KHM
ENVIRONMENTAL
MANAGEMENT, INC.

...COMBINING OUR RESOURCES TO ENHANCE OUR SERVICES...

Delta
Environmental
Consultants, Inc.

Letter of Transmittal

To: Alameda County Environmental Health Services — Date: 7/11/2003

1131 Harbor Bay Pkwy

Alameda CA 94502 — Job No: C85-6750 Santa Rita

Attn: Mr. Scott Seery

We are sending the following items:

Date	Copies	Description
11-Jul-03	1	2Q03 - Quarterly Monitoring Report, Sampling, and
		Remediation Status Report for:
		6750 Santa Rita Rd
		Pleasanton, CA

These are transmitted:

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

Remarks

Copies to:

By: Garrett Haertel

Title: Staff Engineer

6284 San Ignacio Avenue • Suite E
San Jose, California 95119 USA
408.224.4724 • Fax: 408.224.4518

800.477.7411

911 South Primrose Avenue • Suite K
Monrovia, California 91016 USA
626.256.6662 • Fax: 626.256.6263

KHM
ENVIRONMENTAL
MANAGEMENT, INC.

...COMBINING OUR RESOURCES TO ENHANCE OUR SERVICES...

Delta
Environmental
Consultants, Inc.

July 11, 2003
Project No. C85-6750 Santa Rita

Mr. Scott O. Seery
Alameda County Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: **Second Quarter 2003 - Quarterly Monitoring, Sampling and Remediation Status Report**
Shell Service Station
6750 Santa Rita Road
Pleasanton, California
Incident No. 97464711

Dear Mr. Seery:

KHM Environmental Management, Inc. (KHM), on behalf of Shell Oil Products US (Shell), has prepared the following second quarter 2003 groundwater monitoring and sampling report for the above referenced site. Groundwater sampling was performed by Blaine Tech Services (Blaine), at the direction of KHM, on May 9, 2003. A site location map is included as Figure 1.

QUARTERLY GROUND WATER MONITORING PROGRAM

Groundwater monitoring wells were gauged and sampled by Blaine on May 9, 2003. 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 submitted by Blaine to Severn Trent Laboratories, Inc. in Pleasanton, California for analysis for total purgeable petroleum hydrocarbons as gasoline (TPH-G); benzene, toluene, ethylbenzene, and total xylenes (BTEX); and fuel oxygenates methyl tert-butyl ether (MTBE), diisopropyl ether (DIPE), ethyl-t-butyl ether (ETBE), tert-amyl methyl ether (TAME), and tert-butanol (TBA) using EPA Method 8260B. Benzene and MTBE concentrations are presented on Figure 3.

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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.

REMEDIATION SUMMARY

KHM/Shell initiated monthly groundwater batch extraction during the second quarter 2003. This remedial action was taken to address the presence of MTBE in groundwater. Groundwater was extracted from wells MW-2 and MW-3 on May19, June 26 and June 30, 2003 using a vacuum truck and positive air displacement pump. The purged groundwater was transported to the Shell refinery in Martinez, California for recycling. Approximately 230 gallons of groundwater were extracted during the second quarter 2003. Table 1 presents the total gallons extracted and hydrocarbon mass removal estimates for the site

DISCUSSION

Previous site data has indicated a groundwater flow direction to the south-southwest. The groundwater gradient on May 9, 2003 was toward the southwest at a magnitude of 0.01 feet/feet.

MTBE was detected in all site wells at concentrations ranging from 75 micrograms per liter (ug/l) to 15,000 ug/l. TBA was detected in Wells MW-1, MW-2, and MW-3 at 200 ug/l, 3,200 ug/l, and 9,300 ug/l, respectively. TPH-g was detected in Well MW-3 at 11,000 ug/l.

In the third quarter 2003 Blaine will gauge and sample site wells and tabulate the data. KHM will prepare a third quarter 2003 monitoring, sampling and remediation status report.

A work plan for additional soil and groundwater assessment was submitted on May 23, 2003 to the Alameda County Health Care Services Agency (ACHCSA). KHM contacted ACHCSA on May 30, and July 11, 2003 for the status of the workplan review and was informed it had not yet been reviewed. KHM is prepared to move forward with ACHCSA approval.

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

Sincerely,
KHM Environmental Management, Inc.

