

MARK BORSUK
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1626 Vallejo Street
San Francisco, CA 94123-5116
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August 2, 1997

Mr. Thomas Peacock
Supervising HMS, LOP
ACHCSA
1131 Harbor Bay Parkway
Alameda, CA 94501
(510) 567-6700 / FAX 337-9335
76325.3440@compuserve.com

SUBJECT: IIQ'97 Monitoring Report
1432 Harrison Street, Oakland, CA 94612
SITE ID 498

Dear Mr. Peacock:

Attached is the IIQ'97 report for groundwater monitoring at the above location.
If you have any questions, please contact me.

Sincerely yours,



Mark Borsuk

97 AUG -4 PM 4: 37
ENVIRONMENTAL
PROTECTION

**BLAINE
TECH SERVICES INC.**



July 30, 1997

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
(408) 573-7771 FAX
(408) 573-0555 PHONE

Mark Borsuk
1626 Vallejo Street
San Francisco, CA 94123-5116

*Benore & Hg -
seen to increase in
FW 1 - & MW - 2
see historical data.*

Site:
1432 Harrison Street
Oakland, California

Date:
June 27, 1997

GROUNDWATER SAMPLING REPORT 970627-X-2

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. does not participate in the interpretation of analytical results, or become involved with the marketing or installation of remedial systems.

This report deals with the groundwater well sampling performed by our firm in response to your request. Data collected in the course of our work at the site are presented in the TABLE OF WELL MONITORING DATA. This information was collected during our inspection and sample collection. Measurements include the total depth of the well and the depth to water. Water surfaces were further inspected for the presence of immiscibles. A series of electrical conductivity, pH, and temperature readings were obtained during sample collection.

STANDARD PRACTICES

Sampling Equipment

Samples were collected using bailers.

Bailers: A bailer, in its simplest form, is a hollow tube which has been fitted with a check valve at the lower end. The device can be lowered into a well by means of a cord. When the bailer enters the water, the check valve opens and liquid flows into the interior of the bailer. The bottom check valve prevents water from escaping when the bailer is drawn up and out of the well.

Two types of bailers are used in groundwater wells at sites where fuel hydrocarbons are of concern. The first type of bailer is made of a clear material such as acrylic plastic and is used to obtain a sample of the surface and the near surface liquids, in order to detect the presence of visible or measurable fuel hydrocarbon floating on the surface. The second type of bailer is made of Teflon or stainless steel and is used as an evacuation and/or sampling device.

Bailers are inexpensive and relatively easy to clean. Because they are manually operated, variations in operator technique may have a greater influence than would be found with more automated sampling equipment. Also where fuel hydrocarbons are involved, the bailer may include near surface contaminants that are not representative of water deeper in the well.

Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site.

Sampling Methodology

Samples were obtained by standardized sampling procedures that follow a non-purge sample collection protocol. The sampling methodology conforms to both State and Regional Water Quality Control Board standards for no purge sampling and specifically adheres to EPA requirements for apparatus, sample containers and sample handling as specified in publication SW 846 and T.E.G.D. which is published separately.

Sample Containers

Sample containers are supplied by the laboratory performing the analyses.

Sample Handling Procedures

Following collection, samples are promptly placed in an ice chest containing deionized ice or an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

Sample Designations

All sample containers are identified with both a sampling event number and a discrete sample identification number. Please note that the sampling event number is the number that appears on our chain of custody. It is roughly equivalent to a job number, but applies only to work done on a particular day of the year rather than spanning several days, as jobs and projects often do.

Chain of Custody

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under our standard chain of custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date and signature of person accepting custody of the samples).

Hazardous Materials Testing Laboratory

The samples obtained at this site were delivered to Legend Analytical Services in Santa Rosa, California. Legend is certified by the California Department of Health Services as a Hazardous Materials Testing Laboratory, and is listed as DOHS HMTL #1386.

Personnel

All Blaine Tech Services, Inc. personnel receive 29 CFR 1910.120(e)(2) training as soon after being hired as is practical. In addition, many of our personnel have additional certifications that include specialized training in level B supplied air apparatus and the supervision of employees working on hazardous materials sites. Employees are not sent to a site unless we are confident they can adhere to any site safety provisions in force at the site and unless we know that they can follow the written provisions of an SSP and the verbal directions of an SSO.

In general, employees sent to a site to perform groundwater well sampling will assume an OSHA level D (wet) environment exists unless otherwise informed. The use of gloves and double glove protocols protects both our employees and the integrity of the samples being collected. Additional protective gear and procedures for higher OSHA levels of protection are available.

