

Ro-213

C A M B R I A

AUG 0 8 2002

August 1, 2002

eva chu
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Second Quarter 2002 Monitoring Report**
Shell-branded Service Station
11989 Dublin Boulevard
Dublin, California
Incident #98995328
Cambria Project #244-0548-002



Dear Ms. chu:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US, Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

SECOND QUARTER 2002 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled the site wells, calculated groundwater elevations, and compiled the analytical data. Cambria prepared a vicinity map which includes previously submitted well survey information (Figure 1) and a groundwater elevation contour map with a rose diagram showing groundwater gradient (Figure 2). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

As requested in a February 6, 2002 correspondence from the Alameda County Health Care Services Agency (ACHCSA), wells MW-2, MW-3, and MW-4 were additionally analyzed for diisopropyl ether, ethyl tertiary butyl ether, tertiary amyl methyl ether, tertiary butyl alcohol and ethanol. Results are summarized on Table 1.

Subsurface Investigation: On June 5, 2002, Cambria submitted a *Well Installation Work Plan* for downgradient well installation at the site. In a June 24, 2002 correspondence, eva chu of the ACHCSA requested a change to the scope of work described. Cambria will prepare a *Subsurface Investigation Work Plan Addendum* for submittal during the third quarter 2002.

Oakland, CA
San Ramon, CA
Sonoma, CA

**Cambria
Environmental
Technology, Inc.**

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

ANTICIPATED THIRD QUARTER 2002 ACTIVITIES

Groundwater Monitoring: Blaine will gauge and sample all wells and tabulate the data. Cambria will prepare a monitoring report.

Subsurface Investigation: As described above, Cambria will submit a *Subsurface Investigation Work Plan Addendum* during the third quarter 2002.



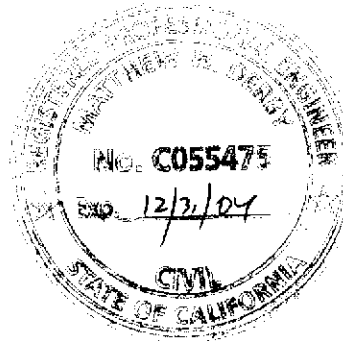
CLOSING

We appreciate the opportunity to work with you on this project. Please call Jacquelyn Jones at (510) 420-3316 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Jacquelyn L. Jones
Project Geologist

Matthew W. Derby, P.E.
Senior Project Engineer



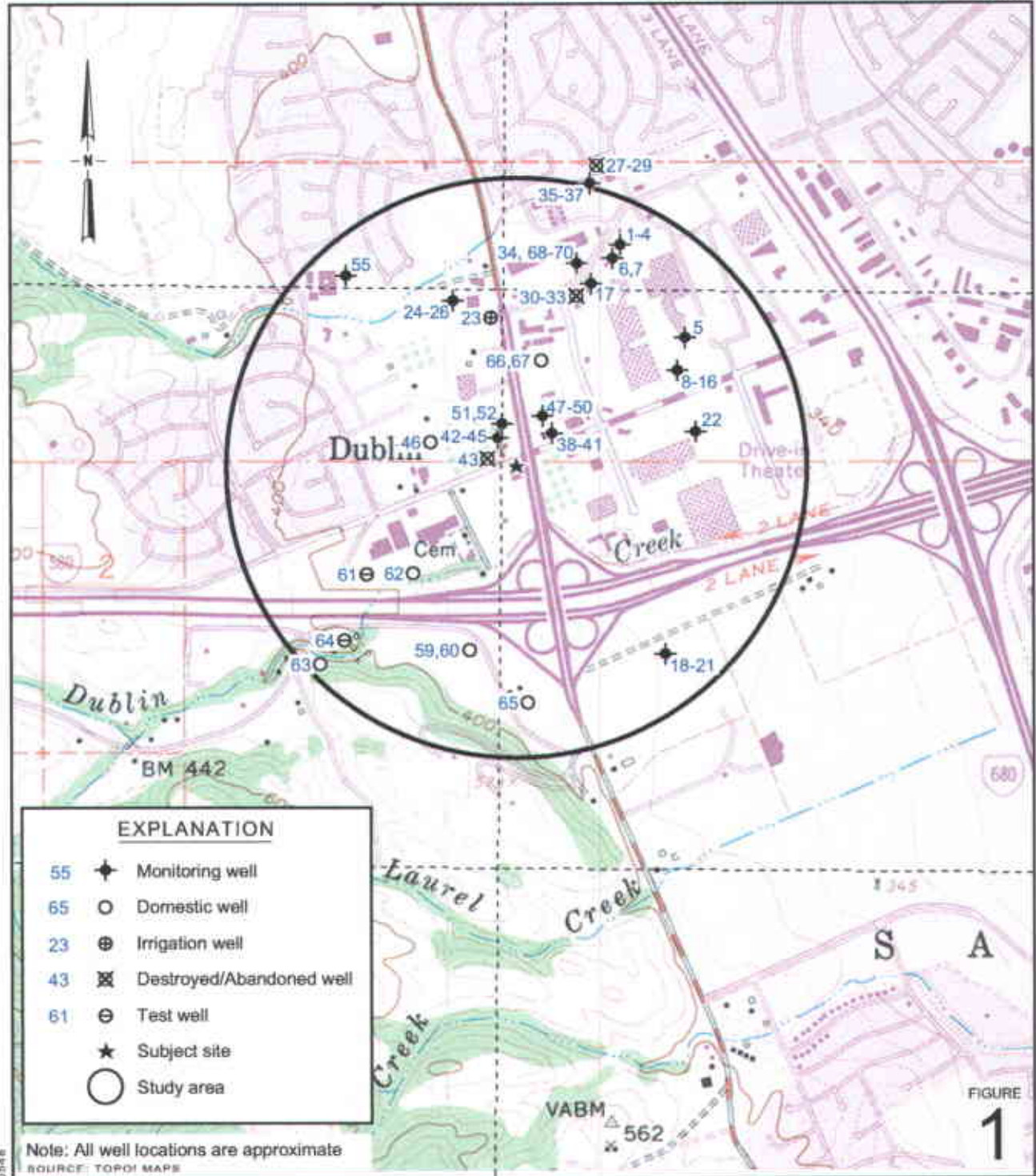
Figures: 1 - Vicinity/Area Well Survey Map
2 - Groundwater Elevation Contour Map

