

ENVIRONMENTAL
PROTECTION
98 NOV 31 AM 9:39

Mark Borsuk
Attorney at Law
mborsuk@ix.netcom.com
(415) 922-4740 / Fax 922-1485
1626 Vallejo Street
San Francisco, CA 94123-5116

November 26 1998

Mr. Thomas Peacock
Supervising HMS, LOP
ACHCSA
1131 Harbor Bay Parkway
Alameda, CA 94501
(510) 567-6700 / FAX 337-9335
tpeacock@co.alameda.ca.us

SUBJECT: **Revised** IIIQ'98 Monitoring Report
1432 Harrison Street, Oakland, CA 94612
SITE ID 498

Dear Mr. Peacock:

Blaine Tech's report for the IIIQ'98 groundwater monitoring dated September 18, 1998 incorrectly stated MW-1's data. Attached are the correct readings. The table below summarizes the data. If you have a question, please contact me.

MW-1	9/18/98	Revised 9/18/98
TPH-G	1,900	190,000
Benzene	290	29,000
Toluene	480	48,000
Ethyl- Benzene	24	2,400
Xylene	170	17,000
MTBE	--	--
Motor Oil	--	--

Sincerely yours,



Mark Borsuk

BLAINE
TECH SERVICES INC.



1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE

November 16, 1998

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

Re: 1432 Harrison St., Oakland, CA

Dear Mr. Borsuk,

Please find attached the amended pages to the Third Quarter 1998 sampling report 980918-K-2 for the site listed above. Please replace the existing pages with the amended pages.

If you have any questions or comments, I can be reached at (408) 573-0555, ext. 200.

Sincerely,

A handwritten signature in black ink, appearing to read "William R. Jones".

William R. Jones
Project Coordinator

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

ENVIRONMENTAL
PROTECTION

98 NOV 16 PM 4: 27

Mark Borsuk
Attorney at Law
mborsuk@ix.netcom.com
(415) 922-4740 / Fax 922-1485
1626 Vallejo Street
San Francisco, CA 94123-5116

November 14, 1998

Mr. Thomas Peacock
Supervising HMS, LOP
ACHCSA
1131 Harbor Bay Parkway
Alameda, CA 94501
(510) 567-6700 / FAX 337-9335
tpeacock@co.alameda.ca.us

SUBJECT: IIIQ'98 Monitoring Report
1432 Harrison Street, Oakland, CA 94612
SITE ID 498

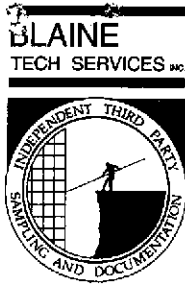
Dear Mr. Peacock:

Attached is the IIIQ'98 groundwater monitoring report for the above location. If you have a question regarding the data, please contact me.

Sincerely yours,



Mark Borsuk



1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE

November 10, 1998

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

Site:
1432 Harrison Street
Oakland, California

Date:
September 18, 1998

GROUNDWATER SAMPLING REPORT 980918-K-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, turbidity, and temperature readings were obtained during sample collection.

STANDARD PRACTICES

Sampling Equipment

Samples were collected using disposable 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 and/or solvents 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 polyethylene, Teflon, or stainless steel, and is used as an evacuation and/or sampling device. Disposable bailers are made of polyethylene plastic, decontaminated by the manufacturer, individually packaged for one-time only use, and are inexpensive. Teflon and stainless steel bailers are relatively easy to clean and are considered reusable with proper decontamination.

Because bailers are manually operated, variations in operator technique may have a greater influence on performance than would be found when using more automated sampling equipment. Also, in cases where fuel hydrocarbons are involved the bailer may include near-surface contaminants that are not representative of water located 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 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 Sequoia Analytical Services in Redwood City, California. Sequoia is certified by the California Department of Health Services as a Hazardous Materials Testing Laboratory, and is listed as DOHS HMTL #1210.

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: Chuck Headlee

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.



