



**RECEIVED**

*4:16 pm, May 15, 2012*

Alameda County  
Environmental Health

August 11, 2010

**Re: Second Quarter 2010  
Groundwater Monitoring Report**  
Shell-Branded Service Station  
4895 Hacienda Drive  
Dublin, California

Dear Mr. Jerry Wickham:

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Sincerely,  
Shell Oil Products US

A handwritten signature in black ink, appearing to read "Denis Brown", with a long horizontal flourish extending to the right.

Denis L. Brown  
Project Manager

August 11, 2010  
DELTA Project No. SCA4895H1D  
SAP No. 165112

Mr. Jerry Wickham  
Alameda County Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

Re: **SECOND QUARTER 2010  
GROUNDWATER MONITORING REPORT**  
Shell-branded Service Station  
4895 Hacienda Drive  
Dublin, California



Dear Mr. Wickham:

On behalf of Equilon Enterprises LLC *dba* Shell Oil Products US (Shell), Delta Consultants (Delta) has prepared this *Second Quarter 2010 Groundwater Monitoring Report* for the above referenced site. The sampling activities at the site were conducted by Blaine Tech Services, Inc. (Blaine Tech) under direct contract to Shell and included the collection of groundwater samples and static water level measurements. Delta did not provide any oversight of Blaine Tech's work or protocol. A Delta staff member, under the supervision of a California Registered Civil Engineer or a California Professional Geologist, performed evaluation of the data provided to us.

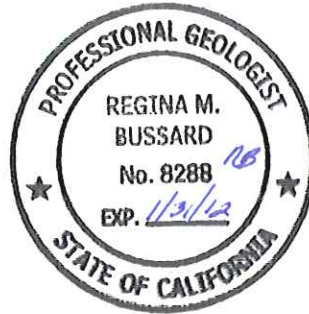
This report represents Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

If you have any questions, please contact Regina Bussard (Delta) at (408) 826-1876 or Denis Brown (Shell) at (707) 865-0251.

Sincerely,  
Delta Consultants



Regina Bussard, P.G.  
Project Geologist



Attachment: Second Quarter 2010 Groundwater Monitoring Report

cc: Mr. Denis Brown, Shell Oil Products US, Carson  
Mr. Carl Cox, C and J Cox Corporation, Pleasanton  
Ms. Cheryl Dizon, Zone 7 Water Agency, Livermore

## SHELL MONITORING REPORT

Station Address:	4895 Hacienda Drive, Dublin, California
DELTA Project No.:	SCA4895H1D
SHELL Project Manager / Phone No.:	Denis Brown / (707) 865-0251
DELTA Site Manager / Phone No.:	Regina Bussard / (408) 826-1876
Primary Agency / Regulatory ID No.:	Alameda County Environmental Health / Mr. Jerry Wickham
Other Agencies to Receive Copies:	Zone 7 Water Agency / Ms. Cheryl Dizon

### WORK PERFORMED THIS QUARTER (SECOND – 2010):

1. Submitted a *Well Installation Report* on April 15, 2010.
2. Performed quarterly groundwater monitoring and sampling on May 6, 2010.

### WORK PROPOSED FOR QUARTER (THIRD – 2010):

1. Submit the 2Q10 quarterly groundwater monitoring report.
2. Perform quarterly groundwater monitoring and sampling.
3. Complete a sensitive receptor survey and submit a site assessment work plan by September 10, 2010.

Current Phase of Project:	Groundwater monitoring
Site Use:	Shell-branded Service Station
Frequency of Sampling:	Quarterly
Frequency of Monitoring:	Quarterly
Is Separate Phase Hydrocarbon Present On-site (Well #'s):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Cumulative SPH Recovered to Date:	None
SPH Recovered This Quarter:	None
Cumulative Groundwater Recovered to Date:	935.2 gallons since 1Q10
Groundwater Recovered This Quarter:	173.7 gallons recovered during sampling on May 6, 2010.
Sensitive Receptor(s) and Respective Direction(s):	Unknown
General Site Lithology:	Low permeability clay to 20 feet bgs, permeable sandy clay from 20 to 30 ft. Layers of clayey sand and sand were observed at 40 to 43 ft and at 55 ft interbedded with low permeability clay.
Current Remediation Techniques:	None
Permits for Discharge:	None
Approximate Depth to Groundwater:	11.99 to 13.51 feet below top of well casing – groundwater is confined at 20'
Groundwater Gradient:	South-southeast at 0.002 ft/ft
Current Agency Correspondence:	Alameda County June 30, 2010
Date of Most Recent Work Plan Approval:	November 17, 2009

## SHELL MONITORING REPORT (CONT.)

### Site History:

Case Opening	2008
Onsite Assessment	2010
Offsite Assessment	NA
Passive Remediation	NA
Active Remediation	NA
Closure	NA
Summary of Unusual Activity:	None

### Comments:

During the quarterly event on May 6, 2010, total petroleum hydrocarbons as gasoline (TPH-g), reported by the laboratory as total purgeable petroleum hydrocarbons (TPPH), was detected in Well MW-2 and at a concentration of 100 micrograms per liter ( $\mu\text{g/L}$ ) and in Well MW-5 at a concentration of 160  $\mu\text{g/L}$ . Methyl-tert butyl ether (MTBE) was detected in wells MW-2, MW-3, MW-5 and MW-6 at concentrations ranging from 6.9  $\mu\text{g/L}$  (MW-3) to 210  $\mu\text{g/L}$  (MW-5). The concentrations detected are consistent with previous data.

### **ATTACHMENTS:**

#### Figures:

Figure 1 – Site Location Map

Figure 2 – Groundwater Elevation Contour Map – 5/6/2010

Figure 3 – Hydrocarbon Distribution in Groundwater Map – 5/6/2010

#### Table:

Table 1 – Well Concentrations

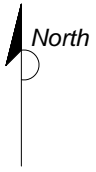
#### Appendices:

Appendix A – Blaine Tech Services, Inc. Field Data Sheets

Appendix B – Blaine Tech Services, Inc. Field Procedures

Appendix C – Certified Analytical Report with Chain-of-Custody Documentation

## FIGURES



4895 HACIENDA DRIVE  
DUBLIN, CALIFORNIA

0 1 MILE



APPROX. SCALE

FIGURE 1  
SITE LOCATION MAP

SHELL-BRANDED SERVICE STATION  
4895 HACIENDA DRIVE  
DUBLIN, CALIFORNIA

PROJECT NO. SCA4895H1	DRAWN BY AD SEPT, 2009
FILE NO.	PREPARED BY AD
REVISION NO. 2	REVIEWED BY



PROJECT NUMBER SCA4895H1D

APPROVED BY

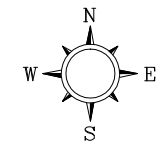
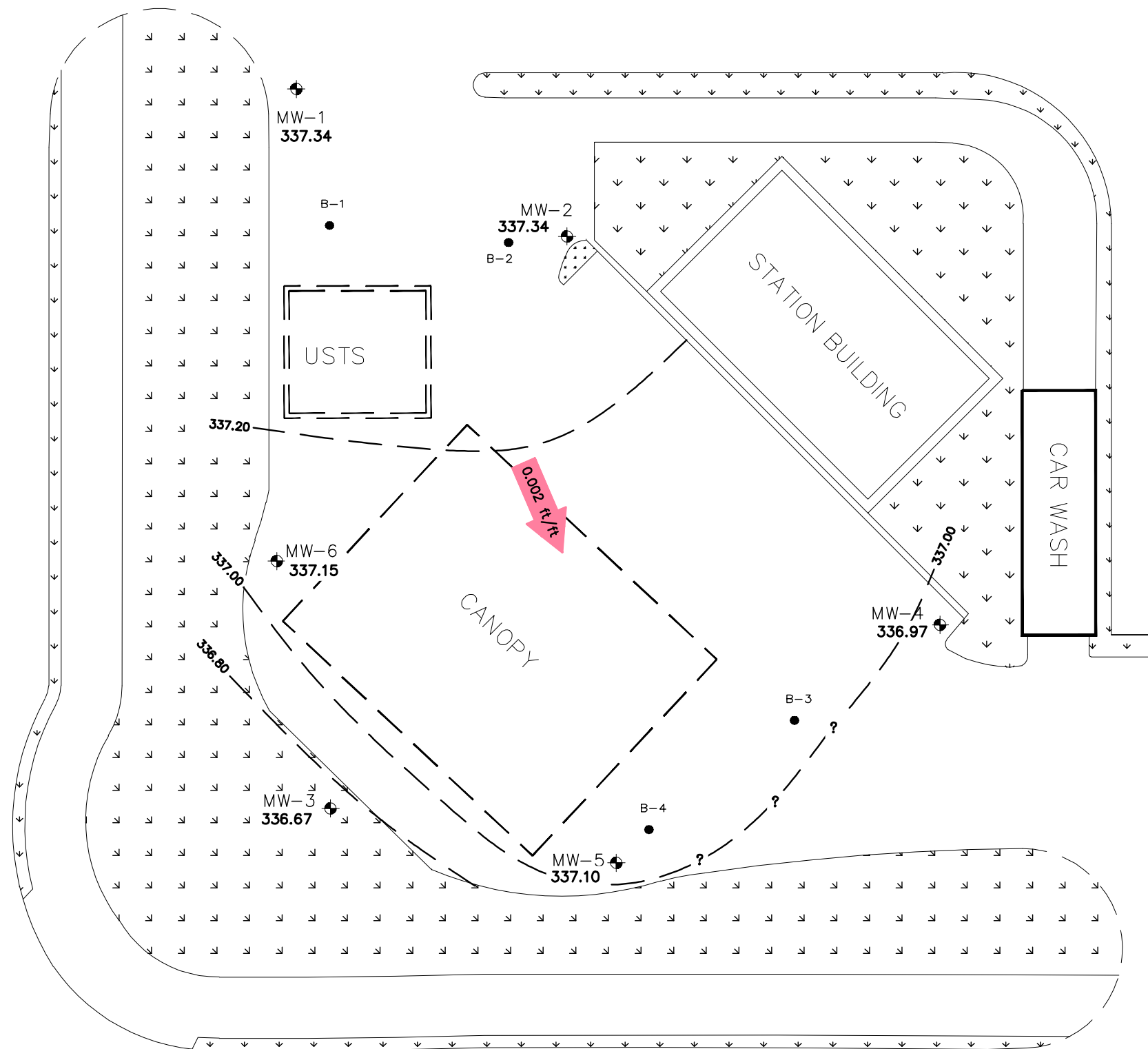
CHECKED BY

DRAWN BY J.F.F.

SCALE IN FEET

HACIENDA DRIVE

HACIENDA CROSSINGS/MARTINELLI WAY



**LEGEND**

- B-1 ● SOIL BORING (AUGUST 20, 2008)
- MW-1 ⊕ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- 337.58 GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL)
- 337.35 — GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL)  
CONTOUR INTERVAL=0.20 FEET
- 0.002 ft/ft → APPROXIMATE GROUNDWATER DIRECTION
- DTW DEPTH TO WATER
- TOC TOP OF CASING
- GW GROUNDWATER ELEVATION



SHELL OIL PRODUCTS US  
SHELL SERVICE STATION  
DUBLIN, CALIFORNIA

**FIGURE 2**  
**GROUNDWATER ELEVATION CONTOUR MAP**  
**5/8/2010**

4895 HACIENDA DRIVE  
DUBLIN, CALIFORNIA

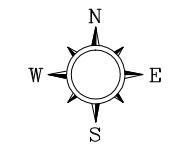
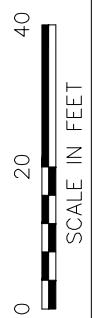


PROJECT NUMBER SCA4895H1D

APPROVED BY

CHECKED BY

DRAWN BY J.F.F. 4/8/2010



LEGEND

- B-1 ● SOIL BORING (AUGUST 20, 2008)
- MW-1 ◆ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- TPPH TOTAL PURGEABLE PETROLEUM HYDROCARBONS
- MTBE METHYL TERT-BUTYL ETHER
- TBA TERT-BUTYL ALCOHOL
- ND< NOT DETECTED ABOVE LIMIT NOTED (µg/L)

MW-1				
DATE	TPPH (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
5/6/10	ND<50	ND<0.50	ND<1.0	ND<10

MW-2				
DATE	TPPH (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
5/6/10	100	ND<0.50	130	ND<10

MW-6				
DATE	TPPH (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
5/6/10	ND<50	ND<0.50	7.4	ND<10

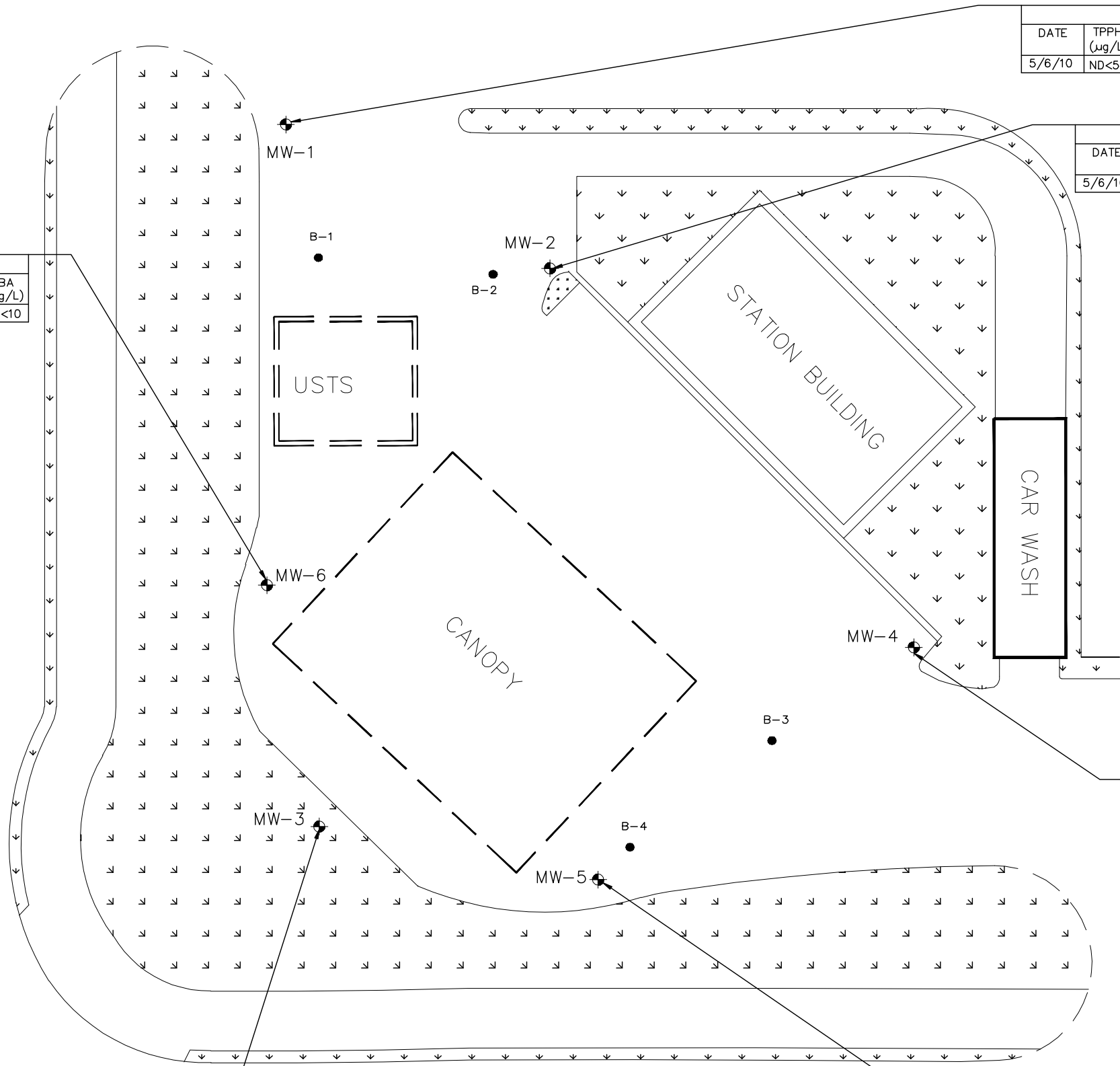
MW-4				
DATE	TPPH (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
5/6/10	ND<50	ND<0.50	ND<1.0	ND<10

