



ENVIRONMENTAL MANAGEMENT, INC.

RECEIVED

MAY 08 2003

FIRE PREVENTION

May 2, 2002
KHM Project C81-1155 Portola
Ms. Danielle Stefani
Hazardous Materials Coordinator
Livermore-Pleasanton Fire Department
3560 Nevada Street
Pleasanton, CA 94566

Re: SHELL GRASP FIRST QUARTER 2003 MONITORING REPORT
Shell Service Station
1155 Portola Avenue
Livermore, California

Dear Ms. Stefani:

KHM Environmental Management, Inc. (KHM) on behalf of Equilon Enterprises LLC dba Shell Oil Products US (SHELL) has prepared the first quarter 2003 *Shell GRASP Monitoring Report* for the above referenced site.

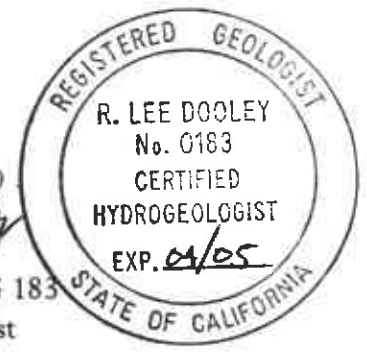
GRASP (GRoundwater ASsessment Program) is a voluntary initiative by SHELL to install groundwater monitoring wells at numerous retail service stations nationwide that do not have any active release cases but have been identified to be in close proximity to one or more public water supply wells. The purpose of this program is to proactively monitor the groundwater beneath these sites and, in the event of a subsurface release, to respond quickly to protect public wells from this impact.

An Unauthorized Release Report was previously submitted for this site in January 2003. If you have any questions regarding this site, please contact Lee Dooley (KHM) at (408) 224-4724, or Mr. Lynn Walker (SHELL GRASP Northern California Coordinator) at (925) 706-1559.

Sincerely,
KHM Environmental Management, Inc.

Debbie Arnold
Project Geologist

R. Lee Dooley, CHG 183
Senior Hydrogeologist





ENVIRONMENTAL MANAGEMENT, INC.

PS

RECEIVED

MAY 08 2003

Letter of Transmittal

To: Hazardous Materials Coordinator Date: 5/6/2003
 Livermore-Pleasanton Fire Department
 3560 Nevada Street Job No: C81-1155 Portola
 Pleasanton, CA 94566 C81-1801 Santa Rita

Attn: Ms. Danielle Stefani

Re:

We are sending the following items:

Date	Copies	Description
5/2/2003	1 each	Shell GRASP First Quarter 2003 Monitoring Report for: 1155 Portola Ave, Livermore 1801 Santa Rita Rd, Pleasanton
	2 total reports	

These are transmitted:

- For your Information
 For action specified below
 For review and comment
 For your use
 As requested

Remarks

Copies to: _____ By: Debbie Arnold

_____ Title: Project Geologist

The information contained in this transmission is confidential and only intended for the addressee. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution or action taken in reliance on the contents of this facsimile transmittal is strictly prohibited. If you have received this facsimile in error, please call us immediately to arrange for the return of these documents.

6284 SAN IGNACIO AVENUE, SUITE E • SAN JOSE, CALIFORNIA • 95119 • PHONE: (408) 224-4724 • FAX: (408) 224-4518

REDMOND, WASHINGTON • PORTLAND, OREGON • CROCKETT, CALIFORNIA • MONROVIA, CALIFORNIA
 (425) 558-0134 (503) 233-4068 (510) 787-6756 (626) 256-6662

Attachments: Shell GRASP Monitoring Report

cc: Isabel Mejia, Shell Oil Products US, P.O. Box 7869, Burbank, 91510-7869
Lynn Walker, Shell Oil Products US (PDF by email)
Karen Petryna, Shell Oil Products US (PDF by email)
Chuck Headlee, Regional Water Quality Control Board, San Francisco Bay Region
KHM GRASP file

May 2, 2003

SHELL GRASP MONITORING REPORT

Station Address.: 1155 Portola Avenue
Pleasanton, CA 94550

SHELL GRASP Incident No. 97401517

KHM Project No. C81-1155 Portola

SHELL Environmental Engin./Phone No.: Lynn Walker (925) 706-1559

KHM Project Manager/Phone No.: Lee Dooley / (408) 224-4724

Current Phase of Project: GRASP Groundwater monitoring

Frequency of Sampling: Quarterly

Frequency of Monitoring: Quarterly

Is Separate Phase Hydrocarbon Present On-site (Well #'s): Yes No

Cumulative SPH Recovered to Date : None

SPH Recovered This Quarter : None

Water Wells or Surface Waters within 2000 ft. Radius and Their Respective Directions: Nearest production well, Well 03S/02E-08F01 M, Calif. Water Service Well 10-01, is approximately 1,700 feet southeast of site.

Approximate Depth to Groundwater: 37 ft

Groundwater Gradient Southwest @ approximately 0.008 ft/ft

Summary of Unusual Activity: TPH-d detected in Well MW-3 at 56 ug/l for the first time. Groundwater gradient is variable. (4Q02 - west at 0.075 ft/ft).

