RECEIVED

By lopprojectop at 10:09 am, Apr 24, 2006

April 17, 2006

Re: Former Shell-branded Service Station

318 S. Livermore Avenue 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



Solving environment-related business problems worldwide

RECEIVED

By lopprojectop at 10:09 am, Apr 24, 2006

www.deltaenv.com

April 17, 2006 Project No. SJ31-8LI-1.2006 SAP: 135440

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: Quarterly Monitoring Report – First Quarter 2006 Former Shell-branded Service Station 318 South Livermore Avenue 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

On March 7, 2003, Shell received a notice of responsibility letter from the Alameda County Health Care Services Agency (ACHCSA) placing the site in the Local Oversight Program due to the presence of methyl tert-butyl ether (MTBE) in groundwater beneath the site in existing site wells. 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.

On December 10, 2003, site USTs, fuel dispensers, and associated product piping were removed. A fuel system removal report, dated January 16, 2004, was submitted by Delta to the ACHCSA.



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-5 through MW-9. Wells MW-1 through MW-4 were previously destroyed. Groundwater elevation data and contours are presented on Figure 2.

A groundwater sample was only collected from Well MW-9. Recently installed Well MW-9 is sampled quarterly. All other site wells (Wells MW-5 through MW-8) are sampled semi-annually. The sample from Well MW-9 was submitted by Blaine to Sequoia Analytical in Morgan Hill, California for analysis for total purgeable petroleum hydrocarbons as gasoline (TPH-G); benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds); the fuel oxygenates MTBE, di-isopropyl other (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), and tertiary butyl alcohol (TBA), 1,2-Dichloroethane (1,2-DCA), 1,2-Dibromoethane (EDB) and total lead. Analyses for petroleum hydrocarbons, fuel oxygenates, and lead scavengers was performed by EPA Method 8260B. Analysis for total lead was performed by EPA Method 6010B. Benzene and MTBE concentrations in groundwater are presented 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

Depth to groundwater in site wells (MW-5 through MW-9) has decreased by an average of 4.9 feet since fourth quarter 2005, consistent with historic water level fluctuations. Depth to groundwater in site Well MW-9 has decreased by 5.45 feet since installation in September 2005, and the well screen interval (28 – 32 feet bg) is currently drowned. The groundwater gradient on January 10, 2006 was toward the north at a magnitude of 0.02 feet/feet. This groundwater flow direction is inconsistent with previous site data. The groundwater flow direction in previous quarters has been predominantly towards the west.

TPH-G was detected in Well MW-9 at a concentration of 770 micromilligrams per liter (ug/l). Well MW-9 also contained concentrations of BTEX compounds ranging from 3.4 ug/l (ethylbenzene) to 68 ug/l (benzene). MTBE was detected in Well MW-9 at a concentration of 5.9 ug/l. Fuel oxygenates DIPE, ETBE, and TAME remain below laboratory detection limits for the third consecutive monitoring event. TBA was below the laboratory detection limit in Well MW-9 for the first time. The lead scavenger, 1,2-DCA, was detected in Well MW-9 at a concentration of 2.0 ug/l, a slight increase from last quarter.

All site wells (MW-5 through MW-9) will be gauged and sampled during the second quarter of 2006.

Due to the City of Livermore's redevelopment of the subject property, site Wells MW-5 through MW-9 must be abandoned. Delta has discussed well abandonment with Mr. Jerry Wickham of the ACHCSA, and has obtained verbal permission to destroy site wells per the City's request. A work plan outlining well abandonment activities has been submitted to the ACHCSA by Delta, and fieldwork is scheduled to be conducted on April 19 and 20, 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.