MW-3				
DATE	TPPH (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
5/6/10	ND<50	ND<0.50	6.9	ND<10

MW-5				
DATE	TPPH (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
5/6/10	160	ND<1.0	210	ND<20

HACIENDA DRIVE

HACIENDA CROSSINGS/MARTINELLI WAY



SHELL OIL PRODUCTS US  
SHELL SERVICE STATION  
DUBLIN, CALIFORNIA

**FIGURE 3**  
**HYDROCARBON DISTRIBUTION**  
**IN GROUNDWATER MAP**  
**5/6/2010**

4895 HACIENDA DRIVE  
DUBLIN, CALIFORNIA

## TABLE

**TABLE 1**  
**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4895 Hacienda Drive**  
**Dublin, CA**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	3/15/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	349.33	11.65	337.68	NA
MW-1	3/19/2010	<50	<50 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	349.33	11.75	337.58	NA
<b>MW-1</b>	<b>5/6/2010</b>	<b>&lt;50</b>	<b>&lt;50 a</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;10</b>	<b>349.33</b>	<b>11.99</b>	<b>337.34</b>	<b>NA</b>
MW-2	3/15/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	350.66	12.95	337.71	NA
MW-2	3/19/2010	230	<50 a	<0.50	<1.0	<1.0	<1.0	180	<2.0	<2.0	<2.0	<10	350.66	13.16	337.50	NA
<b>MW-2</b>	<b>5/6/2010</b>	<b>100</b>	<b>&lt;50 a</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>130</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;10</b>	<b>350.66</b>	<b>13.32</b>	<b>337.34</b>	<b>NA</b>
MW-3	3/15/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	350.18	12.62	337.56	NA
MW-3	3/19/2010	<50	<50 a	<0.50	<1.0	<1.0	<1.0	11	<2.0	<2.0	<2.0	<10	350.18	12.84	337.34	NA
<b>MW-3</b>	<b>5/6/2010</b>	<b>&lt;50</b>	<b>&lt;50 a</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>6.9</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;10</b>	<b>350.18</b>	<b>13.51</b>	<b>336.67</b>	<b>NA</b>
MW-4	3/15/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	350.32	12.85	337.47	NA
MW-4	3/19/2010	<50	<50 a	<0.50	<1.0	<1.0	<1.0	3.3	<2.0	<2.0	<2.0	<10	350.32	12.98	337.34	NA
<b>MW-4</b>	<b>5/6/2010</b>	<b>&lt;50</b>	<b>&lt;50 a</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;10</b>	<b>350.32</b>	<b>13.35</b>	<b>336.97</b>	<b>NA</b>
MW-5	3/15/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	350.31	12.80	337.51	NA
MW-5	3/19/2010	410	<50 a	<0.50	<1.0	<1.0	<1.0	310	<2.0	<2.0	<2.0	<10	350.31	12.99	337.32	NA
<b>MW-5</b>	<b>5/6/2010</b>	<b>160</b>	<b>&lt;50 a</b>	<b>&lt;1.0</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>210</b>	<b>&lt;4.0</b>	<b>&lt;4.0</b>	<b>&lt;4.0</b>	<b>&lt;20</b>	<b>350.31</b>	<b>13.21</b>	<b>337.10</b>	<b>NA</b>
MW-6	3/15/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	350.29	12.79	337.50	NA
MW-6	3/19/2010	<50	<50 a	<0.50	<1.0	<1.0	<1.0	18	<2.0	<2.0	<2.0	<10	350.29	12.84	337.45	NA
<b>MW-6</b>	<b>5/6/2010</b>	<b>&lt;50</b>	<b>&lt;50 a</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>7.4</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;10</b>	<b>350.29</b>	<b>13.14</b>	<b>337.15</b>	<b>NA</b>

**TABLE 1**  
**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4895 Hacienda Drive**  
**Dublin, CA**

<b>Well ID</b>	<b>Date</b>	<b>TPPH</b> (ug/L)	<b>TEPH</b> (ug/L)	<b>B</b> (ug/L)	<b>T</b> (ug/L)	<b>E</b> (ug/L)	<b>X</b> (ug/L)	<b>MTBE</b> <b>8260</b> (ug/L)	<b>DIPE</b> (ug/L)	<b>ETBE</b> (ug/L)	<b>TAME</b> (ug/L)	<b>TBA</b> (ug/L)	<b>TOC</b> (MSL)	<b>Depth to</b> <b>Water</b> (ft.)	<b>GW</b> <b>Elevation</b> (MSL)	<b>DO</b> <b>Reading</b> (ppm)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B

TEPH = Total petroleum hydrocarbons as diesel by EPA Method 8015

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B

ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B

TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B

TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B

TOC = Top of Casing Elevation

GW = Groundwater

DO = Dissolved Oxygen

ug/L = Parts per billion

ppm = Parts per million

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

n/n = Pre-purge/Post-purge Dissolved Oxygen Reading.

NA = Not applicable

ND = Not detected

Notes:

a = The sample extract was subjected to Silica Gel treatment prior to analysis.

Site surevey dated March 19, 2010 provided by Mid Coast Engineers, CA.

