	Southwest	0.002
12/22/1995	Southwest	0.005
6/26/1996	Southeast	0.01
8/20/1996	West-Southwest	0.004
10/31/1996	Southwest	0.002
12/2/1996	Northeast	0.01
3/27/1997	Northeast and Southwest	0.007 to 0.01
6/3/1997	North-Northeast	0.008
9/16/1997	North and Southeast	0.001 to 0.009
2/25/2002	South	0.009
9/30/2002	South-Southeast	0.004
12/13/2002	Southeast	0.022
3/12/2003	Southeast	0.04
6/28/2003	Southeast	0.042
9/30/2003	Southeast	0.042
12/5/2003	South-Southeast	0.036
3/10/2004	Southeast	0.021
6/21/2004	Southeast	0.034
9/17/2004	Southeast	0.027
12/13/2004	South-Southeast	0.02
3/3/2005	South-Southwest	0.02
6/10/2005	Southwest	0.004
9/16/2005	Southwest	0.004
12/15/2005	Southwest	0.007
3/1/2006	Southwest	0.003
6/23/2006	West	0.004
9/19/2006	East-Southeast	0.012
12/19/2006	East-Southeast	0.014
3/29/2007	West	0.004
6/5/2007	East-Southeast	0.012
9/11/2007	West	0.004
12/26/2007	Southwest and Southeast	0.004

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 ENVIRONMENTAL, INC. GROUND-WATER SAMPLING DATA PACKAGE  
(INCLUDES FIELD DATA SHEETS, NON-HAZARDOUS WASTE DATA FORM,  
CHAIN OF CUSTODY DOCUMENTATION, AND CERTIFIED ANALYTICAL  
RESULTS)





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

January 10, 2008

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

Re: Groundwater Sampling Data Package, BP Service Station No. 11120, located at  
6400 Dublin Boulevard, Dublin, California

**General Information**

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

*Phone Number:* (530) 676-6000

*On-Site Supplier Representative:* Jerry Gonzales

*Sampling Date:* December 26, 2007

*Arrival:* 12:30                      *Departure:* 14:00

*Weather Conditions:* Clear

*Unusual Field Conditions:* None

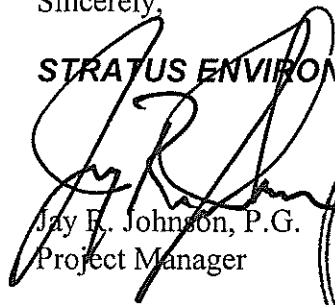
*Scope of Work Performed:* Quarterly monitoring and sampling

*Variations from Work Scope:* None

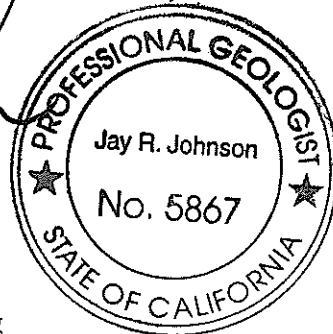
This submittal presents the tabulation of data collected in association with routine groundwater monitoring. The attachments include field data sheets, non-hazardous waste data form, chain of custody documentation, and certified analytical results. The information is being provided to BP-ARCO's Scoping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

Sincerely,

**STRATUS ENVIRONMENTAL, INC.**



Jay R. Johnson, P.G.  
Project Manager



**Attachments:**

- Bill of Lading
- Non-Hazardous Waste Data Form
- Chain of Custody Documentation
- Certified Analytical Results

CC: Mr. Paul Supple, BP/ARCO

# BP ALAMEDA PORTFOLIO

## HYDROLOGIC DATA SHEET

AK 12:30

DP-1400

Gauge Date: 12-26-07

Project Name: Dublin - 6400 Dublin Blvd.

Field Technician: Jerry

Project Number: 11120

TOC = Top of Well Casing Elevation  
 DTP = Depth to Free Product (FP or NAP1) Below TOC  
 DTW = Depth to Groundwater Below TOC  
 DTB = Depth to Bottom of Well Casing Below TOC

DIA = Well Casing Diameter  
 ELEV = Groundwater Elevation  
 DUP = Duplicate

WELL OR LOCATION	TIME	MEASUREMENT						PURGE & SAMPLE	SHEEN CONFIRMATION (w/batter)	COMMENTS
		TOC	DTP	DTW	DTB	DIA	ELEV			
MW-8	12:49			6.45	19.52					
MW-10	12:58			5.02	19.50					
MW-11	12:52			7.12	19.35					

# BP VALLEY PORTFOLIO

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11120 PURGED BY: Jc WELL I.D.: MW-8  
 CLIENT NAME: \_\_\_\_\_ SAMPLED BY: Jc SAMPLE I.D.: MW-8  
 LOCATION: Dublin - 6400 Dublin Blvd. QA SAMPLES: \_\_\_\_\_

DATE PURGED 12-26-07 START (2400hr) 13:35 END (2400hr) 13:38  
 DATE SAMPLED 12-26-07 SAMPLE TIME (2400hr) 13:45  
 SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 19.52 CASING VOLUME (gal) = 2.2  
 DEPTH TO WATER (feet) = 6.45 CALCULATED PURGE (gal) = 6.6  
 WATER COLUMN HEIGHT (feet) = 13.0 ACTUAL PURGE (gal) = 9.0

### FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>12-26-07</u>	<u>13:36</u>	<u>2.3</u>	<u>20.8</u>	<u>239.0</u>	<u>7.58</u>	<u>clear</u>	
<u>/</u>	<u>13:39</u>	<u>4.6</u>	<u>20.7</u>	<u>240.5</u>	<u>7.55</u>	<u>/</u>	
<u>/</u>	<u>13:38</u>	<u>7.0</u>	<u>20.9</u>	<u>239.0</u>	<u>7.53</u>	<u>/</u>	

SAMPLE DEPTH TO WATER: 6.84 SAMPLE INFORMATION SAMPLE TURBIDITY: clear

80% RECHARGE:  YES  NO ANALYSES: S-W-0  
 ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 3, Voa-HCC