Garrett Haertel
Staff Engineer

R. Lee Dooley
Senior Hydrogeologist
CHG 0183

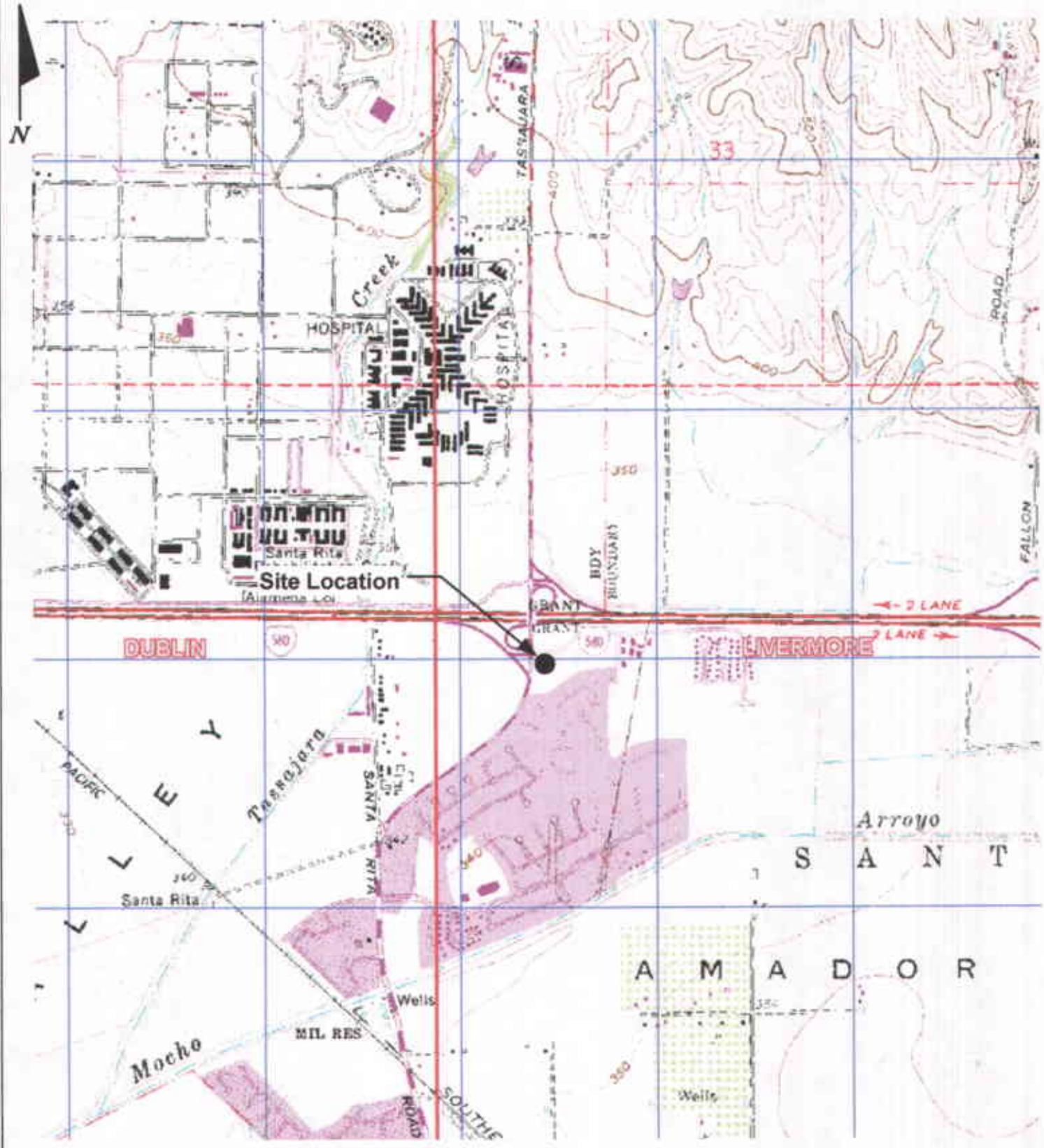
REGISTERED GEOLOGIST
R. LEE DOOLEY
No. 0183
CERTIFIED
HYDROGEOLOGIST
EXP. 04/05
STATE OF CALIFORNIA

Attachments: Figure 1 – Site Location Map
Figure 2 – Groundwater Elevation Contour Map
Figure 3 – Benzene and MTBE Concentration Map

Table 1 – Groundwater Extraction – Mass Removal Data

Attachment A – Groundwater Monitoring and Sampling Report, June 9, 2003

cc: Ms. Karen Petryna, P.E., Shell Oil Products US, P.O. Box 7869, Burbank, CA 91510-7869



