Shell Oil Products US

RECEIVED
By dehloptoxic at 9:08 am, Jan 16, 2007

January 15, 2007

Re: **Semi-Annual Fourth Quarter 2006 Groundwater Monitoring Report**
Shell-branded Service Station
809 East Stanley Boulevard
Livermore, 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

Denis L. Brown
Project Manager

20945 S. Wilmington Avenue, Carson, CA 90810 P: (559) 645-9306; F: (559) 645-3643

January 15, 2007
DELTA Project SJ80-9ST-1
SAP: 135442

Mr. Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: SEMI-ANNUAL FOURTH QUARTER 2006 GROUNDWATER MONITORING REPORT
Shell-Branded Service Station
809 East Stanley Boulevard
Livermore, California

DELTA

Dear Mr. Wickham:

On behalf of Shell Oil Products (Shell), Delta Environmental Consultants, Inc. (Delta), has prepared this *Fourth Quarter 2006 Groundwater Monitoring Report* for the above referenced site.

This quarterly report represents Delta's professional opinions based upon the currently available information and is 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 regarding this site, please contact Mr. Lee Dooley (Delta) at (408) 826-1880 or Mr. Denis Brown (Shell) at (707) 865-0251.

Sincerely,
Delta Environmental Consultants, Inc.

Matt Lambert
Staff Scientist

Lee Dooley, CHG 183
Senior Hydrogeologist (DELTA)

PROFESSIONAL GEOLOGIST
R. LEE DOOLEY
NO. 0183
CERTIFIED
HYDROGEOLOGIST
STATE OF CALIFORNIA

Attachment: Fourth Quarter 2006 Groundwater Monitoring Report

cc: Denis Brown, Shell Oil Products US, Carson

SHELL QUARTERLY STATUS REPORT

Station Address:	809 East Stanley Boulevard, Livermore, CA
DELTA Project No.	SJ80-9ST-1
SHELL Project Manager/Phone No.:	Denis Brown/(707) 865-0251
DELTA Site Manager/Phone No.:	Debbie Arnold/(408) 826-1873
Primary Agency/Regulatory ID No.:	ACHCSA/Mr. Jerry Wickham, PG, CHG
Other Agencies to Receive Copies:	None

WORK PERFORMED THIS QUARTER (FOURTH - 2006):

1. Quarterly groundwater monitoring and sampling. Submitted quarterly report.
2. Advanced site Borings SB-1 through SB-5 in order to investigate residual petroleum hydrocarbon source areas in site soils.

WORK PROPOSED FOR NEXT QUARTER (FIRST - 2007):

1. Suspend additional groundwater monitoring pending review of case closure request.
2. Destroy site wells pending agency concurrence of case closure status.

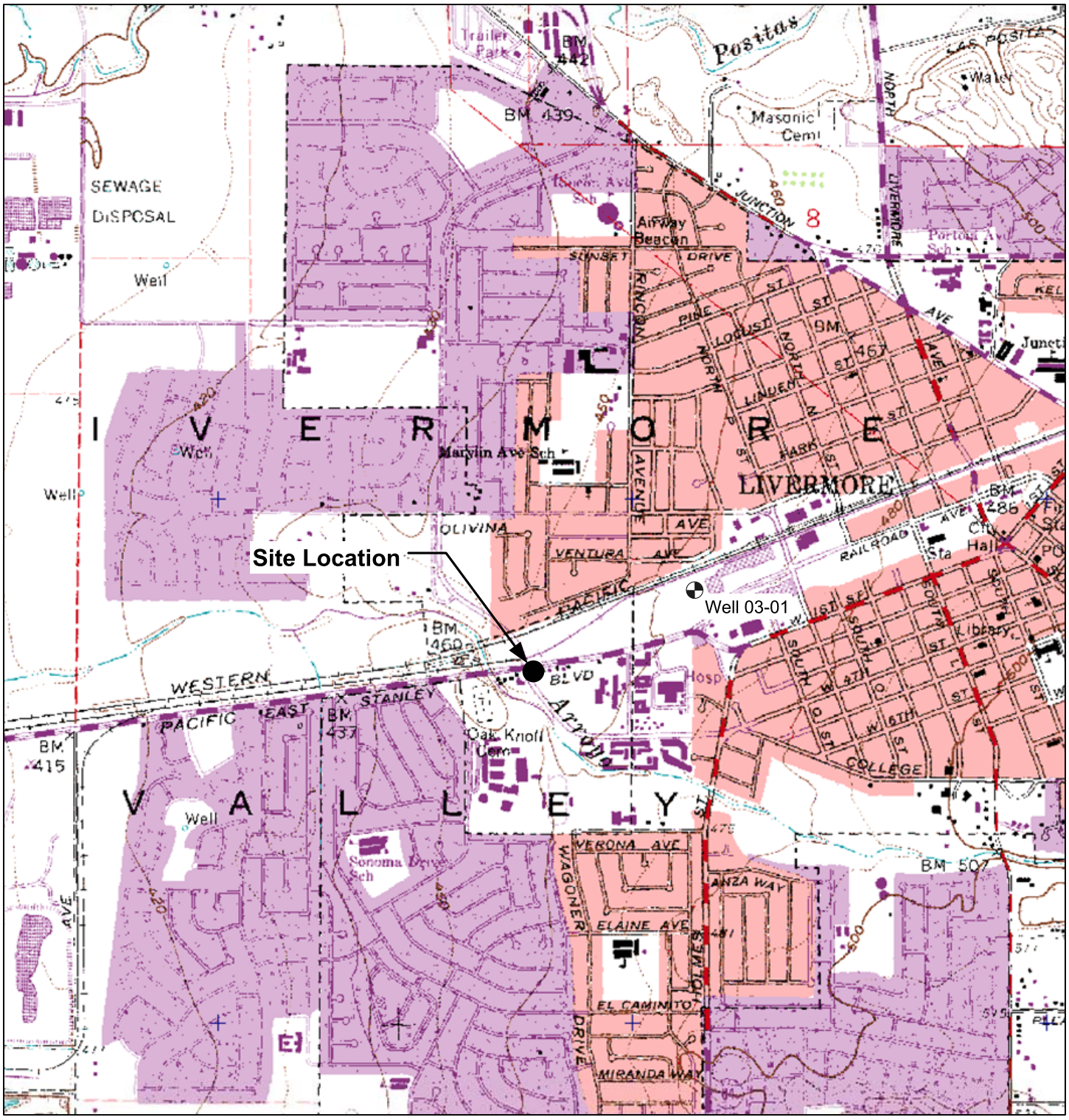
Current Phase of Project:	Groundwater monitoring.
Frequency of Sampling:	Semi-Annual
Frequency of Monitoring:	Semi-Annual
Is Separate Phase Hydrocarbon Present On-site	☐ Yes ☒ No
(Well #'s):	
Cumulative SPH Recovered to Date :	NA
SPH Recovered This Quarter :	None
Sensitive Receptor(s) and Respective Direction(s):	Municipal Well 10-01 is located approximately 1,700 feet northeast of the site. The Arroyo Mocho Canal is located approximately 300 feet southwest of the site.
Current Remediation Techniques:	None
Permits for Discharge:	None
Approximate Depth to Groundwater:	19 feet below top of well casing
Groundwater Gradient	North-northeast at a gradient of less than 0.01 ft/ft, consistent with previous data
Current Agency Correspondence:	ACHCSA letter dated October 26, 2006 (request for submittal of semi-annual 1Q07 GWM Report)
Summary of Unusual Activity:	None, All parameters below detection for all wells.