PURGING EQUIPMENT	SAMPLING EQUIPMENT
<input type="checkbox"/> Bladder Pump <input checked="" type="checkbox"/> Centrifugal Pump <input type="checkbox"/> Submersible Pump <input type="checkbox"/> Peristaltic Pump Other: _____ Pump Depth: <u>15</u>	<input type="checkbox"/> Bladder Pump <input checked="" type="checkbox"/> Centrifugal Pump <input type="checkbox"/> Submersible Pump <input type="checkbox"/> Peristaltic Pump <input type="checkbox"/> Bailer (Teflon) <input type="checkbox"/> Bailer (PVC) <input type="checkbox"/> Bailer (Stainless Steel) <input type="checkbox"/> Dedicated _____ Other: _____

WELL INTEGRITY: good LOCK#: Master  
 REMARKS: DO 4.32

SIGNATURE: [Signature] Page \_\_\_\_\_ of \_\_\_\_\_

# BP VALLEY PORTFOLIO

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11120 PURGED BY: JC WELL I.D.: MW-10  
 CLIENT NAME: \_\_\_\_\_ SAMPLED BY: J SAMPLE I.D.: MW-10  
 LOCATION: Dublin - 6400 Dublin Blvd. QA SAMPLES: \_\_\_\_\_

DATE PURGED 12-26-09 START (2400hr) 13:01 END (2400hr) 13:09  
 DATE SAMPLED 12-26-09 SAMPLE TIME (2400hr) 13:15  
 SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 19.50 CASING VOLUME (gal) = 2.1  
 DEPTH TO WATER (feet) = 5.02 CALCULATED PURGE (gal) = 7.2  
 WATER COLUMN HEIGHT (feet) = 14.4 ACTUAL PURGE (gal) = 7.6

### FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>12-26-09</u>	<u>13:02</u>	<u>2.5</u>	<u>20.0</u>	<u>6.09</u>	<u>7.22</u>	<u>clear</u>	_____
<u>/</u>	<u>13:03</u>	<u>5.1</u>	<u>19.8</u>	<u>6.68</u>	<u>5.26</u>	<u>/</u>	_____
<u>/</u>	<u>13:04</u>	<u>7.6</u>	<u>20.2</u>	<u>7.00</u>	<u>5.31</u>	<u>/</u>	_____

SAMPLE DEPTH TO WATER: 7.28 SAMPLE INFORMATION SAMPLE TURBIDITY: clear

80% RECHARGE:  YES  NO ANALYSES: SW-0  
 ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 6 Vol. HCC

#### PURGING EQUIPMENT

Bladder Pump  Bailer (Teflon)  
 Centrifugal Pump  Bailer (PVC)  
 Submersible Pump  Bailer (Stainless Steel)  
 Peristaltic Pump  Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Pump Depth: 15

#### SAMPLING EQUIPMENT

Bladder Pump  Bailer (Teflon)  
 Centrifugal Pump  Bailer (  PVC or  disposable)  
 Submersible Pump  Bailer (Stainless Steel)  
 Peristaltic Pump  Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_

WELL INTEGRITY: good LOCK#: Muster

REMARKS: DO. 4.75

SIGNATURE: [Signature] Page    of

# BP VALLEY PORTFOLIO

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11120 PURGED BY: JG WELL I.D.: MW-11  
 CLIENT NAME: \_\_\_\_\_ SAMPLED BY: Jc SAMPLE I.D.: MW-11  
 LOCATION: Dublin - 6400 Dublin Blvd. QA SAMPLES: \_\_\_\_\_

DATE PURGED 12.26.07 START (2400hr) 13:20 END (2400hr) 13:23  
 DATE SAMPLED 12.26.07 SAMPLE TIME (2400hr) 13:30  
 SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 19.35 CASING VOLUME (gal) = 2.0  
 DEPTH TO WATER (feet) = 7.12 CALCULATED PURGE (gal) = 6.2  
 WATER COLUMN HEIGHT (feet) = 12.2 ACTUAL PURGE (gal) = 6.6

### FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>12.26.07</u>	<u>13:21</u>	<u>2.2</u>	<u>20.6</u>	<u>3048</u>	<u>7.33</u>	<u>clear</u>	
<u>/</u>	<u>13:22</u>	<u>4.4</u>	<u>21.1</u>	<u>236.9</u>	<u>7.41</u>	<u>/</u>	
<u>/</u>	<u>13:23</u>	<u>6.6</u>	<u>21.0</u>	<u>243.2</u>	<u>7.45</u>	<u>/</u>	

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 7.19 SAMPLE TURBIDITY: clear

80% RECHARGE:  YES  NO ANALYSES: S-W-0  
 ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 3 Vol. HCL

PURGING EQUIPMENT

Bladder Pump  Bailor (Teflon)  
 Centrifugal Pump  Bailor (PVC)  
 Submersible Pump  Bailor (Stainless Steel)  
 Peristaltic Pump  Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Pump Depth: 15

SAMPLING EQUIPMENT

Bladder Pump  Bailor (Teflon)  
 Centrifugal Pump  Bailor (  PVC or  disposable)  
 Submersible Pump  Bailor (Stainless Steel)  
 Peristaltic Pump  Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_

WELL INTEGRITY: Good LOCK#: Master  
 REMARKS: D.O 4.81

SIGNATURE: [Signature] Page    of



NO. 665059

# NON-HAZARDOUS WASTE DATA FORM

SITE:

EPA  
ID  
NO.

NOT REQUIRED

NAME **BP WEST COAST PRODUCTS LLC ARCO #11120**

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

PROFILE  
NO.

CITY, STATE, ZIP

PHONE NO. ( )

CONTAINERS: No. \_\_\_\_\_ VOLUME **21.2** WEIGHT \_\_\_\_\_

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

NON-HAZARDOUS WATER				WELL PURGING/DECON WATER			
WASTE DESCRIPTION		COMPONENTS OF WASTE		GENERATING PROCESS		COMPONENTS OF WASTE	
	PPM	%			PPM	%	
1. WATER	99-100%			6. _____			
2. TPH	<1%			6. _____			
3. _____				7. <b>BESI#</b>			
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**

**12-26-07**

TYPED OR PRINTED FULL NAME & SIGNATURE

DATE

**Transporter #1**

NAME **STRATUS ENVIRONMENTAL**

EPA  
ID  
NO.

ADDRESS **3330 CAMERON PARK DR**

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

CITY, STATE, ZIP **CAMERON PARK, CA 95682**

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

PHONE NO. **530-676-2031**

**Jerry Gonzalez**

**12-26-07**

TRUCK, UNIT, I.D. NO. \_\_\_\_\_

TYPED OR PRINTED FULL NAME & SIGNATURE

DATE

NAME **SEAPORT REFINING & ENVIRONMENTAL, LLC**

EPA  
ID  
NO.