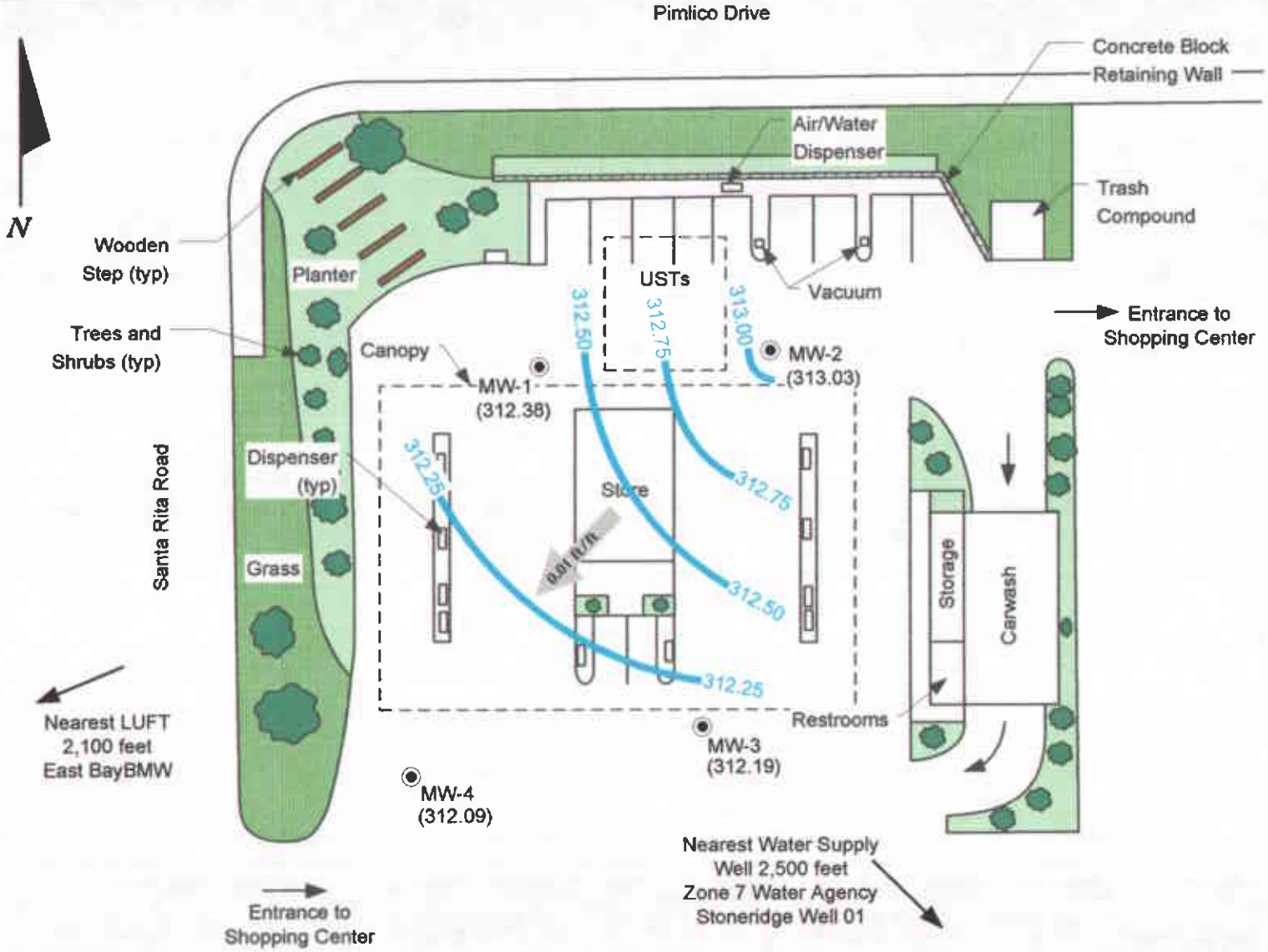
KHM
ENVIRONMENTAL MANAGEMENT, INC.