Lee Dooley
Project Manager (KHM)

ATTACHED:

- Table 1 – Summary of Groundwater Data
- Figure 1 – Site Location Map
- Figure 2 – Groundwater Elevation Contour Map
- Figure 3 – TPH-G, Benzene, MTBE Concentrations Map
- Appendix A – Blaine Tech Services, Groundwater Monitoring and Sampling Report, May 1, 2003

Table 1
Summary of Groundwater Data
 Shell Service Station
 1155 Portola Avenue
 Livermore, California

Well Designation	Date Sampled	TPH-g (ug/l)	TPH-d (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylene (ug/l)	MTBE (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)	TOC (MSL)	Depth to Water (ft.)	GW Elev. (MSL)
MW-1	12/20/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	78	<2.0	<2.0	<2.0	<50	443.81	38.40	405.41
	3/28/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	7.0	<2.0	<2.0	<2.0	<5.0	443.81	38.25	407.56
MW-2	12/20/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	190	<2.0	<2.0	<2.0	<50	444.61	40.00	404.61
	3/28/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	46	<2.0	<2.0	<2.0	<5.0	444.61	37.40	407.21
MW-3	12/20/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	8.7	<2.0	<2.0	<2.0	<50	443.84	36.00	407.84
	3/28/2003	<50	56	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	443.84	36.47	407.37
MW-4	12/20/2002	<50	61	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	444.18	40.61	403.57
	3/28/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	444.18	37.16	407.02

Notes:

All analysis performed by EPA Method 8260B, except Diesel by EPA Method 8015m

ug/l = micrograms per liter

TPH-g = Total petroleum hydrocarbons as gasoline

TPH-d = Total petroleum hydrocarbons as diesel

MTBE = Methyl tert-butyl ether

DIPE = Diisopropyl ether

ETBE = Ethyl-t-butyl ether

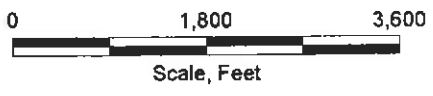
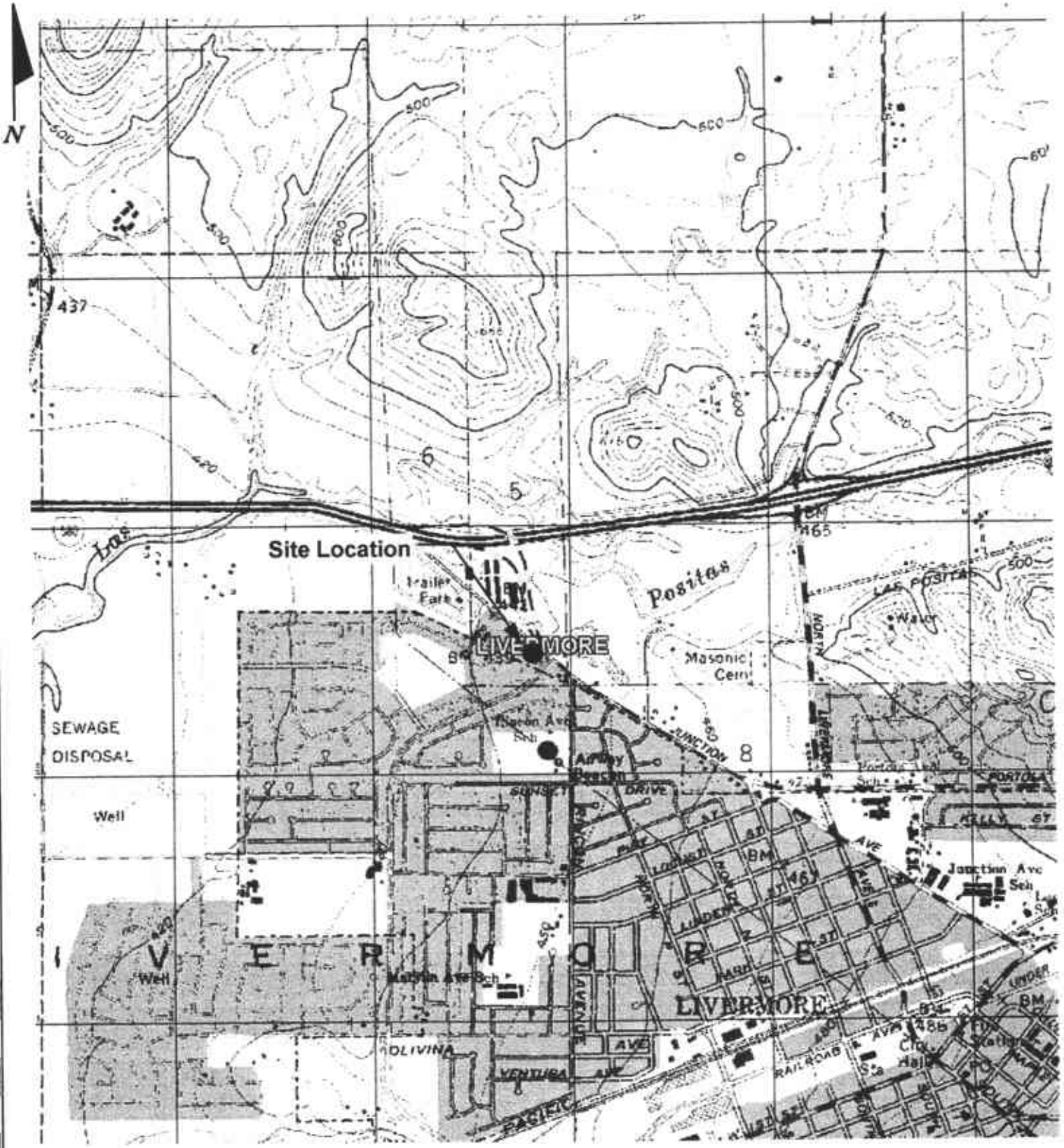
TAME = Tert-amyl methyl ether