William Jones

WRJ/mc

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

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

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Motor Oil
MW-1											
12/21/94	34.95	15.42	19.53	--	180,000	41,000	64,000	3,100	100,000	--	--
03/13/95	34.95	16.29	18.66	--	150,000	31,000	45,000	2,500	17,000	--	--
06/27/95	34.95	16.75	18.20	--	71,000	17,000	18,000	1,600	7,700	--	--
07/07/95	34.95	16.60	18.35	Gauge Only	--	--	--	--	--	--	--
09/28/95	34.95	16.75	18.20	--	110,000	27,000	34,000	1,700	14,000	--	--
12/20/95	34.95	14.99	19.96	--	120,000	33,000	43,000	2,300	15,000	--	--
03/26/96	34.95	15.68	19.27	*	140,000	29,000	36,000	1,900	13,000	ND	--
06/20/96	34.95	16.31	18.64	*	110,000	30,000	38,000	2,200	13,000	ND	--
09/26/96	34.95	15.60	19.35	**	170,000	28,000	40,000	2,200	15,000	ND	--
10/28/96	34.95	15.37	19.58	Gauge Only	--	--	--	--	--	--	--
12/12/96	34.95	15.27	19.68	*	110,000	36,000	47,000	2,500	16,000	ND	--
03/31/97	34.95	16.15	18.80	*	160,000	24,000	39,000	1,900	13,000	ND	--
06/27/97	34.95	15.69	19.26	*	130,000	25,000	36,000	2,000	14,000	ND	--
09/09/97	34.95	15.25	19.70	*	99,000	22,000	27,000	1,600	13,000	270	--
12/18/97	34.95	15.70	19.25	***	160,000	30,000	44,000	2,200	15,000	ND	--
03/12/98	34.95	17.43	17.52	***	190,000	20,000	49,000	2,500	18,000	ND	--
06/22/98	34.95	16.32	18.63	--	90,000	19,000	40,000	2,100	16,000	--	--
09/18/98	34.95	16.35	18.60	--	190,000	29,000	48,000	2,400	17,000	--	--

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Motor Oil
MW-2											
12/21/94	35.18	15.27	19.91	--	200,000	140,000	200,000	3,500	22,000	--	--
03/13/95	35.18	16.03	19.15	--	500,000	9,200	23,000	7,000	36,000	--	--
06/27/95	35.18	16.44	18.74	--	120,000	23,000	30,000	2,700	13,000	--	--
07/07/95	35.18	16.38	18.80	Gauge Only	--	--	--	--	--	--	--
09/28/95	35.18	15.88	19.30	--	110,000	23,000	29,000	2,500	11,000	--	--
12/20/95	35.18	14.94	20.24	--	83,000	980	1,800	2,200	10,000	--	--
03/26/96	35.18	15.49	19.69	*	150,000	23,000	32,000	2,800	12,000	ND	--
06/20/96	35.18	20.98	14.20	*	94,000	15,000	23,000	2,400	12,000	ND	--
09/26/96	35.18	15.38	19.80	**	150,000	20,000	29,000	2,800	12,000	ND	--
10/28/96	35.18	15.00	20.18	Gauge Only	--	--	--	--	--	--	--
12/12/96	35.18	15.01	20.17	*	58,000	3,100	11,000	1,700	8,100	220	--
03/31/97	35.18	15.51	19.67	*	38,000	6,000	7,900	690	3,300	ND	--
06/27/97	35.18	15.50	19.68	*	62,000	13,000	16,000	1,300	6,000	ND	--
09/09/97	35.18	14.98	20.20	***	81,000	16,000	18,000	1,800	8,600	ND	--
12/18/97	35.18	15.38	19.80	***	110,000	18,000	26,000	2,200	9,500	ND	--
03/12/98	35.18	17.11	18.07	***	120,000	16,000	26,000	2,200	9,400	ND	--
06/22/98	35.18	16.89	18.29	--	38,000	9,800	9,500	1,500	6,000	--	--
09/18/98	35.18	16.09	19.09	--	68,000	12,000	16,000	1,400	5,900	--	--