SITE LOCATION MAP

Shell Service Station
6750 Santa Rita Road
Pleasanton, California

DATE	PROJECT	FIGURE
7/10/03	C85-6750 Santa Rita	1

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



LEGEND

MW-4 ◉ **GROUNDWATER MONITORING WELL**

(312.38) **GROUNDWATER ELEVATION (FEET - MSL), 5/09/03**

311.50 **GROUNDWATER ELEVATION CONTOUR**

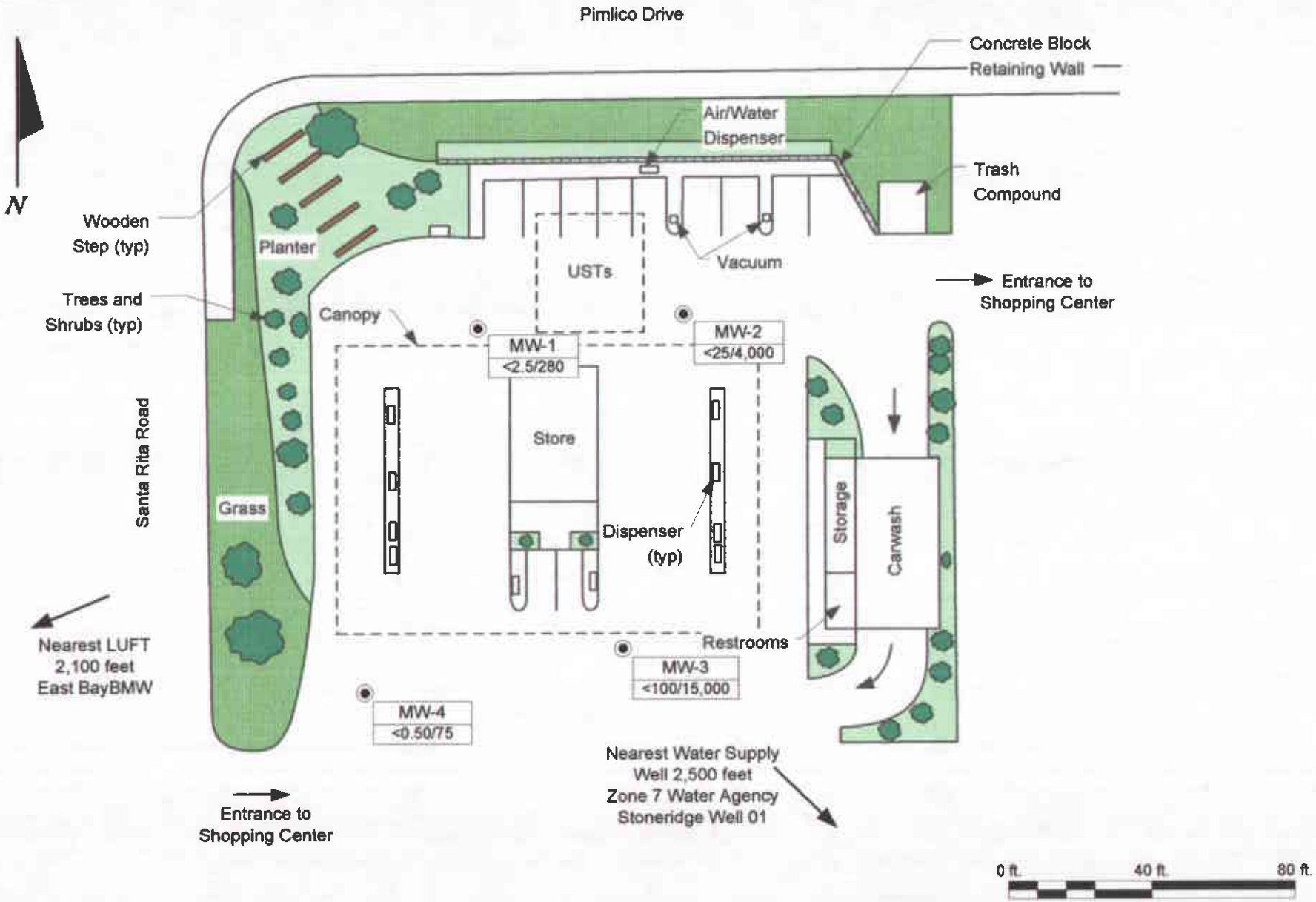
0.01 ft/ft **APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**

KHM
ENVIRONMENTAL MANAGEMENT, INC.

GROUNDWATER ELEVATION CONTOUR MAP, MAY 9, 2003

Shell-branded Service Station
6750 Santa Rita Road
Pleasanton, California

DATE	PROJECT	FIGURE
7/10/03	C85-6750 Santa Rita	2



LEGEND

MW-4 ◉ **GROUNDWATER MONITORING WELL**

MW-4 / <0.50/75 **WELL ID / BENZENE/MTBE CONCENTRATIONS (UG/L), 5/09/03**

KHM
ENVIRONMENTAL MANAGEMENT, INC.