Table: 1 -Groundwater Analytical Data - Oxygenates

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

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

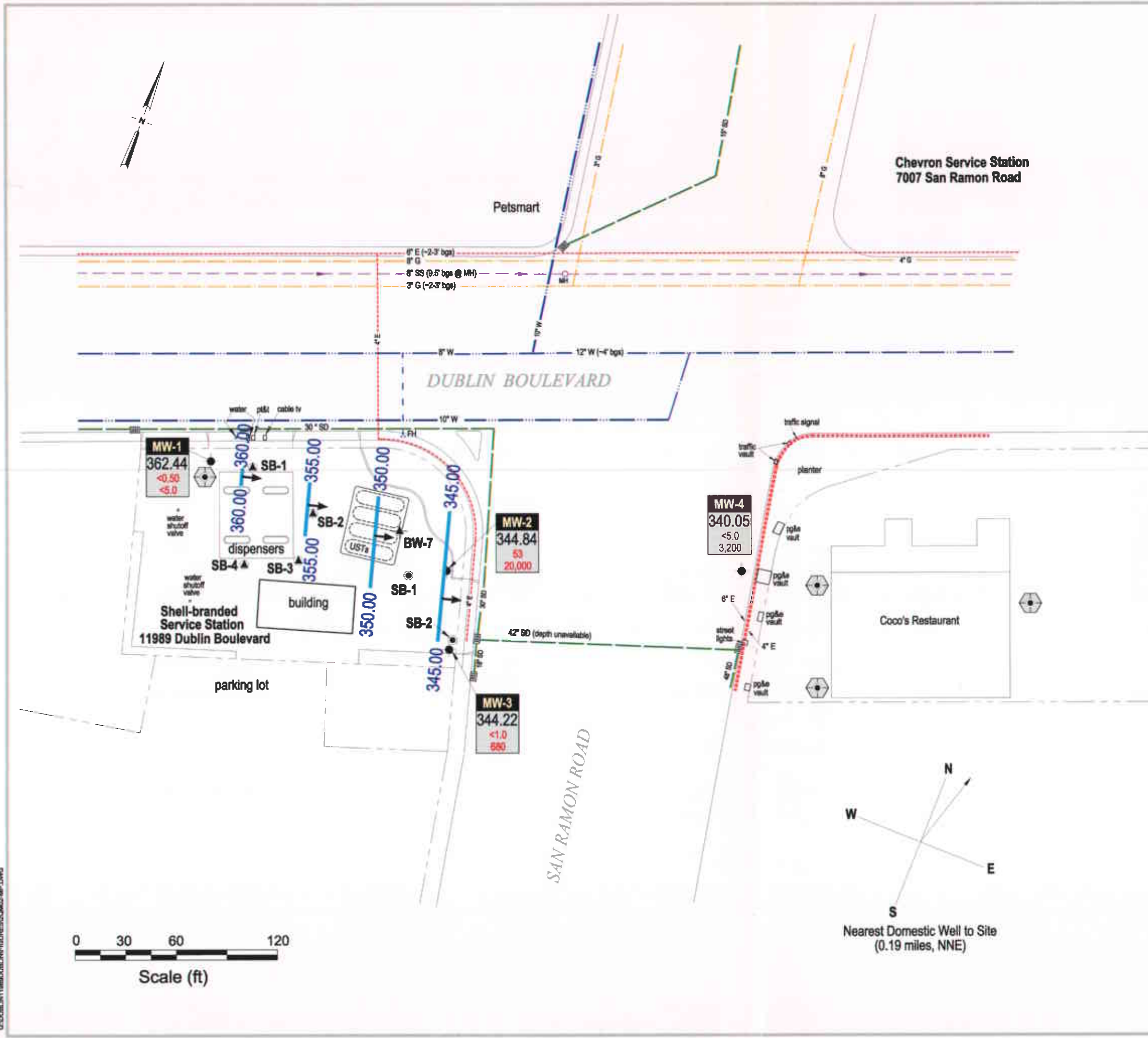
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Shell-branded Service Station
 11989 Dublin Boulevard
 Dublin, California