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Motor Oil
MW-3											
12/21/94	33.97	15.15	18.82	--	ND	ND	ND	ND	ND	--	ND
03/13/95	33.97	16.11	17.86	--	ND	ND	ND	ND	ND	--	ND
07/07/95	33.97	15.72	18.25	Gauge Only	--	--	--	--	--	--	--
09/28/95	33.97	15.97	18.00	Gauge Only	--	--	--	--	--	--	--
12/20/95	33.97	15.23	18.74	Gauge Only	--	--	--	--	--	--	--
03/26/96	33.97	15.72	18.25	Gauge Only	--	--	--	--	--	--	--
06/20/96	33.97	15.62	18.35	Gauge Only	--	--	--	--	--	--	--
09/26/96	33.97	14.85	19.12	Gauge Only	--	--	--	--	--	--	--
10/28/96	33.97	14.86	19.11	Gauge Only	--	--	--	--	--	--	--
12/12/96	33.97	15.36	18.61	Gauge Only	--	--	--	--	--	--	--
03/31/97	33.97	15.62	18.35	Gauge Only	--	--	--	--	--	--	--
06/27/97	33.97	15.16	18.81	Gauge Only	--	--	--	--	--	--	--
09/09/97	33.97	14.79	19.18	Gauge Only	--	--	--	--	--	--	--
12/18/97	33.97	15.33	18.64	Gauge Only	--	--	--	--	--	--	--
03/12/98	33.97	16.41	17.56	Gauge Only	--	--	--	--	--	--	--
06/22/98	33.97	15.33	18.64	Gauge Only	--	--	--	--	--	--	--
09/18/98	33.97	15.64	18.33	Gauge Only	--	--	--	--	--	--	--
MW-4											
10/28/96	30.77	11.45	19.32	--	NA	NA	NA	NA	NA	NA	--
12/12/96	30.77	11.35	19.42	*	11,000	4,200	410	420	260	32	--
03/31/97	30.77	12.10	18.67	*	ND	ND	ND	ND	ND	ND	--
06/27/97	30.77	11.69	19.08	*	160	49	1.2	ND	5.9	ND	--
09/09/97	30.77	11.44	19.33	*	7,400	5,000	410	230	470	33	--
12/18/97	30.77	11.60	19.17	***	710	170	8.0	ND	39	ND	--
03/12/98	30.77	13.09	17.68	***	1,300	410	21	ND	57	ND	--
06/22/98	30.77	13.14	17.63	--	ND	ND	ND	ND	ND	--	--
09/18/98	30.77	12.19	18.58	--	ND	42	1.6	ND	4.8	--	--

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Motor Oil
MW-5											
10/28/96	31.61	11.73	19.88	--	NA	NA	NA	NA	NA	NA	--
12/12/96	31.61	11.52	20.09	*	230	5.6	0.9	ND	0.9	3.6	--
03/31/97	31.61	12.37	19.24	*	90	3.1	ND	ND	ND	ND	--
06/27/97	31.61	12.45	19.16	*	ND	ND	ND	ND	ND	ND	--
09/09/97	31.61	11.68	19.93	*	ND	ND	ND	ND	ND	ND	--
12/18/97	31.61	11.84	19.77	***	ND	ND	ND	ND	ND	ND	--
03/12/98	31.61	11.84	19.77	*	79	2.3	ND	0.8	ND	ND	--
06/22/98	31.61	13.53	18.08	--	ND	ND	ND	ND	ND	--	--
09/18/98	31.61	12.49	19.12	--	ND	ND	ND	ND	ND	--	--
MW-6											
10/28/96	32.89	12.87	20.02	--	NA	NA	NA	NA	NA	NA	--
12/12/96	32.89	12.71	20.18	*	ND	ND	ND	ND	ND	ND	--
03/31/97	32.89	13.08	19.81	Gauge Only	--	--	--	--	--	--	--
06/27/97	32.89	13.13	19.76	Gauge Only	--	--	--	--	--	--	--
09/09/97	32.89	12.83	20.06	*	ND	ND	ND	ND	ND	ND	--
12/18/97	32.89	12.99	19.90	--	ND	ND	ND	ND	ND	--	--
03/12/98	32.89	14.89	18.00	*	ND	ND	ND	ND	ND	ND	--
06/22/98	32.89	14.46	18.43	--	ND	ND	ND	ND	ND	--	--
09/18/98	32.89	13.79	19.10	--	ND	ND	ND	ND	ND	--	--

*=MTBE results by EPA method 8020.