Lee Dooley
Hydrogeologist (DELTA)

ATTACHED:

- Figure 1 – Site Location Map
- Figure 2 – Groundwater Elevation Contour Map, November 7, 2006
- Figure 3 – TPH-G, Benzene, and MTBE Concentrations November 7, 2006
- Attachment A – Groundwater Monitoring and Sampling Report, December 4, 2006

FIGURES



GENERAL NOTES:
Base Map from: DeLorme Yarmouth, ME 04096 Source Data: USGS

QUADRANGLE LOCATION

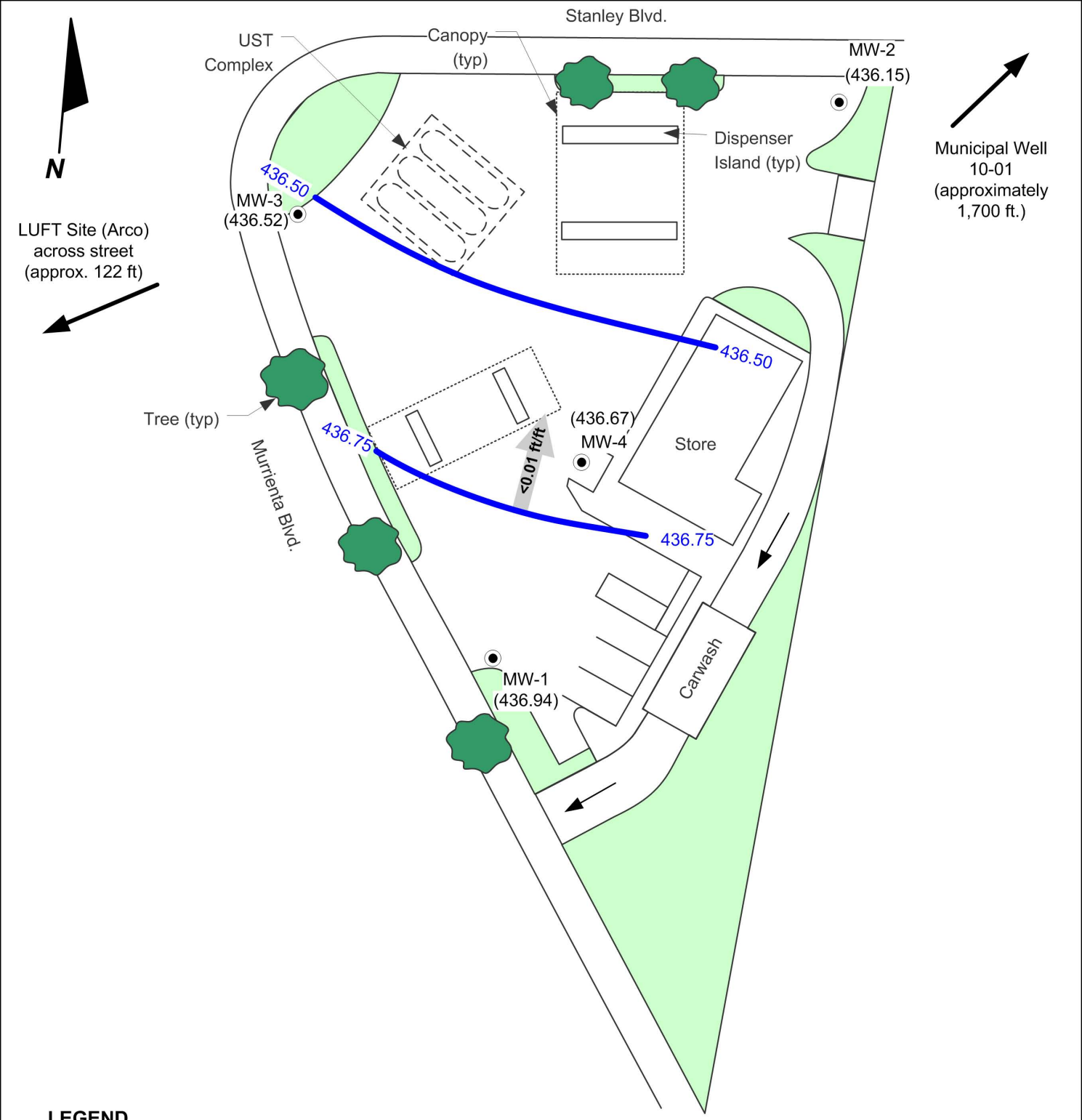
FIGURE 1

SITE LOCATION MAP

Shell-branded Service Station
809 East Stanley Blvd.
Livermore, California

PROJECT NO. SJ80-9ST-1.2005	DRAWN BY VF 12/01/03
FILE NO. SJ80-9ST-1.2005	PREPARED BY VF