TBA = Tert-Butanol

TOC = Top of Well Casing

NM = Not measured

NA = Not analyzed



KHM
ENVIRONMENTAL
MANAGEMENT,
INC.

SITE LOCATION MAP

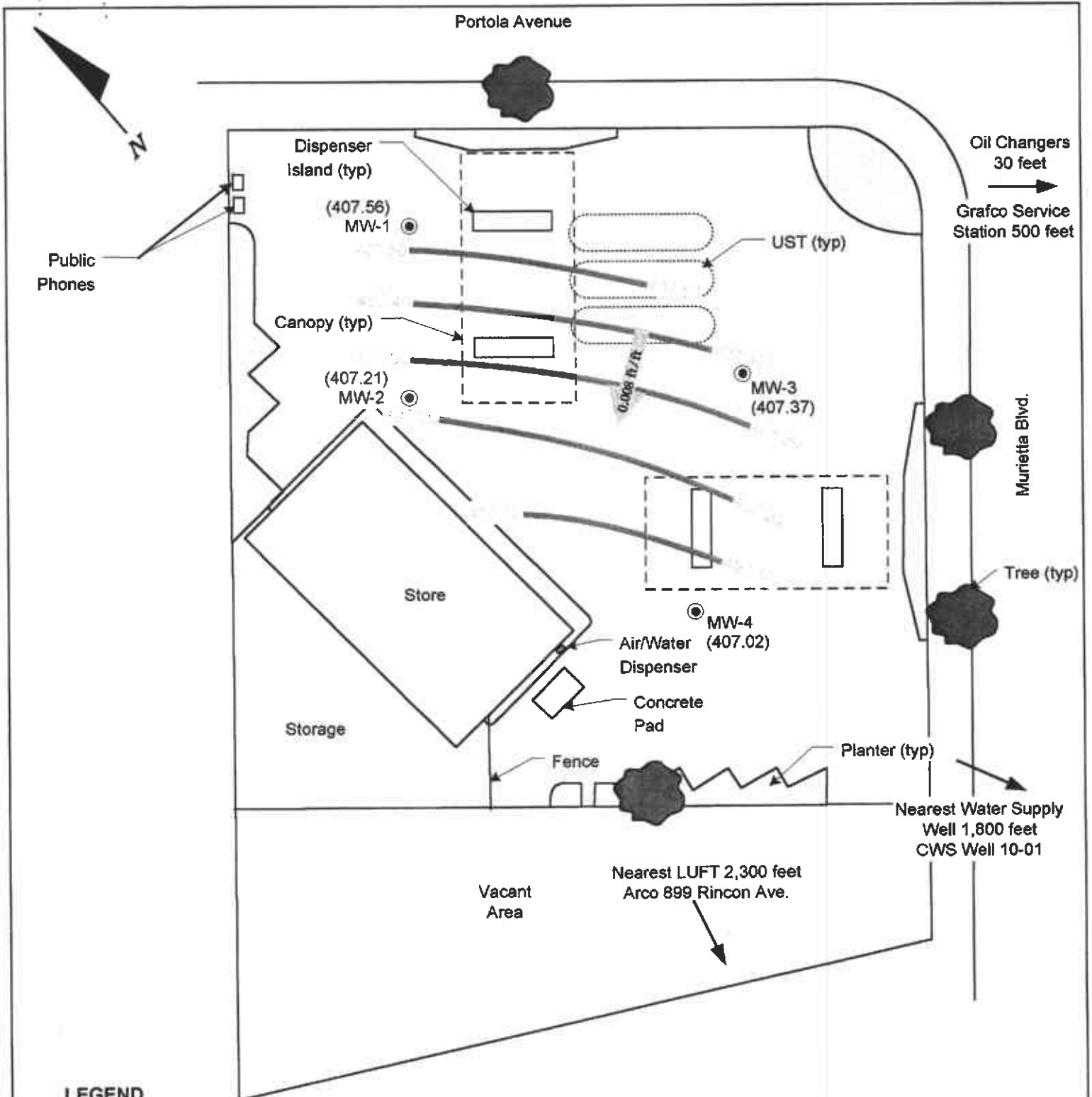
Shell Service Station
1155 Portola Avenue
Livermore, California

