Shell Oil Products US

March 30, 2006

Re: **Semi-Annual Groundwater Monitoring Report – First Quarter 2006**
Shell-branded Service Station
809 East Stanley Blvd
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: (707) 865-0251; F: (707) 865-2542

Delta
Environmental
Consultants, Inc.

Solving environment-related business problems worldwide

www.deltaenv.com

175 Bernal Road • Suite 200
San Jose, California 95119 USA

800.477.7411
Fax 408.225.8506

March 30, 2006
Project No. SJ80-9ST-1
SAP: 135442

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

Re: Semi-Annual Groundwater Monitoring Report – First Quarter 2006
Shell-branded Service Station
809 East Stanley Blvd.
Livermore, California

Dear Mr. Wickham:

Delta Environmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), has prepared the following first quarter 2006 groundwater monitoring and sampling report for the above referenced site. A site location map is included as Figure 1.

BACKGROUND

In November 2001, IT Corporation (IT) installed four site monitoring wells (MW-1 through MW-4, Figure 2) as part of Shell's GRoundwater ASsement Program (GRASP). GRASP is a voluntary initiative by Shell to install groundwater monitoring wells at numerous retail service stations nationwide that do not have any active release cases but have been identified to be in close proximity to one or more water supply wells. According to the California State Geotracker database, California Water Service Well 10-01 is located approximately 1,700 feet northeast of the site.

Shell received a notice of responsibility letter dated March 7, 2003, from the Alameda County Health Care Services Agency placing the site in the Local Oversight Program due to the presence of methyl tert-butyl ether (MTBE) in groundwater beneath the site. In a work plan, dated May 27, 2003, Delta proposed to continue quarterly sampling of site wells for the remainder of 2003 in order to monitor MTBE concentrations. During the fourth quarter 2003, Delta recommended reducing the sampling frequency from quarterly to semi-annually in the first and third quarters.

QUARTERLY GROUND WATER MONITORING PROGRAM

Groundwater monitoring wells were gauged and sampled by Blaine Tech Services (Blaine), at the direction of Delta, on January 10, 2006. Depth to groundwater was measured in Wells MW-1 through MW-4. Groundwater elevation data and contours are presented on Figure 2.

Groundwater samples were collected from Wells MW-1 through MW-4. Samples were submitted by Blaine to Sequoia Analytical in Morgan Hill, California for analysis of total purgeable petroleum hydrocarbons as gasoline (TPH-G); benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds) and the five fuel oxygenates MTBE, di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), and tert-butanol (TBA). Benzene, MTBE and TBA concentrations in groundwater are shown on Figure 3.

Blaine's groundwater monitoring and sampling report, which includes historical and current groundwater elevation data, historical and current analytical results, and field data records for the current monitoring event, is included as Attachment A.

DISCUSSION

The groundwater elevation has increased an average of 1.68 feet in site wells since the third quarter of 2005. The groundwater gradient on January 10, 2006 was toward the northeast at a magnitude of <0.01 feet/feet, consistent with previous data.

All analytes tested, with the exception of TBA, continued to be below laboratory detection limits during the first quarter of 2006. MTBE detected in Well MW-3, the only constituent previously detected in any site well, has been below the laboratory detection limit since January 2004. During the first quarter 2006 monitoring event, TBA was detected for the first time in Wells MW-1 and MW-2 at concentrations of 1,000 ug/l and 24 ug/l, respectively. The maximum concentration of TBA was detected in up gradient Well MW-1, which may indicate an off-site source. All site wells are scheduled for sampling in the third quarter 2006.

REMARKS

The information contained in this report represent 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.

Please call if you have any questions regarding the contents of this letter.

Sincerely,
Delta Environmental Consultants, Inc.