**Vicinity/Area Well
 Survey Map**
 (1/2 Mile Radius)



EXPLANATION

- Proposed soil boring location
- MW-1** Monitoring well location
- BW-7** Tank backfill well
- SB-1** Soil boring location (11/16/97)
- SB-1** Soil boring location (8/5/98)
- FH** Fire Hydrant (FH)
- MH** Manhole (MH)
- Storm drain inlet
- 8.28' bgs** Utility depth below ground surface
- Flow direction indicator
- Gas line (G)
- Storm Drain line (SD)
- Water line (W)
- Sanitary Sewer line (SS)
- Electric line (E)
- Groundwater flow direction
- Groundwater elevation contour, in feet above mean sea level (msl), approximately located
- Well** Well designation
- ELEV** Groundwater elevation, in feet above msl
- Benzene**
MTBE Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260.



FIGURE
2

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CAMBRIA

Table 1. Groundwater Analytical Data - Oxygenates - Shell-branded Service Station, Incident #98995328, 11989 Dublin Boulevard, Dublin, California

Sample ID	Date Sampled	MTBE	DIPE	ETBE	TAME	TBA	Ethanol
		← (Concentrations in ppb) →					
MW-2	10/26/01	9,200	<20	<20	<20	1,800	<500
	05/22/02	20,000	<50	<50	<50	6,300	—
MW-3	10/26/01	680	<2.0	<2.0	<2.0	79	<500
	05/22/02	680	<2.0	<2.0	<2.0	58	—
MW-4	05/22/02	3,200	<5.0	<5.0	<5.0	2,500	—

Abbreviations:

MTBE = Methyl tert-butyl ether, analyzed by EPA Method 8260

DIPE = Di-isopropyl ether, analyzed by EPA Method 8260

ETBE = Ethyl tert-butyl ether, analyzed by EPA Method 8260

TAME = Tert-amyl methyl ether, analyzed by EPA Method 8260

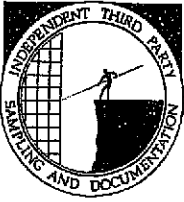
TBA = Tert-butyl alcohol, analyzed by EPA Method 8260

Ethanol analyzed by EPA Method 8260

ppb = Parts per billion

ATTACHMENT A
Blaine Groundwater Monitoring Report
and Field Notes

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 10, 2002

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

Second Quarter 2002 Groundwater Monitoring at
Shell-branded Service Station
11989 Dublin Boulevard
Dublin, CA

Monitoring performed on May 22, 2002

Groundwater Monitoring Report 0202522-MN-3

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: Anni Kreml
Cambria Environmental Technology, Inc.
1144 65th Street
Oakland, CA 94608-2411

WELL CONCENTRATIONS
Shell-branded Service Station
11989 Dublin Boulevard
Dublin, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	D.O. Reading (ppm)
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MW-1	07/20/1999	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	367.99	6.24	361.75	NA
MW-1	10/25/1999	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	367.99	6.36	361.63	NA
MW-1	01/27/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	367.99	5.65	362.34	NA
MW-1	04/03/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	367.99	5.68	362.31	1.2/1.6
MW-1	07/27/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	367.99	5.69	362.30	1.0/1.1
MW-1	10/16/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	367.99	5.74	362.25	1.2/0.8
MW-1	01/16/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	367.99	5.71	362.28	0.59/2.8
MW-1	04/19/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	367.99	5.63	362.36	1.4/1.5
MW-1	07/13/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	367.99	5.70	362.29	2.3/3.1
MW-1	08/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	367.99	5.72	362.27	NA
MW-1	10/26/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	367.99	5.73	362.26	0.4/0.0
MW-1	01/11/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	367.99	5.55	362.44	5.4/2.0
MW-1	05/22/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	367.99	5.55	362.44	NA