ADDRESS **700 SEAPORT BLVD.**

DISPOSAL METHOD

CITY, STATE, ZIP **REDWOOD CITY, CA 94063**

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

PHONE NO. **650-364-1024**

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





A BP affiliated company

### Chain of Custody Record

Project Name: ARCO 11120  
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > 11120  
 State or Lead Regulatory Agency: \_\_\_\_\_  
 Requested Due Date (mm/dd/yy): \_\_\_\_\_

On-site Time	<u>12:30</u>	Temp.	<u>65</u>
Off-site Time	<u>14:00</u>	Temp.	<u>69</u>
Sky Conditions	<u>Clear</u>		
Meteorological Events	<u>None</u>		
Wind Speed	<u>0</u>	Direction	

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11120</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>6400 Dublin Blvd., Dublin</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>T0600101432</u>	Consultant/Contractor Project No.:
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: <u>G07TM-0019</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				
				Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	GROBTEX/Oxy*	1,2-DCA	Ethanol BY 8260	EDB	DRO					
1	MW-8	1345	12/26/09	X				3			X			X	X	X	X						
2	MW-10	1315	12/26/09	X				6			X			X	X	X	X						*Oxy - MTBE, TAME, ETBE, DIPE, TBA
3	MW-11	1330	12-26-09	X				3			X			X	X	X	X						
4	TB 11120	6:00	12-26-09	X				2			X			X	X	X	X						HOLD
5																							
6																							
7																							
8																							
9																							
10																							

Sampler's Name: <u>Jerry Gonzalez</u>	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: <u>Douglas ENV</u>		<u>12/27</u>	<u>1510</u>		<u>12/27</u>	<u>1510</u>
Shipment Date:						
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

14 January, 2008

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

RE: BP Heritage #11120, Dublin, CA  
Work Order: MQL0777

Enclosed are the results of analyses for samples received by the laboratory on 12/27/07 21:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa Race  
Senior Project Manager

CA ELAP Certificate # 2682

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

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: BP Heritage #11120, Dublin, CA Project Number: G07TM-0019 Project Manager: Jay Johnson	MQL0777 Reported: 01/14/08 15:42
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-8	MQL0777-01	Water	12/26/07 13:45	12/27/07 21:30
MW-10	MQL0777-02	Water	12/26/07 13:15	12/27/07 21:30
MW-11	MQL0777-03	Water	12/26/07 13:30	12/27/07 21:30
TB 11120	MQL0777-04	Water	12/26/07 06:00	12/27/07 21:30

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

Project: BP Heritage #11120, Dublin, CA  
Project Number: G07TM-0019  
Project Manager: Jay Johnson

MLQ0777  
Reported:  
01/14/08 15:42

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-8 (MLQ0777-01) Water</b> Sampled: 12/26/07 13:45 Received: 12/27/07 21:30									
<b>Gasoline Range Organics (C4-C12)</b>	97	50	ug/l	1	8A02003	01/02/08	01/02/08	LUFT GCMS	PV
Surrogate: 1,2-Dichloroethane-d4		95 %	60-150		"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		99 %	75-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90 %	55-130		"	"	"	"	
<b>MW-10 (MLQ0777-02) Water</b> Sampled: 12/26/07 13:15 Received: 12/27/07 21:30									
<b>Gasoline Range Organics (C4-C12)</b>	ND	50	ug/l	1	8A02003	01/02/08	01/02/08	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		94 %	60-150		"	"	"	"	
Surrogate: Dibromofluoromethane		93 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		97 %	75-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94 %	55-130		"	"	"	"	
<b>MW-11 (MLQ0777-03) Water</b> Sampled: 12/26/07 13:30 Received: 12/27/07 21:30									
<b>Gasoline Range Organics (C4-C12)</b>	ND	50	ug/l	1	8A02003	01/02/08	01/02/08	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		95 %	60-150		"	"	"	"	
Surrogate: Dibromofluoromethane		95 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		98 %	75-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90 %	55-130		"	"	"	"	

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

Project: BP Heritage #11120, Dublin, CA  
Project Number: G07TM-0019  
Project Manager: Jay Johnson

MLQ0777  
Reported:  
01/14/08 15:42

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-8 (MLQ0777-01) Water</b> Sampled: 12/26/07 13:45 Received: 12/27/07 21:30									
tert-Amyl methyl ether	ND	0.50	ug/l	1	8A02003	01/02/08	01/02/08	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	"	"	"	"	"	"	
Methyl tert-butyl ether	150	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		96 %	75-130		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95 %	60-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99 %	75-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		90 %	55-130		"	"	"	"	
<b>MW-10 (MLQ0777-02) Water</b> Sampled: 12/26/07 13:15 Received: 12/27/07 21:30									
tert-Amyl methyl ether	ND	0.50	ug/l	1	8A02003	01/02/08	01/02/08	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	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		93 %	75-130		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94 %	60-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97 %	75-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94 %	55-130		"	"	"	"	

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

Project: BP Heritage #11120, Dublin, CA  
Project Number: G07TM-0019  
Project Manager: Jay Johnson

MLQ0777  
Reported:  
01/14/08 15:42

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-11 (MLQ0777-03) Water Sampled: 12/26/07 13:30 Received: 12/27/07 21:30</b>									
tert-Amyl methyl ether	ND	0.50	ug/l	1	8A02003	01/02/08	01/02/08	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>45</b>	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		95 %	75-130		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95 %	60-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98 %	75-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		90 %	55-130		"	"	"	"	

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

Project: BP Heritage #11120, Dublin, CA  
Project Number: G07TM-0019  
Project Manager: Jay Johnson

MQL0777  
Reported:  
01/14/08 15:42

**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 8A02003 - EPA 5030B P/T / LUFT GCMS**

**Blank (8A02003-BLK1)**

Prepared & Analyzed: 01/02/08

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.24		"	2.50		90	60-150			
Surrogate: Dibromofluoromethane	2.27		"	2.50		91	75-130			
Surrogate: Toluene-d8	2.46		"	2.50		98	75-120			
Surrogate: 4-Bromofluorobenzene	2.25		"	2.50		90	55-130			