Rebecca Wolff

Rebecca Wolff
Project Geologist

D. Arnold

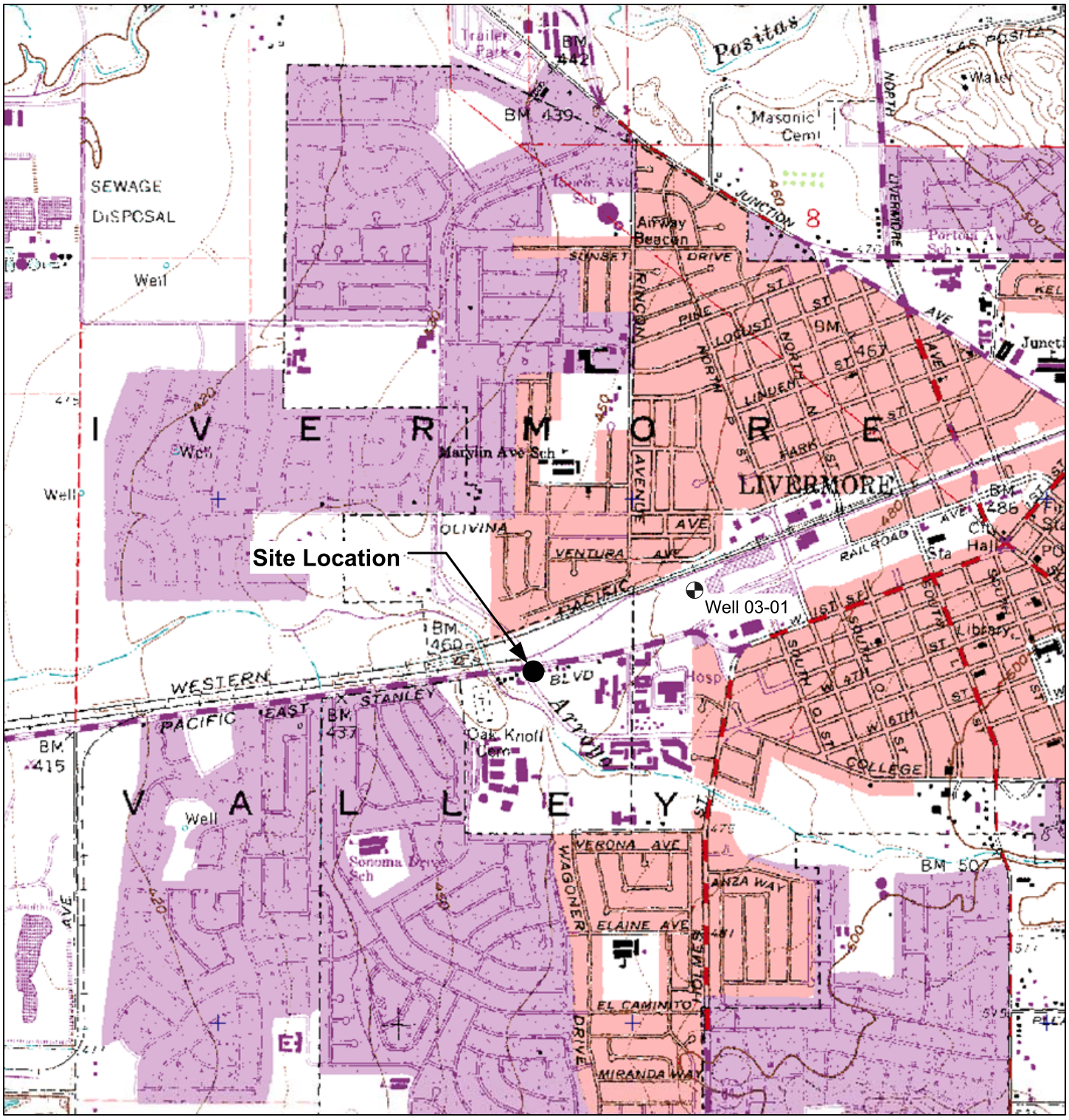
Debbie Arnold
Project Manager
PG 7745

Attachments:

Figure 1 – Site Location Map
Figure 2 – Groundwater Elevation Contour Map, January 10, 2006
Figure 3 – Benzene, MTBE and TBA Concentrations Map, January 10, 2006

Attachment A – Groundwater Monitoring and Sampling Report, January 30, 2006

cc: Denis Brown, Shell Oil Products US, Monte Rio
Isabel Mejia, Shell Oil Products US, Carson