MW-2	07/20/1999	2,600	699	55.0	<2.50	59.5	<2.50	9,370	NA	365.43	20.31	345.12	NA
MW-2	10/25/1999	4,710	761	61.1	<10.0	74.6	<10.0	22,800	NA	365.43	22.80	342.63	NA
MW-2	01/27/2000	3,820	1490	60.8	<10.0	156	<10.0	13,400	15,000a	365.43	19.17	346.26	NA
MW-2	04/03/2000	7,130	NA	184	14.9	238	18.8	34,200	28,000	365.43	19.03	346.40	1.6/1.7
MW-2	07/27/2000	311	NA	10.0	<0.500	<0.500	<0.500	280	NA	365.43	19.09	346.34	1.9/1.7
MW-2	10/16/2000	3,970	NA	123	<5.00	68.5	<5.00	14,000	15,600	365.43	23.98	341.45	0.5/0.5
MW-2	01/16/2001	5,780	NA	125	9.71	139	6.93	7,660	7,810	365.43	22.12	343.31	0.90/2.61
MW-2	04/19/2001	4,460	NA	114	7.61	115	4.87	15,200	18,400	365.43	20.95	344.48	1.6/1.5
MW-2	07/13/2001	<5,000	NA	<25	<25	110	<25	NA	15,000	365.43	22.62	342.81	2.7/1.8
MW-2	08/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	365.43	22.33	343.10	NA
MW-2	10/26/2001	3,700	NA	<20	<20	66	<20	NA	9,200	365.43	22.32	343.11	0.7/0.8
MW-2	01/11/2002	<5,000	NA	<50	<50	54	<50	NA	15,000	365.43	18.72	346.71	5.1/c
MW-2	05/22/2002	<5,000	NA	53	<50	57	<50	NA	20,000	365.43	20.59	344.84	NA

WELL CONCENTRATIONS
Shell-branded Service Station
11989 Dublin Boulevard
Dublin, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	D.O. Reading (ppm)
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MW-3	07/20/1999	208	177	4.69	<0.500	<0.500	<0.500	664	NA	364.97	24.23	340.74	NA
MW-3	10/25/1999	378	182	9.49	<0.500	<0.500	<0.500	1,410	NA	364.97	23.26	341.71	NA
MW-3	01/27/2000	428	100	29.4	<0.500	<0.500	<0.500	941	NA	364.97	19.53	345.44	NA
MW-3	04/03/2000	<125	NA	11.4	<1.25	<1.25	<1.25	639	NA	364.97	19.13	345.84	1.4/1.9
MW-3	07/27/2000	4,360	NA	78.4	6.95	85.8	2.61	26,600	25,200b	364.97	19.10	345.87	1.9/2.0
MW-3	10/16/2000	586	NA	21.3	<0.500	<0.500	<0.500	3,310	NA	364.97	24.11	340.86	1.1/0.8
MW-3	01/16/2001	558	NA	14.7	<0.500	<0.500	<0.500	2,210	NA	364.97	22.19	342.78	0.87/3.5
MW-3	04/19/2001	376	NA	9.08	<0.500	<0.500	<0.500	667	NA	364.97	20.96	344.01	1.7/1.4
MW-3	07/13/2001	370	NA	<2.0	<2.0	<2.0	<2.0	NA	670	364.97	22.77	342.20	3.1/4.8
MW-3	08/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	364.97	22.59	342.38	NA
MW-3	10/26/2001	<200	NA	<2.0	<2.0	<2.0	<2.0	NA	680	364.97	22.81	342.16	1.0/3.2
MW-3	01/11/2002	480	NA	<2.0	<2.0	<2.0	<2.0	NA	830	364.97	18.88	346.09	1.1/3.2
MW-3	05/22/2002	570	NA	<1.0	<1.0	<1.0	<1.0	NA	680	364.97	20.75	344.22	NA

MW-4	08/10/2001	NA	NA	NA	NA	NA	NA	NA	NA	364.01	25.63	338.38	NA
MW-4	08/13/2001	2,400	NA	<10	<10	<10	<10	NA	8,300	364.01	26.32	337.69	4.2/2.7
MW-4	10/26/2001	<2,000	NA	<20	<20	<20	<20	NA	8,600	364.01	26.02	337.99	3.1/2.8
MW-4	01/11/2002	<2,000	NA	<20	<20	<20	<20	NA	5,100	364.01	22.25	341.76	7.9/3.0
MW-4	05/22/2002	<500	NA	<5.0	<5.0	<5.0	<5.0	NA	3,200	364.01	23.96	340.05	NA

WELL CONCENTRATIONS
Shell-branded Service Station
11989 Dublin Boulevard
Dublin, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	D.O. Reading (ppm)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to July 13, 2001, analyzed by EPA Method 8015.