**Laboratory Control Sample (8A02003-BS2)**

Prepared & Analyzed: 01/02/08

Gasoline Range Organics (C4-C12)	517	50	ug/l	500		103	55-130			
Surrogate: 1,2-Dichloroethane-d4	2.21		"	2.50		88	60-150			
Surrogate: Dibromofluoromethane	2.19		"	2.50		88	75-130			
Surrogate: Toluene-d8	2.48		"	2.50		99	75-120			
Surrogate: 4-Bromofluorobenzene	2.43		"	2.50		97	55-130			

**Laboratory Control Sample Dup (8A02003-BSD2)**

Prepared & Analyzed: 01/02/08

Gasoline Range Organics (C4-C12)	513	50	ug/l	500		103	55-130	0.7	20	
Surrogate: 1,2-Dichloroethane-d4	2.27		"	2.50		91	60-150			
Surrogate: Dibromofluoromethane	2.27		"	2.50		91	75-130			
Surrogate: Toluene-d8	2.60		"	2.50		104	75-120			
Surrogate: 4-Bromofluorobenzene	2.44		"	2.50		98	55-130			

**Matrix Spike (8A02003-MS1)**

Source: MQL0777-02

Prepared & Analyzed: 01/02/08

Gasoline Range Organics (C4-C12)	488	50	ug/l	550	ND	89	25-150			
Surrogate: 1,2-Dichloroethane-d4	2.39		"	2.50		96	60-150			
Surrogate: Dibromofluoromethane	2.45		"	2.50		98	75-130			
Surrogate: Toluene-d8	2.49		"	2.50		100	75-120			
Surrogate: 4-Bromofluorobenzene	2.48		"	2.50		99	55-130			

**Matrix Spike Dup (8A02003-MSD1)**

Source: MQL0777-02

Prepared & Analyzed: 01/02/08

Gasoline Range Organics (C4-C12)	486	50	ug/l	550	ND	88	25-150	0.3	20	
Surrogate: 1,2-Dichloroethane-d4	2.32		"	2.50		93	60-150			
Surrogate: Dibromofluoromethane	2.42		"	2.50		97	75-130			
Surrogate: Toluene-d8	2.53		"	2.50		101	75-120			
Surrogate: 4-Bromofluorobenzene	2.47		"	2.50		99	55-130			

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

Project: BP Heritage #11120, Dublin, CA  
Project Number: G07TM-0019  
Project Manager: Jay Johnson

MLQ0777  
Reported:  
01/14/08 15:42

**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 8A02003 - EPA 5030B P/T / EPA 8260B**

**Blank (8A02003-BLK1)**

Prepared & Analyzed: 01/02/08

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>	2.27		"	2.50		91	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.24		"	2.50		90	60-150			
<i>Surrogate: Toluene-d8</i>	2.46		"	2.50		98	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.25		"	2.50		90	55-130			

**Laboratory Control Sample (8A02003-BS1)**

Prepared & Analyzed: 01/02/08

tert-Amyl methyl ether	10.5	0.50	ug/l	10.0		105	75-125			
Benzene	10.7	0.50	"	10.0		107	75-120			
tert-Butyl alcohol	191	20	"	200		95	80-120			
Di-isopropyl ether	10.7	0.50	"	10.0		107	70-130			
1,2-Dibromoethane (EDB)	10.3	0.50	"	10.0		103	75-130			
1,2-Dichloroethane	9.37	0.50	"	10.0		94	65-130			
Ethanol	196	300	"	200		98	50-150			
Ethyl tert-butyl ether	10.6	0.50	"	10.0		106	75-130			
Ethylbenzene	11.3	0.50	"	10.0		113	80-125			
Methyl tert-butyl ether	10.4	0.50	"	10.0		104	80-130			
Toluene	11.0	0.50	"	10.0		110	80-120			
Xylenes (total)	34.4	0.50	"	30.0		115	80-125			
<i>Surrogate: Dibromofluoromethane</i>	2.35		"	2.50		94	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.18		"	2.50		87	60-150			
<i>Surrogate: Toluene-d8</i>	2.49		"	2.50		100	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.46		"	2.50		98	55-130			

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 #11120, Dublin, CA  
Project Number: G07TM-0019  
Project Manager: Jay Johnson

MQL0777  
Reported:  
01/14/08 15:42

**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 8A02003 - EPA 5030B P/T / EPA 8260B**

Matrix Spike (8A02003-MS1)	Source: MQL0777-02		Prepared & Analyzed: 01/02/08							
tert-Amyl methyl ether	11.8	0.50	ug/l	10.0	ND	118	75-140			
Benzene	10.6	0.50	"	10.0	ND	106	80-120			
tert-Butyl alcohol	191	20	"	200	2.89	94	80-125			
Di-isopropyl ether	10.9	0.50	"	10.0	ND	109	75-135			
1,2-Dibromoethane (EDB)	10.9	0.50	"	10.0	ND	109	80-135			
1,2-Dichloroethane	9.57	0.50	"	10.0	ND	96	65-145			
Ethanol	162	300	"	200	ND	81	50-150			
Ethyl tert-butyl ether	11.1	0.50	"	10.0	ND	111	80-135			
Ethylbenzene	10.7	0.50	"	10.0	ND	107	75-130			
Methyl tert-butyl ether	10.7	0.50	"	10.0	0.220	105	75-145			
Toluene	11.0	0.50	"	10.0	ND	110	80-125			
Xylenes (total)	33.8	0.50	"	30.0	ND	112	75-125			
Surrogate: Dibromofluoromethane	2.45		"	2.50		98	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.39		"	2.50		96	60-150			
Surrogate: Toluene-d8	2.49		"	2.50		100	75-120			
Surrogate: 4-Bromofluorobenzene	2.48		"	2.50		99	55-130			

Matrix Spike Dup (8A02003-MSD1)	Source: MQL0777-02		Prepared & Analyzed: 01/02/08							
tert-Amyl methyl ether	11.7	0.50	ug/l	10.0	ND	117	75-140	0.3	25	
Benzene	10.3	0.50	"	10.0	ND	103	80-120	3	20	
tert-Butyl alcohol	185	20	"	200	2.89	91	80-125	3	25	
Di-isopropyl ether	10.6	0.50	"	10.0	ND	106	75-135	2	25	
1,2-Dibromoethane (EDB)	10.8	0.50	"	10.0	ND	108	80-135	0.8	30	
1,2-Dichloroethane	9.58	0.50	"	10.0	ND	96	65-145	0.1	25	
Ethanol	145	300	"	200	ND	72	50-150	11	25	
Ethyl tert-butyl ether	11.0	0.50	"	10.0	ND	110	80-135	1	25	
Ethylbenzene	10.6	0.50	"	10.0	ND	106	75-130	0.8	20	
Methyl tert-butyl ether	10.8	0.50	"	10.0	0.220	106	75-145	0.5	25	
Toluene	10.7	0.50	"	10.0	ND	107	80-125	3	25	
Xylenes (total)	33.0	0.50	"	30.0	ND	110	75-125	2	20	
Surrogate: Dibromofluoromethane	2.42		"	2.50		97	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.32		"	2.50		93	60-150			
Surrogate: Toluene-d8	2.53		"	2.50		101	75-120			
Surrogate: 4-Bromofluorobenzene	2.47		"	2.50		99	55-130			