Andrew Persio

 \bigcap 1

Debbie Arnold Project Manager

PG 7745

Attachments: Figure 1 – Site Location Map and Well Survey Map

DEBORAH ARNOLI NO. 7745

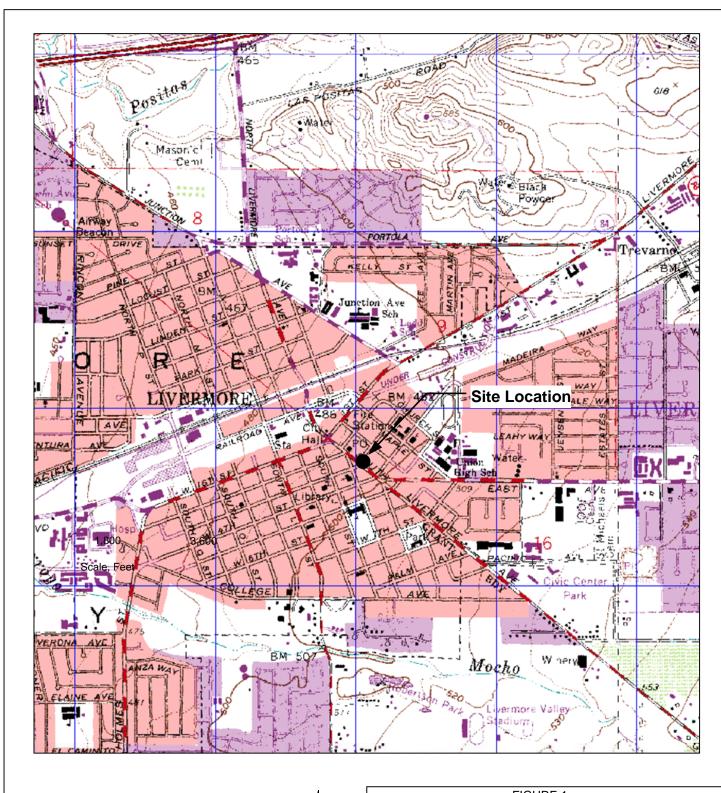
Figure 2 – Groundwater Elevation Contour Map, January 10, 2006 Figure 3 – Benzene and MTBE Concentrations Map, January 10, 2006

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

cc: Denis Brown, Shell Oil Products US, Monte Rio

Betty Graham, RWQCB, Oakland

Chris Davidson, Redevelopment Agency, City of Livermore, Livermore



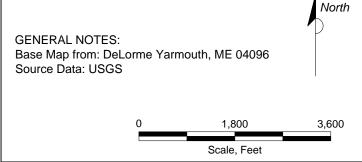


FIGURE 1 SITE LOCATION MAP

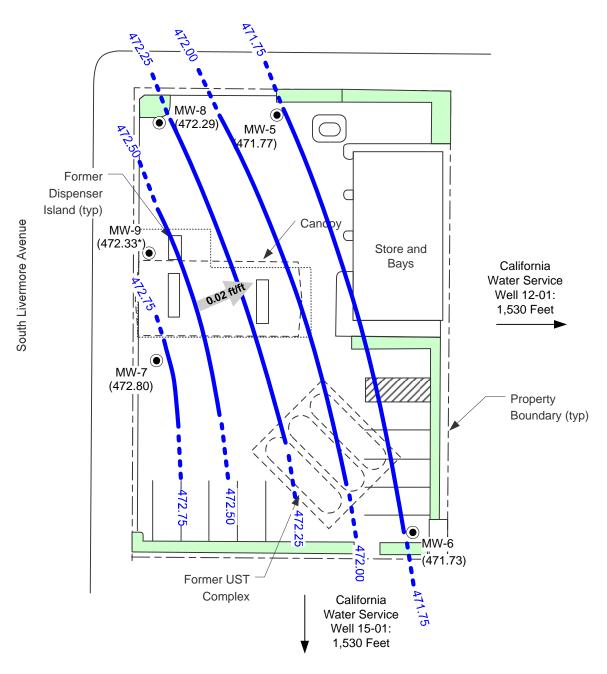
FORMER SHELL-BRANDED SERVICE STATION 318 South Livermore Avenue Livermore, CA

PROJECT NO.	DRAWN BY
SJ31-8LI-1.2005	VF 9/25/03
FILE NO.	PREPARED BY
SJ31-8LI-1.2005	VF
REVISION NO.	REVIEWED BY
۰ .	