BENZENE AND MTBE CONCENTRATIONS MAP, MAY 9, 2003

Shell-branded Service Station
6750 Santa Rita Road
Pleasanton, California

DATE	PROJECT	FIGURE
7/10/03	C85-6750 Santa Rita	3

TABLE 1
GROUNDWATER EXTRACTION - MASS REMOVAL DATA
SHELL-BRANDED SERVICE STATION, INCIDENT #97464711
6750 SANTA RITA RD, PLEASANTON, CALIFORNIA

					TPH-g			Benzene			MTBE		
Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Sample Date	TPH-g Concentration (ppb)	TPH-g Removed (pounds)	TPH-g Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
05/19/03	MW-2/MW-3	67	67	05/09/03	6,125	0.00342	0.00342	<75	0.00002	0.00002	9,500	0.00531	0.00531
05/31/03	MW-2/MW-3	38	105	05/09/03	6,125	0.00194	0.00537	<75	0.00001	0.00003	9,500	0.00301	0.00832
06/13/03	MW-2/MW-3	58	163	05/09/03	6,125	0.00296	0.00833	<75	0.00002	0.00005	9,500	0.00460	0.01292
06/26/03	MW-2/MW-3	48	211	05/09/03	6,125	0.00245	0.01078	<75	0.00002	0.00007	9,500	0.00381	0.01673
06/30/03	MW-2	20	231	05/09/03	<2,500	0.00021	0.01099	<25	0.00000	0.00007	4,000	0.00067	0.01739
06/30/03	MW-3	95	326	05/09/03	11,000	0.00872	0.01971	<100	0.00004	0.00011	15,000	0.01189	0.02928
Total Gallons Extracted:			**326**		**Total Pounds Removed:**		**0.020**	**Total Pounds Removed:**		**0.0001**	**Total Pounds Removed:**		**0.029**
					Total Gallons Removed:		**0.003**	**Total Gallons Removed:**		**0.00001**	**Total Gallons Removed:**		**0.005**

Abbreviations and Notes:

TPH-g = Total purgeable hydrocarbons as gasoline
MTBE = Methyl tert-butyl ether
ppb = Parts per billion
gal = Gallon

Mass removed based on the formula: volume extracted (gal) x Concentration (mg/L) x (g/10^6mg) x (pound/453.6g) x (3.785 L/gal)
Volume removal data based on the formula: density (in gms/cc) x 9.339 (ccxlbs/gmxgals)
TPH-g, benzene analyzed by EPA Method 8015/8020

Concentrations based on most recent groundwater monitoring results
If concentration is less than the laboratory detection limit, one half of the detection limit concentration is used in the mass removal calculation.
For combined well numbers, the average concentration was used assuming 1/2 the detection limit for samples less than the detection limit.

Attachment 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

June 9, 2003

Karen Petryna
Shell Oil Products US
P.O. Box 7869
Burbank, CA 91510-7869

Second Quarter 2003 Groundwater Monitoring at
Shell-branded Service Station
6750 Santa Rita Road
Pleasanton, CA

Monitoring performed on May 9, 2003

Groundwater Monitoring Report **030509-MG-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,

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
6750 Santa Rita Road
Pleasanton, 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	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	31.75	NA
MW-1	12/22/2002	<50	81	<0.50	<0.50	<0.50	<0.50	62	NA	31.93	NA
MW-1	03/28/2003	<50	70	<0.50	<0.50	<0.50	<1.0	130	343.48	31.59	311.89
MW-1	**05/09/2003**	**<250**	**NA**	**<2.5**	**<2.5**	**<2.5**	**<5.0**	**280**	**343.48**	**31.10**	**312.38**
MW-2	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	31.25	NA
MW-2	12/22/2002	<200	120	<2.0	<2.0	<2.0	<2.0	660	NA	30.70	NA
MW-2	03/28/2003	<2,500	60	<25	<25	<25	<50	4,200	342.86	30.30	312.56
MW-2	**05/09/2003**	**<2,500**	**NA**	**<25**	**<25**	**<25**	**<50**	**4,000**	**342.86**	**29.83**	**313.03**
MW-3	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	31.65	NA
MW-3	12/22/2002	<2,000	72	<20	<20	<20	<20	8,000	NA	31.10	NA
MW-3	03/28/2003	<5,000	89	<50	<50	<50	<100	10,000	342.23	30.76	311.47
MW-3	**05/09/2003**	**11,000**	**NA**	**<100**	**<100**	**<100**	**<200**	**15,000**	**342.23**	**30.04**	**312.19**
MW-4	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	32.92	NA
MW-4	12/22/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	93	NA	32.20	NA
MW-4	03/28/2003	<50	67	<0.50	<0.50	<0.50	<1.0	2.4	343.44	32.07	311.37
MW-4	**05/09/2003**	**<50**	**NA**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**75**	**343.44**	**31.35**	**312.09**

WELL CONCENTRATIONS
Shell-branded Service Station
6750 Santa Rita Road
Pleasanton, 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)

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 22, 2002, by Mid Coast Engineers.

SEVERN TRENT STL

Submission#: 2003-05-0327

Blaine Tech Services, Inc.