Reportage

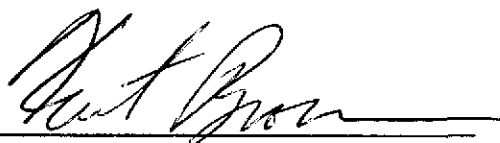
Submission to the Regional Water Quality Control Board and the local implementing agency should include copies of the sampling report, the chain of custody and the certified analytical report issued by the Hazardous Materials Testing Laboratory.

The following addresses have been listed here for your convenience:

Water Quality Control Board
San Francisco Bay Region
2101 Webster Street
Suite 500
Oakland, CA 94612
ATTN: Richard Hiatt

Oakland Fire Prevention Bureau
One City Hall Plaza
Oakland, CA 94612
ATTN: Stanley Y. Chi

Please call if we can be of any further assistance.



Kent Brown

KEB/ew

attachments: table of well monitoring data
certified professional report and gradient map
certified analytical report
chain of custody

cc: Scott MacLeod
Cambria Environmental Technology, Inc.
1144 65th St., Suite C
Oakland, CA 94608

TABLE OF WELL MONITORING DATA

Well I.D.	MW-1	MW-1	MW-1
Date Sampled	12/12/96	03/31/97	06/27/97
Well Diameter (in.)	4	4	4
Total Well Depth (ft.)	25.12	25.06	25.00
Depth To Water (ft.)	19.68	18.80	19.26
Free Product (in.)	NONE	NONE	NONE
Reason If Not Sampled	--	--	--
1 Case Volume (gal.)	3.5	NOT PURGED	NOT PURGED
Did Well Dewater?	NO	--	--
Gallons Actually Evacuated	11.0	--	--
Purging Device	ELECTRIC SUBMERSIBLE	NONE	NONE
Sampling Device	BAILER	BAILER	BAILER
Time	9:15	9:17	9:19
Temperature (Fahrenheit)	61.0	60.2	60.0
pH	7.2	7.3	7.3
Conductivity (micromhos/cm)	650	550	520
		420	400
BTS Chain of Custody	961212-J1	970331-Z3	970627-X2
BTS Sample I.D.	MW-1	MW-1	MW-1
DOHS HMTL Laboratory	NET	LEGEND	LEGEND
Analysis	TPH-GAS, BTEX & MTBE	TPH-GAS, BTEX & MTBE	TPH-GAS, BTEX & MTBE

SUMMARY OF CAR RESULTS in parts per billion unless otherwise noted
--

DOHS HMTL Laboratory	NET	LEGEND	LEGEND
Laboratory Sample I.D.	271140	274071	276433
TPH Gasoline	110,000	160,000	130,000
Benzene	36,000	24,000	25,000
Toluene	47,000	39,000	36,000
Ethyl Benzene	2,500	1,900	2,000
Xylene Isomers	16,000	13,000	14,000
Methyl-tert-butyl ether	ND	ND	ND

In the interest of clarity, an addendum has been added to the TABLE which lists analytical results in such a way that our field observations are presented together with the analytical results. This addendum is entitled a **SUMMARY OF CAR RESULTS**. As indicated by the title, the source documents for these numbers are the laboratory's certified analytical reports. These **certified analytical reports (CARs)** are generated by the laboratory as the sole official documents in which they issue their findings. Any discrepancy between the CAR and a tabular or text presentation of analytical values must be decided in favor of the CAR on the grounds that the CAR is the authoritative legal document.

TABLE OF WELL MONITORING DATA

Well I.D.	MW-2	MW-2	MW-2
Date Sampled	12/12/96	03/31/97	06/27/97
Well Diameter (in.)	2	2	2
Total Well Depth (ft.)	25.83	25.84	25.57
Depth To Water (ft.)	20.17	19.67	19.68
Free Product (in.)	NONE	NONE	NONE
Reason If Not Sampled	--	--	--
1 Case Volume (gal.)	0.90	NOT PURGED	NOT PURGED
Did Well Dewater?	NO	--	--
Gallons Actually Evacuated	3.0	--	--
Purging Device	BAILER	NONE	NONE
Sampling Device	BAILER	BAILER	BAILER
Time	9:40	9:42	9:45
Temperature (Fahrenheit)	65.2	63.8	63.2
pH	7.4	7.3	7.3
Conductivity (micromhos/cm)	1000	1000	1000
BTS Chain of Custody	961212-J1	970331-23	970627-X2
BTS Sample I.D.	MW-2	MW-2	MW-2
DOHS HMTL Laboratory	NET	LEGEND	LEGEND
Analysis	TPH-GAS & BTEX	TPH-GAS, BTEX & MTBE	TPH-GAS, BTEX & MTBE