Third Street



LEGEND

MW-6 • GROUNDWATER MONITORING WELL

(471.73) **GROUNDWATER**

ELEVATION (MSL), 01/10/06

472.00 GROUNDWATER

ELEVATION CONTOUR

0.02 ft/ft GROUNDWATER FLOW

DIRECTION AND GRADIENT

NOT USED IN CONTOURING



APPROX. SCALE

FIGURE 2

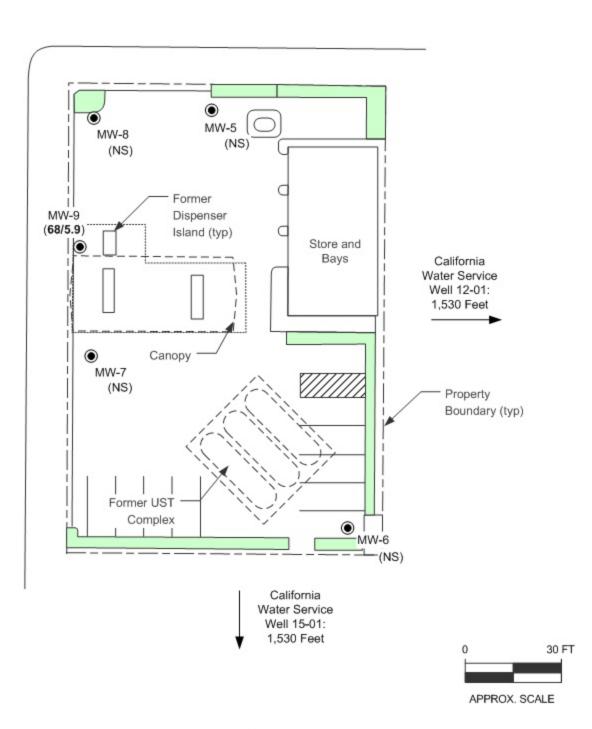
GROUNDWATER ELEVATION CONTOUR MAP, JANUARY 10, 2006

FORMER SHELL-BRANDED SERVICE STATION 318 South Livermore Avenue Livermore, California

PROJECT NO.	DRAWN BY
SJ31-8LI-1.2006	JL 02/20/06
FILE NO.	PREPARED BY
SJ31-8LI-1.2006	AP
REVISION NO.	REVIEWED BY



South Livermore Avenue



LEGEND

MW-6

GROUNDWATER MONITORING WELL

(68/5.9) BENZENE / MTBE CONCENTRATIONS IN GROUNDWATER (UG/L), 01/10/06

NS NOT SAMPLED

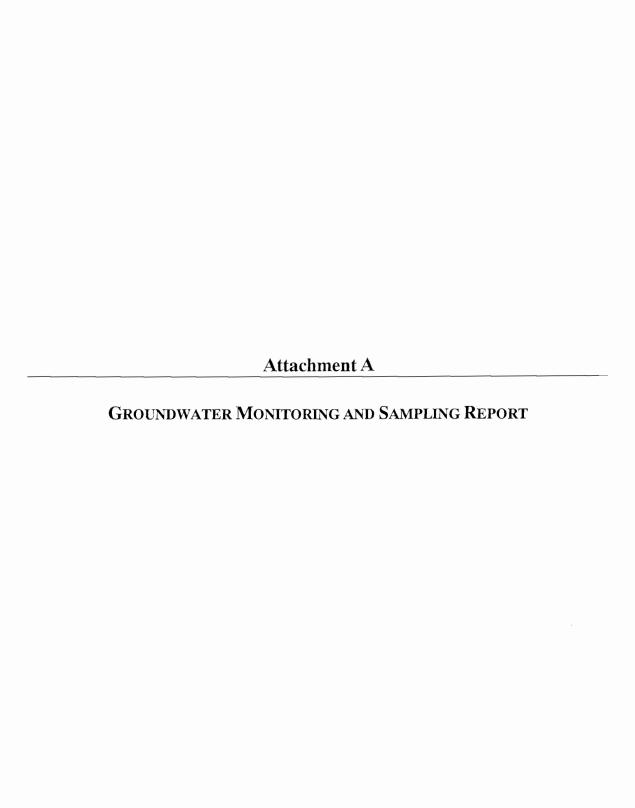
FIGURE 3

BENZENE AND MTBE CONCENTRATION MAP, JANUARY 10, 2006

FORMER SHELL-BRANDED SERVICE STATION 318 South Livermore Avenue Livermore, California

PROJECT NO. SJ31-8LI-1.2006	DRAWN BY JL 02/20/06	
FILE NO. SJ31-8LI-1.2006	PREPARED BY AP	1
REVISION NO.	REVIEWED BY	1







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 Former Shell Service Station 318 South Livermore Avenue Livermore, CA

Monitoring performed on January 10, 2006

Groundwater Monitoring Report **060110-MT-3**

This report covers the routine monitoring of groundwater wells at this former Shell 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.