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

North

0 1,800
Scale, Feet

QUADRANGLE LOCATION

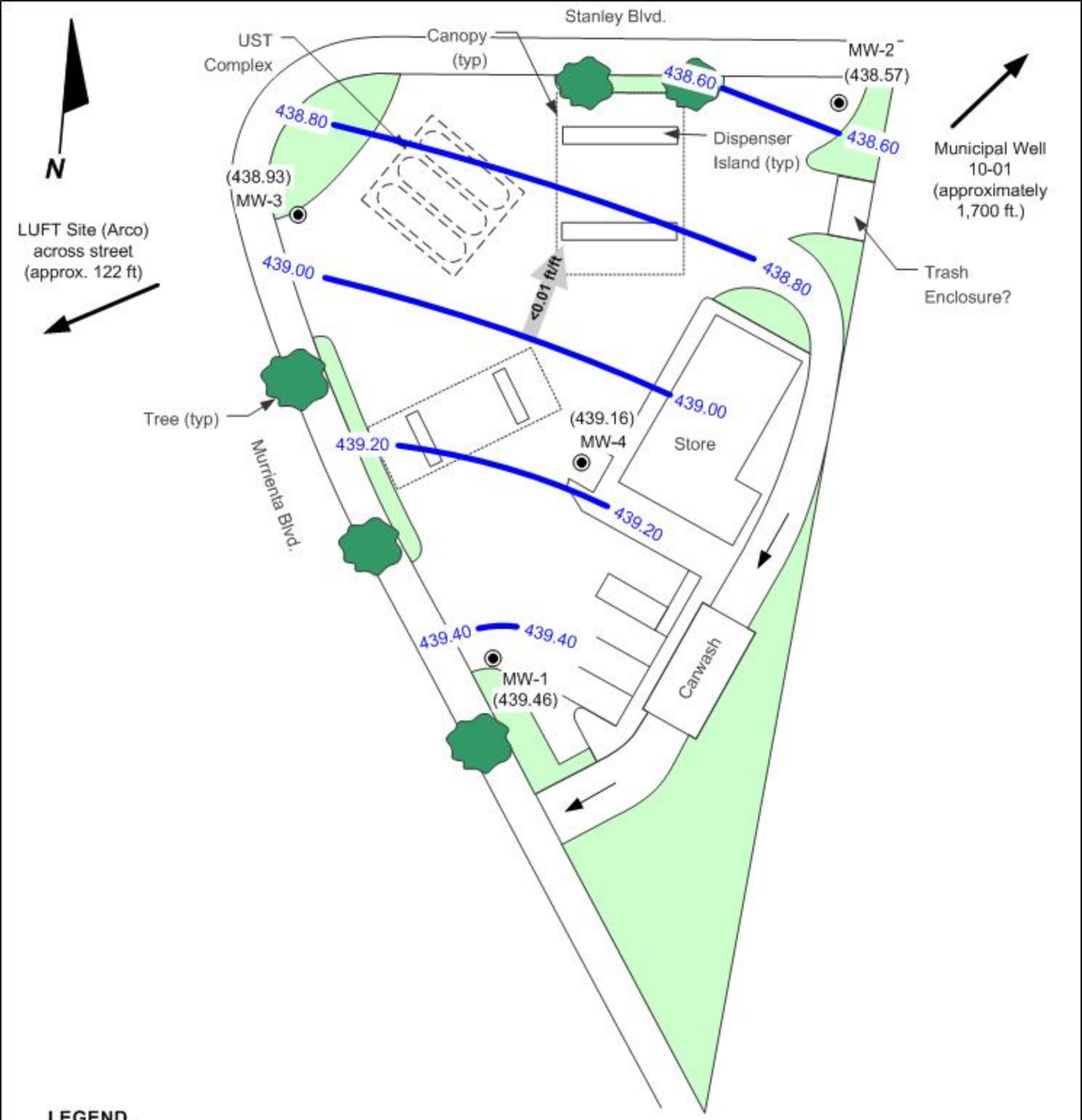
FIGURE 1

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**

(439.46) **GROUNDWATER ELEVATION (FEET-MSL), 01/10/06**

439.40 — **GROUNDWATER ELEVATION CONTOUR**

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

0 40 FT

APPROX. SCALE

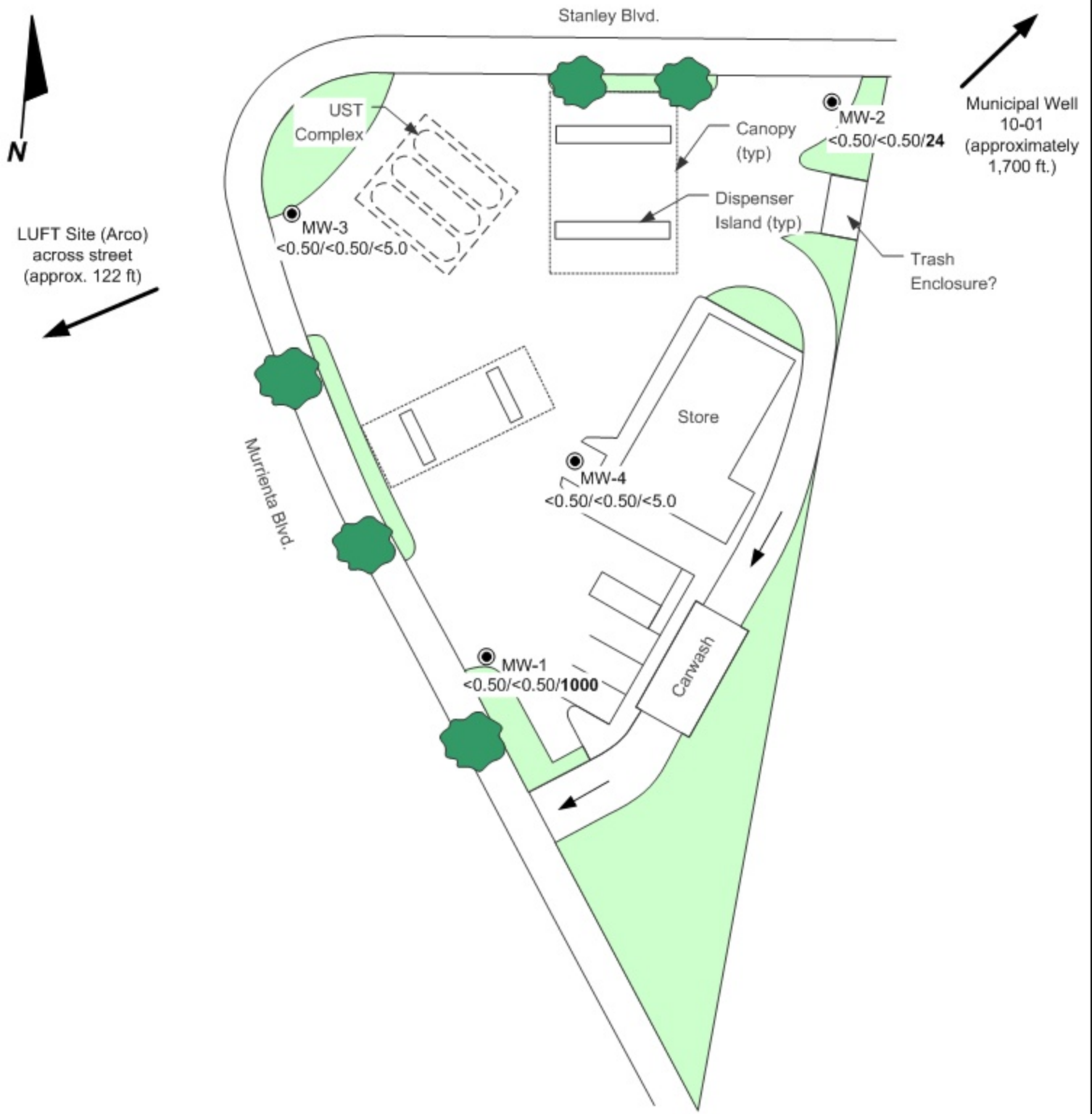
FIGURE 2

GROUNDWATER ELEVATION CONTOUR MAP, JANUARY 10, 2006

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

PROJECT NO. SJ80-9ST-1.2006	DRAWN BY JL 02/03/06
FILE NO. SJ8-09ST-1.2006	PREPARED BY FS
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc.



LEGEND

MW-1 ◉ **GROUNDWATER MONITORING WELL**

<0.50/<0.50/<5.0 **BENZENE/MTBE/TBA CONCENTRATIONS IN GROUNDWATER (ug/l), 01/10/06**

FIGURE 3

BENZENE, MTBE AND TBA CONCENTRATIONS MAP, JANUARY 10, 2006

Shell-branded Service Station

809 East Stanley Ave.

Livermore, California

PROJECT NO. SJ80-9ST-1.2006	DRAWN BY JL 02/03/06
FILE NO. SJ8-09ST-1.2006	PREPARED BY FS
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc.