**APPENDIX A**

**BLAINE TECH SERVICES, INC.  
FIELD DATA SHEETS**



## WELL GAUGING DATA

Project # 100506-RM Date 5/6/10 Client SHELL

Site 4895 HACIENDA DR. DUBLIN

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	1246	4					11.99	30.28	↓	
MW-2	1243	4					13.32	29.90		
MW-3	1255	4					13.51	25.05		
MW-4	1240	4					13.35	27.30		
MW-5	1252	4					13.21	29.65		
MW-6	1249	4					13.14	25.25		





**SHE. WELL MONITORING DATA SHEET**

BTS #: 100520 - RM1	Site: 4895 HACIENDA DR.
Sampler: R.M	Date: 5/6/10
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 29.90	Depth to Water (DTW): 13.82 <span style="float: right;">16.58</span>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.63	

Purge Method: Bailer Disposable Bailer Positive Air Displacement <input checked="" type="checkbox"/> Electric Submersible	Waterra Peristaltic Extraction Pump Other: _____	Sampling Method: <del>Bailer</del> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$10.8 \text{ (Gals.)} \times 3 = 32.4 \text{ Gals.}$   
 1 Case Volume      Specified Volumes      Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or $\mu\text{S}$ )	Turbidity (NTUs)	Gals. Removed	Observations
1433	66.5	7.74	2245	>1000	10.8	
1435	67.5	7.84	2440	680	21.6	
1437	67.7	7.82	2406	661	32.4	

Did well dewater?    Yes     No    Gallons actually evacuated: 32.4

Sampling Date: 5/6/10    Sampling Time: 1445    Depth to Water: 14.02

Sample I.D.: MW-2    Laboratory: CalScience Columbia Other \_\_\_\_\_

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) (Oxygenates (5)) Other: \_\_\_\_\_

EB I.D. (if applicable): @ \_\_\_\_\_    Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
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O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV
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**SHE. WELL MONITORING DATA SHEET**

BTS #: 100500-RM1	Site: 4895 HACIENDA DE
Sampler: R.M	Date: 5/6/10
Well I.D.: MW-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 25.05	Depth to Water (DTW): 13.51 <span style="float:right">11.54</span>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.81	

Purge Method: Bailer  Watertra  Sampling Method: ~~Bailer~~  
 Disposable Bailer  Peristaltic  Disposable Bailer   
 Positive Air Displacement  Extraction Pump  Extraction Port   
~~Electric Submersible~~  Other \_\_\_\_\_  Dedicated Tubing

7.5 (Gals.) X 3 = 22.5 Gals.  
 I Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1323	72.1	7.62	3126	318	7.5	
1325	68.9	7.41	3382	458	15.0	
1327	68.7	7.43	3405	473	22.5	

Did well dewater? Yes  No Gallons actually evacuated: 22.5

Sampling Date: 5/6/10 Sampling Time: 1340 Depth to Water: 15.60

Sample I.D.: MW-3 Laboratory: CalScience Columbia Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: \_\_\_\_\_

EB I.D. (if applicable): @ \_\_\_\_\_ Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: \_\_\_\_\_

D.O. (if req'd): Pre-purge: \_\_\_\_\_ mg/L Post-purge: \_\_\_\_\_ mg/L

O.R.P. (if req'd): Pre-purge: \_\_\_\_\_ mV Post-purge: \_\_\_\_\_ mV

# SHELL WELL MONITORING DATA SHEET

BTS #: 100500-RM1	Site: 48015 HACIENDA DR.
Sampler: R.M.	Date: 5/6/10
Well I.D.: MW-4	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth (TD): 27.30	Depth to Water (DTW): 13.35 <span style="float: right;">13AS</span>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.14	

Purge Method: Bailer  Waterra  Sampling Method: ~~Bailer~~   
 Disposable Bailer  Peristaltic  Disposable Bailer   
 Positive Air Displacement  Extraction Pump  Extraction Port   
~~Electric Submersible~~  Other \_\_\_\_\_  Dedicated Tubing   
 Other: \_\_\_\_\_

$9.0 \text{ (Gals.)} \times 3 = 27.0 \text{ Gals.}$ I Case Volume                      Specified Volumes                      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1450	69.7	7.80	2317	71000	9.0	
1458	69.4	7.32	2394	71000	18.0	
1500	69.1	7.34	2414	71000	27.0	

Did well dewater? Yes  No  Gallons actually evacuated: 27.0

Sampling Date: 5/6/10      Sampling Time: 1505      Depth to Water: 15.44

Sample I.D.: MW-4      Laboratory: CalScience Columbia Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: \_\_\_\_\_

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time      Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: \_\_\_\_\_

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

## SHE: WELL MONITORING DATA SHEET

BTS #: 100500-RM1	Site: 4895 HACIENDA DR.
Sampler: R.M	Date: 5/6/10
Well I.D.: MW-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 29.65	Depth to Water (DTW): 13.21 <span style="float: right;">16.44</span>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.50	

Purge Method: <input type="checkbox"/> Bailer	<input type="checkbox"/> Waterra	Sampling Method: <input checked="" type="checkbox"/> Bailer
<input type="checkbox"/> Disposable Bailer	<input type="checkbox"/> Peristaltic	<input type="checkbox"/> Disposable Bailer
<input type="checkbox"/> Positive Air Displacement	<input type="checkbox"/> Extraction Pump	<input type="checkbox"/> Extraction Port
<input checked="" type="checkbox"/> Electric Submersible	Other _____	<input type="checkbox"/> Dedicated Tubing
Other: _____		

$10.7 \text{ (Gals.)} \times 3 = 32.1 \text{ Gals.}$ <p style="font-size: small;">1 Case Volume      Specified Volumes      Calculated Volume</p>	<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1302	71.4	6.65	2026	559	10.7	
1304	69.5	7.15	2060	539	21.4	
1306	69.5	7.21	2063	531	32.1	

Did well dewater?    Yes    No      Gallons actually evacuated: 32.1

Sampling Date: 5/6/10      Sampling Time: 1310      Depth to Water: 14.48

Sample I.D.: MW-5      Laboratory: CalScience Columbia Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time      Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

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

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

# SHELL WELL MONITORING DATA SHEET

BTS #: <u>100500-RM1</u>	Site: <u>4895 HACIENDA DE</u>
Sampler: <u>R.M</u>	Date: <u>5/6/10</u>
Well I.D.: <u>MW-6</u>	Well Diameter: 2 3 <b>(4)</b> 6 8 _____
Total Well Depth (TD): <u>25.25</u>	Depth to Water (DTW): <u>13.14</u> <span style="float: right;">124</span>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>(PVC)</b> Grade	D.O. Meter (if req'd): <span style="float: right;">YSI HACH</span>
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>15.56</u>	

Purge Method: Bailer    Water    Sampling Method: ~~Bailer~~  
 Disposable Bailer    Peristaltic    Disposable Bailer  
 Positive Air Displacement    Extraction Pump    Extraction Port  
~~Electric~~ Submersible    Other \_\_\_\_\_    Dedicated Tubing  
Other: \_\_\_\_\_

$\underline{7.9} \text{ (Gals.)} \times \underline{3} = \underline{23.7} \text{ Gals.}$ 1 Case Volume                          Specified Volumes                          Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <b>µS</b> )	Turbidity (NTUs)	Gals. Removed	Observations
<u>1351</u>	<u>71.1</u>	<u>7.82</u>	<u>2828</u>	<u>344</u>	<u>7.9</u>	
<u>1353</u>	<u>68.1</u>	<u>7.55</u>	<u>2836</u>	<u>225</u>	<u>15.8</u>	
<u>1355</u>	<u>68.0</u>	<u>7.53</u>	<u>2842</u>	<u>237</u>	<u>23.7</u>	

Did well dewater?    Yes    **(No)**                          Gallons actually evacuated: 23.7

Sampling Date: 5/6/10                          Sampling Time: 1400                          Depth to Water: 14.92

Sample I.D.: MW-6    Laboratory: **(CalScience)** Columbia    Other \_\_\_\_\_

Analyzed for: **(TPH-G)** **(BTEX)** MTBE **(TPH-D)** **(Oxygenates (5))**    Other: \_\_\_\_\_

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time                          Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5)    Other: \_\_\_\_\_

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

**APPENDIX B**

**BLAINE TECH SERVICES, INC.  
FIELD PROCEDURES**

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# BLAINE

TECH SERVICES INC.