 SAN JOSE
 SACRAMENTO
 LOS ANGELES
 SAN DIEGO

 1680 ROGERS AVENUE
 SAN JOSE, CA 95112-1105
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 LIC. 746684
 www.blqinetech.com

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

							MTBE						Depth to	GW
Well ID	Date	TPPH	В	Т	Е	Х	8260	DIPE	ETBE	TAME	ТВА	тос	Water	Elevation
		(ug/L)	(MSL)	(ft.)	(MSL)									
	<u> </u>	• •											<u> </u>	·
MW-5	09/18/2001	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	NA	NA
MW-5	07/09/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	495.47	34.85	460.62
MW-5	10/25/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	495.47	37.26	458.21
MW-5	01/24/2003	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	495.47	27.30	468.17
MW-5	04/17/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	495.47	27.84	467.63
MW-5	07/17/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	495.47	30.54	464.93
MW-5	11/13/2003	60	<0.50	1.5	1.7	9.6	<0.50	<2.0	<2.0	<2.0	<5.0	495.47	33.94	461.53
MW-5	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	495.47	26.59	468.88
MW-5	04/07/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	495.47	25.44	470.03
MW-5	07/21/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	495.47	32.34	463.13
MW-5	11/11/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	495.47	33.24	462.23
MW-5	01/26/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	495.47	26.80	468.67
MW-5	04/13/2005	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	495.47	22.58	472.89
MW-5	10/07/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	495.47	28.78	466.69
MW-5	01/10/2006	NA	495.47	23.70	471.77									
MW-6	09/18/2001	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	NA	NA
MW-6	07/09/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	497.57	35.41	462.16
MW-6	10/25/2002	<50	<0.50	<0.50	<0.50	<0.50	2.5	<2.0	<2.0	<2.0	<50	497.57	37.92	459.65
MW-6	01/24/2003	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	497.57	27.71	469.86
MW-6	04/17/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	497.57	28.28	469.29
MW-6	07/17/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	497.57	30.56	467.01
MW-6	11/13/2003	90	<0.50	2.6	2.4	12	<0.50	<2.0	<2.0	<2.0	<5.0	497.57	34.18	463.39
MW-6	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	497.57	27.16	470.41
MW-6	04/07/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	497.57	25.88	471.69
MW-6	07/21/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	497.57	32.74	464.83