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 #11120, Dublin, CA  
Project Number: G07TM-0019  
Project Manager: Jay Johnson

ML0777  
Reported:  
01/14/08 15:42

**Notes and Definitions**

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



bp  
A BP affiliated company

### Chain of Custody Record

Project Name: ARCO 11120  
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > 11120  
 State or Lead Regulatory Agency: \_\_\_\_\_  
 Requested Due Date (mm/dd/yy): \_\_\_\_\_

On-site Time: <u>12:30</u>	Temp: <u>65</u>
Off-site Time: <u>19:00</u>	Temp: <u>69</u>
Sky Conditions: <u>clear</u>	
Meteorological Events: <u>none</u>	
Wind Speed: <u>0</u>	Direction: _____

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11120</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>6400 Dublin Blvd., Dublin</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>T0600101432</u>	Consultant/Contractor Project No.: _____
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: <u>G07TM-0019</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>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	CRO/BTEX/Oxy*	1,2-DCA	Ethanol BY 8260	EDB	DRO					
1	MW-8	1345	12/26/07	X			01	3				X			X	X	X	X					
2	MW-10	1315	12/26/07	X			02	6				X			X	X	X	X					
3	MW-11	1330	12-26-07	X			03	3				X			X	X	X	X					*Oxy = MTBE, TAME, ETBE, DIPE, TBA
4	TB 11120	6:00	12-26-07	X			04	2				X			X	X	X	X					HOLD
5																							
6																							
7																							
8																							
9																							
10																							

Sampler's Name: <u>Jerry Gonzales</u>	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: <u>Douglas ENV</u>	<u>[Signature]</u>	<u>12/27</u>	<u>1510</u>	<u>[Signature]</u>	<u>12/27</u>	<u>1510</u>
Shipment Date:	<u>[Signature]</u>	<u>12/27</u>	<u>1750</u>	<u>[Signature]</u>	<u>12/27</u>	<u>1750</u>
Shipment Method:	<u>[Signature]</u>	<u>12/27</u>	<u>2130</u>	<u>[Signature]</u>	<u>12/27</u>	<u>2130</u>
Shipment Tracking No:						

Instructions: Please cc results to rmiller@broadbentinc.com

Body Seals In Place: Yes/No (No) | Temp Blank: Yes/No (Yes) | Cooler Temp on Receipt: S&F/C | Trip Blank: Yes/No (Yes) | MS/MSD Sample Submitted: Yes/No (Yes)

## TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: APLD  
 REC. BY (PRINT): DJ  
 WORKORDER: MOL 0777

DATE REC'D AT LAB: 12/27/07  
 TIME REC'D AT LAB: 2:30  
 DATE LOGGED IN: 12/28/07

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*								12/27/07 5:00 PM
2. Chain-of-Custody Present / <u>Absent</u> *								
3. Traffic Reports or Packing List Present / <u>Absent</u>								
4. Airbill: Airbill / Sticker 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 <u>Blank</u> / Temp Blank Received? (circle which, if yes) <u>Yes</u> / No*								
14. Read Temp: <u>4.3</u> Correction Factor: <u>-1.0</u> Corrected Temp: <u>3.3</u> Is corrected temp. 0-6°C? <u>Yes</u> / No** Reception (if any): Metals / Perchlorate on Ice or Problem COC								

**APPENDIX B**

HISTORICAL GROUND-WATER ANALYTICAL DATA FOR FORMER WELLS  
ABANDONED IN 1999 (SOURCE: ALISTO ENGINEERING)

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11120  
 6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALJSTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB	
MW-1	(c) 10/27/92	328.96	8.19	320.77	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	
MW-1	04/09/93	328.96	4.79	324.17	ND<50	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE	
MW-1	08/25/93	328.96	6.85	322.11	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	
MW-1	11/22/93	328.96	7.38	321.58	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE	
MW-1	03/07/94	328.96	5.89	323.07	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE	
MW-1	06/09/94	328.96	6.42	322.54	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	4.3	PACE	
MW-1	09/12/94	328.96	7.33	321.63	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	8.0	PACE	
MW-1	12/20/94	328.96	6.34	322.62	---	---	---	---	---	---	---	---	7.6	PACE
MW-1	03/16/95	328.96	4.37	324.59	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.00	---	---	---	
MW-1	05/28/95	328.96	5.35	323.61	---	---	---	---	---	---	---	---	---	
MW-1	09/06/95	328.96	6.44	322.52	ND<50	340	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	5.6	ATI	
MW-1	12/22/95	328.96	6.04	322.92	---	---	---	---	---	---	---	---	---	
MW-1	08/20/96	328.96	5.65	323.31	---	---	---	---	---	---	ND<5.0	7.4	ATI	
MW-1	08/21/96	328.96	---	---	---	---	---	---	---	---	---	---	---	
MW-1	10/31/96	328.96	5.99	322.97	ND<50	160	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	6.8	SPL	
MW-1	(d) 12/02/96	328.96	---	---	---	---	---	---	---	---	---	---	---	
MW-1	(d) 06/26/98	328.96	---	---	---	---	---	---	---	---	---	---	---	
MW-2	10/27/92	328.50	7.64	320.86	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	
MW-2	04/09/93	328.50	4.12	324.38	ND<50	80	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE	
MW-2	08/25/93	328.50	6.31	322.19	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE	
MW-2	11/22/93	328.50	7.12	321.38	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE	
MW-2	03/07/94	328.50	5.60	322.90	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE	
MW-2	06/09/94	328.50	5.91	322.59	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE	
MW-2	09/12/94	328.50	6.87	321.63	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	4.3	PACE	
MW-2	12/20/94	328.50	5.86	322.64	ND<50	160	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	8.2	PACE	
MW-2	03/16/95	328.50	3.77	324.73	---	---	---	---	---	---	---	---	7.5	PACE
MW-2	05/28/95	328.50	3.77	324.73	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	
MW-2	09/06/95	328.50	4.33	324.17	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	6.6	ATI	
MW-2	09/06/95	328.50	5.85	324.17	---	---	---	---	---	---	---	6.6	ATI	
MW-2	12/22/95	328.50	5.50	322.65	ND<50	210	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	
MW-2	08/20/96	328.50	5.07	323.00	---	---	---	---	---	---	ND<5.0	7.0	ATI	
MW-2	08/21/96	328.50	---	323.43	---	---	---	---	---	---	---	---	---	
MW-2	10/31/96	328.50	5.44	323.06	ND<50	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	---	---	---	
MW-2	12/22/96	328.50	5.50	323.00	---	---	---	---	---	---	---	7.0	SPL	
MW-2	03/27/97	328.50	4.61	323.89	---	---	---	---	---	---	---	---	---	
MW-2	06/03/97	328.50	7.14	321.36	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	---	---	---	
MW-2	09/16/97	328.50	6.10	322.40	---	---	---	---	---	---	---	5.8	SPL	
MW-2	12/03/97	328.50	6.22	322.28	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	---	---	---	
MW-2	06/26/98	328.50	4.86	323.64	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.2	SPL	
												4.6	SPL	