Attachment A

GROUNDWATER MONITORING AND SAMPLING REPORT

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

January 30, 2006

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

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

Monitoring performed on January 10, 2006

Groundwater Monitoring Report **060110-MT-2**

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 Coordinator

MN/ks

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

cc: Rebecca Wolff
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-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
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**

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-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-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
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**

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)

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.

Sequoia Analytical

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

24 January, 2006

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

RE: 809 E. Stanley Blvd., Livermore
Work Order: MPA0740

Enclosed are the results of analyses for samples received by the laboratory on 01/11/06 14:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Theresa Allen
Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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

Blaine Tech Services - San Jose (Shell)	Project: 809 E. Stanley Blvd., Livermore	MPA0740
1680 Rogers Avenue	Project Number: 060110-MTZ	**Reported:**
San Jose CA, 95112	Project Manager: Michael Ninokata	01/24/06 17:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MPA0740-01	Water	01/10/06 15:22	01/11/06 14:35
MW-2	MPA0740-02	Water	01/10/06 14:32	01/11/06 14:35
MW-3	MPA0740-03	Water	01/10/06 15:00	01/11/06 14:35
MW-4	MPA0740-04	Water	01/10/06 13:54	01/11/06 14:35

Sequoia Analytical

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

Blaine Tech Services - San Jose (Shell)	Project: 809 E. Stanley Blvd., Livermore	MPA0740
1680 Rogers Avenue	Project Number: 060110-MTZ	**Reported:**
San Jose CA, 95112	Project Manager: Michael Ninokata	01/24/06 17:17

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MPA0740-01) Water Sampled: 01/10/06 15:22 Received: 01/11/06 14:35									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	6A23034	01/23/06	01/24/06	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	**1000**	5.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*79 %*	*60-135*		"	"	"	"	
MW-2 (MPA0740-02) Water Sampled: 01/10/06 14:32 Received: 01/11/06 14:35									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	6A23034	01/23/06	01/24/06	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	**24**	5.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*77 %*	*60-135*		"	"	"	"	

Sequoia Analytical

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

Blaine Tech Services - San Jose (Shell)	Project: 809 E. Stanley Blvd., Livermore	MPA0740
1680 Rogers Avenue	Project Number: 060110-MTZ	**Reported:**
San Jose CA, 95112	Project Manager: Michael Ninokata	01/24/06 17:17

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MPA0740-03) Water Sampled: 01/10/06 15:00 Received: 01/11/06 14:35									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	6A23034	01/23/06	01/24/06	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*79 %*	*60-135*		"	"	"	"	
MW-4 (MPA0740-04) Water Sampled: 01/10/06 13:54 Received: 01/11/06 14:35									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	6A23034	01/23/06	01/24/06	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	

Sequoia Analytical

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

Blaine Tech Services - San Jose (Shell)	Project:809 E. Stanley Blvd., Livermore	MPA0740
1680 Rogers Avenue	Project Number:060110-MTZ	**Reported:**
San Jose CA, 95112	Project Manager:Michael Ninokata	01/24/06 17:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6A23034 - EPA 5030B P/T / EPA 8260B										
Blank (6A23034-BLK1)				Prepared: 01/23/06 Analyzed: 01/24/06						
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
tert-Butyl alcohol	ND	5.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Ethanol	ND	100	"							
Surrogate: 1,2-Dichloroethane-d4	*2.24*		*"*	*2.50*		*90*	*60-135*			
Laboratory Control Sample (6A23034-BS1)				Prepared & Analyzed: 01/23/06						
Gasoline Range Organics (C4-C12)	495	50	ug/l	440		112	60-140			
Benzene	4.45	0.50	"	5.04		88	65-115			
Toluene	34.0	0.50	"	38.0		89	85-120			
Ethylbenzene	6.90	0.50	"	7.28		95	75-135			
Xylenes (total)	40.8	0.50	"	40.8		100	85-125			
Methyl tert-butyl ether	7.62	0.50	"	7.84		97	65-125			
Di-isopropyl ether	14.2	0.50	"	16.2		88	75-125			
Ethyl tert-butyl ether	15.5	0.50	"	16.4		95	75-130			
tert-Amyl methyl ether	16.3	0.50	"	16.3		100	80-115			
tert-Butyl alcohol	150	5.0	"	169		89	75-150			
1,2-Dichloroethane	15.2	0.50	"	18.7		81	85-130			QC02
1,2-Dibromoethane (EDB)	17.0	0.50	"	16.6		102	85-120			
Ethanol	141	100	"	165		85	70-135			
Surrogate: 1,2-Dichloroethane-d4	*2.05*		*"*	*2.50*		*82*	*60-135*			