							MTBE						Depth to	GW
Well ID	Date	TPPH	В	T	E	X	8260	DIPE	ETBE	TAME	TBA	TOC	Water	Elevation
		(ug/L)	(MSL)	(ft.)	(MSL)									
MW-6	11/11/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	497.57	33.75	463.82
MW-6	01/26/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	497.57	26.89	470.68
MW-6	04/13/2005	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	497.57	23.05	474.52
MW-6	10/07/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	497.57	28.12	469.45
MW-6	01/10/2006	NA	497.57	25.84	471.73									
MW-7	09/18/2001	NA	<0.50	<0.50	<0.50	<0.50	1.2	<2.0	<2.0	<2.0	<50	NA	NA	NA
MW-7	07/09/2002	<50	<0.50	<0.50	<0.50	<0.50	2.0	<2.0	<2.0	<2.0	<50	495.58	34.29	461.29
MW-7	10/25/2002	<50	<0.50	<0.50	<0.50	<0.50	1.9	<2.0	<2.0	<2.0	<50	495.58	36.80	458.78
MW-7	01/24/2003	<50	<0.50	<0.50	<0.50	<0.50	0.89	<2.0	<2.0	<2.0	<50	495.58	26.75	468.83
MW-7	04/17/2003	<50	<0.50	<0.50	<0.50	<1.0	4.0	<2.0	<2.0	<2.0	<5.0	495.58	27.31	468.27
MW-7	07/17/2003	<50	<0.50	<0.50	<0.50	<1.0	3.2	<2.0	<2.0	<2.0	<5.0	495.58	30.02	465.56
MW-7	11/13/2003	72	<0.50	0.62	0.57	3.2	1.4	<2.0	<2.0	<2.0	<5.0	495.58	33.85	461.73
MW-7	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	0.85	NA	NA	NA	NA	495.58	27.13	468.45
MW-7	04/07/2004	<50	<0.50	<0.50	<0.50	<1.0	0.71	NA	NA	NA	NA	495.58	25.13	470.45
MW-7	07/21/2004	<50	<0.50	<0.50	<0.50	<1.0	1.8	NA	NA	NA	NA	495.58	31.68	463.90
MW-7	11/11/2004	75	<0.50	<0.50	<0.50	<1.0	2.2	<2.0	<2.0	<2.0	<5.0	495.58	32.92	462.66
MW-7	01/26/2005	<50	<0.50	<0.50	<0.50	<1.0	1.8	<2.0	<2.0	<2.0	<5.0	495.58	26.60	468.98
MW-7	04/13/2005	<50	<0.50	<0.50	<0.50	<0.50	0.87	<0.50	<0.50	<0.50	<5.0	495.58	23.25	472.33
MW-7	10/07/2005	77	<0.50	<0.50	<0.50	<1.0	0.70	<2.0	<2.0	<2.0	<5.0	495.58	27.76	467.82
MW-7	01/10/2006	NA	495.58	22.78	472.80									
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MW-8	09/18/2001	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	NA	NA
MW-8	07/09/2002	<50	<0.50	<0.50	<0.50	<0.50	6.9	<2.0	<2.0	<2.0	<50	494.90	34.46	460.44
MW-8	10/25/2002	140	<0.50	<0.50	<0.50	<0.50	2.2	3.3	<2.0	<2.0	<50	494.90	36.98	457.92
MW-8	01/24/2003	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	494.90	27.35	467.55

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-8	04/17/2003	<50	<0.50	<0.50	<0.50	<1.0	0.67	<2.0	<2.0	<2.0	<5.0	494.90	27.44	467.46
MW-8	07/17/2003	<50	<0.50	<0.50	<0.50	<1.0	0.50	<2.0	<2.0	<2.0	<5.0	494.90	32.29	462.61
MW-8	11/13/2003	260	1.5	2.3	2.9	16	1.4	<2.0	<2.0	<2.0	<5.0	494.90	33.08	461.82
MW-8	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	0.92	NA	NA	NA	NA	494.90	26.18	468.72
MW-8	04/07/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	494.90	25.10	469.80
MW-8	07/21/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	494.90	31.97	462.93
MW-8	11/11/2004	<50	<0.50	<0.50	<0.50	<1.0	0.82	<2.0	<2.0	<2.0	<5.0	494.90	32.80	462.10
MW-8	01/26/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	494.90	26.00	468.90
MW-8	04/13/2005	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	494.90	22.81	472.09
MW-8	10/07/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	494.90	29.05	465.85
MW-8	01/10/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	494.90	22.61	472.29
MW-9	09/19/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.89	NA
MW-9	09/23/2005	290	53	2.7	7.8	34	12	<2.0	<2.0	<2.0	14	NA	27.95	NA
MW-9	10/07/2005	400	42	1.2	3.7	22	12	<2.0	<2.0	<2.0	9.4	494.77	28.13	466.64
MW-9	01/10/2006	770	68	7.7	3.4	24	5.9	<0.50	<0.50	<0.50	<20	494.77	22.44	472.33

							MTBE						Depth to	GW
Well ID	Date	TPPH	В	Т	E	X	8260	DIPE	ETBE	TAME	TBA	TOC	Water	Elevation
		(ug/L)	(MSL)	(ft.)	(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, 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.