Map Source: DeLorme, Yarmouth, ME 04096,
USGA Topo Map

DATE 5/02/03

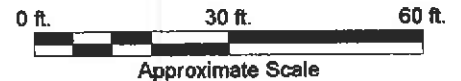
PROJECT C81-1155 Portola

FIGURE 1



LEGEND

- MW-4 ● **GROUNDWATER MONITORING WELL**
- (407.56) **GROUNDWATER ELEVATION (FEET - MSL), 3/28/03**
- **GROUNDWATER ELEVATION CONTOUR**
- 0.008 ft/ft **APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**



KHM
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 MANAGEMENT,
 INC.

**GROUNDWATER ELEVATION CONTOUR
 MAP, MARCH 28, 2003**

Shell-branded Service Station
 1155 Portola Avenue
 Livermore, California

DATE	PROJECT	FIGURE
5/02/03	C81-1155 Portola	2

Portola Avenue



Public Phones

Dispenser Island (typ)

MW-1
ND/ND/7.0

Canopy (typ)

MW-2
ND/ND/46

UST (typ)

MW-3
ND/ND/ND

Oil Changers
30 feet
Grafco Service
Station 500 feet

Murietta Blvd.

Tree (typ)

Store

MW-4
ND/ND/ND

Air/Water
Dispenser

Storage

Concrete
Pad

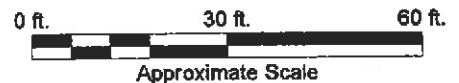
Planter (typ)

Fence

Nearest Water Supply
Well 1,800 feet
CWS Well 10-01

Vacant
Area

Nearest LUFT 2,300 feet
Arco 899 Rincon Ave.



LEGEND

- MW-4 ● **GROUNDWATER MONITORING WELL**
- ND/ND/ND **TPH-G/BENZENE/MTBE CONCENTRATIONS (UG/L), 3/28/03**
- ND **NOT DETECTED AT LABORATORY LIMIT**

KHM
ENVIRONMENTAL
MANAGEMENT,
INC.

**TPH-G, BENZENE, AND MTBE
CONCENTRATIONS MAP, MARCH 28, 2003**

Shell-branded Service Station
1155 Portola Avenue
Livermore, California

DATE 5/02/03

PROJECT C81-1155 Portola

FIGURE 3

APPENDIX A

GROUNDWATER MONITORING AND SAMPLING REPORT

BLAINE
TECH SERVICES, INC.



1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
www.blainetech.com

May 1, 2003

Lynn Walker
Shell Oil Products US
P.O. Box 7869
Burbank, CA 91510-7869

First Quarter 2003 Groundwater Monitoring at
Shell-branded Service Station
1155 Portola Avenue
Livermore, CA

Monitoring performed on March 28, 2003

Groundwater Monitoring Report 030328-BA-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,

Leon Gearhart
Project Coordinator

LG/jt

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

cc: Debbie Arnold
KHM Environmental
6234 San Ignacio Avenue, Suite E
San Jose, CA 95119

WELL CONCENTRATIONS
Shell-branded Service Station
1155 Portola Avenue
Livermore, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	12/05/2002	NA	NA	NA	NA	NA	NA	NA	NA	41.12	NA
MW-1	12/20/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	78	NA	38.40	NA
MW-1	03/28/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	7.0	443.81	36.25	407.56
MW-2	12/05/2002	NA	NA	NA	NA	NA	NA	NA	NA	41.57	NA
MW-2	12/20/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	190	NA	40.00	NA
MW-2	03/28/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	46	444.61	37.40	407.21
MW-3	12/05/2002	NA	NA	NA	NA	NA	NA	NA	NA	40.49	NA
MW-3	12/20/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	8.7	NA	36.00	NA
MW-3	03/28/2003	<50	56	<0.50	<0.50	<0.50	<1.0	<0.50	443.84	36.47	407.37
MW-4	12/05/2002	NA	NA	NA	NA	NA	NA	NA	NA	41.45	NA
MW-4	12/20/2002	<50	61	<0.50	<0.50	<0.50	<0.50	<0.50	NA	40.61	NA
MW-4	03/28/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	444.18	37.16	407.02

WELL CONCENTRATIONS
Shell-branded Service Station
1155 Portola Avenue
Livermore, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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Abbreviations:

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

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.

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

MTBE = Methyl-tertiary-butyl ether

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:

Site surveyed November 25, 2002, by Mid Coast Engineers.

Blaine Tech Services, Inc.

April 10, 2003

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

Project#: 030328-BA1

Project: 97401517

Site: 1155 Portola Ave.
Livermore, CA

Dear Mr. Gearhart,

Attached is our report for your samples received on 03/28/2003 15:29

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 05/12/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,



Tod Granicher
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Diesel (C10-C24) by 8015m

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030328-BA1

97401517

Received: 03/28/2003 15:29

Site: 1155 Portola Ave.