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11120  
 6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALUSTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-3	10/27/92	329.36	8.43	320.93	210	ND<50							
MW-3	01/08/93	329.36	4.90	324.46	400	260	3	0.7					
MW-3	08/25/93	329.36	7.13	322.23	2000	440	6.1	ND<0.5	0.9	30			PACE
MW-3	11/22/93	329.36	7.60	321.76	1800	360	ND<0.5	ND<0.5	ND<0.5	ND<0.5			PACE
MW-3	03/07/94	329.36	6.08	323.28	1300	5000	ND<2.5	ND<2.5	ND<2.5	ND<2.5	3300		PACE
MW-3	06/09/94	329.36	6.51	322.85	8500	2600	22	4.0	2.2	3.8	910	(e)	PACE
CC-1 (f)	06/09/94	—	—	—	8800	—	25	8.3	0.5	15	7200	(e)	PACE
MW-3	09/12/94	329.36	7.63	—	—	—	23	6.3	0.5	10	13000	(e)	PACE
CC-1 (f)	09/12/94	—	—	321.73	2100	3200	ND<5.0	ND<5.0	0.5	10	13000	(e)	PACE
MW-3	12/20/94	329.36	—	—	1800	—	ND<5.0	ND<5.0	8.8	20	3600	(e)	PACE
CC-1 (f)	12/20/94	—	6.41	322.95	18000	9600	79	28	8.0	10	3900	(e)	PACE
MW-3	03/16/95	329.36	—	—	17000	—	79	33	89	9.3	—	(e)	PACE
CC-1 (f)	03/16/95	—	4.39	321.97	6300	7000	79	80	80	ND<2.5	—	—	PACE
MW-3	06/28/95	329.36	—	—	6300	—	470	ND<5.0	210	—	—	—	PACE
CC-1 (f)	06/28/95	—	5.50	323.86	9000	3000	500	ND<5.0	230	19	—	—	ATI
MW-3	09/06/95	329.36	—	—	8000	—	(g) ND<10	ND<10	ND<10	ND<20	—	—	ATI
CC-1 (f)	09/06/95	—	6.66	322.70	10000	2800	(g) ND<10	ND<10	ND<10	ND<20	—	7.4	ATI
MW-3	12/22/95	329.36	—	—	9700	—	ND<50	ND<50	ND<50	ND<100	37000	—	ATI
MW-3	08/20/96	329.36	6.31	323.05	9200	2500	ND<50	ND<50	ND<50	ND<100	36000	—	ATI
MW-3	08/21/96	329.36	5.87	323.49	—	—	ND<50	ND<50	ND<50	ND<100	29000	—	ATI
CC-1 (f)	08/21/96	—	—	—	3700	1900	—	—	—	—	—	—	ATI
MW-3	10/31/96	329.36	—	—	3500	—	ND<25	ND<50	ND<50	ND<50	4100	—	—
CC-1 (f)	10/31/96	—	6.20	323.16	ND<250	ND<500	ND<25	ND<50	ND<50	ND<50	4000	6.8	SPL
MW-3	12/02/96	329.36	—	—	ND<250	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	—	SPL
CC-1 (f)	12/02/96	—	6.27	323.09	ND<250	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	6.8	SPL
MW-3	03/27/97	329.36	—	—	ND<250	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	—	—
MW-3	06/03/97	329.36	5.39	323.97	470	ND<100	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	6.4	SPL
CC-1 (f)	06/03/97	—	7.92	321.44	ND<250	100	ND<0.5	ND<1.0	ND<5.0	ND<5.0	ND<50	—	—
MW-3	09/16/97	329.36	—	—	ND<250	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	490	6.2	SPL
MW-3	12/03/97	329.36	6.67	322.69	ND<50	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	84	5.9	SPL
CC-1 (f)	12/03/97	—	6.81	322.55	ND<50	330	ND<2.5	ND<5.0	ND<5.0	ND<5.0	74.0	—	—
MW-3	06/26/98	329.36	5.08	324.28	ND<50	ND<200	ND<0.5	ND<5.0	ND<5.0	ND<5.0	ND<50	5.5	SPL
					ND<50	—	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.0	SPL
					ND<250	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<10	—	SPL
												4.8	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11120  
 6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-4	10/27/92	329.45	8.61	320.84									
MW-4	04/09/93	329.45	5.25	324.20	2300	190	23	54	50	320			
MW-4	08/25/93	329.45	7.32	322.13	1800	500	78	3.5	68	1.0			PACE
QC-1 (f)	08/25/93				1800	380	ND<0.5	ND<0.5	ND<0.5	ND<0.5			PACE
MW-4	11/22/93	329.45	7.83	321.62	1600		ND<0.5	ND<0.5	ND<0.5	ND<0.5	2100	(e)	PACE
QC-1 (f)	11/22/93				1700		ND<0.5	ND<0.5	ND<0.5	ND<0.5	2100	(e)	PACE
MW-4	03/07/94	329.45	6.29	323.16	710	1400	ND<2.5	ND<2.5	ND<2.5	ND<2.5			PACE
QC-1 (f)	03/07/94				710	1400	0.5	0.8	ND<0.5	ND<0.5	3500	(e)	PACE
MW-4	06/09/94	329.45	6.76	322.69	1600		ND<0.5	ND<0.5	ND<0.5	ND<0.5	5900	(e)	PACE
MW-4	09/12/94	329.45	7.83	321.62	6400	1800	ND<10	ND<10	ND<10	0.6	4200	(e)	PACE
MW-4	12/20/94	329.45	6.68	322.77	2000	2700	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10000	(e)	PACE
MW-4	03/16/95	329.45	4.66	324.79	9200	2400	ND<5.0	ND<5.0	ND<5.0	ND<5.0	4200	(e)	PACE
MW-4	06/28/95	329.45	5.93	323.52	1400	960	ND<2.5	ND<2.5	ND<2.5	ND<2.5			PACE
MW-4	09/06/95	329.45	6.83	322.62	5000	5400	ND<5.0	ND<5.0	ND<5.0	ND<5.0			PACE
MW-4	12/22/95	329.45	6.42	323.03	4400	4500	(g) 240	ND<5.0	220	ND<10			ATI
QC-1 (f)	12/22/95				3800	4700	ND<13	ND<13	ND<13	ND<13			ATI
MW-4	08/20/96	329.45	6.01	323.44	3900		15	ND<13	ND<13	ND<25	12000		ATI
MW-4	08/21/96	329.45					16	ND<13	ND<13	ND<25	9200		ATI
MW-4	10/31/96	329.45			ND<250					ND<25	8600		ATI
MW-4	12/02/96	329.45	6.37	323.08	ND<250	470	ND<12	ND<25	ND<25	ND<25			
MW-4	03/27/97	329.45	6.71	322.74	ND<50	1600	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<250	7.7	SPL
QC-1 (f)	03/27/97		5.70	323.75	ND<50	13000	ND<5	ND<10	ND<5.0	ND<5.0	ND<50	7.1	SPL
MW-4	08/03/97	329.45			8300	1500	ND<10	ND<10	ND<10	ND<10	2200		SPL
MW-4	09/16/97	329.45	8.37	321.08	6900		44	ND<25	ND<25	ND<25	8000		SPL
QC-1 (f)	09/16/97		6.91	322.54	2800	270	51	ND<25	ND<25	ND<25	8500		SPL
MW-4	12/03/97	329.45			110	1800	62	ND<1.0	ND<1.0	ND<1.0	7000		SPL
MW-4	06/26/98	329.45	7.16	322.29	130		0.80	ND<1.0	ND<1.0	ND<1.0	7700		SPL
			5.15	324.30	ND<50	ND<200	1.2	ND<1.0	ND<1.0	ND<1.0	7100		SPL
					520		0.52	ND<1.0	ND<1.0	ND<1.0	1100		SPL
MW-5	04/09/93	329.60	5.18	324.42									
MW-5	08/25/93	329.60	7.28	322.32	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5			
MW-5	11/22/93	329.60	7.82	321.78	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5			PACE
MW-5	03/07/94	329.60	6.27	323.33	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5			PACE
MW-5	06/09/94	329.60	6.79	322.87	ND<50	120	ND<0.5	ND<0.5	ND<0.5	ND<0.5			PACE
MW-5	09/12/94	329.60	7.78	321.82	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5			PACE
MW-5	12/20/94	329.60	6.63	322.97	ND<50	120	ND<0.5	ND<0.5	ND<0.5	ND<0.5			PACE
MW-5	03/16/95	329.60	4.65	324.95									PACE
MW-5	06/28/95	329.60	5.69	323.91	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<0.50			
MW-5	09/06/95	329.60	6.82	322.78									
MW-5	12/22/95	329.60	6.40	323.20	ND<50	200	ND<0.50	ND<0.50	ND<0.50	ND<1.0		4.9	ATI
MW-5	08/20/96	329.60	5.98	323.62									
MW-5	08/21/96	329.60									ND<5.0	7.3	ATI
MW-5	10/31/96	329.60			ND<50	ND<50							
MW-5	12/02/96	329.60	6.29	323.31			ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<10		
MW-5	03/27/97	329.60	6.37	323.23								6.9	SPL
MW-5	08/03/97	329.60	5.33	324.27									
MW-5	09/16/97	329.60	8.00	321.60	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0			
MW-5	12/03/97	329.60	6.89	322.71							ND<10	5.8	SPL
MW-5	06/26/98	329.60	6.99	322.61	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0			
			5.11	324.40	ND<50						27	5.4	SPL
							ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.7	SPL



TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11120  
 6100 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-6	04/09/93	329.55	5.37	324.18	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—
MW-6	09/25/93	329.55	7.42	322.13	ND<50	170	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-6	11/22/93	329.55	7.93	321.62	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-6	03/07/94	329.55	6.25	323.30	ND<50	90	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-6	06/09/94	329.55	6.85	322.70	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	4.2	PACE
MW-6	09/12/94	329.55	7.91	321.64	ND<50	240	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	7.0	PACE
MW-6	12/20/94	329.55	6.82	322.73	—	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	6.7	PACE
MW-6	03/16/95	329.55	4.78	324.77	ND<50	ND<500	ND<0.50	—	—	—	—	—	—
MW-6	06/20/95	329.55	5.97	323.58	—	—	—	ND<0.50	ND<0.50	ND<1.0	—	—	—
MW-6	09/06/95	329.55	6.94	322.61	ND<50	—	—	—	—	—	—	6.1	ATI
MW-6	12/22/95	329.55	6.53	323.02	—	340	ND<0.50	—	—	—	—	—	—
MW-6	08/20/96	329.55	6.18	323.37	—	—	—	ND<0.50	ND<0.50	ND<1.0	ND<5.0	7.2	ATI
MW-6	08/21/96	329.55	—	—	—	—	—	—	—	—	—	—	—
MW-6	10/31/96	329.55	5.52	323.03	ND<50	120	ND<0.5	—	—	—	—	—	—
MW-6	12/02/96	329.55	6.55	323.00	—	—	—	ND<1.0	ND<1.0	ND<1.0	ND<10	—	SPL
MW-6	03/27/97	329.55	5.50	324.05	—	—	—	—	—	—	—	—	—
MW-6	06/03/97	329.55	8.19	321.36	ND<50	ND<100	ND<0.5	—	—	—	—	—	—
MW-6	09/16/97	329.55	6.95	322.60	—	—	—	ND<1.0	ND<1.0	ND<1.0	ND<10	6.3	SPL
MW-6	12/03/97	329.55	7.22	322.33	ND<250	680	ND<2.5	—	—	—	—	—	—
MW-6	06/26/98	329.55	5.20	324.35	—	—	—	ND<5.0	ND<5.0	ND<5.0	ND<50	5.5	SPL
MW-7	04/09/93	329.49	5.36	324.13	ND<50	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.6	SPL
MW-7	08/25/93	329.49	7.44	322.05	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—
MW-7	11/22/93	329.49	7.92	321.57	ND<50	150	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-7	03/07/94	329.49	6.20	323.29	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-7	06/09/94	329.49	6.89	322.60	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-7	09/12/94	329.49	7.07	321.62	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	3.7	PACE
MW-7	12/20/94	329.49	6.77	322.72	ND<50	50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	6.8	PACE
MW-7	03/16/95	329.49	4.77	324.72	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	6.8	PACE
MW-7	06/20/95	329.49	5.94	323.55	ND<50	ND<500	ND<0.50	ND<0.5	ND<0.5	ND<0.5	—	6.5	PACE
MW-7	09/06/95	329.49	6.98	322.51	ND<50	320	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	5.9	ATI
MW-7	12/22/95	329.49	6.65	322.84	ND<50	240	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	7.8	ATI
MW-7	08/20/96	329.49	6.22	323.27	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	8.5	7.5	ATI
MW-7	08/21/96	329.49	—	—	—	—	—	ND<0.50	ND<0.50	ND<1.0	7.2	6.9	ATI
MW-7	10/31/96	329.49	6.56	322.93	ND<50	ND<50	ND<0.5	—	—	—	—	—	—
MW-7	12/02/96	329.49	6.13	323.36	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	—	SPL
MW-7	03/27/97	329.49	5.08	324.41	ND<50	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	86	6.8	SPL
MW-7	06/03/97	329.49	7.80	321.69	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	59	7.3	SPL
MW-7	09/16/97	329.49	6.50	322.99	650	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	630	6.6	SPL
MW-7	12/03/97	329.49	6.66	322.83	120	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	6.8	SPL
MW-7 (h)	06/26/98	329.49	4.96	324.53	ND<50	ND<200	ND<0.5	ND<1.0	ND<1.0	ND<1.0	2200	6.0	SPL
					ND<50	—	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.0	SPL
									ND<1.0	ND<1.0	ND<10	5.1	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11120  
 6100 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
QC-2 (i)	08/25/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (i)	11/22/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (i)	03/07/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (i)	06/09/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (i)	09/12/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (i)	12/20/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (i)	03/16/95	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (i)	06/28/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	PACE
QC-2 (i)	09/06/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	ATI
QC-2 (i)	12/22/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	ATI
					ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	ATI

ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline  
 TPH-D Total petroleum hydrocarbons as diesel  
 B Benzene  
 T Toluene  
 E Ethylbenzene  
 X Total xylenes  
 MTBE Methyl tert butyl ether  
 DO Dissolved oxygen  
 ug/l Micrograms per liter  
 ppm Parts per million  
 ND Not detected above reported detection limit  
 --- Not analyzed/applicable/measured  
 PACE Pace, Inc.  
 ATI Analytical Technologies, Inc.  
 SPL Southern Petroleum Laboratories

NOTES:

- (a) Top of casing elevations surveyed to an arbitrary datum.
- (b) Groundwater elevations relative to an arbitrary datum.
- (c) Analysis did not detect total oil and grease and halogenated volatile organic compounds above reported detection limits.
- (d) Well inaccessible.
- (e) A copy of the documentation for this data is included in Appendix C of Alisto report 10-170-05-001.
- (f) Blind duplicate.
- (g) MTBE peak. Refer to documentation for this data in Appendix C of Alisto report 10-170-05-001.
- (h) Analysis did not detect volatile organic compounds above reported detection limits.
- (i) Travel blank.

FD1110 170170-5-1.WD2

TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING FOR EPA METHOD 8260 ANALYSIS  
 BP OIL COMPANY SERVICE STATION NO. 11120  
 6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TBA (ug/l)	TAME (ug/l)	LAL
MW-4	06/26/98	ND<5	ND<5	ND<5	ND<5	ND<10	ND<10	ND<10	ND<500	ND<10	SPL
MW-7	06/26/98	ND<5	ND<5	ND<5	ND<5	ND<10	ND<10	ND<10	ND<500	ND<10	SPL

ABBREVIATIONS:

- B Benzene
- T Toluene
- E Ethylbenzene
- X Total xylenes
- MTBE Methyl tert butyl ether
- DIPE Di-isopropyl ether
- ETBE Ethyl t-butyl ether
- TBA t-butyl ether
- TAME tert-amyl methyl ether
- ug/l Micrograms per liter
- ND Not detected above reported detection limit
- SPL Southern Petroleum Laboratories

FA01\10-170\10-170EC.WQ2

**APPENDIX C**

**GEOTRACKER UPLOAD CONFIRMATION**

# Electronic Submittal Information

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**Confirmation Number:** 7535560071

**Date/Time of Submittal:** 1/25/2008 4:42:27 PM

**Facility Global ID:** T0600101432

**Facility Name:** BP #11120

**Submittal Title:** 4Q07 GW Monitoring

**Submittal Type:** GW Monitoring Report

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

<b>BP #11120</b> 6400 DUBLIN DUBLIN, CA 94568	<b>Regional Board - Case #: 01-1556</b> SAN FRANCISCO BAY RWQCB (REGION 2) <b>Local Agency (lead agency) - Case #: RO0002431</b> ALAMEDA COUNTY LOP - (BC)
---	---

<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
7535560071	4Q07 GW Monitoring	Q4 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	1/25/2008	PENDING REVIEW

## SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	3
# FIELD POINTS WITH DETECTIONS	2
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	1
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
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

**SOIL SAMPLES FOR 8021/8260 SERIES**

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

**FIELD QC SAMPLES**

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

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CONTACT SITE ADMINISTRATOR.

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<b><u>Facility Global ID:</u></b>	T0600101432
<b><u>Facility Name:</u></b>	BP #11120
<b><u>Submittal Date/Time:</u></b>	1/23/2008 2:27:18 PM
<b><u>Confirmation Number:</u></b>	2739790201

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