24 January, 2006

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

RE: 318 S. Livermore Ave., Livermore

Work Order: MPA0485

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

Grever aller





Blaine Tech Services - San Jose (Shell) 1680 Rogers Avenue San Jose CA, 95112 Project:318 S. Livermore Ave., Livermore Project Number:060110-MT3 Project Manager:Michael Ninokata MPA0485 **Reported:** 01/24/06 17:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-9	MPA0485-01	Water	01/10/06 16:03	01/11/06 14:35





Blaine Tech Services - San Jose (Shell)
Project:318 S. Livermore Ave., Livermore
MPA0485
1680 Rogers Avenue
Project Number:060110-MT3
Reported:
San Jose CA, 95112
Project Manager:Michael Ninokata
01/24/06 17:09

Total Metals by EPA 6000/7000 Series Methods Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (MPA0485-01) Water	Sampled: 01/10/06 16:03	Received:	01/11/0	6 14:35					



Blaine Tech Services - San Jose (Shell)
Project:318 S. Livermore Ave., Livermore
MPA0485
1680 Rogers Avenue
Project Number:060110-MT3
Reported:
San Jose CA, 95112
Project Manager:Michael Ninokata
01/24/06 17:09

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

Analyte	Re Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-9 (MPA0485-01RE1) Water Sai	mpled: 01/10/06 16:03	Recei	ved: 01/	11/06 14:35	5				
Gasoline Range Organics (C4-C12)	770	50	ug/l	1	6A23034	01/23/06	01/24/06	EPA 8260B	
Benzene	68	0.50	"	"	"	"	"	"	
Toluene	7.7	0.50	"	"	"	"	"	"	
Ethylbenzene	3.4	0.50	"	"	"	"	"	"	
Xylenes (total)	24	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	5.9	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	20	"	"	"	"	"	"	
1,2-Dichloroethane	2.0	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		84 %	60-	-135	"	"	"	"	

RPD



Blaine Tech Services - San Jose (Shell)	Project:318 S. Livermore Ave., Livermore	MPA0485
1680 Rogers Avenue	Project Number:060110-MT3	Reported:
San Jose CA, 95112	Project Manager: Michael Ninokata	01/24/06 17:09

Total Metals by EPA 6000/7000 Series Methods - Quality Control Sequoia Analytical - Morgan Hill

Spike

Source

%REC

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6A16026 - EPA 3005A / EPA	6010B									
Blank (6A16026-BLK1)				Prepared	& Analyz	ed: 01/16/	06			
Lead	ND	0.10	mg/l							
Laboratory Control Sample (6A16026-B	S1)			Prepared: 01/16/06 Analyzed: 01/17/06						
Lead	0.872	0.10	mg/l	1.00		87	85-120			
Matrix Spike (6A16026-MS1)	Source: MP	A0163-01		Prepared	& Analyze	ed: 01/16/	06			
Lead	0.856	0.10	mg/l	1.00	ND	86	85-120			
Matrix Spike Dup (6A16026-MSD1)	Matrix Spike Dup (6A16026-MSD1) Source: MPA0163-01									
Lead	0.836	0.10	mg/l	1.00	ND	84	85-120	2	15	QM02



Blaine Tech Services - San Jose (Shell)
Project:318 S. Livermore Ave., Livermore
1680 Rogers Avenue
Project Number:060110-MT3
Reported:
San Jose CA, 95112
Project Manager:Michael Ninokata
01/24/06 17:09

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6A23034 - EPA 5030B F	P/T / EPA 8260B									