Livermore, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	03/28/2003 08:11	Water	1
MW-2	03/28/2003 08:54	Water	2
MW-3	03/28/2003 08:20	Water	3
MW-4	03/28/2003 09:08	Water	4

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/07/2003 16:36

Diesel (C10-C24) by 8015m

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030328-BA1
97401517

Received: 03/28/2003 15:29

Site: 1155 Portola Ave.
Livermore, CA

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MW-1	Lab ID:	2003-03-0677 - 1
Sampled:	03/28/2003 08:11	Extracted:	4/3/2003 07:53
Matrix:	Water	QC Batch#:	2003/04/03-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/04/2003 17:10	
Surrogates(s) o-Terphenyl	87.2	60-130	%	1.00	04/04/2003 17:10	

Diesel (C10-C24) by 8015m

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030328-BA1
97401517

Received: 03/28/2003 15:29

Site: 1155 Portola Ave.
Livermore, CA

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: MW-2	Lab ID: 2003-03-0677 - 2
Sampled: 03/28/2003 08:54	Extracted: 4/3/2003 07:53
Matrix: Water	QC Batch#: 2003/04/03-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/04/2003 17:47	
Surrogates(s) o-Terphenyl	84.7	60-130	%	1.00	04/04/2003 17:47	

Diesel (C10-C24) by 8015m

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030328-BA1

97401517

Received: 03/28/2003 15:29

Site: 1155 Portola Ave.

Livermore, CA

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MW-3	Lab ID:	2003-03-0677 - 3
Sampled:	03/28/2003 08:20	Extracted:	4/3/2003 07:53
Matrix:	Water	QC Batch#:	2003/04/03-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	56	50	ug/L	1.00	04/04/2003 18:24	ndp
Surrogates(s)						
o-Terphenyl	91.2	60-130	%	1.00	04/04/2003 18:24	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/07/2003 16:36

Diesel (C10-C24) by 8015m

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030328-BA1
97401517

Received: 03/28/2003 15:29

Site: 1155 Portola Ave.
Livermore, CA

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MW-4	Lab ID:	2003-03-0677 - 4
Sampled:	03/28/2003 09:08	Extracted:	4/3/2003 07:53
Matrix:	Water	QC Batch#:	2003/04/03-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/04/2003 19:02	
Surrogates(s) o-Terphenyl	93.2	60-130	%	1.00	04/04/2003 19:02	

Diesel (C10-C24) by 8015m

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030328-BA1
97401517

Received: 03/28/2003 15:29

Site: 1155 Portola Ave.
Livermore, CA

Batch QC Report		
Prep(s): 3510/8015M		Test(s): 8015M
Method Blank	Water	QC Batch # 2003/04/03-02.10
MB: 2003/04/03-02.10-001		Date Extracted: 04/03/2003 07:53

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	04/03/2003 11:58	
Surrogates(s) o-Terphenyl	93.1	60-130	%	04/03/2003 11:58	

Diesel (C10-C24) by 8015m

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030328-BA1
97401517

Received: 03/28/2003 15:29

Site: 1155 Portola Ave.
Livermore, CA

Batch QC Report										
Prep(s): 3510/8015M						Test(s): 8015M				
Laboratory Control Spike			Water			QC Batch # 2003/04/03-02.10				
LCS	2003/04/03-02.10-002		Extracted: 04/03/2003			Analyzed: 04/03/2003 13:12				
LCSD	2003/04/03-02.10-003		Extracted: 04/03/2003			Analyzed: 04/03/2003 13:48				
Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Diesel	948	947	1000	94.8	94.7	0.1	60-130	25		
<i>Surrogates(s)</i> o-Terphenyl	18.9	18.5	20.0	94.4	92.4		60-130	0		

Diesel (C10-C24) by 8015m

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030328-BA1

97401517

Received: 03/28/2003 15:29

Site: 1155 Portola Ave.

Livermore, CA

Legend and Notes

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/07/2003 16:36

Gas/BTEX Fuel Oxygenates by 8260B

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030328-BA1
97401517

Received: 03/28/2003 15:29

Site: 1155 Portola Ave.
Livermore, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	03/28/2003 08:11	Water	1
MW-2	03/28/2003 08:54	Water	2
MW-3	03/28/2003 08:20	Water	3
MW-4	03/28/2003 09:08	Water	4

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566
Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX Fuel Oxygenates by 8260B

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030328-BA1
97401517

Received: 03/28/2003 15:29

Site: 1155 Portola Ave.
Livermore, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-1	Lab ID:	2003-03-0677 - 1
Sampled:	03/28/2003 08:11	Extracted:	4/9/2003 15:36
Matrix:	Water	QC Batch#:	2003/04/09-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/09/2003 15:36	
Benzene	ND	0.50	ug/L	1.00	04/09/2003 15:36	
Toluene	ND	0.50	ug/L	1.00	04/09/2003 15:36	
Ethylbenzene	ND	0.50	ug/L	1.00	04/09/2003 15:36	
Total xylenes	ND	1.0	ug/L	1.00	04/09/2003 15:36	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	04/09/2003 15:36	
Methyl tert-butyl ether (MTBE)	7.0	0.50	ug/L	1.00	04/09/2003 15:36	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	04/09/2003 15:36	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	04/09/2003 15:36	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	04/09/2003 15:36	
Surrogates(s)						
1,2-Dichloroethane-d4	108.1	76-114	%	1.00	04/09/2003 15:36	
Toluene-d8	101.2	88-110	%	1.00	04/09/2003 15:36	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/10/2003 09:59