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GROUNDWATER SAMPLING SPECIALISTS  
SINCE 1985

May 20, 2010

Denis Brown  
Shell Oil Products US  
20945 South Wilmington Avenue  
Carson, CA 90810

Second Quarter 2010 Groundwater Monitoring at  
Shell-Branded Service Station  
4895 Hacienda Drive  
Dublin, CA

Monitoring performed on May 6, 2010

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## Groundwater Monitoring Report **100506-RM-1**

This report covers the routine monitoring of groundwater wells at this Shell-branded service station. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

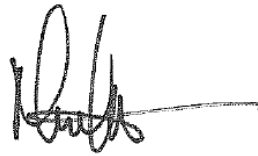
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight-hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

A handwritten signature in black ink, appearing to read "Mike Ninokata", with a long horizontal flourish extending to the right.

Mike Ninokata  
Project Manager

MN/np

attachments: Cumulative Table of WELL CONCENTRATIONS  
Certified Analytical Report  
Field Data Sheets

cc: Regina Bussard  
Delta Environmental  
175 Bernal Rd., Suite 200  
San Jose, CA 95119



# BLAINE TECH SERVICES, INC. METHODS AND PROCEDURES FOR THE ROUTINE MONITORING OF GROUNDWATER WELLS AT SHELL SITES

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. We specialize in groundwater monitoring assignments and intentionally limit the scope of our services to those centered on the generation of objective information.

To avoid conflicts of interest, Blaine Tech Services, Inc. personnel do not evaluate or interpret the information we collect. As a state licensed contractor (C-57 well drilling –water – 746684 ) performing strictly technical services, we do not make any professional recommendations and perform no consulting of any kind.

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## SAMPLING PROCEDURES OVERVIEW

### SAFETY

All groundwater monitoring assignments performed for Shell comply with Shell's safety guidelines, 29 CFR 1910.120 and SB-198 Injury and Illness Prevention Program (IIPP). All Field Technicians receive the full 40-hour 29CFR 1910.120 OSHA SARA HAZWOPER course, medical clearance and on-the-job training prior to commencing any work on any Shell site.

### INSPECTION AND GAUGING

Wells are inspected prior to evacuation and sampling. The condition of the wellhead is checked and noted according to a wellhead inspection checklist.

Standard measurements include the depth to water (DTW) and the total well depth (TD) obtained with industry standard electronic water level indicators that are graduated in increments of hundredths of a foot.

The water in each well is inspected for the presence of immiscibles. When free product is suspected, its presence is confirmed using an electronic interface probe (e.g. MMC). No samples are collected from a well containing over two-hundredths of a foot (0.02') of product.

### EVACUATION

Depth to water measurements are collected by our personnel prior to purging and minimum purge volumes are calculated anew for each well based on the height of the water column and the diameter of the well. Expected purge volumes are never less than three case volumes and are set at no less than four case volumes in some jurisdictions.

Well purging devices are selected on the basis of the well diameter and the total volume to be evacuated. In most cases the well will be purged using an electric submersible pump (i.e. Grundfos) suspended near (but not touching) the bottom of the well.

## PARAMETER STABILIZATION

Well purging completion standards include minimum purge volumes, but additionally require stabilization of specific groundwater parameters prior to sample collection. Typical groundwater parameters used to measure stability are electrical conductivity, pH, and temperature. Instrument readings are obtained at regular intervals during the evacuation process (no less than once per case volume).

Stabilization standards for routine quarterly monitoring of fuel sites include the following: Temperature is considered to have stabilized when successive readings do not fluctuate more than +/- 1 degree Celsius. Electrical conductivity is considered stable when successive readings are within 10%. pH is considered to be stable when successive readings remain constant or vary no more than 0.2 of a pH unit.

## DEWATERED WELLS

Normal evacuation removes no less than three case volumes of water from the well. However, less water may be removed in cases where the well dewateres and does not immediately recharge.

## MEASURING RECHARGE

Upon completion of well purging, a depth to water measurement is collected and notated to ensure that the well has recharged to within 80% of its static, pre-purge level prior to sampling.

Wells that do not immediately show 80% recharge or dewatered wells will be allowed a minimum of 2 hours to recharge prior to sampling. The water level at time of sampling will be noted.

## PURGEWATER CONTAINMENT

All non-hazardous purgewater evacuated from each groundwater monitoring well is captured and contained in on-board storage tanks on the Sampling Vehicle and/or special water hauling trailers. Effluent from the decontamination of reusable apparatus (sounders, electric pumps and hoses etc.), consisting of groundwater combined with deionized water and non-phosphate soap, is also captured and pumped into effluent tanks.

Non-hazardous purgewater is transported under standard Bill of Lading documentation to a Blaine Tech Services, Inc. facility before being transported to a Shell approved disposal facility.

## SAMPLE COLLECTION DEVICES

All samples are collected using a stainless steel, Teflon or disposable bailers.

## SAMPLE CONTAINERS

Sample material is decanted directly from the sampling bailer into sample containers provided by the laboratory that will analyze the samples. The transfer of sample material from the bailer to the sample container conforms to specifications contained in the USEPA T.E.G.D. The type of sample container, material of construction, method of closure and filling requirements are specific to the intended analysis. Chemicals needed to preserve the sample material are commonly placed inside the sample containers by the laboratory or glassware vendor prior to delivery of the bottle to our personnel. The laboratory sets the number of replicate containers.

## TRIP BLANKS

Trip Blanks, if requested, are taken to the site and kept inside the sample cooler for the duration of the event. They are turned over to the laboratory for analysis with the samples from that site.

## DUPLICATES

Duplicates, if requested, may be collected at a site. The Field Technician uses their discretion in choosing the well at which the Duplicate is collected, typically one suspected of containing measurable contaminants. The Duplicate sample is labeled "DUP" and the time of collection is omitted from the COC, thus rendering the sample blind.

## SAMPLE STORAGE

All sample containers are promptly placed in food grade ice chests for storage in the field and transport (direct or via our facility) to the designated analytical laboratory. These ice chests contain quantities of restaurant grade ice as a refrigerant material. The samples are maintained in either an ice chest or a refrigerator until relinquished into the custody of the laboratory or laboratory courier.

## DOCUMENTATION CONVENTIONS

A label must be affixed to all sample containers. In most cases these labels are generated by our office personnel and are partially preprinted. Labels can also be hand written by our field personnel. The site is identified with the store number and site address, as is the particular groundwater well from which the sample is drawn (e.g. MW-1, MW-2, S-1 etc.). The time and date of sample collection along with the initials of the person who collects the sample are handwritten onto the label.

Chain of Custody records are created using client specific preprinted forms following USEPA specifications.

Bill of Lading records are contemporaneous records created in the field at the site where the non-hazardous purgewater is generated. Field Technicians use preprinted Bill of Lading forms.

## DECONTAMINATION

All equipment is brought to the site in clean and serviceable condition and is cleaned after use in each well and before subsequent use in any other well. Equipment is decontaminated before leaving the site.