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

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to July 13, 2001, analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether by EPA Method 8020.

TOC = Top of Casing Elevation

GW = Groundwater

DO = Dissolved Oxygen

ug/L = parts per billion

ppm = parts per million

msl = Mean sea level

ft = Feet

<n = Below detection limit

n/n = Pre-purge/Post-purge DO Readings

NA = Not applicable

Notes:

Wells surveyed June 21, 1999, by Virgil Chavez Land Surveying of Vallejo, California.

Wells surveyed August 23, 2001, by Virgil Chavez Land Surveying of Vallejo, California.

a = Sample was analyzed outside the EPA recommended holding time.

b = Concentration is an estimate.

c = D.O. meter malfunctioning.



Report Number : 26544

Date : 5/30/2002

Leon Gearhart
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject : 4 Water Samples
Project Name : 11989 Dublin Boulevard, Dublin
Project Number : 020522-MN3
P.O. Number : 98995328

Dear Mr. Gearhart,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,


Joel Kiff



Report Number : 26544

Date : 5/30/2002

Project Name : 11989 Dublin Boulevard, Dublin

Project Number : 020522-MN3

Sample : MW-1

Matrix : Water

Lab Number : 26544-01

Sample Date :5/22/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/24/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/24/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/24/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/24/2002
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	5/24/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/24/2002
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	5/24/2002
4-Bromofluorobenzene (Surr)	96.9		% Recovery	EPA 8260B	5/24/2002

Approved By:  Joel Kiff



Report Number : 26544

Date : 5/30/2002

Project Name : 11989 Dublin Boulevard, Dublin

Project Number : 020522-MN3

Sample : MW-2

Matrix : Water

Lab Number : 26544-02

Sample Date :5/22/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	53	50	ug/L	EPA 8260B	5/26/2002
Toluene	< 50	50	ug/L	EPA 8260B	5/26/2002
Ethylbenzene	57	50	ug/L	EPA 8260B	5/26/2002
Total Xylenes	< 50	50	ug/L	EPA 8260B	5/26/2002
Methyl-t-butyl ether (MTBE)	20000	50	ug/L	EPA 8260B	5/26/2002
Diisopropyl ether (DIPE)	< 50	50	ug/L	EPA 8260B	5/26/2002
Ethyl-t-butyl ether (ETBE)	< 50	50	ug/L	EPA 8260B	5/26/2002
Tert-amyl methyl ether (TAME)	< 50	50	ug/L	EPA 8260B	5/26/2002
Tert-Butanol	6300	500	ug/L	EPA 8260B	5/26/2002
TPH as Gasoline	< 5000	5000	ug/L	EPA 8260B	5/26/2002
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	5/26/2002
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	5/26/2002

Approved By:  Joel Kiff



Report Number : 26544

Date : 5/30/2002

Project Name : 11989 Dublin Boulevard, Dublin

Project Number : 020522-MN3

Sample : MW-3

Matrix : Water

Lab Number : 26544-03

Sample Date :5/22/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 1.0	1.0	ug/L	EPA 8260B	5/25/2002
Toluene	< 1.0	1.0	ug/L	EPA 8260B	5/25/2002
Ethylbenzene	< 1.0	1.0	ug/L	EPA 8260B	5/25/2002
Total Xylenes	< 1.0	1.0	ug/L	EPA 8260B	5/25/2002
Methyl-t-butyl ether (MTBE)	680	1.0	ug/L	EPA 8260B	5/25/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	5/25/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	5/25/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	5/25/2002
Tert-Butanol	58	50	ug/L	EPA 8260B	5/25/2002
TPH as Gasoline	570	100	ug/L	EPA 8260B	5/25/2002
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	5/25/2002
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	5/25/2002