**=MTBE results by EPA method 8240.

***=MTBE results by EPA method 8260.

ABBREVIATIONS:

TPH = Total Petroleum Hydrocarbons

ND = Not detected at or above the minimum quantitation limit. See laboratory reports for minimum quantitation limits.

MTBE = Methyl-t-Butyl Ether

October 30, 1998

Kent Brown
Blaine Tech Services
1680 Rogers Avenue
San Jose, California 95112

Re: **Third Quarter 1998 Monitoring Report**
1432 Harrison Street
Oakland, California
Cambria Project #18-214



Dear Mr. Brown:

As you requested, Cambria Environmental Technology, Inc. (Cambria) has summarized the results of the third quarter 1998 ground water sampling at the site referenced above. Presented below are sampling activities performed in the third quarter 1998, the hydrocarbon distribution in ground water, and the anticipated fourth quarter 1998 activities.

THIRD QUARTER 1998 ACTIVITIES AND RESULTS

Ground Water Sampling: On September 18, 1998, Blaine Tech Services (Blaine) gauged all site wells and collected ground water samples from site wells MW-1, MW-2, MW-4, MW-5, and MW-6. Ground water elevations are shown on Figure 1.

Corrective Action Plan (CAP): Cambria is awaiting cost pre-approval from the state clean up fund to implement the CAP.

Hydrocarbon Distribution In Ground Water

Ground water analytical data suggest that hydrocarbon concentrations are highest in wells MW-1 and MW-2, which are located near the former underground storage tank area. Total purgeable petroleum hydrocarbons (TPPH) concentrations decreased from 90,000 parts per billion (ppb) to 1,900 ppb since the second quarter in monitoring well MW-1. The extent of hydrocarbons beneath the site is defined to below method detection limits by wells MW-4 and MW-5 to the north and by well MW-6 to the south.

Oakland, CA
Sonoma, CA
Portland, OR
Seattle, WA

**Cambria
Environmental
Technology, Inc.**

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

C A M B R I A

ANTICIPATED FOURTH QUARTER 1998 ACTIVITIES


Ground Water Sampling: Blaine will gauge all site wells and collect ground water samples from wells MW-1, MW-2, MW-4, MW-5, and MW-6. Cambria will prepare a ground water monitoring report summarizing the sampling data.


CLOSING

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.