REVISION NO. 1	REVIEWED BY DA

Delta Environmental Consultants, Inc.



LEGEND

MW-1 **GROUNDWATER MONITORING WELL**

(436.94) **GROUNDWATER ELEVATION (FEET-MSL), 11/7/06**

436.50 **GROUNDWATER ELEVATION CONTOUR**

<0.01 ft/ft **APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**

0 40 FT

APPROX. SCALE

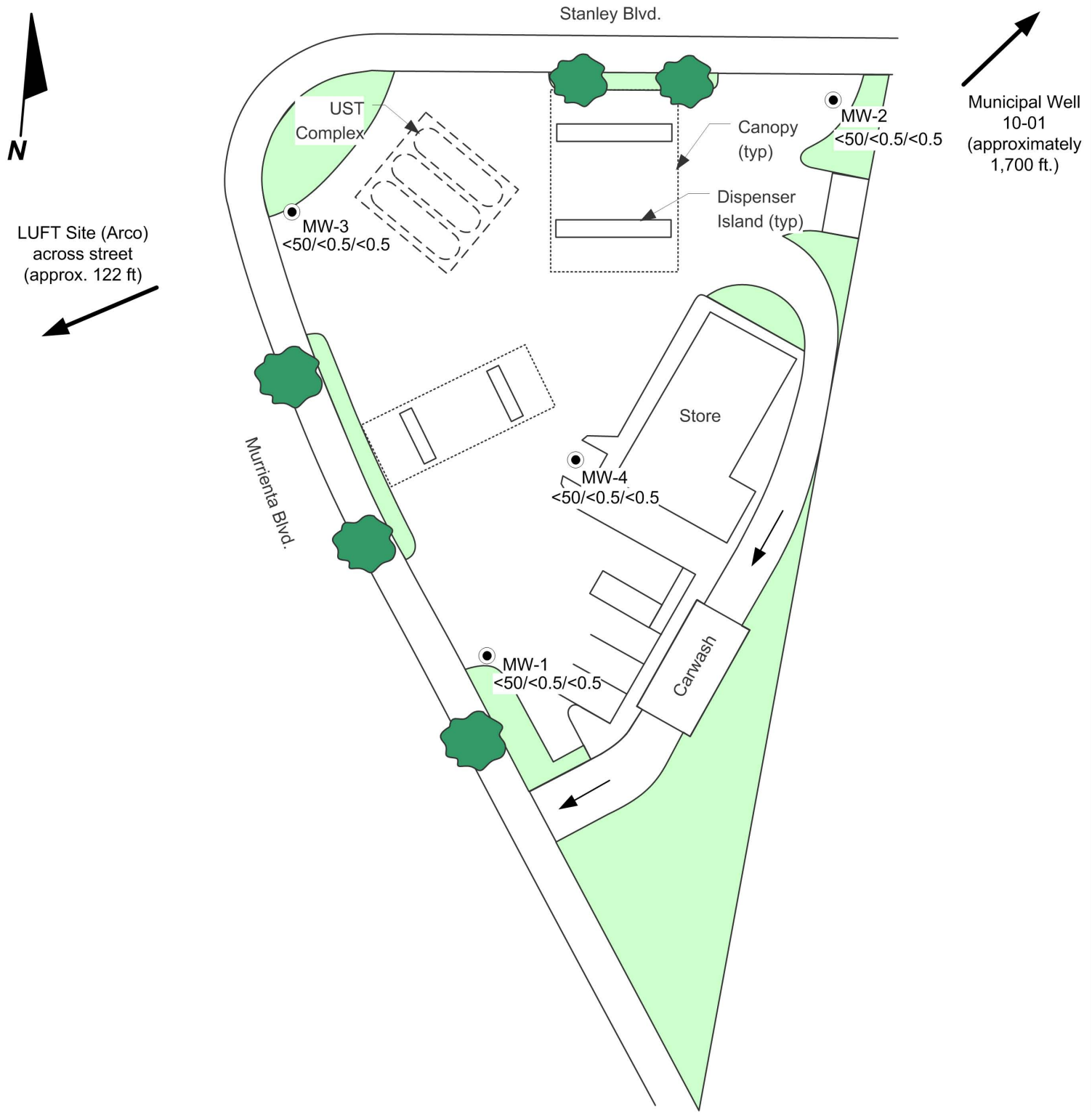
FIGURE 2

GROUNDWATER ELEVATION CONTOUR MAP, NOVEMBER 7, 2006

Shell-branded Service Station
809 East Stanley Ave.
Livermore, California

PROJECT NO. SJ80-9ST-1.2006	DRAWN BY BH 8/29/06
FILE NO. SJ8-09ST-1.2006	PREPARED BY HB
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc.