Sequoia Analytical

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

Blaine Tech Services - San Jose (Shell)	Project: 809 E. Stanley Blvd., Livermore	MPA0740
1680 Rogers Avenue	Project Number: 060110-MTZ	**Reported:**
San Jose CA, 95112	Project Manager: Michael Ninokata	01/24/06 17:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6A23034 - EPA 5030B P/T / EPA 8260B										
Laboratory Control Sample Dup (6A23034-BSD1)				Prepared & Analyzed: 01/23/06						
Gasoline Range Organics (C4-C12)	513	50	ug/l	440		117	60-140	4	25	
Benzene	4.72	0.50	"	5.04		94	65-115	6	20	
Toluene	36.4	0.50	"	38.0		96	85-120	7	20	
Ethylbenzene	7.32	0.50	"	7.28		101	75-135	6	15	
Xylenes (total)	41.8	0.50	"	40.8		102	85-125	2	20	
Methyl tert-butyl ether	7.75	0.50	"	7.84		99	65-125	2	20	
Di-isopropyl ether	14.9	0.50	"	16.2		92	75-125	5	15	
Ethyl tert-butyl ether	15.8	0.50	"	16.4		96	75-130	2	25	
tert-Amyl methyl ether	16.6	0.50	"	16.3		102	80-115	2	15	
tert-Butyl alcohol	187	5.0	"	169		111	75-150	22	25	
1,2-Dichloroethane	15.2	0.50	"	18.7		81	85-130	0	20	QC02
1,2-Dibromoethane (EDB)	17.1	0.50	"	16.6		103	85-120	0.6	15	
Ethanol	205	100	"	165		124	70-135	37	35	QC21
Surrogate: 1,2-Dichloroethane-d4	*2.03*		*"*	*2.50*		*81*	*60-135*			

Sequoia Analytical

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

Blaine Tech Services - San Jose (Shell)	Project:809 E. Stanley Blvd., Livermore	MPA0740
1680 Rogers Avenue	Project Number:060110-MTZ	**Reported:**
San Jose CA, 95112	Project Manager:Michael Ninokata	01/24/06 17:17

Notes and Definitions

QC21	The RPD result exceeded the control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QC02	The percent recovery was below the control limits.
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

LAB: Test America STL Other TA

Lab Identification (if necessary):
- ☐ TA - Irvine, California
- ☐ TA - Morgan Hill, California
- ☐ TA - Nashville, Tennessee
- ☐ STL
- ☐ Other (location)_____

SHELL Chain Of Custody Record

Shell Project Manager to be invoiced: Denis Brown
- ☑ ENVIRONMENTAL SERVICES
- ☐ TECHNICAL SERVICES
- ☐ CRMT HOUSTON
- ☐ NOT FOR ENV. REMEDIATION - NO ETIM - SEND PAPER INVOICE

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

SAP or CRMT NUMBER (TS/CRMT):

DATE: 1/10/06

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: 1680 Rogers Avenue, San Jose, CA 95112

EDF DELIVERABLE TO (Name, Company, Office Location): Heather Buckingham, Delta, San Jose Office

PHONE NO.: (408)224-4724

E-MAIL: hbuckingham@deltaenv.com

CONSULTANT PROJECT NO.: 806010-MT2

BTS #

PROJECT CONTACT (Hardcopy or PDF Report to): Michael Ninokata

TELEPHONE: 408-573-0555

FAX: 408-573-7771

E-MAIL: mninokata@blainetech.com

SAMPLER NAME(S) (Print): MikeDH

LAB USE ONLY: MPA0740

TURNAROUND TIME (STANDARD IS 10 CALENDAR DAYS): ☑ STD ☐ 5 DAY ☐ 3 DAY ☐ 2 DAY ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: _____

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED ☐

RECEIPT VERIFICATION REQUESTED ☑

REQUESTED ANALYSIS

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)
01	MW-1	1/10/06	1522	W	3	X	X	X	X	X								
02	MW-2	"	1432	"	3	X		X	X	X								
03	MW-3	"	1500	"	3	X		X	X	X								
04	MW-4	"	1354	"	3	X		X	X	X								