John A. Riggs
Staff Geologist


Pete McKereghan CHG
Principal Hydrogeologist

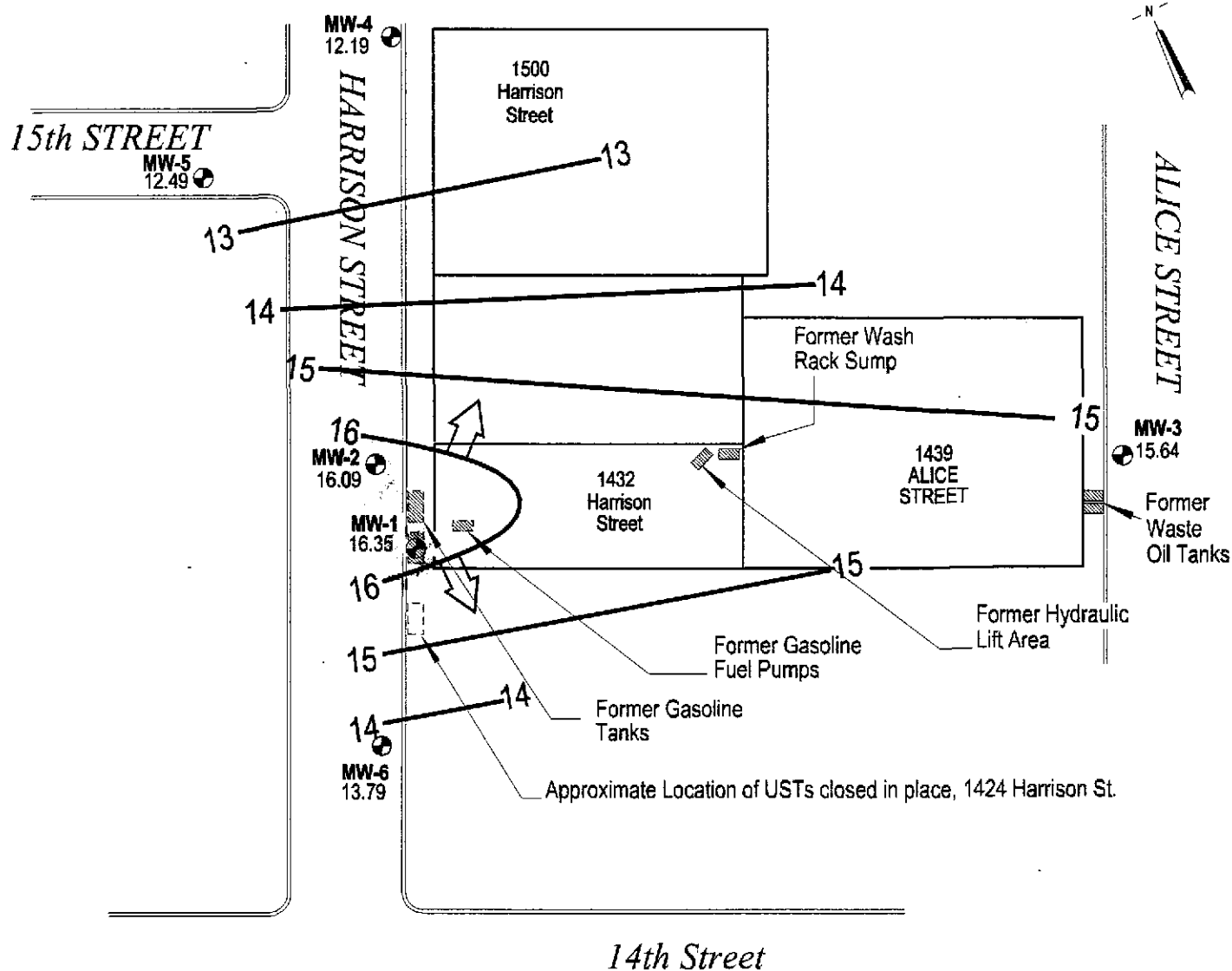


Attachment: A - Analytical Results for Ground Water Sampling

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Attachment A

Analytical Results for Ground Water Sampling



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

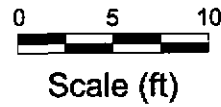


FIGURE
1

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

Borsuk
1432 Harrison Street
Oakland, California



C A M B R I A

**Ground Water Elevation
Contours**
September 18, 1988

H:\SB-2004\OAK-188\FIGURE\30\M88-MP.DWG



Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Mark Borsuk/980918-K2 Sample Descript: MW-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9809C29-01	Sampled: 09/18/98 Received: 09/18/98 Analyzed: 09/28/98 Reported: 11/11/98
Attention: Fran Thie		

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50000	190000
Benzene	500	29000
Toluene	500	48000
Ethyl Benzene	500	2400
Xylenes (Total)	500	17000
Chromatogram Pattern:		Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	120

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1197


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Mark Borsuk/980918-K2 Sample Descript: MW-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9809C29-02	Sampled: 09/18/98 Received: 09/18/98 Analyzed: 09/28/98 Reported: 11/11/98
------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50000	68000
Benzene	500	12000
Toluene	500	16000
Ethyl Benzene	500	1400
Xylenes (Total)	500	5900
Chromatogram Pattern:		Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1197

Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Mark Borsuk/980918-K2 Sample Descript: MW-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9809C29-03	Sampled: 09/18/98 Received: 09/18/98 Analyzed: 09/28/98 Reported: 11/11/98
----------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	100	N.D.
Benzene	1.0	42
Toluene	1.0	1.6
Ethyl Benzene	1.0	N.D.
Xylenes (Total)	1.0	4.8
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1197


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Mark Borsuk/980918-K2 Sample Descript: MW-5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9809C29-04	Sampled: 09/18/98 Received: 09/18/98 Analyzed: 09/28/98 Reported: 11/11/98
------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	116

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1197


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Mark Borsuk/980918-K2 Sample Descript: MW-6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9809C29-05	Sampled: 09/18/98 Received: 09/18/98 Analyzed: 09/28/98 Reported: 11/11/98
------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	113

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1197


Peggy Penner
Project Manager





**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
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Redwood City, CA 94063
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(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Client Proj. ID: Mark Borsuk/980918-K2

Received: 09/18/98

Lab Proj. ID: 9809C29

Reported: 11/11/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of _____ pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

Report revised 11/11/98.