LEGEND

MW-1 ◉ **GROUNDWATER MONITORING WELL**

<50/<0.5/<0.5 **TPH-G/BENZENE/MTBE CONCENTRATIONS IN GROUNDWATER (ug/l), 11/7/06**

FIGURE 3

TPH-G, BENZENE, AND MTBE CONCENTRATIONS MAP, NOVEMBER 7, 2006

Shell-branded Service Station

809 East Stanley Ave.

Livermore, California

PROJECT NO. SJ80-9ST-1.2006	DRAWN BY BH 08/29/06
FILE NO. SJ8-09ST-1.2006	PREPARED BY HB
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc.

ATTACHMENT A

GROUNDWATER MONITORING AND SAMPLING REPORT, DECEMBER 4, 2006

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

December 4, 2006

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

Fourth Quarter 2006 Groundwater Monitoring at
Shell-branded Service Station
809 East Stanley Boulevard
Livermore, CA

Monitoring performed on November 7, 2006

Groundwater Monitoring Report **061107JD-1**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. 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,

Mike Ninokata
Project Manager

MN/ks

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

cc: Debbie Arnold
Delta Environmental
175 Bernal Road, Suite 200
San Jose, CA 95119

WELL CONCENTRATIONS
Shell-branded Service Station
809 East Stanley Boulevard
Livermore, CA

Well ID	Date	TPPH (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)
MW-1	09/25/2001	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	NA	NA
MW-1	07/09/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	455.49	20.06	435.43
MW-1	10/25/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	455.49	19.71	435.78
MW-1	01/24/2003	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	455.49	18.05	437.44
MW-1	04/21/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	455.49	17.57	437.92
MW-1	07/17/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	455.49	18.76	436.73
MW-1	10/20/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	5.0	455.49	20.01	435.48
MW-1	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	455.49	16.58	438.91
MW-1	07/27/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	455.49	19.43	436.06
MW-1	01/06/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	455.49	17.20	438.29
MW-1	07/20/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	455.49	17.69	437.80
MW-1	01/10/2006	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1,000	455.49	16.03	439.46
MW-1	07/28/2006	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	NA	455.49	19.51	435.98
MW-1	**11/07/2006**	**<50**	**<0.500**	**<0.500**	**<0.500**	**<1.0**	**<0.500**	**<2.0**	**<2.0**	**<2.0**	**<5.0**	**455.49**	**18.55**	**436.94**
MW-2	09/25/2001	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	NA	NA
MW-2	07/09/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	454.84	20.40	434.44
MW-2	10/25/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	454.84	20.17	434.67
MW-2	01/24/2003	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	454.84	18.30	436.54
MW-2	04/21/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	454.84	17.93	436.91
MW-2	07/17/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	454.84	19.01	435.83
MW-2	10/20/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	454.84	20.36	434.48
MW-2	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	454.84	16.99	437.85
MW-2	07/27/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	454.84	19.64	435.20
MW-2	01/06/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	454.84	17.60	437.24
MW-2	07/20/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	454.84	17.90	436.94

WELL CONCENTRATIONS
Shell-branded Service Station
809 East Stanley Boulevard
Livermore, CA

Well ID	Date	TPPH (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)
MW-2	01/10/2006	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	24	454.84	16.27	438.57
MW-2	07/28/2006	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	NA	454.84	19.59	435.25
MW-2	**11/07/2006**	**<50**	**<0.500**	**<0.500**	**<0.500**	**<1.0**	**<0.500**	**<2.0**	**<2.0**	**<2.0**	**<5.0**	**454.84**	**18.69**	**436.15**
MW-3	09/25/2001	NA	<0.50	<0.50	<0.50	<0.50	3.6	<2.0	<2.0	<2.0	<50	NA	NA	NA
MW-3	07/09/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	454.87	19.95	434.92
MW-3	10/25/2002	<50	<0.50	<0.50	<0.50	<0.50	0.83	<2.0	<2.0	<2.0	<50	454.87	19.63	435.24
MW-3	01/24/2003	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	454.87	17.90	436.97
MW-3	04/21/2003	<50	<0.50	<0.50	<0.50	<1.0	0.71	<2.0	<2.0	<2.0	<5.0	454.87	17.45	437.42
MW-3	07/17/2003	<50	<0.50	<0.50	<0.50	<1.0	0.69	<2.0	<2.0	<2.0	<5.0	454.87	18.69	436.18
MW-3	10/20/2003	<50	<0.50	<0.50	<0.50	<1.0	0.64	<2.0	<2.0	<2.0	<5.0	454.87	19.90	434.97
MW-3	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	454.87	16.50	438.37
MW-3	07/27/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	454.87	19.31	435.56
MW-3	01/06/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	454.87	17.15	437.72
MW-3	07/20/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	454.87	17.53	437.34
MW-3	01/10/2006	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	454.87	15.94	438.93
MW-3	07/28/2006	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	NA	454.87	19.33	435.54
MW-3	**11/07/2006**	**<50**	**<0.500**	**<0.500**	**<0.500**	**<1.0**	**<0.500**	**<2.0**	**<2.0**	**<2.0**	**<5.0**	**454.87**	**18.35**	**436.52**
MW-4	09/25/2001	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	NA	NA
MW-4	07/09/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	456.24	21.15	435.09
MW-4	10/25/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	456.24	20.85	435.39
MW-4	01/24/2003	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	456.24	19.15	437.09
MW-4	04/21/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	456.24	18.65	437.59
MW-4	07/17/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	456.24	19.87	436.37
MW-4	10/20/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	456.24	21.12	435.12