Gas/BTEX Fuel Oxygenates by 8260B

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030328-BA1
97401517

Received: 03/28/2003 15:29

Site: 1155 Portola Ave.
Livermore, CA

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-2	Lab ID: 2003-03-0677 - 2
Sampled: 03/28/2003 08:54	Extracted: 4/9/2003 15:58
Matrix: Water	QC Batch#: 2003/04/09-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/09/2003 15:58	
Benzene	ND	0.50	ug/L	1.00	04/09/2003 15:58	
Toluene	ND	0.50	ug/L	1.00	04/09/2003 15:58	
Ethylbenzene	ND	0.50	ug/L	1.00	04/09/2003 15:58	
Total xylenes	ND	1.0	ug/L	1.00	04/09/2003 15:58	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	04/09/2003 15:58	
Methyl tert-butyl ether (MTBE)	46	0.50	ug/L	1.00	04/09/2003 15:58	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	04/09/2003 15:58	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	04/09/2003 15:58	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	04/09/2003 15:58	
Surrogates(s)						
1,2-Dichloroethane-d4	99.5	76-114	%	1.00	04/09/2003 15:58	
Toluene-d8	97.5	88-110	%	1.00	04/09/2003 15:58	

Gas/BTEX Fuel Oxygenates by 8260B

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030328-BA1
97401517

Received: 03/28/2003 15:29

Site: 1155 Portola Ave.
Livermore, CA

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-3	Lab ID: 2003-03-0677 - 3
Sampled: 03/28/2003 08:20	Extracted: 4/9/2003 16:20
Matrix: Water	QC Batch#: 2003/04/09-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/09/2003 16:20	
Benzene	ND	0.50	ug/L	1.00	04/09/2003 16:20	
Toluene	ND	0.50	ug/L	1.00	04/09/2003 16:20	
Ethylbenzene	ND	0.50	ug/L	1.00	04/09/2003 16:20	
Total xylenes	ND	1.0	ug/L	1.00	04/09/2003 16:20	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	04/09/2003 16:20	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	04/09/2003 16:20	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	04/09/2003 16:20	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	04/09/2003 16:20	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	04/09/2003 16:20	
Surrogates(s)						
1,2-Dichloroethane-d4	102.6	76-114	%	1.00	04/09/2003 16:20	
Toluene-d8	97.3	88-110	%	1.00	04/09/2003 16:20	

Severn Trent Laboratories, Inc.

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04/10/2003 09:59

Gas/BTEX Fuel Oxygenates by 8260B

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030328-BA1

97401517

Received: 03/28/2003 15:29

Site: 1155 Portola Ave.

Livermore, CA

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-4	Lab ID: 2003-03-0677 - 4
Sampled: 03/28/2003 09:08	Extracted: 4/9/2003 16:42
Matrix: Water	QC Batch#: 2003/04/09-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/09/2003 16:42	
Benzene	ND	0.50	ug/L	1.00	04/09/2003 16:42	
Toluene	ND	0.50	ug/L	1.00	04/09/2003 16:42	
Ethylbenzene	ND	0.50	ug/L	1.00	04/09/2003 16:42	
Total xylenes	ND	1.0	ug/L	1.00	04/09/2003 16:42	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	04/09/2003 16:42	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	04/09/2003 16:42	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	04/09/2003 16:42	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	04/09/2003 16:42	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	04/09/2003 16:42	
Surrogates(s)						
1,2-Dichloroethane-d4	104.3	76-114	%	1.00	04/09/2003 16:42	
Toluene-d8	98.2	88-110	%	1.00	04/09/2003 16:42	

Severn Trent Laboratories, Inc.

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04/10/2003 09:59

Gas/BTEX Fuel Oxygenates by 8260B

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030328-BA1
97401517

Received: 03/28/2003 15:29

Site: 1155 Portola Ave.
Livermore, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260FAB
Method Blank		Soil	QC Batch # 2003/04/09-02.62
MB: 2003/04/09-02.62-040			Date Extracted: 04/09/2003 12:40

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	04/09/2003 12:40	
Gasoline	ND	1000	ug/Kg	04/09/2003 12:40	
Benzene	ND	5.0	ug/Kg	04/09/2003 12:40	
Toluene	ND	5.0	ug/Kg	04/09/2003 12:40	
Ethyl benzene	ND	5.0	ug/Kg	04/09/2003 12:40	
Total xylenes	ND	5.0	ug/Kg	04/09/2003 12:40	
tert-Butyl alcohol (TBA)	ND	5.0	ug/Kg	04/09/2003 12:40	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	04/09/2003 12:40	
Di-isopropyl Ether (DIPE)	ND	10.0	ug/Kg	04/09/2003 12:40	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	04/09/2003 12:40	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	04/09/2003 12:40	
Surrogates(s)					
1,2-Dichloroethane-d4	102.8	70-121	%	04/09/2003 12:40	
Toluene-d8	99.5	81-117	%	04/09/2003 12:40	