SEQUOIA ANALYTICAL


Peggy Penner
Project Manager





Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Mark Borsuk/980918-K2
Matrix: Liquid

Work Order #: 9809C29 -01-05

Reported: Oct 2, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	HI25G62W	HI25G62W	HI25G62W	HI25G62W
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 8015M	EPA 8015M	EPA 8015M	EPA 8015M

Analyst:	J. Doak	J. Doak	J. Doak	J. Doak
MS/MSD #:	V8090673	V8090673	V8090673	V8090673
Sample Conc.:	0.039	0.032	0.0088	0.028
Prepared Date:	9/25/98	9/25/98	9/25/98	9/25/98
Analyzed Date:	9/25/98	9/25/98	9/25/98	9/25/98
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	23	21	21	60
MS % Recovery:	115	105	103	100
Dup. Result:	6.6	5.9	6.0	17
MSD % Recov.:	33	29	30	29
RPD:	111	112	111	112
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	LCS092598	LCS092598	LCS092598	LCS092598
Prepared Date:	9/25/98	9/25/98	9/25/98	9/25/98
Analyzed Date:	9/25/98	9/25/98	9/25/98	9/25/98
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	21	19	19	56
LCS % Recov.:	105	97	96	93

MS/MSD	79-127	81-115	84-116	80-115
LCS	80-120	80-120	80-120	80-120
Control Limits				

SEQUOIA ANALYTICAL
Elap #1197

[Signature]
Peggy Penner
for Project Manager

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9809C29.BLA <1>



BLAINE

TECH SERVICES INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1106
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 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

SEQUOIA

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

EPA

RWQCB REGION

LIA

OTHER

SPECIAL INSTRUCTIONS

INVOLVE & REPORT
 TO: BLAINE TECH SERVICES
 ATTN: WRIGONES

9809C29

CHAIN OF CUSTODY

BTS # 480918-K2

CLIENT

MARK BORSUK

SITE

1432 HARRISON ST.

OAKLAND, CA

C = COMPOSITE ALL CONTAINERS

TPH-GAS
 BTEX

SAMPLE I.D.	DATE	TIME	MATRIX S = SOIL W = H2O	CONTAINERS		C	TPH-GAS	BTEX	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				TOTAL	VOLS							
01 MW-1	9/18/98	11:15	W	3	500		X	X				
02 MW-2		11:10		3			X	X				
03 MW-3		11:05		3			X	X				
04 MW-5		11:00		3			X	X				
05 MW-6		10:50		3			X	X				

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN	
	9/18/98	11:30	Mark Borsuk	ROUTINE	
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	9/18/98	1540		9/18/98	1553
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	9/18/98				
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
				9/18/98	1801
NO VIA	DATE SENT	TIME SENT	COOLER #		

WELL MONITORING DATA SHEET

Project #: <u>980918-K2</u>	Client: <u>Mark Borsuk</u>
Sampler: <u>Mark/Chris</u>	Start Date: <u>9/18/98</u>
Well I.D.: <u>MW-1</u>	Well Diameter: (circle one) <u>3</u> (4) 6
Total Well Depth: Before <u>25.03</u> After	Depth to Water: <u>18.60</u> Before After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: <u>PVC</u>	Grade Other:

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

$$\frac{\text{1 Case Volume}}{\text{Specified Volumes}} \times \text{Specified Volumes} = \text{gallons}$$

Purging: Bailer Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other _____	Sampling: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other _____
--------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
<u>11:14</u>	<u>69.7</u>	<u>6.8</u>	<u>644</u>	<u>29.3</u>	<u>—</u>	<u>strong odor</u>