SUMMARY OF CAR RESULTS in parts per billion unless otherwise noted
--

DOHS HMTL Laboratory	NET	LEGEND	LEGEND
Laboratory Sample I.D.	271141	274072	276434
TPH Gasoline	58,000	38,000	62,000
Benzene	3,100	6,000	13,000
Toluene	11,000	7,900	16,000
Ethyl Benzene	1,700	690	1,300
Xylene Isomers	8,100	3,300	6,000
Methyl-tert-butyl ether	220	ND	ND/ND*

* MTBE confirmed by EPA 8260.

TABLE OF WELL MONITORING DATA

Well I.D.	MW-3	MW-3	MW-3
Date Sampled	12/12/96	03/31/97	06/27/97
Well Diameter (in.)	2	2	2
Total Well Depth (ft.)	24.00	23.90	23.87
Depth To Water (ft.)	18.61	18.35	18.81
Free Product (in.)	NONE	NONE	NONE
Reason If Not Sampled	GAUGE ONLY	GAUGE ONLY	GAUGE ONLY
1 Case Volume (gal.)			
Did Well Dewater?			
Gallons Actually Evacuated			
Purging Device			
Sampling Device			
Time			
Temperature (Fahrenheit)			
pH			
Conductivity (micromhos/cm)			
BTS Chain of Custody			
BTS Sample I.D.			
DOHS HMTL Laboratory			
Analysis			

TABLE OF WELL MONITORING DATA

Well I.D.	MW-4		MW-4		MW-4
Date Sampled	12/12/96		03/31/97		06/27/97
Well Diameter (in.)	2		2		2
Total Well Depth (ft.)	24.85		24.84		24.78
Depth To Water (ft.)	19.42		18.67		19.08
Free Product (in.)	NONE		NONE		NONE
Reason If Not Sampled	--		--		--
1 Case Volume (gal.)	0.86		NOT PURGED		NOT PURGED
Did Well Dewater?	NO		--		--
Gallons Actually Evacuated	3.0		--		--
Purging Device	BAILER		NONE		NONE
Sampling Device	BAILER		BAILER		BAILER
Time	8:20	8:22	8:25	13:44	14:22
Temperature (Fahrenheit)	64.8	64.6	64.6	65.8	68.0
pH	7.4	7.2	7.2	7.4	7.2
Conductivity (micromhos/cm)	1000	1000	1000	560	480
BTS Chain of Custody	961212-J1		970331-Z3		970627-X2
BTS Sample I.D.	MW-4		MW-4		MW-4
DOHS HMTL Laboratory	NET		LEGEND		LEGEND
Analysis	TPH-GAS, BTEX & MTBE		TPH-GAS, BTEX & MTBE		TPH-GAS, BTEX & MTBE

SUMMARY OF CAR RESULTS in parts per billion unless otherwise noted

DOHS HMTL Laboratory	NET	LEGEND	LEGEND
Laboratory Sample I.D.	271142	274073	276435
TPH Gasoline	11,000	ND	160
Benzene	4,200	ND	49
Toluene	410	ND	1.2
Ethyl Benzene	420	ND	ND
Xylene Isomers	260	ND	5.9
Methyl-tert-butyl ether	32	ND	ND

TABLE OF WELL MONITORING DATA

Well I.D.	MW-5		MW-5		MW-5
Date Sampled	12/12/96		03/31/97		06/27/97.
Well Diameter (in.)	2		2		2
Total Well Depth (ft.)	28.90		28.86		28.72
Depth To Water (ft.)	20.09		19.24		19.16
Free Product (in.)	NONE		NONE		NONE
Reason If Not Sampled	--		--		--
1 Case Volume (gal.)	1.4		NOT PURGED		NOT PURGED
Did Well Dewater?	NO		--		--
Gallons Actually Evacuated	4.5		--		--
Purging Device	BAILER		NONE		NONE
Sampling Device	BAILER		BAILER		BAILER
Time	8:00	8:03	8:06	13:24	14:08
Temperature (Fahrenheit)	61.4	61.4	61.2	63.4	69.8
pH	7.6	7.6	7.6	7.4	7.4
Conductivity (micromhos/cm)1000		790	770	700	720
BTS Chain of Custody	961212-J1		970331-23		970627-X2
BTS Sample I.D.	MW-5		MW-5		MW-5
DOHS HMTL Laboratory	NET		LEGEND		LEGEND
Analysis	TPH-GAS, BTEX & MTBE		TPH-GAS, BTEX & MTBE		TPH-GAS, BTEX & MTBE