May 27, 2003

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

Project#: 030509-MG2
Project: 97464711
Site: 6750 Santa Rita Rd. Pleasanton

Dear Mr.Gearhart,

Attached is our report for your samples received on 05/12/2003 15:26
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 06/26/2003 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 STL

Submission #: 2003-05-0327

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 030509-MG2
97464711

Received: 05/12/2003 15:26

Site: 6750 Santa Rita Rd. Pleasanton

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	05/09/2003 17:15	Water	1
MW-2	05/09/2003 17:27	Water	2
MW-3	05/09/2003 17:40	Water	3
MW-4	05/09/2003 15:48	Water	4

SEVERN TRENT STL

Submission #: 2003-05-0327

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 030509-MG2
97464711

Received: 05/12/2003 15:26

Site: 6750 Santa Rita Rd. Pleasanton

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-1**	Lab ID:	2003-05-0327 - 1
Sampled:	05/09/2003 17:15	Extracted:	5/19/2003 15:22
Matrix:	Water	QC Batch#:	2003/05/19-1a.64

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	250	ug/L	5.00	05/19/2003 15:22	
Benzene	ND	2.5	ug/L	5.00	05/19/2003 15:22	
Toluene	ND	2.5	ug/L	5.00	05/19/2003 15:22	
Ethylbenzene	ND	2.5	ug/L	5.00	05/19/2003 15:22	
Total xylenes	ND	5.0	ug/L	5.00	05/19/2003 15:22	
tert-Butyl alcohol (TBA)	200	25	ug/L	5.00	05/19/2003 15:22	
Methyl tert-butyl ether (MTBE)	280	2.5	ug/L	5.00	05/19/2003 15:22	
Di-isopropyl Ether (DIPE)	ND	10	ug/L	5.00	05/19/2003 15:22	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	5.00	05/19/2003 15:22	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	5.00	05/19/2003 15:22	
Surrogates(s)						
1,2-Dichloroethane-d4	118.1	76-130	%	5.00	05/19/2003 15:22	
Toluene-d8	99.8	78-115	%	5.00	05/19/2003 15:22	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 030509-MG2
97464711

Received: 05/12/2003 15:26

Site: 6750 Santa Rita Rd. Pleasanton

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-2	Lab ID:	2003-05-0327 - 2
Sampled:	05/09/2003 17:27	Extracted:	5/19/2003 15:44
Matrix:	Water	QC Batch#:	2003/05/19-1a.64

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	2500	ug/L	50.00	05/19/2003 15:44	
Benzene	ND	25	ug/L	50.00	05/19/2003 15:44	
Toluene	ND	25	ug/L	50.00	05/19/2003 15:44	
Ethylbenzene	ND	25	ug/L	50.00	05/19/2003 15:44	
Total xylenes	ND	50	ug/L	50.00	05/19/2003 15:44	
tert-Butyl alcohol (TBA)	3200	250	ug/L	50.00	05/19/2003 15:44	
Methyl tert-butyl ether (MTBE)	4000	25	ug/L	50.00	05/19/2003 15:44	
Di-isopropyl Ether (DIPE)	ND	100	ug/L	50.00	05/19/2003 15:44	
Ethyl tert-butyl ether (ETBE)	ND	100	ug/L	50.00	05/19/2003 15:44	
tert-Amyl methyl ether (TAME)	ND	100	ug/L	50.00	05/19/2003 15:44	
Surrogates(s)						
1,2-Dichloroethane-d4	103.5	76-130	%	50.00	05/19/2003 15:44	
Toluene-d8	98.4	78-115	%	50.00	05/19/2003 15:44	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 030509-MG2
97464711

Received: 05/12/2003 15:26

Site: 6750 Santa Rita Rd. Pleasanton

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-3**	Lab ID:	2003-05-0327 - 3
Sampled:	05/09/2003 17:40	Extracted:	5/19/2003 16:28
Matrix:	Water	QC Batch#:	2003/05/19-1a.64

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	11000	10000	ug/L	200.00	05/19/2003 16:28	
Benzene	ND	100	ug/L	200.00	05/19/2003 16:28	
Toluene	ND	100	ug/L	200.00	05/19/2003 16:28	
Ethylbenzene	ND	100	ug/L	200.00	05/19/2003 16:28	
Total xylenes	ND	200	ug/L	200.00	05/19/2003 16:28	
tert-Butyl alcohol (TBA)	9300	1000	ug/L	200.00	05/19/2003 16:28	
Methyl tert-butyl ether (MTBE)	15000	100	ug/L	200.00	05/19/2003 16:28	
Di-isopropyl Ether (DIPE)	ND	400	ug/L	200.00	05/19/2003 16:28	
Ethyl tert-butyl ether (ETBE)	ND	400	ug/L	200.00	05/19/2003 16:28	
tert-Amyl methyl ether (TAME)	ND	400	ug/L	200.00	05/19/2003 16:28	
Surrogates(s)						
1,2-Dichloroethane-d4	106.6	76-130	%	200.00	05/19/2003 16:28	
Toluene-d8	96.8	78-115	%	200.00	05/19/2003 16:28	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 030509-MG2
97464711