The primary decontamination device is a commercial steam cleaner. The steam cleaner is de-tuned to function as a hot pressure washer that is then operated with high quality deionized water that is produced at our facility and stored onboard our sampling vehicle. Cleaning is facilitated by the use of proprietary fixtures and devices included in the patented workstation (U.S. Patent 5,535,775) that is incorporated in each sampling vehicle. The steam cleaner is used to decon reels, pumps and bailers.

Any sensitive equipment or parts (i.e. Dissolved Oxygen sensor membrane, water level indicator, etc.) that cannot be washed using the high pressure water, will be sprayed with a non-phosphate soap and deionized water solution and rinsed with deionized water.

## DISSOLVED OXYGEN READINGS

Dissolved Oxygen readings are taken pre- and/or post-purge using YSI meters (e.g. YSI Model 54, 58 or 95) or HACH field test kits.

The YSI meters are equipped with a stirring device that enables them to collect accurate in-situ readings. The probe/stirring devices are modified to allow downhole measurements to be taken from wells with diameters as small as two inches. The probe and reel is decontaminated between wells as described above. The meter is calibrated between wells as per the instructions in the operating manual. The probe and stirrer is lowered into the water column. The reading is allowed to stabilize prior to collection.

## OXYIDATON REDUCTION POTENTIAL READINGS

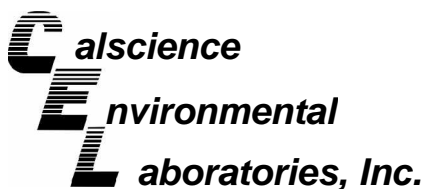
All readings are obtained with either Corning or Myron-L meters (e.g. Corning ORP-65 or a Myron-L Ultrameter GP). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the instruction manual.

## FERROUS IRON MEASUREMENTS

All field measurements are collected at time of sampling with a HACH test kit.

**APPENDIX C**

**CERTIFIED ANALYTICAL REPORT  
WITH CHAIN-OF-CUSTODY DOCUMENTATION**



May 19, 2010

Michael Ninokata  
Blaine Tech Services, Inc.  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Subject: **Calscience Work Order No.: 10-05-0660**  
**Client Reference: 4895 Hacienda Dr., San Ramon Road, Dub, CA**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/8/2010 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads "Philip Samelle for".

Calscience Environmental  
Laboratories, Inc.  
Xuan H. Dang  
Project Manager

## Analytical Report



Blaine Tech Services, Inc.  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Date Received: 05/08/10  
Work Order No: 10-05-0660  
Preparation: EPA 3510C  
Method: EPA 8015B

Project: 4895 Hacienda Dr., San Ramon Road, Dub, CA

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	10-05-0660-1-E	05/06/10 14:20	Aqueous	GC 43	05/12/10	05/13/10 20:55	100512B09S

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	109	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	10-05-0660-2-E	05/06/10 14:45	Aqueous	GC 43	05/12/10	05/13/10 21:16	100512B09S

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	102	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	10-05-0660-3-E	05/06/10 13:40	Aqueous	GC 43	05/12/10	05/13/10 21:36	100512B09S

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	108	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	10-05-0660-4-E	05/06/10 15:05	Aqueous	GC 43	05/12/10	05/13/10 21:56	100512B09S

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	108	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

## Analytical Report



Blaine Tech Services, Inc.  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Date Received: 05/08/10  
Work Order No: 10-05-0660  
Preparation: EPA 3510C  
Method: EPA 8015B

Project: 4895 Hacienda Dr., San Ramon Road, Dub, CA

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5	10-05-0660-5-E	05/06/10 13:10	Aqueous	GC 43	05/12/10	05/13/10 22:17	100512B09S

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	100	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	10-05-0660-6-E	05/06/10 14:00	Aqueous	GC 43	05/12/10	05/13/10 22:37	100512B09S

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	109	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-211-1,663	N/A	Aqueous	GC 43	05/12/10	05/13/10 16:11	100512B09S

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	115	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report



Blaine Tech Services, Inc.  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Date Received: 05/08/10  
Work Order No: 10-05-0660  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B  
Units: ug/L

Project: 4895 Hacienda Dr., San Ramon Road, Dub, CA

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	10-05-0660-1-A	05/06/10 14:20	Aqueous	GC/MS LL	05/12/10	05/13/10 04:25	100512L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		TPPH	ND	50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	103	80-132			1,2-Dichloroethane-d4	98	80-141		
Toluene-d8-TPPH	90	88-112			Toluene-d8	95	80-120		
1,4-Bromofluorobenzene	87	76-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	10-05-0660-2-B	05/06/10 14:45	Aqueous	GC/MS LL	05/13/10	05/14/10 08:36	100513L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	130	1.0	1		TPPH	100	50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	95	80-132			1,2-Dichloroethane-d4	93	80-141		
Toluene-d8-TPPH	92	88-112			Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	88	76-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	10-05-0660-3-A	05/06/10 13:40	Aqueous	GC/MS LL	05/12/10	05/13/10 06:21	100512L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	6.9	1.0	1		TPPH	ND	50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	98	80-132			1,2-Dichloroethane-d4	96	80-141		
Toluene-d8-TPPH	93	88-112			Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	89	76-120							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report



Blaine Tech Services, Inc.  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Date Received: 05/08/10  
Work Order No: 10-05-0660  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B  
Units: ug/L

Project: 4895 Hacienda Dr., San Ramon Road, Dub, CA

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>MW-4</b>	<b>10-05-0660-4-A</b>	<b>05/06/10 15:05</b>	<b>Aqueous</b>	<b>GC/MS LL</b>	<b>05/12/10</b>	<b>05/13/10 06:49</b>	<b>100512L02</b>

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		TPPH	ND	50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	101	80-132			1,2-Dichloroethane-d4	100	80-141		
Toluene-d8-TPPH	95	88-112			Toluene-d8	101	80-120		
1,4-Bromofluorobenzene	89	76-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>MW-5</b>	<b>10-05-0660-5-A</b>	<b>05/06/10 13:10</b>	<b>Aqueous</b>	<b>GC/MS LL</b>	<b>05/12/10</b>	<b>05/13/10 07:18</b>	<b>100512L02</b>

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.0	2		Tert-Butyl Alcohol (TBA)	ND	20	2	
Ethylbenzene	ND	2.0	2		Diisopropyl Ether (DIPE)	ND	4.0	2	
Toluene	ND	2.0	2		Ethyl-t-Butyl Ether (ETBE)	ND	4.0	2	
Xylenes (total)	ND	2.0	2		Tert-Amyl-Methyl Ether (TAME)	ND	4.0	2	
Methyl-t-Butyl Ether (MTBE)	210	2.0	2		TPPH	160	100	2	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	103	80-132			1,2-Dichloroethane-d4	95	80-141		
Toluene-d8-TPPH	95	88-112			Toluene-d8	101	80-120		
1,4-Bromofluorobenzene	89	76-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>MW-6</b>	<b>10-05-0660-6-A</b>	<b>05/06/10 14:00</b>	<b>Aqueous</b>	<b>GC/MS LL</b>	<b>05/12/10</b>	<b>05/13/10 07:48</b>	<b>100512L02</b>

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	7.4	1.0	1		TPPH	ND	50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	105	80-132			1,2-Dichloroethane-d4	98	80-141		
Toluene-d8-TPPH	94	88-112			Toluene-d8	101	80-120		
1,4-Bromofluorobenzene	91	76-120							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