S U M M A R Y O F C A R R E S U L T S in parts per billion unless otherwise noted

DOHS HMTL Laboratory	NET	LEGEND	LEGEND
Laboratory Sample I.D.	271143	274074	276436
TPH Gasoline	230	90	ND
Benzene	5.6	3.1	ND
Toluene	0.9	ND	ND
Ethyl Benzene	ND	ND	ND
Xylene Isomers	0.9	ND	ND
Methyl-tert-butyl ether	3.6	ND	ND

TABLE OF WELL MONITORING DATA

Well I.D.	MW-6	MW-6	MW-6
Date Sampled	12/12/96	03/31/97	06/27/97
Well Diameter (in.)	2	2	2
Total Well Depth (ft.)	28.45	28.42	28.28
Depth To Water (ft.)	20.18	19.81	19.76
Free Product (in.)	NONE	--	--
Reason If Not Sampled	--	GAUGE ONLY	GAUGE ONLY
1 Case Volume (gal.)	1.3		
Did Well Dewater?	NO		
Gallons Actually Evacuated	4.0		
Purging Device	BAILER		
Sampling Device	BAILER		
Time	8:50	8:54	8:57
Temperature (Fahrenheit)	63.6	63.2	63.4
pH	7.2	7.2	7.1
Conductivity (micromhos/cm)	1000	1000	1000
BTS Chain of Custody	961212-J1		
BTS Sample I.D.	MW-6		
DOHS HMTL Laboratory	NET		
Analysis	TPH-GAS, BTEX & MTBE		

S U M M A R Y O F C A R R E S U L T S in parts per billion unless otherwise noted

DOHS HMTL Laboratory	NET
Laboratory Sample I.D.	271144
TPH Gasoline	ND
Benzene	ND
Toluene	ND
Ethyl Benzene	ND
Xylene Isomers	ND
Methyl-tert-butyl ether	ND



July 22, 1997

Kent Brown
Blaine Tech Services
1680 Rogers Ave.
San Jose, CA 95112

Re: **Second Quarter 1997 Monitoring Report**
1432 Harrison Street
Oakland, California

Dear Mr. Brown:

As you requested, Cambria Environmental Technology, Inc. (Cambria) has summarized the results of the second quarter 1997 ground water sampling at the site referenced above. Presented below are sampling activities performed in the second quarter of 1997, the anticipated third quarter 1997 activities, and the hydrocarbon distribution in ground water.

SECOND QUARTER 1997 ACTIVITIES

Ground Water Sampling: On June 27, 1997, Blaine Tech Services (Blaine) gauged all site wells and collected ground water samples from site wells MW-1, MW-2, MW-4, and MW-5. No sampling of site wells MW-3 and MW-6 is required at this time. Ground water elevations are shown on Figure 1.

ANTICIPATED THIRD QUARTER 1997 ACTIVITIES

Ground Water Sampling: Blaine will gauge all site wells and collect ground water samples from wells MW-1, MW-2, MW-4, and MW-5. Cambria will prepare a ground water monitoring report summarizing the sampling data.

HYDROCARBON DISTRIBUTION IN GROUND WATER

Ground water analytic data suggest that hydrocarbon concentrations are highest in wells MW-1 and MW-2, which are located near the former underground storage tank area. The crossgradient horizontal extent is defined to below or near method detection limits by wells MW-3 and MW-5. The southwest extent is defined by MW-6, in which no hydrocarbons were detected during the fourth quarter 1996 sampling event. Hydrocarbon concentrations in well MW-4 have decreased from 11,000 ppb TPHg and 4,200 ppb benzene during fourth quarter 1996, when the well was installed, to 160 ppb TPHg and 69 ppb benzene during the most recent sampling event. Continued monitoring of well MW-4 will assess whether the northeast hydrocarbon extent is fully defined.

CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.

1144 65TH STREET,

SUITE B

OAKLAND,

CA 94608

(510) 420-0700

FAX: (510) 420-9170

Kent Brown
July 22, 1997

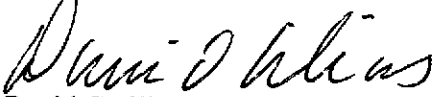
CAMBRIA

We appreciate this opportunity to provide environmental consulting services to Blaine Tech Services. Please call if you have any questions or comments.