Approved By:  Joel Kiff



Report Number : 26544

Date : 5/30/2002

Project Name : 11989 Dublin Boulevard, Dublin

Project Number : 020522-MN3

Sample : MW-4

Matrix : Water

Lab Number : 26544-04

Sample Date :5/22/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 5.0	5.0	ug/L	EPA 8260B	5/26/2002
Toluene	< 5.0	5.0	ug/L	EPA 8260B	5/26/2002
Ethylbenzene	< 5.0	5.0	ug/L	EPA 8260B	5/26/2002
Total Xylenes	< 5.0	5.0	ug/L	EPA 8260B	5/26/2002
Methyl-t-butyl ether (MTBE)	3200	5.0	ug/L	EPA 8260B	5/26/2002
Diisopropyl ether (DIPE)	< 5.0	5.0	ug/L	EPA 8260B	5/26/2002
Ethyl-t-butyl ether (ETBE)	< 5.0	5.0	ug/L	EPA 8260B	5/26/2002
Tert-amyl methyl ether (TAME)	< 5.0	5.0	ug/L	EPA 8260B	5/26/2002
Tert-Butanol	2500	50	ug/L	EPA 8260B	5/26/2002
TPH as Gasoline	< 500	500	ug/L	EPA 8260B	5/26/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	5/26/2002
4-Bromofluorobenzene (Surr)	99.4		% Recovery	EPA 8260B	5/26/2002

Approved By:  Joel Kiff

Report Number : 26544

Date : 5/30/2002

QC Report : Method Blank Data

Project Name : **11989 Dublin Boulevard, Dublin**

Project Number : **020522-MN3**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/25/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/25/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/25/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/25/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/25/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	5/25/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	5/25/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	5/25/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	5/25/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/25/2002
Toluene - d8 (Surr)	101		%	EPA 8260B	5/25/2002
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	5/25/2002
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/24/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/24/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/24/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/24/2002
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	5/24/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/24/2002
Toluene - d8 (Surr)	99.2		%	EPA 8260B	5/24/2002
4-Bromofluorobenzene (Surr)	97.8		%	EPA 8260B	5/24/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
-----------	----------------	------------------------	-------	-----------------	---------------

Approved By:  _____
 Joel Kiff

Report Number : 26544

Date : 5/30/2002

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **11989 Dublin Boulevard,**

Project Number : **020522-MN3**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	26557-01	<0.50	19.8	19.8	19.4	19.7	ug/L	EPA 8260B	5/25/02	97.9	99.5	1.62	70-130	25
Toluene	26557-01	<0.50	19.8	19.8	18.8	19.0	ug/L	EPA 8260B	5/25/02	94.8	96.2	1.44	70-130	25
Tert-Butanol	26557-01	<5.0	98.9	99.0	84.0	83.5	ug/L	EPA 8260B	5/25/02	84.9	84.3	0.727	70-130	25
Methyl-t-Butyl Ether	26557-01	<0.50	19.8	19.8	18.9	19.2	ug/L	EPA 8260B	5/25/02	95.6	96.7	1.20	70-130	25
Benzene	26543-03	<0.50	40.0	40.0	38.4	38.3	ug/L	EPA 8260B	5/24/02	95.9	95.7	0.235	70-130	25
Toluene	26543-03	<0.50	40.0	40.0	39.1	38.5	ug/L	EPA 8260B	5/24/02	97.8	96.3	1.57	70-130	25
Tert-Butanol	26543-03	<5.0	200	200	188	192	ug/L	EPA 8260B	5/24/02	94.2	95.9	1.86	70-130	25
Methyl-t-Butyl Ether	26543-03	2.0	40.0	40.0	45.6	45.7	ug/L	EPA 8260B	5/24/02	109	109	0.344	70-130	25

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By: Joel Kiff



QC Report : Laboratory Control Sample (LCS)

Report Number : 26544

Date : 5/30/2002

Project Name : 11989 Dublin Boulevard,

Project Number : 020522-MN3

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	20.0	ug/L	EPA 8260B	5/25/02	97.1	70-130
Toluene	20.0	ug/L	EPA 8260B	5/25/02	94.7	70-130
Tert-Butanol	100	ug/L	EPA 8260B	5/25/02	83.2	70-130
Methyl-t-Butyl Ether	20.0	ug/L	EPA 8260B	5/25/02	90.2	70-130
Benzene	40.0	ug/L	EPA 8260B	5/24/02	93.6	70-130
Toluene	40.0	ug/L	EPA 8260B	5/24/02	97.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/24/02	94.0	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/24/02	114	70-130

KIFF ANALYTICAL, LLC

Approved By:


Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

**BLAINE
TECH SERVICES**



1680 Rogers Avenue
San Jose, CA 95112-1105

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

DATE 5/24/2002

Total pages
including
cover sheet 2

TO Abigail McNally

OF Kiff

FROM Leon Gearhart

REMARKS: Revised COC for 11989 Dublin Blvd., Dublin

Cancel MTBE by 8021 and add Oxys (5) by 8260 for MW-2, MW-3
and MW-4

LAB: Kiff

SHELL Chain Of Custody Record

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

Shell Project Manager to be Invoiced:
Karen Petryna
 SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 CRMT HOUSTON

INCIDENT NUMBER (SHELL ONLY)							
9	8	9	9	5	3	2	8
SAP OR CRMT NUMBER (SHELL ONLY)							

DATE: 5/22/02
PAGE: 1 of 1

SAMPLING COMPANY Blaine Tech Services	LAB CODE BTSS	SITE ADDRESS (Street and City) 11989 Dublin Boulevard, Dublin	GLOBAL ID NO. T060D102083
ADDRESS 1680 Rogers Avenue, San Jose, CA 95112	PROJECT CONTACT (Name and e-mail) Leon Gearhart	PHONE NO. 510-420-3335	CONSULTANT PROJECT NO. BTS # 0205221-1003
TELEPHONE 408-573-0555	FAX 408-573-7771	E-MAIL lgearhart@blainetech.com	LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS)
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - RIVQCS REPORT FORMAT LIST AGENCY

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

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

REQUESTED ANALYSIS

Field Sample Identification	TPH - Gas, Purgeable	MTX	MTBE (0221B - Spill RL)	MTBE (0200B - 0.5ppm RL)	Oxygenates (5) by (0240B)	Ethanol (0240B)	Methanol	1,2-DCA (0240B)	EDB (0240B)	TPH - Diesel, Extractable (50'5m)
MW-1	X	X	X							
MW-2	X	X	X		X					
MW-3	X	X	X		X					
MW-4	X	X	X		X					

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

TEMPERATURE ON RECEIPT C'

Requested by (Signature) 	Received by (Signature) 	Date: 5/23/02	Time: 11:26
Requested by (Signature)	Received by (Signature)	Date:	Time:
Requested by (Signature)	Received by (Signature) John Cuthbert/Kiff Analytical	Date: 052302	Time: 11:26

REGISTRATION Yellow with local report, Green to File, Yellow and Pink to Client.

0205221-1003

MAY - 24' 02 (PRI) 10:13 BLAINE TECH SERVICES, INC TEL: 408 573 7771 P. 002

LAB: Kiff

SHELL Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 GMT, HOUSTON

Karen Petryna

26544

INCIDENT NUMBER (S/E ONLY)

9 8 9 9 5 3 2 8

DATE: 5/22/02

SAP or CRMT NUMBER (TS/CRMT)

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services	LOG CODE: BTSS	SITE ADDRESS (Street and City): 11989 Dublin Boulevard, Dublin	GLOBAL ID NO.: T0600102083
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112		EDF DELIVERABLE TO (Responsible Party or Designee): Anni Kremi	PHONE NO.: 510-420-3335
PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart		E-MAIL: ShellOaklandEDF@cambria-env.com	CONSULTANT PROJECT NO.: 02052244U3
TELEPHONE: 408-573-0555	FAX: 408-573-7771	E-MAIL: lgearhart@blainetech.com	
SAMPLER NAME(S) (PIN): <u>Michael Nowakata</u>			

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS):
 10 DAYS
 5 DAYS
 72 HOURS
 48 HOURS
 24 HOURS
 LESS THAN 24 HOURS

REQUESTED ANALYSIS

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

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

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (#021B - 5ppb RL)	MTBE (#260B - 0.5ppb RL)	Oxygenates (S) by (#260B)	Ethanol (#260B)	Methanol	1,2-DCA (#260B)	EDB (#260B)	TPH - Diesel, Extractable (#015m)										
		DATE	TIME																						
	MW-1	5/22/02	16K	W	3	X	X	X																	-01
	MW-2	↙	154	↙	↙	X	X	X																	-02
	MW-3	↙	1555	↙	↙	X	X	X																	-03
	MW-4	↙	1525	↙	↙	X	X	X																	-04

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 5/23/02	Time: 11:26
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) <i>John Cottle / Kiff Analytical</i>	Received by: (Signature)	Date: 052302	Time: 1126

WELL GAUGING DATA

Project # 010522-MN3

Date 5/22/02

Client Egura

Site 11989 Dublin Blvd., Dublin

98995328

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	4					5.55	19.78	S ↓
MW-2	4					20.59	32.53	
MW-3	4					20.75	32.65	
MW-4	2					23.96	35.20	