WELL CONCENTRATIONS
Shell-branded Service Station
809 East Stanley Boulevard
Livermore, CA

Well ID	Date	TPPH (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)
MW-4	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	456.24	17.65	438.59
MW-4	07/27/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	456.24	20.50	435.74
MW-4	01/06/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	456.24	18.29	437.95
MW-4	07/20/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	456.24	18.73	437.51
MW-4	01/10/2006	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	456.24	17.08	439.16
MW-4	07/28/2006	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	NA	456.24	20.55	435.69
MW-4	**11/07/2006**	**<50**	**<0.500**	**<0.500**	**<0.500**	**<1.0**	**<0.500**	**<2.0**	**<2.0**	**<2.0**	**<5.0**	**456.24**	**19.57**	**436.67**

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B.
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 or tertiary butanol, analyzed by EPA Method 8260B
TOC = Top of Casing Elevation
GW = Groundwater
ug/L = Parts per billion
MSL = Mean sea level
ft. = Feet
<n = Below detection limit
NA = Not applicable

Notes:
Survey data provided by KHM Environmental Management, Inc.

TestAmerica
ANALYTICAL TESTING CORPORATION

819 Striker Avenue, Suite 8
Sacramento, CA 95834
(916) 921-9600
FAX (916) 921-0100
www.testamericainc.com

26 November, 2006

Michael Ninokata
Blaine Tech Services (Shell)
1680 Rogers Avenue
San Jose, CA 95112

RE: 809 E. Stanley Blvd, Livermore
Work Order: S611289

Enclosed are the results of analyses for samples received by the laboratory on 11/10/06 09:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sylvia Krenn
Project Manager

CA ELAP Certificate # 2630

TestAmerica
ANALYTICAL TESTING CORPORATION

819 Striker Avenue, Suite 8
Sacramento, CA 95834
(916) 921-9600
FAX (916) 921-0100
www.testamericainc.com

Blaine Tech Services (Shell)	Project:	809 E. Stanley Blvd, Livermore	S611289
1680 Rogers Avenue	Project Number:	97461964	**Reported:**
San Jose CA, 95112	Project Manager:	Michael Ninokata	11/26/06 01:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	S611289-01	Water	11/07/06 09:15	11/10/06 09:45
MW-2	S611289-02	Water	11/07/06 10:55	11/10/06 09:45
MW-3	S611289-03	Water	11/07/06 10:25	11/10/06 09:45
MW-4	S611289-04	Water	11/07/06 09:45	11/10/06 09:45

TestAmerica
ANALYTICAL TESTING CORPORATION

819 Striker Avenue, Suite 8
Sacramento, CA 95834
(916) 921-9600
FAX (916) 921-0100
www.testamericainc.com

Blaine Tech Services (Shell)	Project: 809 E. Stanley Blvd, Livermore	S611289
1680 Rogers Avenue	Project Number: 97461964	**Reported:**
San Jose CA, 95112	Project Manager: Michael Ninokata	11/26/06 01:21

Gasoline\BTEX\Oxygenates by GCMS\8260B

TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (S611289-01) Water Sampled: 11/07/06 09:15 Received: 11/10/06 09:45									
Tert-butyl alcohol	ND	5.0	ug/l	1	6110240	11/19/06	11/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*100 %*		*60-140*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*60-140*	"	"	"	"	
Surrogate: 4-BFB		*98 %*		*60-140*	"	"	"	"	
MW-2 (S611289-02) Water Sampled: 11/07/06 10:55 Received: 11/10/06 09:45									
Tert-butyl alcohol	ND	5.0	ug/l	1	6110240	11/19/06	11/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*105 %*		*60-140*	"	"	"	"	
Surrogate: Toluene-d8		*99 %*		*60-140*	"	"	"	"	
Surrogate: 4-BFB		*98 %*		*60-140*	"	"	"	"	

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Blaine Tech Services (Shell)	Project: 809 E. Stanley Blvd, Livermore	S611289
1680 Rogers Avenue	Project Number: 97461964	**Reported:**
San Jose CA, 95112	Project Manager: Michael Ninokata	11/26/06 01:21

Gasoline\BTEX\Oxygenates by GCMS\8260B

TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (S611289-03) Water Sampled: 11/07/06 10:25 Received: 11/10/06 09:45									
Tert-butyl alcohol	ND	5.0	ug/l	1	6110240	11/19/06	11/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*104 %*		*60-140*	"	"	"	"	
Surrogate: Toluene-d8		*100 %*		*60-140*	"	"	"	"	
Surrogate: 4-BFB		*102 %*		*60-140*	"	"	"	"	
MW-4 (S611289-04) Water Sampled: 11/07/06 09:45 Received: 11/10/06 09:45									
Tert-butyl alcohol	ND	5.0	ug/l	1	6110240	11/19/06	11/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*107 %*		*60-140*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*60-140*	"	"	"	"	
Surrogate: 4-BFB		*101 %*		*60-140*	"	"	"	"	