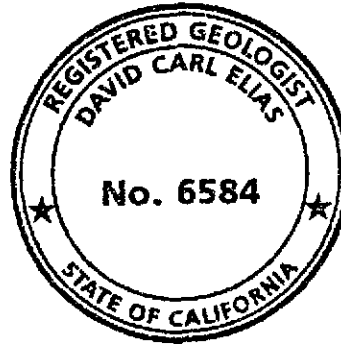
Sincerely,
Cambria Environmental Technology, Inc.



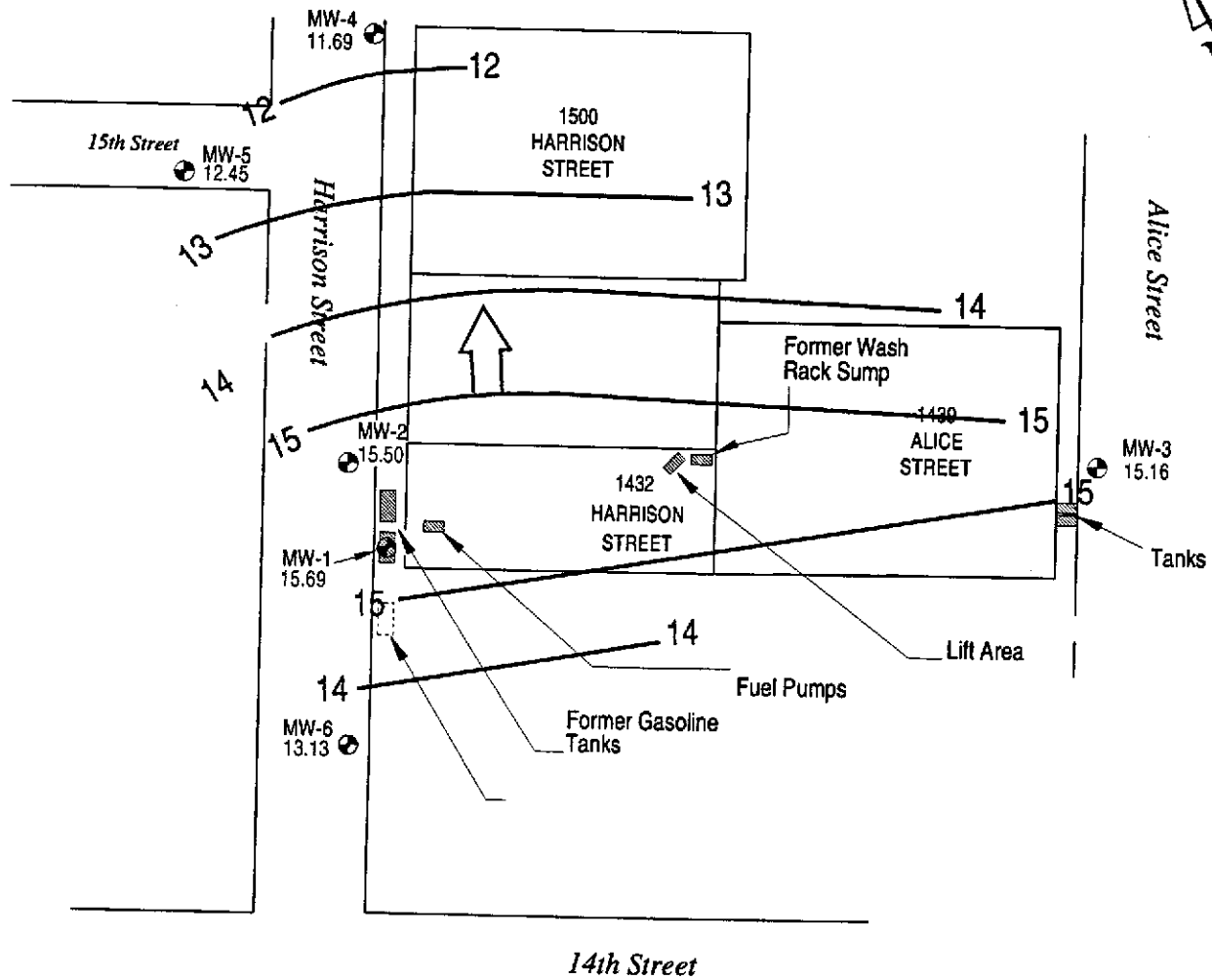
Maureen D. Feineman
Staff Geologist



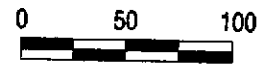
David C. Elias, R.G.
Project Geologist



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EXPLANATION	
● MW-3	Ground Water Monitoring Well
xx.xx	Ground Water Elevation, Feet Above Mean Sea Level (msl)
—	Ground Water Contour, Feet Above Mean Sea Level (msl), Dashed Where Inferred
→	Ground Water Flow Direction



NOTE: Wells MW-4, MW-5, and MW-6 installed in October, 1996.