SHELL WELL MONITORING DATA SHEET

BTS #: 020522-MN3	Site: 98795328
Sampler: MDN	Date: 5/22/02
Well I.D.: MW-1	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: 19.78	Depth to Water: 19.78 5.55
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer	Water	Sampling Method: <input checked="" type="checkbox"/> Bailer
Disposable Bailer	Peristaltic	Disposable Bailer
Middleburg	Extraction Pump	Extraction Port
<input checked="" type="checkbox"/> Electric Submersible	Other _____	Dedicated Tubing

<u>9.2</u> (Gals.) X <u>3</u> = <u>27.6</u> Gals.			
1 Case Volume	Specified Volumes	Calculated Volume	

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

Time	Temp (°F)	pH pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1603	68.9	6.3	1158	7200	9.2	Light Brown, cloudy
1605	69.4	6.2	1148	199	18.4	" "
1607	69.0	6.2	1153	2200	27.6	" "

Did well dewater? Yes No Gallons actually evacuated: 27.6

Sampling Time: 1612 Sampling Date: 5/22/02

Sample I.D.: MW-1 Laboratory: Kiff SPL Other _____

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

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

* ~~for distributed information~~ ~~Start pH reading~~ 5

SHELL WELL MONITORING DATA SHEET

BTS #: <u>020522-MN3</u>	Site: <u>98995328</u>
Sampler: <u>MN</u>	Date: <u>5/22/02</u>
Well I.D.: <u>MN-2</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>32.53</u>	Depth to Water: <u>20.59</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer Disposable Bailer Middleburg Electric Submersible

Water: Peristaltic Extraction Pump Other _____

Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing

Other: _____

<u>7.8</u> (Gals.) X <u>3</u> = <u>23.4</u> Gals.	<table border="1" style="width: 100%; border-collapse: collapse;"> <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 * 0.63</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 * 0.63
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.63														
1 Case Volume	Specified Volumes	Calculated Volume															

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
<u>1532</u>	<u>70.3</u>	<u>6.0</u>	<u>1105</u>	<u>187</u>	<u>7.8</u>	<u>Cloudy</u>
<u>1535</u>	<u>70.0</u>	<u>6.0</u>	<u>1118</u>	<u>149</u>	<u>15.6</u>	<u>"</u>
<u>1536</u>	<u>69.7</u>	<u>6.0</u>	<u>1121</u>	<u>112</u>	<u>23.4</u>	<u>"</u>

Did well dewater? Yes No Gallons actually evacuated: 23.4

Sampling Time: 1541 Sampling Date: 5/22/02

Sample I.D.: MN-2 Laboratory: Kiff SPL Other _____

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

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 #: 020522-MNS	Site: 98995328
Sampler: MDA	Date: 5/22/02
Well I.D.: MW-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 32.65	Depth to Water: 20.75
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer	Waters Peristaltic	Sampling Method: <input checked="" type="checkbox"/> Bailer
Disposable Bailer	Extraction Pump	Disposable Bailer
Middleburg	Other _____	Extraction Port
<input checked="" type="checkbox"/> Electric Submersible		Dedicated Tubing
		Other: _____

$7.7 \text{ (Gals.)} \times 3 = 23.1 \text{ Gals.}$ <p>1 Case Volume Specified Volumes Calculated Volume</p>	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <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> </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 µS)	Turbidity (NTUs)	Gals. Removed	Observations
1547	68.7	6.1	1224	134	7.7	cloudy
1549	68.7	6.0	1224	120	15.2	"
1550	68.2	6.0	1239	89	23.1	clearing

Did well dewater? Yes No

Gallons actually evacuated: 23.1

Sampling Time: 1555 Sampling Date: 5/22/02

Sample I.D.: MW-3 Laboratory: Kiff SPL Other _____

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

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

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 020522-MN3	Site: 98995328
Sampler: MDA	Date: 5/22/02
Well I.D.: MW-4	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 35.20	Depth to Water: 23.96
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer Waterra Sampling Method: Bailer

Disposable Bailer Peristaltic Disposable Bailer
 Middleburg Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Other: _____

$1.8 \text{ (Gals.)} \times 3 = 5.4 \text{ Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <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> </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														
I Case Volume Specified Volumes Calculated Volume																	

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
1516	69.4	6.68	1006	> 200	1.8	Brown / Cloudy
1518	69.1	6.3	1009	> 200	3.6	" "
1520	69.1	6.2	1034	> 200	5.4	" "

Did well dewater? Yes No Gallons actually evacuated: 5.4

Sampling Time: 1525 Sampling Date: 5/22/02

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

Analyzed for: ~~TPH-G~~ ~~BTEX~~ ~~MTBE~~ TPH-D Other: _____

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

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

* Re calibrated ultra meter
 Suspect pH readings