**Analytical Report**



Blaine Tech Services, Inc.  
 1680 Rogers Avenue  
 San Jose, CA 95112-1105

Date Received: 05/08/10  
 Work Order No: 10-05-0660  
 Preparation: EPA 5030B  
 Method: LUFT GC/MS / EPA 8260B  
 Units: ug/L

Project: 4895 Hacienda Dr., San Ramon Road, Dub, CA

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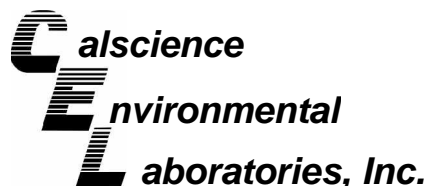
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-12-767-3,938</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC/MS LL</b>	<b>05/12/10</b>	<b>05/13/10 02:58</b>	<b>100512L02</b>

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		TPPH	ND	50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	102	80-132			1,2-Dichloroethane-d4	93	80-141		
Toluene-d8	98	80-120			Toluene-d8-TPPH	91	88-112		
1,4-Bromofluorobenzene	95	76-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-12-767-3,946</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC/MS LL</b>	<b>05/13/10</b>	<b>05/14/10 03:17</b>	<b>100513L02</b>

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		TPPH	ND	50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	99	80-132			1,2-Dichloroethane-d4	87	80-141		
Toluene-d8	98	80-120			Toluene-d8-TPPH	92	88-112		
1,4-Bromofluorobenzene	92	76-120							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Quality Control - Spike/Spike Duplicate



Blaine Tech Services, Inc.  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Date Received: 05/08/10  
Work Order No: 10-05-0660  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA  
8260B

Project 4895 Hacienda Dr., San Ramon Road, Dub, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-1	Aqueous	GC/MS LL	05/12/10	05/13/10	100512S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	97	93	72-120	4	0-20	
Carbon Tetrachloride	81	82	63-135	1	0-20	
Chlorobenzene	98	99	80-120	1	0-20	
1,2-Dibromoethane	101	97	80-120	4	0-20	
1,2-Dichlorobenzene	102	99	80-120	3	0-20	
1,1-Dichloroethene	89	88	60-132	1	0-24	
Ethylbenzene	93	93	78-120	1	0-20	
Toluene	97	94	74-122	3	0-20	
Trichloroethene	96	91	69-120	5	0-20	
Vinyl Chloride	98	99	58-130	1	0-20	
Methyl-t-Butyl Ether (MTBE)	87	84	72-126	4	0-21	
Tert-Butyl Alcohol (TBA)	91	86	72-126	6	0-20	
Diisopropyl Ether (DIPE)	91	90	71-137	1	0-23	
Ethyl-t-Butyl Ether (ETBE)	86	83	74-128	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	86	83	76-124	3	0-20	
Ethanol	111	112	35-167	1	0-48	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - Spike/Spike Duplicate



Blaine Tech Services, Inc.  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Date Received: 05/08/10  
Work Order No: 10-05-0660  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA  
8260B

Project 4895 Hacienda Dr., San Ramon Road, Dub, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-05-0662-1	Aqueous	GC/MS LL	05/13/10	05/14/10	100513S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	99	72-120	1	0-20	
Carbon Tetrachloride	83	84	63-135	1	0-20	
Chlorobenzene	100	100	80-120	1	0-20	
1,2-Dibromoethane	99	102	80-120	3	0-20	
1,2-Dichlorobenzene	100	102	80-120	2	0-20	
1,1-Dichloroethene	91	90	60-132	1	0-24	
Ethylbenzene	96	94	78-120	2	0-20	
Toluene	100	101	74-122	1	0-20	
Trichloroethene	96	97	69-120	2	0-20	
Vinyl Chloride	110	103	58-130	7	0-20	
Methyl-t-Butyl Ether (MTBE)	85	89	72-126	4	0-21	
Tert-Butyl Alcohol (TBA)	98	95	72-126	3	0-20	
Diisopropyl Ether (DIPE)	89	91	71-137	3	0-23	
Ethyl-t-Butyl Ether (ETBE)	85	86	74-128	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	86	86	76-124	0	0-20	
Ethanol	104	114	35-167	9	0-48	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate



Blaine Tech Services, Inc.  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Date Received: N/A  
Work Order No: 10-05-0660  
Preparation: EPA 3510C  
Method: EPA 8015B

Project: 4895 Hacienda Dr., San Ramon Road, Dub, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-211-1,663	Aqueous	GC 43	05/12/10	05/13/10	100512B09S

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Diesel Range Organics	104	104	75-117	0	0-13	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate



Blaine Tech Services, Inc.  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Date Received: N/A  
Work Order No: 10-05-0660  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B

Project: 4895 Hacienda Dr., San Ramon Road, Dub, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-767-3,938	Aqueous	GC/MS LL	05/12/10	05/13/10	100512L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	97	95	80-122	73-129	2	0-20	
Carbon Tetrachloride	79	78	68-140	56-152	2	0-20	
Chlorobenzene	103	99	80-120	73-127	5	0-20	
1,2-Dibromoethane	104	102	80-121	73-128	2	0-20	
1,2-Dichlorobenzene	100	103	80-120	73-127	2	0-20	
1,1-Dichloroethene	93	91	72-132	62-142	2	0-25	
Ethylbenzene	95	93	80-126	72-134	2	0-20	
Toluene	100	98	80-121	73-128	2	0-20	
Trichloroethene	97	95	80-123	73-130	2	0-20	
Vinyl Chloride	100	96	67-133	56-144	4	0-20	
Methyl-t-Butyl Ether (MTBE)	92	90	75-123	67-131	2	0-20	
Tert-Butyl Alcohol (TBA)	89	98	75-123	67-131	9	0-20	
Diisopropyl Ether (DIPE)	95	91	71-131	61-141	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	90	88	76-124	68-132	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	90	89	80-123	73-130	2	0-20	
Ethanol	104	112	61-139	48-152	7	0-27	
TPPH	76	77	65-135	53-147	1	0-30	

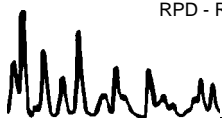
Total number of LCS compounds : 17

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





## Quality Control - LCS/LCS Duplicate



Blaine Tech Services, Inc.  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Date Received: N/A  
Work Order No: 10-05-0660  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B

Project: 4895 Hacienda Dr., San Ramon Road, Dub, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-767-3,946	Aqueous	GC/MS LL	05/13/10	05/14/10	100513L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	95	100	80-122	73-129	5	0-20	
Carbon Tetrachloride	79	84	68-140	56-152	6	0-20	
Chlorobenzene	100	100	80-120	73-127	0	0-20	
1,2-Dibromoethane	105	100	80-121	73-128	5	0-20	
1,2-Dichlorobenzene	103	104	80-120	73-127	1	0-20	
1,1-Dichloroethene	89	90	72-132	62-142	2	0-25	
Ethylbenzene	93	94	80-126	72-134	1	0-20	
Toluene	97	101	80-121	73-128	4	0-20	
Trichloroethene	94	98	80-123	73-130	4	0-20	
Vinyl Chloride	104	109	67-133	56-144	4	0-20	
Methyl-t-Butyl Ether (MTBE)	89	91	75-123	67-131	3	0-20	
Tert-Butyl Alcohol (TBA)	91	93	75-123	67-131	2	0-20	
Diisopropyl Ether (DIPE)	89	90	71-131	61-141	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	88	89	76-124	68-132	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	86	89	80-123	73-130	4	0-20	
Ethanol	112	111	61-139	48-152	1	0-27	
TPPH	98	101	65-135	53-147	3	0-30	