<p>CAMBRIA Environmental Technology, Inc.</p>	<p>1432 Harrison Street Oakland, California</p> <p>F:\PROJECTS\2004\OAKL-188\FIGURES\20M87-MP.DWG</p>	<p>Ground Water Elevation Contours June 27, 1997</p>	<p>FIGURE 1</p>
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LEGEND

Analytical Services

3636 N. Laughlin Road, Suite 110 Santa Rosa, California 95403 707.526.7200 Fax 707.541.2333 E-Mail: info@legendlab.com

Kent Brown
Blaine Tech Services
1680 Rogers Ave.
San Jose, CA 95112

Date: 07/10/1997
LEGEND Client Acct. No: 43200
LEGEND Job No: 97.01208
Received: 07/01/1997

Client Reference Information

Mark Borsuk/970627-X2

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Facsimile transmission of this report is non-confidential. If received in error, please contact sender immediately at the number listed and return the information to us by mail. Please refer to the enclosed "Key to Result Flags" for definition of terms. Should you have questions regarding procedures or results, please feel free to call me at (707) 541-2313.

Submitted by:



Ned Engleson
Project Manager

Enclosure(s)

Client Name: Blaine Tech Services
Client Acct: 43200
LEGEND Job No: 97.01208

Date: 07/10/1997
ELAP Cert: 2193
Page: 2

Ref: Mark Borsuk/970627-X2

SAMPLE DESCRIPTION: MW-1
Date Taken: 06/27/1997
Time Taken: 14:47
LEGEND Sample No: 276433

Parameter	Results	Flags	Reporting			Date	Date	Run
			Limit	Units	Method	Extracted	Analyzed	Batch
No.								
TPH (Gas/BTEX, Liquid)								
5030/M8015	--						07/03/1997	3866
DILUTION FACTOR*	100						07/03/1997	3866
as Gasoline	130		5.0	mg/L	5030		07/03/1997	3866
8020 (GC, Liquid)								
Benzene	25,000	FI	500	ug/L	8020		07/09/1997	3867
Toluene	36,000	FI	500	ug/L	8020		07/09/1997	3867
Ethylbenzene	2,000		50	ug/L	8020		07/03/1997	3866
Xylenes (Total)	14,000		50	ug/L	8020		07/03/1997	3866
Methyl-tert-butyl ether	ND		200	ug/L	8020		07/03/1997	3866
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	101			% Rec.	5030		07/03/1997	3866

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blaine Tech Services
Client Acct: 43200
LEGEND Job No: 97.01208

Date: 07/10/1997
ELAP Cert: 2193
Page: 3

Ref: Mark Borsuk/970627-X2

SAMPLE DESCRIPTION: MW-2
Date Taken: 06/27/1997
Time Taken: 14:34
LEGEND Sample No: 276434

Parameter	Results	Flags	Reporting			Date	Date	Run
			Limit	Units	Method	Extracted	Analyzed	Batch
TPH (Gas/BTXE,Liquid)								
5030/M8015	--						07/03/1997	3866
DILUTION FACTOR*	100						07/03/1997	3866
as Gasoline	62		5.0	mg/L	5030		07/03/1997	3866
8020 (GC,Liquid)	--						07/03/1997	3866
Benzene	13,000	FI	500	ug/L	8020		07/09/1997	3867
Toluene	16,000	FI	500	ug/L	8020		07/09/1997	3867
Ethylbenzene	1,300		50	ug/L	8020		07/03/1997	3866
Xylenes (Total)	6,000		50	ug/L	8020		07/03/1997	3866
Methyl-tert-butyl ether	ND		200	ug/L	8020		07/03/1997	3866
SURROGATE RESULTS	--						07/03/1997	3866
Bromofluorobenzene (SURR)	95			% Rec.	5030		07/03/1997	3866

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blaine Tech Services
Client Acct: 43200
LEGEND Job No: 97.01208

Date: 07/10/1997
ELAP Cert: 2193
Page: 4

Ref: Mark Borsuk/970627-X2

SAMPLE DESCRIPTION: MW-2
Date Taken: 06/27/1997
Time Taken: 14:34
LEGEND Sample No: 276434