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Blaine Tech Services (Shell)	Project: 809 E. Stanley Blvd, Livermore	S611289
1680 Rogers Avenue	Project Number: 97461964	**Reported:**
San Jose CA, 95112	Project Manager: Michael Ninokata	11/26/06 01:21

Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control
TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6110240 - EPA 5030B [P/T] / GCMS \ 8260B										
Blank (6110240-BLK1)				Prepared: 11/19/06 Analyzed: 11/20/06						
Ethanol	ND	50	ug/l							
Tert-butyl alcohol	ND	5.0	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Tert-amyl methyl ether	ND	2.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-DCA-d4	*9.55*		*"*	*10.0*		*96*	*60-140*			
Surrogate: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*60-140*			
Surrogate: 4-BFB	*10.2*		*"*	*10.0*		*102*	*60-140*			
Blank (6110240-BLK2)				Prepared & Analyzed: 11/20/06						
Ethanol	ND	50	ug/l							
Tert-butyl alcohol	ND	5.0	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Tert-amyl methyl ether	ND	2.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-DCA-d4	*9.70*		*"*	*10.0*		*97*	*60-140*			
Surrogate: Toluene-d8	*10.3*		*"*	*10.0*		*103*	*60-140*			
Surrogate: 4-BFB	*9.74*		*"*	*10.0*		*97*	*60-140*			

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Blaine Tech Services (Shell)	Project: 809 E. Stanley Blvd, Livermore	S611289
1680 Rogers Avenue	Project Number: 97461964	**Reported:**
San Jose CA, 95112	Project Manager: Michael Ninokata	11/26/06 01:21

Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control

TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6110240 - EPA 5030B [P/T] / GCMS \ 8260B										
Laboratory Control Sample (6110240-BS1)				Prepared: 11/19/06 Analyzed: 11/20/06						
Methyl tert-butyl ether	37.6	0.50	ug/l	52.0		72	60-140			
Toluene	154	0.50	"	188		82	70-130			
Gasoline Range Organics (C4-C12)	2220	50	"	2200		101	70-130			
Surrogate: 1,2-DCA-d4	*9.77*		*"*	*10.0*		*98*	*60-140*			
Surrogate: Toluene-d8	*10.4*		*"*	*10.0*		*104*	*60-140*			
Surrogate: 4-BFB	*9.96*		*"*	*10.0*		*100*	*60-140*			
Laboratory Control Sample (6110240-BS2)				Prepared & Analyzed: 11/19/06						
Methyl tert-butyl ether	20.5	0.50	ug/l	20.0		102	60-140			
Benzene	21.0	0.50	"	20.0		105	70-130			
Toluene	19.6	0.50	"	20.0		98	70-130			
Surrogate: 1,2-DCA-d4	*10.2*		*"*	*10.0*		*102*	*60-140*			
Surrogate: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*60-140*			
Surrogate: 4-BFB	*9.55*		*"*	*10.0*		*96*	*60-140*			
Laboratory Control Sample (6110240-BS3)				Prepared & Analyzed: 11/20/06						
Methyl tert-butyl ether	37.2	0.50	ug/l	52.0		72	60-140			
Toluene	148	0.50	"	188		79	70-130			
Gasoline Range Organics (C4-C12)	2110	50	"	2200		96	70-130			
Surrogate: 1,2-DCA-d4	*10.1*		*"*	*10.0*		*101*	*60-140*			
Surrogate: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*60-140*			
Surrogate: 4-BFB	*10.1*		*"*	*10.0*		*101*	*60-140*			
Laboratory Control Sample (6110240-BS4)				Prepared & Analyzed: 11/20/06						
Methyl tert-butyl ether	21.0	0.50	ug/l	20.0		105	60-140			
Benzene	19.9	0.50	"	20.0		100	70-130			
Toluene	19.4	0.50	"	20.0		97	70-130			
Surrogate: 1,2-DCA-d4	*10.2*		*"*	*10.0*		*102*	*60-140*			
Surrogate: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*60-140*			
Surrogate: 4-BFB	*9.96*		*"*	*10.0*		*100*	*60-140*			

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Blaine Tech Services (Shell)	Project: 809 E. Stanley Blvd, Livermore	S611289
1680 Rogers Avenue	Project Number: 97461964	**Reported:**
San Jose CA, 95112	Project Manager: Michael Ninokata	11/26/06 01:21

Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control

TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6110240 - EPA 5030B [P/T] / GCMS \ 8260B										
Matrix Spike (6110240-MS1)	**Source: S611330-02**			Prepared & Analyzed: 11/20/06						
Methyl tert-butyl ether	38.3	0.50	ug/l	52.0	1.29	71	60-140			
Benzene	24.4	0.50	"	38.8	ND	63	70-130			M8
Toluene	150	0.50	"	188	ND	80	70-130			
Gasoline Range Organics (C4-C12)	2150	50	"	2200	21.2	97	60-140			
Surrogate: 1,2-DCA-d4	*9.41*		*"*	*10.0*		*94*	*60-140*			
Surrogate: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*60-140*			
Surrogate: 4-BFB	*10.1*		*"*	*10.0*		*101*	*60-140*			
Matrix Spike Dup (6110240-MSD1)	**Source: S611330-02**			Prepared & Analyzed: 11/20/06						
Methyl tert-butyl ether	38.4	0.50	ug/l	52.0	1.29	71	60-140	0.3	25	
Benzene	23.7	0.50	"	38.8	ND	61	70-130	3	25	M8
Toluene	145	0.50	"	188	ND	77	70-130	3	25	
Gasoline Range Organics (C4-C12)	2070	50	"	2200	21.2	93	60-140	4	25	
Surrogate: 1,2-DCA-d4	*9.49*		*"*	*10.0*		*95*	*60-140*			
Surrogate: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*60-140*			
Surrogate: 4-BFB	*10.2*		*"*	*10.0*		*102*	*60-140*			