Received: 05/12/2003 15:26

Site: 6750 Santa Rita Rd. Pleasanton

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-4	Lab ID:	2003-05-0327 - 4
Sampled:	05/09/2003 15:48	Extracted:	5/19/2003 16:50
Matrix:	Water	QC Batch#:	2003/05/19-1a.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/19/2003 16:50	
Benzene	ND	0.50	ug/L	1.00	05/19/2003 16:50	
Toluene	ND	0.50	ug/L	1.00	05/19/2003 16:50	
Ethylbenzene	ND	0.50	ug/L	1.00	05/19/2003 16:50	
Total xylenes	ND	1.0	ug/L	1.00	05/19/2003 16:50	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	05/19/2003 16:50	
Methyl tert-butyl ether (MTBE)	75	0.50	ug/L	1.00	05/19/2003 16:50	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	05/19/2003 16:50	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	05/19/2003 16:50	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	05/19/2003 16:50	
Surrogates(s)						
1,2-Dichloroethane-d4	105.3	76-130	%	1.00	05/19/2003 16:50	
Toluene-d8	100.3	78-115	%	1.00	05/19/2003 16:50	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 030509-MG2
97464711

Received: 05/12/2003 15:26

Site: 6750 Santa Rita Rd. Pleasanton

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Method Blank — **Water** — **QC Batch # 2003/05/19-1a.64**

MB: 2003/05/19-1a.64-003 — Date Extracted: 05/19/2003 11:25

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/19/2003 11:25	
Benzene	ND	0.5	ug/L	05/19/2003 11:25	
Toluene	ND	0.5	ug/L	05/19/2003 11:25	
Ethylbenzene	ND	0.5	ug/L	05/19/2003 11:25	
Total xylenes	ND	1.0	ug/L	05/19/2003 11:25	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	05/19/2003 11:25	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/19/2003 11:25	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	05/19/2003 11:25	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	05/19/2003 11:25	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	05/19/2003 11:25	
Surrogates(s)					
1,2-Dichloroethane-d4	100.6	76-130	%	05/19/2003 11:25	
Toluene-d8	96.4	78-115	%	05/19/2003 11:25	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 030509-MG2
97464711

Received: 05/12/2003 15:26

Site: 6750 Santa Rita Rd. Pleasanton

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike | **Water** | **QC Batch # 2003/05/19-1a.64**

LCS 2003/05/19-1a.64-002 Extracted: 05/19/2003 Analyzed: 05/19/2003 10:41

LCSD 2003/05/19-1a.64-001 Extracted: 05/19/2003 Analyzed: 05/19/2003 11:03

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	22.0	22.7	25	88.0	90.8	3.1	69-129	20		
Toluene	21.9	22.7	25	87.6	90.8	3.6	70-130	20		
Methyl tert-butyl ether (MTBE)	23.3	23.7	25	93.2	94.8	1.7	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	504	510	500	100.8	102.0		76-130			
Toluene-d8	477	478	500	95.4	95.6		78-115			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

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97464711

Received: 05/12/2003 15:26

Site: 6750 Santa Rita Rd. Pleasanton

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

LAB: STL

77148

SHELL Chain Of Custody Record

Lab Identification (if necessary):
Address:
City, State, Zip:

Shell Project Manager to be invoiced:

- [x] SCIENCE & ENGINEERING
- [ ] TECHNICAL SERVICES
- [ ] CRMT HOUSTON

Karen Petryna

2003-05-0327

INCIDENT NUMBER (S&E ONLY): 9 7 4 6 4 7 1 1

SAP or CRMT NUMBER (TS/CRMT): [redacted]

DATE: 5/9/03

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services	LOG CODE: BTSS	SITE ADDRESS (Street and City): 6750 Santa Rita Rd., Pleasanton
GLOBAL ID NO.: pending		
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112		
EDF DELIVERABLE TO (Responsible Party or Designee): Debbie Arnold	PHONE NO.: (408)224-4724	E-MAIL: darnold@khm1.com
CONSULTANT PROJECT NO.: BTS# 030509-MG2		
PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart		
TELEPHONE: 408-573-0555	FAX: 408-573-7771	E-MAIL: lgearhart@blainetech.com
SAMPLER NAME(S) (Print): Morgan Gillies		LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS):
- [x] 10 DAYS
- [ ] 5 DAYS
- [ ] 72 HOURS
- [ ] 48 HOURS
- [ ] 24 HOURS
- [ ] LESS THAN 24 HOURS