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
8260 (GCMS, Liquid)								
DILUTION FACTOR*	10	MI					07/08/1997	2
Methyl-tert-butyl ether	ND		20	ug/L	8260		07/08/1997	2
SURROGATE RESULTS	--						07/08/1997	2
4-Bromofluorobenzene (SURR)	102			% Rec.	8260		07/08/1997	2
Toluene-d8 (SURR)	88			% Rec.	8260		07/08/1997	2
1,2-Dichloroethane-d4 (SURR)	96			% Rec.	8260		07/08/1997	2

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blaine Tech Services
Client Acct: 43200
LEGEND Job No: 97.01208

Date: 07/10/1997
ELAP Cert: 2193
Page: 5

Ref: Mark Borsuk/970627-X2

SAMPLE DESCRIPTION: MW-4
Date Taken: 06/27/1997
Time Taken: 14:20
LEGEND Sample No: 276435

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
TPH (Gas/BTEX, Liquid)								
5030/M8015	--						07/03/1997	3866
DILUTION FACTOR*	1						07/03/1997	3866
as Gasoline	0.16		0.050	mg/L	5030		07/03/1997	3866
8020 (GC, Liquid)	--						07/03/1997	3866
Benzene	49		0.50	ug/L	8020		07/03/1997	3866
Toluene	1.2		0.50	ug/L	8020		07/03/1997	3866
Ethylbenzene	ND		0.50	ug/L	8020		07/03/1997	3866
Xylenes (Total)	5.9		0.50	ug/L	8020		07/03/1997	3866
Methyl-tert-butyl ether	ND		2.0	ug/L	8020		07/03/1997	3866
SURROGATE RESULTS	--						07/03/1997	3866
Bromofluorobenzene (SURR)	91			% Rec.	5030		07/03/1997	3866

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Ref: Mark Borsuk/970627-X2

SAMPLE DESCRIPTION: MW-5
Date Taken: 06/27/1997
Time Taken: 14:04
LEGEND Sample No: 276436

Parameter	Results	Flags	Reporting			Date	Date	Run
			Limit	Units	Method	Extracted	Analyzed	Batch
TPH (Gas/BTEX, Liquid)								
5030/M8015	--						07/03/1997	3866
DILUTION FACTOR*	1						07/03/1997	3866
as Gasoline	ND		0.050	mg/L	5030		07/03/1997	3866
8020 (GC, Liquid)								
Benzene	ND		0.50	ug/L	8020		07/03/1997	3866
Toluene	ND		0.50	ug/L	8020		07/03/1997	3866
Ethylbenzene	ND		0.50	ug/L	8020		07/03/1997	3866
Xylenes (Total)	ND		0.50	ug/L	8020		07/03/1997	3866
Methyl-tert-butyl ether	ND		2.0	ug/L	8020		07/03/1997	3866
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	93			‡ Rec.	5030		07/03/1997	3866

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CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard % Recovery	Standard Amount Found	Standard Amount Expected					
TPH (Gas/BTXE,Liquid)								
as Gasoline	101.4	0.507	0.50		mg/L	07/03/1997	aal	3866
Benzene	93.4	18.68	20.0		ug/L	07/03/1997	aal	3866
Toluene	93.3	18.65	20.0		ug/L	07/03/1997	aal	3866
Ethylbenzene	100.9	20.18	20.0		ug/L	07/03/1997	aal	3866
Xylenes (Total)	98.0	58.81	60.0		ug/L	07/03/1997	aal	3866
Methyl-tert-butyl ether	99.5	79.58	80.0		ug/L	07/03/1997	aal	3866
Bromofluorobenzene (SURR)	87.0	87	100		% Rec.	07/03/1997	aal	3866
TPH (Gas/BTXE,Liquid)								
as Gasoline	98.8	0.494	0.50		mg/L	07/09/1997	cjy	3867
Benzene	93.2	18.63	20.0		ug/L	07/09/1997	cjy	3867
Toluene	94.9	18.98	20.0		ug/L	07/09/1997	cjy	3867
Ethylbenzene	97.0	19.39	20.0		ug/L	07/09/1997	cjy	3867
Xylenes (Total)	96.6	57.93	60.0		ug/L	07/09/1997	cjy	3867
Methyl-tert-butyl ether	93.2	74.54	80.0		ug/L	07/09/1997	cjy	3867
Bromofluorobenzene (SURR)	97.0	97	100		% Rec.	07/09/1997	cjy	3867

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

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Client Acct: 43200
LEGEND Job No: 97.01208

Date: 07/10/1997
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CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard % Recovery	Standard Amount Found	Standard Amount Expected					
8260 (GCMS, Liquid)								
Methyl-tert-butyl ether	216.0	108	50.0		ug/L	07/08/1997	jde	2
4-Bromofluorobenzene (SURR)	104.0	104	100		% Rec.	07/08/1997	jde	2
Toluene-d8 (SURR)	97.0	97	100		% Rec.	07/08/1997	jde	2
1,2-Dichloroethane-d4 (SURR)	98.0	98	100		% Rec.	07/08/1997	jde	2