Gas/BTEX Fuel Oxygenates by 8260B

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030328-BA1
97401517

Received: 03/28/2003 15:29

Site: 1155 Portola Ave.
Livermore, CA

Batch QC Report										
Prep(s): 5030B					Test(s): 8260FAB					
Laboratory Control Spike			Soil			QC Batch # 2003/04/09-02.62				
LCS	2003/04/09-02.62-056		Extracted: 04/09/2003			Analyzed: 04/09/2003 11:56				
LCSD	2003/04/09-02.62-018		Extracted: 04/09/2003			Analyzed: 04/09/2003 12:18				
Compound	Conc. ug/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	49.9	50.6	50.0	99.8	101.2	1.4	69-129	20		
Toluene	49.1	50.1	50.0	98.2	100.2	2.0	70-130	20		
Methyl tert-butyl ether (MTBE)	56.8	55.8	50.0	113.6	111.6	1.8	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	495	505	500	99.0	101.0		70-121			
Toluene-d8	482	487	500	96.4	97.4		81-117			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566
Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/10/2003 09:59

LAB: STL SAN FRANCISCO

SHELL Chain Of Custody Record

73014

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Lynn Walker

INCIDENT NUMBER (S&E ONLY)

9 7 4 0 1 5 1 7

SAP or CRMT NUMBER (YS/CRMT)

DATE: 3/28/03

PAGE: 1 of 1

2003-03-0677

SAMPLING COMPANY: Blaino Tech Services ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112 PROJECT CONTACT (Typeology or RPT Report to): Leon Gearhart TELEPHONE: 408-573-0555 FAX: 408-573-7771 EMAIL: gearhart@blainetech.com	UST CODE: BTSS	SITE ADDRESS (Street and City): 1155 Portola Ave., Livermore RPT DELIVERABLE TO (Responsible Party or Designer): Debbie Arnold CARRIER NAME (if any): BRIAN ALCORN	USTAL ID NO: pending	PHONE NO: (408)224-4724	EMAIL: darnold@khmt.com	CONSULTANT PROJECT NO: 030328-BA BTS #
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TURNAROUND TIME (BUSINESS DAYS):
 30 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - RWQCB REPORT FORMAT UST AGENCY:

GCMS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	DATE	TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - Spill RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (9) by (8260B)	TPH - Diesel	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes <u>3.8°C</u>
	MW-1	3/29/03	11	W	5	X	X			X	X	
	MW-2	1	0824	1	1	X	X			X	X	
	MW-3	1	0820	1	1	X	X			X	X	
	MW-4	2	0908	7	7	X	X			X	X	

Requisitioned by: (Signature) 	Received by: (Signature) 	Date: <u>3/28/03</u>	Time: <u>1529</u>
Requisitioned by: (Signature) 	Received by: (Signature) 	Date: <u>3-28-03</u>	Time: <u>1823</u>

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

12/16/00 Revision

D&G Graphics: (714) 998-8702

STL San Francisco

Sample Receipt Checklist

Submission #: 2003-03-0677

Checklist completed by (Initials) DSH Date: 03/31/03

Courier name: [X] STL San Francisco [] Client

Custody seals intact on shipping container/samples Yes No Not Present [X]

Chain of custody present? Yes [X] No

Chain of custody signed when relinquished and received? Yes [X] No

Chain of custody agrees with sample labels? Yes [X] No

Samples in proper container/bottle? Yes [X] No

Sample containers intact? Yes [X] No

Sufficient sample volume for indicated test? Yes [X] No

All samples received within holding time? Yes [X] No

Container/Temp Blank temperature in compliance (4°C ± 2)? Temp: 3.8°C Yes [X] No

Water - VOA vials have zero headspace? No VOA vials submitted Yes [X] No

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small - O), M (medium - O) or L (large - O))

Water - pH acceptable upon receipt? [X] Yes [] No checked all ambers NK 3/28/03

[] pH adjusted - Preservative used: [] HNO3 [] HCl [] H2SO4 [] NaOH [] ZnOAc

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (Initials) Date: / / 03

Client contacted: [] Yes [] No

Summary of discussion:

Corrective Action (per PM/Client):

WELLHEAD INSPECTION CHECKLIST

Page 1 of 1

Client SHGL Date 3/28/03

Site Address 1155 PORTOLA AVE, LIVERMORE

Job Number 030328-BA1 Technician BRIAN ALCOEN

Well ID	Well Inspected - No Corrective Action Required	Water Balled 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							
MW-2	X							
MW-3	X							
MW-4	X							