Blank (6A23034-BLK1)				Prepared: 01/23/	/06 Analyzed	d: 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 & Ana	lyzed: 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	6.00						
Zuryreenzene	6.90	0.50	"	7.28	95	75-135	
Xylenes (total)	6.90 40.8	0.50 0.50	"	7.28 40.8	95 100	75-135 85-125	
•							
Xylenes (total)	40.8	0.50	"	40.8	100	85-125	
Xylenes (total) Methyl tert-butyl ether	40.8 7.62	0.50 0.50	"	40.8 7.84	100 97	85-125 65-125	
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether	40.8 7.62 14.2	0.50 0.50 0.50	"	40.8 7.84 16.2	100 97 88	85-125 65-125 75-125	
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether	40.8 7.62 14.2 15.5	0.50 0.50 0.50 0.50	" " "	40.8 7.84 16.2 16.4	100 97 88 95	85-125 65-125 75-125 75-130	
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether	40.8 7.62 14.2 15.5 16.3	0.50 0.50 0.50 0.50 0.50	" " "	40.8 7.84 16.2 16.4 16.3	100 97 88 95 100	85-125 65-125 75-125 75-130 80-115	QC02
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol	40.8 7.62 14.2 15.5 16.3 150	0.50 0.50 0.50 0.50 0.50 0.50	" " " " " " " " " " " " " " " " " " " "	40.8 7.84 16.2 16.4 16.3	100 97 88 95 100 89	85-125 65-125 75-125 75-130 80-115 75-150	QC02
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane	40.8 7.62 14.2 15.5 16.3 150 15.2	0.50 0.50 0.50 0.50 0.50 0.50 5.0	"" "" "" "" "" "" "" "" "" "" "" "" ""	40.8 7.84 16.2 16.4 16.3 169 18.7	100 97 88 95 100 89	85-125 65-125 75-125 75-130 80-115 75-150 85-130	QC02



Blaine Tech Services - San Jose (Shell)
Project:318 S. Livermore Ave., Livermore
MPA0485
1680 Rogers Avenue
Project Number:060110-MT3
Reported:
San Jose CA, 95112
Project Manager:Michael Ninokata
01/24/06 17:09

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										
G 11 D 0 1 (G1 G12)		=0		4.40		4.45	60 110		2.5	

Laboratory Control Sample Dup (6A23	034-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					





Blaine Tech Services - San Jose (Shell)	Project:318 S. Livermore Ave., Livermore	MPA0485
1680 Rogers Avenue	Project Number:060110-MT3	Reported:
San Jose CA, 95112	Project Manager:Michael Ninokata	01/24/06 17:09

Notes and Definitions

QM02 The spike recovery was below control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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

dentification (if necessary): A - Irvine, California	<u> </u>									<u> </u>	la II		<i>J</i>] (ս —	510	ody	Ke	cor	a			*
4 - Morgan Hill, California	Shell P	Project Man	ager to	be i	iovr	ed:										INCIDE	NT NU	MBER (ES ON	ILY)		
A - Morgan Hill, California A - Nashville, Tennessee	1 ENVI	RONMENTAL SERV	VICES:	D.	enis	Pr.		1								T		1	****	***********	<u> </u>	1/1/2
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NG COMPANY:	LOG CODE:			SIT	E ADD	ESS. S	Street a	nd City	,						State		G	BAL ID NO				
ne Tech Services	BTSS			31	8 S.	Lix	/ern	nore	ο Δι	/A	Live	2Fm	oro		CA		- 1			40		
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573-0555 408-573-7771	mninokata	a@blainetech.	<u>com</u>	1 4	U,		5/1	<i>5//</i>													عمدين	en infalmet kommunen eta zenetzinea presiden
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RF	CEIPT VERIFIC	CATION REQUES	TING I	Gas,	Diesel, I	BTEX (8260B)	5 Oxygenates ((MTBE, TBA, DIP	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (504.1)	Ethanol (8260B)	Methanol (8015M)	Total Lead (6010B)		-			
Field Sample Identification	SAMPLI	NG	NO OF	ქ 🖁	1 :	×	Ž,Ž	三 (8)	82	89) (E)	E (8	ğ	9	loi I	ano	ě			1		
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SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: REC. BY (PRINT) WORKORDER:	Shell / Blain E. Fallin MPA 6489			DATE REC'D AT LAB TIME REC'D AT LAB: DATE LOGGED IN:	1432)))-04			DRINKING	Nater Yes/100
151 P	OPRIATE RESPONSE	LAB SAMPLE#	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERV ATIVE	pН	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
Custody Seal(s)	Present / Absent			-				WATRIX	SAMPLED	OONDITION (ETC.)
	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						<i>i</i> O			
0.0 (0)	on Chain-of-Custody						z (77)			
8. Sample Condition:	Intaot / Broken* /					50				
0.0	Leaking*					ر ما				
9. Does information or) /	-			
traffic reports and s	<u>}</u>									
agree?	Yes / No*							-	·	
10. Sample received with										
hold time?	Yes / No*				3/	_				
 Adequate sample volution received? 	,									· · · · · · · · · · · · · · · · · · ·
	Yes / No*							_		
12. Proper preservatives					<u> </u>					
13. Trip Blank / Temp Bla	<u> </u>			/						
(circle which, if yes) 14. Read Temp:	Yes/10(0)			·/						
Corrected Temp:	2.5 .								_	
Is corrected temp 4 +			/							
		/							_	
(Acceptance range for samples * **Exception (if any): MET	requiring thermal pres.)	_/_								
or Problem COC	ALO / DEL ONIOR	\leftarrow			<u></u>					
OLI TONIEIII COC										
` Revision 7		*IF CIRCI	LED, C	ONTACT PROJECT MA	NAGER AND	ATTACH R	ECORD	OF RESC)I IITION	