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

TEMPERATURE ON RECEIPT C° 2-5°C

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	SAMPLE CUSTODIAN	1/10/06	1711
SAMPLE CUSTODIAN	[signature]	1/11/06	9:08
[signature]	[signature]	1/11/06	1435

ON: White with final report; [illegible]

Revision

Q&Q Graphic (714) 898-9702

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Shell / Blaine
REC. BY (PRINT): E. Fallin
WORKORDER: MPA0740

DATE REC'D AT LAB: 1/4/06
TIME REC'D AT LAB: 1435
DATE LOGGED IN: 1/4/06

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

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / (Absent) Intact / Broken*									
2. Chain-of-Custody (Present) / Absent*									
3. Traffic Reports or Packing List: Present / (Absent)									
4. Airbill: Airbill / Sticker (Present) / Absent									
5. Airbill #: —									
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***									
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: 2.5 °C Corrected Temp: 2.5 °C 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									

EDF 1/4/06 SEE COC

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

WELLHEAD INSPECTION CHECKLIST

Date 01/10/06 Client 9746964

Site Address 809 E Stanley Blvd

Job Number ~~9746964~~ 060110-MT2 Technician MT, JD

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-1				X				
MW-2	X							
MW-3	X							
MW-4	X							

NOTES:

WELL GAUGING DATA

Project # 060110-MT2 Date 01/10/06 Client 97461964

Site 809 E Stanley Blvd

Well ID	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	
MW-1	2					16.03	47.64		
MW-2	2					16.27	47.13		
MW-3	2					15.94	47.47		
MW-4	2					17.08	47.80	↓	

SHELL WELL MONITORING DATA SHEET

BTS #: 060110-MW2	Site: 97461964
Sampler: MT, AD	Date: 01/10/06
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 47.64	Depth to Water (DTW): 16.03
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]: 22.35	

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: _____

5.1 (Gals.) X 3 = 15.3 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
1507	63.6	7.3	501	58	5.1	clear
1512	63.2	7.3	506	200	10.2	clear
1517	63.5	7.3	511	50	15.3	"

Did well dewater? Yes (No) Gallons actually evacuated: 15.3

Sampling Date: 01/10/06 Sampling Time: 1522 Depth to Water:

Sample I.D.: MW-1 Laboratory: STL Other TA

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

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 #: ~~0606~~ 060110-MT2	Site: 97461964
Sampler: MT, (JV)	Date: 01/10/06
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 47.13	Depth to Water (DTW): 16.27
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]: 22.44	

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:____

4.9 (Gals.) X 3 = 14.7 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
1415	61.6	7.3	538	>1000	4.9	cloudy, brown
1421	62.9	7.3	535	>1000	9.8	" "
1427	62.9	7.3	535	>1000	14.7	" "

Did well dewater? Yes (No) Gallons actually evacuated: 14.7

Sampling Date: 01/10/06 Sampling Time: 1432 Depth to Water: 16.83

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

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

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 #: 060110-MT2	Site: 9746196Y
Sampler: MT (JD)	Date: 01/10/06
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 47.47	Depth to Water (DTW): 15.94
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]: 22.25	

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:____

5.0 (Gals.) X 3 = 15.0 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 (uS))	Turbidity (NTUs)	Gals. Removed	Observations
1443	64.1	7.3	529	258	5.0	(clear) cloudy
1449	64.5	7.4	531	95	10.0	clear
1455	64.5	7.4	532	40	15.0	"

Did well dewater? Yes (No) Gallons actually evacuated: 15.0

Sampling Date: 01/10/06 Sampling Time: 1500 Depth to Water: 15.99

Sample I.D.: MW-3 Laboratory: STL Other TA

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

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 #: 060110-MT2	Site: 97461964
Sampler: MT (SD)	Date: 01/10/06
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 47.80	Depth to Water (DTW): 17.08
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]: 23.22	

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

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

4.9 (Gals.) X 3 = 14.7 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
1338	63.7	7.5	536.0	20	4.9	Clear
1343	63.1	7.3	534.0	20	9.8	"
1348	63.0	7.3	534.3	9	14.7	"

Did well dewater? Yes (No) Gallons actually evacuated: 14.7

Sampling Date: 01/10/06 Sampling Time: 1354 Depth to Water: 17.10

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

Analyzed for: ~~TPH-G~~ ~~BTEX~~ (MTBE) TPH-D Other: Oxy's

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