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1680 Rogers Avenue	Project Number: 97461964	**Reported:**
San Jose CA, 95112	Project Manager: Michael Ninokata	11/26/06 01:21

Notes and Definitions

M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
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

PROBLEM CHAIN-OF-CUSTODY

DATE/TIME 11/7/06 1830

CLIENT SHELL / BLAINE

CLIENT SERVICES REP LETICIA

DATE RECEIVED 11/7/06

TURN AROUND TIME STD

ANALYST EH

PROBLEM

THE INCIDENT # IS DIFFERENT ON THE C.O.C (97461964)
FROM THE SAMPLES (97306796)

RESOLUTION

Client Instruction* Incident # on COC is correct

Telephone Number of Client: 5730555 x 202

Client Contact for Instruction: Mike Ninokata

Date and Time of Instruction: 11/9/06 @ 912

Date & Time Form Given to Sample Control: 11/9/06 @ 930

CLIENT SERVICES REP. SIGNATURE: [signature]

DATE/TIME: 11/9/06

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

White Copy - Client Services

Pink Copy - Sample Control

SHELL Chain of Custody Record

- ☐ TA - Irvine, California
- ☐ TA - Morgan Hill, California
- ☐ TA - Sacramento, California
- ☑ TA - Nashville, Tennessee
- ☐ Calscience
- ☐ Other_____

NAME OF PERSON TO BILL: Denis Brown

☑ ENVIRONMENTAL SERVICES ☐ NETWORK DEV. / FE ☐ COMPLIANCE ☐ BILL CONSULTANT ☐ RMT/CRMT

☐ CHECK BOX TO VERIFY IF NO INCIDENT # APPLIES

INCIDENT # (ES ONLY): 9 7 4 6 1 9 6 4

PO #:

SAP or CRMT #:

DATE: 11-7-06

PAGE: 1 of 1

SAMPLING COMPANY	LOG CODE	SITE ADDRESS: Street and City	State	GLOBAL ID NO.
Blaine Tech Services	BTSS	809 E. Stanley Blvd., Livermore	CA	T0600101276

ADDRESS	EDF DELIVERABLE TO (Name, Company, Office Location)	PHONE NO.:	E-MAIL:	CONSULTANT PROJECT NO.:
1680 Rogers Avenue, San Jose, CA 95112	Lena Martinez, Delta, San Jose Office	(408) 826-1861	lmartinez@deltaenv.com	BTS # 061107-SD-1

PROJECT CONTACT (Hardcopy or PDF Report to)	TELEPHONE:	FAX:	E-MAIL:
Michael Ninokata	408-573-0555	408-573-7771	mninokata@blainetech.com

SAMPLER NAME(S) (Print): Dan Rompf

LAB USE ONLY: 411289

TAT (STD IS 10 BUSINESS DAYS / RUSH IS CALENDAR DAYS): ☒ STD ☐ 5 DAY ☐ 3 DAY ☐ 2 DAY ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: _____

SPECIAL INSTRUCTIONS OR NOTES:

☐ EDD NOT NEEDED
☐ SHELL CONTRACT RATE APPLIES
☐ STATE REIMB RATE APPLIES
☑ RECEIPT VERIFICATION REQUESTED

CC Debbie Arnold darnold@deltaenv.com and Heather Buckingham hbuckingham@deltaenv.com when sending final report.

REQUESTED ANALYSIS

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable (8260B)	TPH - Diesel, Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B) (MTBE, TBA, DIPE, TAME, ETBE)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH-motor oil (8015M)	TDS (160.1)	Total Iron (6010B)	Total Lead (6010B)		Total Oil and Grease (1664A)		TEMPERATURE ON RECEIPT C°
	MW-1	11-7-06	0915	H2O	3	X		X	X														-01		
	MW-2	11-7-06	1055	↓	↓	X		X	X														-02		
	MW-3	11-7-06	1025			X		X	X														-03		
	MW-4	11-7-06	0945	↓	↓	X		X	X														-04		

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
(Sample Custodian)	(Sample custodian)	11-7-06	1645
Relinquished by: (Signature)	Received by: (Signature)	11/7/06	1725
Relinquished by: (Signature)	Received by: (Signature) MH	11-7-06	1830

11/10/06 0945 4.9°C Bhavin 11/09/06 15:10

05/02/06 Revision

Q&Q Graphic (714) 898-9702

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: SHELL / BLAINE
REC. BY (PRINT): EH
WORKORDER:

DATE REC'D AT LAB: 11/7/06
TIME REC'D AT LAB: 1830
DATE LOGGED IN:

For Regulatory Purposes?
DRINKING WATER YES / NO
WASTE WATER YES / NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / Absent Intact / Broken*			SEE COC					
2. Chain-of-Custody Present / Absent*								
3. Traffic Reports or Packing List: Present / Absent								
4. Airbill: Airbill / Sticker Present / Absent								
5. Airbill #:								
6. Sample Labels: Present / Absent								
7. Sample IDs: Listed / Not Listed on Chain-of-Custody								
8. Sample Condition: Intact / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree? Yes / No*			11/7/06 EH					
10. Sample received within hold time? Yes / No*								
11. Adequate sample volume received? Yes / No*								
12. Proper preservatives used? Yes / No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No*								
14. Read Temp: 3.1 Corrected Temp: 3.1 Is corrected temp 4 +/-2°C? Yes / No**								

(Acceptance range for samples requiring thermal pres.)
**Exception (if any): METALS / DFF ON ICE or Problem COC

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

WELLHEAD INSPECTION CHECKLIST

Client Shell Date 11-7-06

Site Address 809 E. Stanley Blvd. Livermore

Job Number 061107-ID-1 Technician I.D.

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12"or less)	WELL IS MARKED WITH THE WORDS "MONITORING WELL" (12"or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-1	X	X	X							
MW-2	X	X	X							
MW-3	X	X	X							
MW-4	X	X	X							

NOTES: All wells ok., good locks, caps.

WELL GAUGING DATA

Project # 061107-SJ-1 Date 11-7-06 Client Shell

Site 809 E. Stanley Blvd., Livermore

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	0815	2	N				18.55	47.57		
MW-2	0820	2	N				18.69	46.95		
MW-3	0825	2	N				18.35	47.44		
MW-4	0835	2	N				19.57	47.87	↓	

SHELL WELL MONITORING DATA SHEET

BTS #: 061107-SD-1	Site: Shell, Livermore
Sampler: SD.	Date: 11-7-06
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 47.57	Depth to Water (DTW): 18.55
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]: 24.35	

Purge Method: (Bailer) / Disposable Bailer / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other____

Sampling Method: (Bailer) / Disposable Bailer / Extraction Port / Dedicated Tubing / Other:

1 Case Volume		Specified Volumes		Calculated Volume
4.6	(Gals.) X	3	=	13.8 Gals.

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (uS))	Turbidity (NTUs)	Gals. Removed	Observations
0855	63.5	6.4	505	167	4.6	clear / no odor
0902	63.3	6.9	505	515	9.2	murky
0907	63.1	7.2	505	806	13.8	brown

Did well dewater? Yes (No)		Gallons actually evacuated: 13.8	
Sampling Date: 11-7-06	Sampling Time: 0915	Depth to Water:	
Sample I.D.: MW-1		Laboratory: STL (Other) TA	
Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:			
EB I.D. (if applicable): @ Time		Duplicate I.D. (if applicable):	
Analyzed for: TPH-G BTEX MTBE TPH-D 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 #: 061107-JD-1	Site: Shell, Livermore
Sampler: J.D.	Date: 11-7-06
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 46.95	Depth to Water (DTW): 18.69
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]: 24.34	

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:

4.5	(Gals.) X	3	=	13.5	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^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (uS))	Turbidity (NTUs)	Gals. Removed	Observations
1030	67.1	7.8	527	71,000	4.5	muddy
1040	65.1	7.6	515	71,000	9.0	muddy
1050	63.5	7.5	510	977	13.5	more clear

Did well dewater? Yes (No) Gallons actually evacuated: 13.5

Sampling Date: 11-7-06 Sampling Time: 1055 Depth to Water: 20.57

Sample I.D.: MW-2 Laboratory: STL (Other) TA

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

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

Analyzed for: TPH-G BTEX MTBE TPH-D 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 #: 061107-JD-1	Site: Shell, Livermore
Sampler: JD	Date: 11-7-06
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 47.44	Depth to Water (DTW): 18.35
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]: 24.16	

Purge Method: (Bailer) / Disposable Bailer / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other____

Sampling Method: (Bailer) / Disposable Bailer / Extraction Port / Dedicated Tubing / Other:

4.7 (Gals.) X	3	= 14.1 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1000	66.3	7.4	571	122	4.7	clear
1010	66.9	7.5	571	155	9.4	clear
1020	67.6	7.6	574	193	14.1	clear / cloudy

Did well dewater? Yes (No)		Gallons actually evacuated: 14.1	
Sampling Date: 11-7-06	Sampling Time: 1025	Depth to Water: 20.71	
Sample I.D.: MW-3		Laboratory: STL (Other) TA	
Analyzed for: (TPH-G) BTEX MTBE TPH-D		Other:	
EB I.D. (if applicable): @ Time		Duplicate I.D. (if applicable):	
Analyzed for: TPH-G BTEX MTBE TPH-D		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 #: 061107-JD-1	Site: Shell, Livermore
Sampler: J.D.	Date: 11-7-06
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 47.87	Depth to Water (DTW): 19.57
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]: 28.23	

Purge Method: (Bailer) Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer) Disposable Bailer; Extraction Port; Dedicated Tubing; Other:_____

4.5 (Gals.) X	3	= 13.5 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0920	62.4	7.5	515	151	4.5	clear
0930	63.5	7.4	519	158	9.0	clear
0940	64.2	7.3	526	171	13.5	clear

Did well dewater? Yes (No) Gallons actually evacuated: 13.5

Sampling Date: 11-7-06 Sampling Time: 0945 Depth to Water: 22.79

Sample I.D.: MW-4 Laboratory: STL Other: (TA)

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

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

Analyzed for: TPH-G BTEX MTBE TPH-D 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