` Revision 7 `9s Rev 5 (07/13/04) 97/19/05

WELLHEAD INSPECTION CHECKLIST

Page __/_ of __/_

Date	0106-MT3	Client	974	16470	19			
	318 5 21							
	060110-M			Тес	chnician	MT1.	17	
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-S.	7,			***************************************	· · · · · · · · · · · · · · · · · · ·		Delow	Delowi
MW-6								
MW-7								
MW-7 MW-8 MW-9						,···-		
MW-9	V							
								
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WELL GAUGING DATA

Project #	06011	U-MT3	_ Date _	01/10/06	Client _	97464709
Site 37	v 5	Linguage	ρ Λ.	۵		

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)		Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or FOC	
MW-5	2					23.70	55.00		
MW-6 MW-7 MW-8 MW-8	2				THE PERSON NAMED IN COLUMN TO THE PE	26.84	55.00 53.38		
MW-7	2					22.78	50.90 50.95 31.55		
MW-8	2					22.61	50.95		
MW9	4				To and the same of	22.44	31.55	V	
					THE STATE OF THE S	*		and it is a supplied to the su	na er er er er er er er er er er er er er
					A state in the sta				
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Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

SHELL WELL MONITORING DATA SHEET

BTS #: 01	0110-5	173		Site:	9746	4709		
Sampler: _				Date:	•	0106		
Well I.D.:	,			Well I)iameter:	: 2 3	P 6	8
Total Well): 3/.:	55	Depth	to Water	r (DTW): 2	214	
Depth to Fi				Thickr	ness of F	ree Product	(feet):	
Referenced	to:	PVC	> Grade	D.O. N	Aeter (if	req'd):	YSI	НАСН
DTW with	80% Recha	arge [(H	leight of Water	Colum	n x 0.20)) + DTW]:	24.	26
Purge Method:	Bailer Disposable B Positive Air I Electric Subn (Gals.) X Speci	Displaceme	Other	Waterra Peristaltic tion Pump Gals. Olume	;	0.04 0.16	hod: ther: Well Diamet 4" 6" Other	Disposable Bailer Extraction Port Dedicated Tubing er Multiplier. 0.65 1.47 radius² * 0.163
			Cond.	1	bidity			
Time	Temp (°F)	pН	(mS or µS)	(N	TUs)	Gals. Remov	/ed	Observations
1555	67.6	7.0	779	r./C)	6.0		dody
1556	68.1	7.0	9W	7/0	00	12.0		
1557	67.8	7,2	950	> 6	OD	18.0		//
			-					
Did well de	ewater?	Yes	No.	Gallon	s actuall	l y evacuated	: 13.0	
Sampling I	Date: (1//0/	106	Sampling Tim	e: 160) 3	Depth to W	ater:	
Sample I.D	:: MW-9			Labora	atory:	STL Other	1A	
Analyzed f	or: (PH-G	BTEX)	МТВЕ ТРН-D	Other:	Oxys, 1	20ch, 200	>	
EB I.D. (if	applicable)): 	@ Time	Duplic	ate I.D.	(if applicabl	e):	
Analyzed f	or: TPH-G	BTEX	MTBE TPH-D	Other:	_	•		
D.O. (if rec	ı'd): P1	e-purge:		mg/I	P	ost-purge:		^{mg} /L
O.R.P. (if r	eq'd): Pi	e-purge:		mV	P	ost-purge:		mV

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558