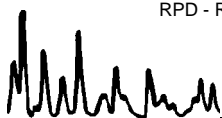
Total number of LCS compounds : 17

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Work Order Number: 10-05-0660

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.  Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



LAB (LOCATION)

- CALSCIENCE (\_\_\_\_\_)
- SPL (\_\_\_\_\_)
- XENCO (\_\_\_\_\_)
- TEST AMERICA (\_\_\_\_\_)
- OTHER (\_\_\_\_\_)



# Shell Oil Products Chain Of Custody Record

**Please Check Appropriate Box:**

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER _____	

**Print Bill To Contact Name:** Regina Bussard

**INCIDENT # (ENV SERVICES):** 9 7 7 9 5 8 9 3

CHECK IF NO INCIDENT # APPLIES

DATE: 5/6/10

PAGE: 1 of 1

<b>SAMPLING COMPANY</b> Blaine Tech Services		LOG CODE BTSS	<b>SITE ADDRESS: Street and City</b> 4895 Hacienda Dr., San Ramon Road, Dub CA		State	GLOBAL ID NO T10000000423
ADDRESS 1680 Rogers Ave, San Jose, CA 95112			EDF DELIVERABLE TO (Name, Company, Office Location) Angela Pico, Delta, San Jose Office		PHONE NO 408.826.1862	E-MAIL apico@deltaenv.com
PROJECT CONTACT (Hardcopy or PDF Report to) Michael Ninokata			CONSULTANT PROJECT NO: 100526-RM1		BTS #	
TELEPHONE (408)573-0555	FAX (408)573-7771	E-MAIL mninokata@blainetech.com	SAMPLER NAME(S) (Print) R. MCCARTHY		LAB USE ONLY 05-0660	

**TURNAROUND TIME (CALENDAR DAYS):**

STANDARD (14 DAY)     5 DAYS     3 DAYS     2 DAYS     24 HOURS     RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT     UST AGENCY:

**SPECIAL INSTRUCTIONS OR NOTES :**

CC Regina Bussard w/final report rbussard@deltaenv.com

Run TPH-d w/Silica Gel Clean Up

SHELL CONTRACT RATE APPLIES  
 STATE REIMBURSEMENT RATE APPLIES  
 EDD NOT NEEDED  
 RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS												TEMPERATURE ON RECEIPT °C														
LAB USE ONLY	Field Sample Identification	DATE	TIME	MATRIX	HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	Container PID Readings or Laboratory Notes		
1	MW-1	5/6/10	1420	W	3			2		5	X	X	X	X											Run TPH-d w/ Silica gel clean up	
2	MW-2		1445		3			2		5	X	X	X	X												Silica gel clean up
3	MW-3		1340		3			2		5	X	X	X	X												
4	MW-4		1505		3			2		5	X	X	X	X												
5	MW-5		1310		3			2		5	X	X	X	X												
6	MW-6		1400		3			2		5	X	X	X	X												

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i> (SAMPLE CUSTODIAN)	Date: 5/6/10	Time: 1610
Relinquished by: (Signature) <i>[Signature]</i> (Sample Custodian)	Received by: (Signature) <i>[Signature]</i> CEL	Date: 5-7-10	Time: 1025
Relinquished by: (Signature) <i>[Signature]</i> 070 5-7-10 1730	Received by: (Signature) <i>[Signature]</i> CEL	Date: 5/8/10	Time: 1000

05/2/06 Revision



0660

Ship From:  
ALAN KEMP  
CAL SCIENCE- CONCORD  
5063 COMMERCIAL CIRCLE #H  
CONCORD, CA 94520

Ship To:  
SAMPLE RECEIVING  
CEL  
7440 LINCOLN WAY  
GARDEN GROVE, CA 92841

COD:  
\$0.00

Reference:  
BTS, STANTEC, DALY CITY

Delivery Instructions:

Signature Type:  
SIGNATURE REQUIRED

Tracking #: 514109072



SDS

ORC

D

GARDEN GROVE

D92843A



81452454

Print Date : 05/07/10 13:07 PM

Package 2 of 2

Print All

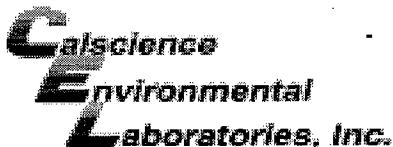
**LABEL INSTRUCTIONS:**

- Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
- STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.
- STEP 2 - Fold this page in half.
- STEP 3 - Securely attach this label to your package, do not cover the barcode.
- STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

**ADDITIONAL OPTIONS:**

**TERMS AND CONDITIONS:**

By giving us your shipment to deliver, you agree to all the service terms and conditions described in this section. Our liability for loss or damage to any package is limited to your actual damages or \$100 whichever is less, unless you pay for and declare a higher authorized value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your loss or damage. In any event, we will not be liable for any damage, whether direct, incidental, special or consequential, in excess of the declared value of a shipment whether or not we had knowledge that such damage might be incurred including but not limited to loss of income or profit. We will not be liable for your acts or omissions, including but not limited to improper or insufficient packaging, securing, marking or addressing. Also, we will not be liable if you or the recipient violates any of the terms of our agreement. We will not be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, act of public enemies, war, strikes, or civil commotion. The highest declared value for our GSO Priority Letter or GSO Priority Package is \$500. For other shipments the highest declared value is \$10,000 unless your package contains items of "extraordinary value", in which case the highest declared value we allow is \$500. Items of "extraordinary value" include, but not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.



WORK ORDER #: 10-05-0660

**SAMPLE RECEIPT FORM**

Cooler 1 of 1

CLIENT: BTS

DATE: 05/08/10

**TEMPERATURE:** Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 3.2 °C + 0.5°C (CF) = 5.7 °C  Blank  Sample

Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature:  Air  Filter  Metals Only  PCBs Only Initial: JK

**CUSTODY SEALS INTACT:**

Cooler  \_\_\_\_\_  No (Not Intact)  Not Present  N/A Initial: JK

Sample  \_\_\_\_\_  No (Not Intact)  Not Present Initial: JK

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:**

**Solid:**  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (\_\_\_\_)  EnCores®  TerraCores®  \_\_\_\_\_

**Water:**  VOA  VOAh  VOAna<sub>2</sub>  125AGB  125AGBh  125AGBp  1AGB  1AGBna<sub>2</sub>  1AGBs

500AGB  500AGJ  500AGJs  250AGB  250CGB  250CGBs  1PB  500PB  500PBna

250PB  250PBn  125PB  125PBz<sub>2</sub>na  100PJ  100PJna<sub>2</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

**Air:**  Tedlar®  Summa® **Other:**  \_\_\_\_\_ **Trip Blank Lot#:** \_\_\_\_\_ **Labeled/Checked by:** JK

**Container:** C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** JK

**Preservative:** h: HCL n: HNO<sub>3</sub> na<sub>2</sub>: Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> na: NaOH p: H<sub>3</sub>PO<sub>4</sub> s: H<sub>2</sub>SO<sub>4</sub> z<sub>2</sub>na: ZnAc<sub>2</sub>+NaOH f: Field-filtered **Scanned by:** JK