NOTES: _____

WELL GAUGING DATA

Project # 030325-BA1 Date 3/28/03 Client SHELL

Site 1155 PORTOLA AVE

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	pressure - allowed to stabilize				36.25	59.00	TOB
MW-2	2	pressure - allowed to stabilize				37.40	59.10	↓
MW-3	2					36.47	59.60	
MW-4	2	pressure - allowed to stabilize				37.16	59.20	

SHELL WELL MONITORING DATA SHEET

BTS #: <u>030328-BA1</u>	Site: <u>1155 PORTOLA AVE, LIVERMORE</u>
Sampler: <u>Brian Alcorn</u>	Date: <u>3/28/03</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth (TD): <u>59.00</u>	Depth to Water (DTW): <u>36.25</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer Disposable Bailer Middleburg Electric Submersible	Water: Peristaltic Extraction Pump Other:	Sampling Method: <u>(Bailer)</u> Disposable Bailer Extraction Port Dedicated Tubing Other:
---	---	--

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

(Gals.) X No Purge = _____ Gals.
 Case Volume Specified Volume Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or <u>(µS)</u>)	Turbidity (NTUs)	Gals. Removed	Observations
<u>0847</u>	<u>66.4</u>	<u>7.0</u>	<u>936</u>	<u>>1,000</u>	<u>—</u>	<u>very cloudy brown</u>

Did well dewater? Yes No Gallons actually evacuated: —

Sampling Date: 3/28/03 Sampling Time: 0841 Depth to Water: 36.25

Sample I.D.: MW-1 Laboratory: KIT SPL Other: STL SAN FRANCISCO

Analyzed for: TPH-G BTEX MTBE TPH-D Other: ORYS

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: <u>030328-BA1</u>	Site: <u>1155 PORTOLA AVE, LIVERMORE</u>
Sampler: <u>BRIAN ALCORN</u>	Date: <u>3/28/03</u>
Well I.D.: <u>MW-2</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth (TD): <u>59.10</u>	Depth to Water (DTW): <u>37.40</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:

Purge Method: Bailer Disposable Bailer Middleburg Electric Submersible	Water Peristaltic Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
---	--	---

(Gals.) X <u>No Purge</u> = _____ Gals. Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or (S))	Turbidity (NTUs)	Gals. Removed	Observations
<u>0854</u>	<u>65.5</u>	<u>7.3</u>	<u>982</u>	<u>>1,000</u>	<u>—</u>	<u>very cloudy brown</u>

Did well dewater? Yes No Gallons actually evacuated: —

Sampling Date: 3/28/03 Sampling Time: 0854 Depth to Water: 37.40

Sample I.D.: MW-2 Laboratory: Kiff SPL Other: SAI SAN FRANCISCO

Analyzed for: TPH-G BTEX MTBE TPH-D Other: OXYS

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 #: <u>030328-BA1</u>	Site: <u>1155 PORTOLA AVE, LIVERMORE</u>
Sampler: <u>BRIAN ALCOZ</u>	Date: <u>3/28/03</u>
Well I.D.: <u>MW-3</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth (TD): <u>54.60</u>	Depth to Water (DTW): <u>36.47</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer Disposable Bailer Middleburg Electric Submersible	Water Peristaltic Extraction Pump Other	Sampling Method: <u>(Bailer)</u> Disposable Bailer Extraction Port Dedicated Tubing Other:
---	--	---

(Gals.) X <u>No Purge</u>	Gals.	Gals.	
Case Volume	Specified Volumes	Calculated Volume	

Well Diameter	Multplier	Well Diameter	Multplier
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 <u>(µS)</u>)	Turbidity (NTUs)	Gals. Removed	Observations
<u>0820</u>	<u>66.5</u>	<u>7.0</u>	<u>893</u>	<u>> 1,000</u>	—	<u>Very cloudy brown</u>

Did well dewater? Yes No Gallons actually evacuated: —

Sampling Date: 3/28/03 Sampling Time: 0820 Depth to Water: 36.47

Sample I.D.: MW-3 Laboratory: Kiff SPL Other STL SAN FRANCISCO

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

EB I.D. (if applicable): @ _____ 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 #: <u>030328-BA1</u>	Site: <u>1155 PORTOLA AVE, LIVERMORE</u>
Sampler: <u>BRIAN ALLEN</u>	Date: <u>3/28/03</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth (TD): <u>59.20</u>	Depth to Water (DTW): <u>37.16</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer Disposable Bailer Middleburg Electric Submersible	Water: Peristaltic Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
---	--	---

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

(Gals.) X No Purge = _____ Gals.
 Case Volume Specified Volumes Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
<u>0908</u>	<u>68.5</u>	<u>8.1</u>	<u>1,085</u>	<u>>1,000</u>	—	<u>Very cloudy brown</u>

Did well dewater? Yes No Gallons actually evacuated:
 Sampling Date: 3/28/03 Sampling Time: 0908 Depth to Water: 37.16

Sample I.D.: MW-4 Laboratory: Kiff SPL Other: SAN FRANCISCO

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Oxys

EB I.D. (if applicable): _____ @ _____ 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