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METHOD BLANK REPORT

Parameter	Method	Reporting	Flags	Units	Date	Analyst	Run
	Blank						
	Found	Limit			Analyzed	Initials	Number
TPH (Gas/BTXE,Liquid)							
as Gasoline	ND	0.050		mg/L	07/03/1997	aal	3866
Benzene	ND	0.50		ug/L	07/03/1997	aal	3866
Toluene	ND	0.50		ug/L	07/03/1997	aal	3866
Ethylbenzene	ND	0.50		ug/L	07/03/1997	aal	3866
Xylenes (Total)	ND	0.50		ug/L	07/03/1997	aal	3866
Methyl-tert-butyl ether	ND	2.0		ug/L	07/03/1997	aal	3866
Bromofluorobenzene (SURR)	91			% Rec.	07/03/1997	aal	3866
TPH (Gas/BTXE,Liquid)							
as Gasoline	ND	0.050		mg/L	07/09/1997	cjy	3867
Benzene	ND	0.50		ug/L	07/09/1997	cjy	3867
Toluene	ND	0.50		ug/L	07/09/1997	cjy	3867
Ethylbenzene	ND	0.50		ug/L	07/09/1997	cjy	3867
Xylenes (Total)	ND	0.50		ug/L	07/09/1997	cjy	3867
Methyl-tert-butyl ether	ND	2.0		ug/L	07/09/1997	cjy	3867
Bromofluorobenzene (SURR)	101			% Rec.	07/09/1997	cjy	3867

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Client Acct: 43200
LEGEND Job No: 97.01208

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METHOD BLANK REPORT

Parameter	Method	Reporting	Flags	Units	Date	Analyst	Run
	Blank						
8260 (GCMS, Liquid)	Blank	Found					
Methyl-tert-butyl ether	ND	2.0		ug/L	07/08/1997	jde	2
4-Bromofluorobenzene (SURR)	102			% Rec.	07/08/1997	jde	2
Toluene-d8 (SURR)	96			% Rec.	07/08/1997	jde	2
1,2-Dichloroethane-d4 (SURR)	96			% Rec.	07/08/1997	jde	2

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike			Spike Amount	Sample Conc.	Matrix Spike Dup.		Flags	Units	Date Analyzed	Run Batch	Sample Spiked
	Matrix Spike % Rec.	Spike Dup % Rec.	RPD			Matrix Spike Conc.	Matrix Spike Dup. Conc.					
TPH (Gas/BTXE,Liquid)												276458
as Gasoline	100.6	98.2	2.3	0.50	ND	0.503	0.491		mg/L	07/03/1997	3866	276458
Benzene	99.6	98.2	1.4	7.35	ND	7.32	7.22		ug/L	07/03/1997	3866	276458
Toluene	99.7	99.0	0.7	35.53	ND	35.43	35.19		ug/L	07/03/1997	3866	276458
Bromofluorobenzene (SURR)	98.0	99.0	1.0	100	97	98	99		% Rec.	07/03/1997	3866	276458
TPH (Gas/BTXE,Liquid)												276595
as Gasoline	97.8	97.0	0.8	0.50	ND	0.489	0.485		mg/L	07/09/1997	3867	276595
Benzene	102.1	95.9	6.2	4.35	ND	4.44	4.17		ug/L	07/09/1997	3867	276595
Toluene	105.9	100.9	4.8	38.57	ND	40.83	38.92		ug/L	07/09/1997	3867	276595
Bromofluorobenzene (SURR)	105.0	107.0	1.9	100	102	105	107		% Rec.	07/09/1997	3867	276595

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

KEY TO ABBREVIATIONS

- VS : Initial Calibration Verification Standard (External Standard).
- an : Average; sum of measurements divided by number of measurements.
- /Kg : Concentration in units of milligrams of analyte per kilogram of sample.
- /L : Concentration in units of milligrams of analyte per liter of sample.
- /L/hr : Milliliters per liter per hour.
- PN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- A : Not applicable.
- : Not analyzed.
- : Not detected.
- U : Nephelometric turbidity units.
- D : Relative percent difference.
- NA : Standard not available.
- /Kg : Concentration in units of micrograms of analyte per kilogram of sample.
- /L : Concentration in units of micrograms of analyte per liter of sample.
- ohm/cm : Micromhos per centimeter.