- [ ] 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 [ ]

REQUESTED ANALYSIS

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

TEMPERATURE ON RECEIPT C°: 2.0

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	TPH - Diesel, Extractable	FIELD NOTES
	MW-1	5/9/03	1715	GW	3	X	X			X		
	MW-2	↓	1727	↓	↓	X	X			X		
	MW-3	↓	1740	↓	↓	X	X			X		
	MW-4	↓	1548	↓	↓	X	X			X		

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5/12/03	1526
[signature] 1627 5/12/03	[signature]		
	[signature]	5/12/03	16:27

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

10/16/00 Revision

QAQ Graphic (714) 668-0702

WELLHEAD INSPECTION CHECKLIST

Client Shell Date 5/9/03

Site Address 6750 Santa Rita Rd.

Job Number 030509-MG2 Technician MG

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

NOTES:

WELL GAUGING DATA

Project # 030509-MG2 Date 5/9/03 Client Shell

Site 6750 Santa Rita Rd., Pleasanton, CA

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-4	2					31.35	44.00		
MW-1	2					31.10	41.75		
MW-2	2					29.83	41.91		
MW-3	2					30.04	43.98		

SHELL WELL MONITORING DATA SHEET

BTS #: 030509 - MG	Site: 6750 Santa Rita Rd.
Sampler: MG	Date: 5/9/03
Well I.D.: MW -1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 41.75	Depth to Water (DTW): 31.10
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 (10.65) x 0.20) + DTW]: 33.23	

Purge Method: (X) Bailer; Disposable Bailer; Middleburg; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other____

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

1.7 (Gals.) X 3 = 5.1 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1603	66.0	7.2	2675	>200	2	BROWN
1607	66.0	7.2	2682	>200	4	
1609	65.9	7.2	2665	>200	5.5	DTW= 38.33

Did well dewater? Yes (No) Gallons actually evacuated: 5.5

Sampling Date: 5/9/03 Sampling Time: 1715 Depth to Water: 35.58 @ site departure

Sample I.D.: MW -1 Laboratory: (STL) Other____

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: Oxygenates (5) by 8260

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 #: 030509-MG	Site: 6750 Santa Rita Rd.
Sampler: MG	Date: 5/9/03
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): ~~29.91~~	Depth to Water (DTW): ~~29.91~~ 29.83
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]: 32.24	

Purge Method: X Bailer / Disposable Bailer / Middleburg / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: X Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other:_____

1.9 (Gals.) X	3	= 5.7 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
1626	65.7	7.2	2975	>200	2	BROWN
1629	66.0	7.2	3040	>200	4	
1633	65.8	7.2	3154	>200	6	
						DTW = 37.05

Did well dewater? Yes (No) Gallons actually evacuated: 6

Sampling Date: 5/9/03 Sampling Time: 1727 Depth to Water: 29.83

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

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: Oxygenates (5) by 8260

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 #: 030509-MG	Site: 6750 Santa Rita Rd.
Sampler: MG	Date: 5/9/03
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 43.98	Depth to Water (DTW): 30.04
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]: 32.82	

Purge Method: X Bailer / Disposable Bailer / Middleburg / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: X Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: _____

2.2 (Gals.) X 3 = 6.6 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
1654	66.1	7.3	2584	>200	3	
1656	66.4	7.3	2657	>200	5	
1700	66.1	7.3	2807	>200	7	DTW=39.17'

Did well dewater? Yes (No) Gallons actually evacuated: 7

Sampling Date: 5/9/03 Sampling Time: 1740 Depth to Water: 33.07 SITE DEPARTURE

Sample I.D.: MW-3 Laboratory: (STL) Other_____

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: Oxygenates (5) by 8260

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 #: 030509 - MG	Site: 6750 Santa Rita Rd.
Sampler: MG	Date: 5/9/03
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 44.00	Depth to Water (DTW): 31.35
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 33.85	

Purge Method: X Bailer; Disposable Bailer; Middleburg; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other____

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other:____

2.0 (Gals.) X 3 = 6.0 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 (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1530	66.6	7.4	2455	>200	2.5	Brown
1543	66.4	7.3	2475	>200	4.5	
1546	66.1	7.2	2609	>200	6.5	

Did well dewater? Yes (No) Gallons actually evacuated: 6.5

Sampling Date: 5/9/03 Sampling Time: 1548 Depth to Water: 33.86'

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

Analyzed for: (TPH-G BTEX) MTBE TPH-D Other: Oxygenates (5) by 8260

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