Did Well Dewater? If yes, gals. _____ Gallons Actually Evacuated:

Sampling Time: 11:15 Sampling Date: 9/18/98

Sample I.D.: MW-1 Laboratory: Sequoia

Analyzed for: TPH-G BTEX (Circle) TPH-D OTHER:

Duplicate I.D.: _____ Cleaning Blank I.D.: _____

Analyzed for: TPH-G BTEX TPH-D OTHER:
(Circle)

WELL MONITORING DATA SHEET

Project #: <u>280918-K2</u>		Client: <u>Mark Borzic</u>	
Sampler: <u>Mark/Chris</u>		Start Date: <u>9/18/98</u>	
Well I.D.: <u>W-2</u>		Well Diameter: (circle one) <u>2</u> 3 4 6	
Total Well Depth: <u>25.60</u>		Depth to Water: <u>19.09</u>	
Before	After	Before	After
Depth to Free Product:		Thickness of Free Product (feet):	
Measurements referenced to: <u>PVC</u> Grade Other:			

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	15"	10.43

_____	X	_____	=	_____
1 Case Volume		Specified Volumes		gallons

Purging: Bailer Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other _____	Sampling: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other _____
--------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
					/	
11:08	71.5	6.6	827	10.7		odor

Did Well Dewater? <input checked="" type="checkbox"/> If yes, gals.	Gallons Actually Evacuated: <input checked="" type="checkbox"/>
Sampling Time: <u>11:10</u>	Sampling Date: <u>9/18/98</u>
Sample I.D.: <u>W-2</u>	Laboratory: <u>Sequoia</u>
Analyzed for: <u>TPH-G BTEX</u> TPH-D OTHER:	
(Circle)	
Duplicate I.D.:	Cleaning Blank I.D.:
Analyzed for: TPH-G BTEX TPH-D OTHER:	
(Circle)	

WELL MONITORING DATA SHEET

Project #: <u>980918-K2</u>	Client: <u>Mark Borzic</u>
Sampler: <u>Mark/Chris</u>	Start Date: <u>9/18/98</u>
Well I.D.: <u>4</u>	Well Diameter: (circle one) <u>2</u> 3 4 6
Total Well Depth: <u>24.71</u>	Depth to Water: <u>18.58</u>
Before	After
Before	After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: <u>PVC</u>	Grade Other:

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

_____	X	_____	=	_____
1 Case Volume		Specified Volumes		gallons

Purging: Bailer Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other _____	Sampling: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other _____
--------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
	<u>No Purge</u>					
<u>11:05</u>	<u>70.3</u>	<u>6.6</u>	<u>594</u>	<u>19.4</u>	<u>/</u>	<u>CRAC</u>

Did Well Dewater? If yes, gals. _____ Gallons Actually Evacuated:

Sampling Time: 11:05 Sampling Date: 9/18/98

Sample I.D.: 4 Laboratory: Sequoia

Analyzed for: TPH-G BTEX TPH-D OTHER:

Duplicate I.D.: _____ Cleaning Blank I.D.: _____

Analyzed for: TPH-G BTEX TPH-D OTHER:

WELL MONITORING DATA SHEET

Project #: <u>280918-K2</u>	Client: <u>Mark Borsuk</u>
Sampler: <u>Mark/Chris</u>	Start Date: <u>9/18/98</u>
Well I.D.: <u>4"-5"</u>	Well Diameter: (circle one) <u>3</u> 3 4 6
Total Well Depth: <u>28.64</u>	Depth to Water: <u>19.12</u>
Before	After
Before	After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: <u>PVC</u>	Grade Other:

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.63	12"	5.87
5"	1.02	16"	10.43

$$\frac{\text{1 Case Volume}}{\text{Specified Volumes}} \times \text{Specified Volumes} = \text{gallons}$$

Purging: Bailer Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other _____	Sampling: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other _____
--------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
	<u>No Purge</u>			<u>Site</u>		
<u>10:59</u>	<u>67.9</u>	<u>6.6</u>	<u>766</u>	<u>123.4</u>	/	

Did Well Dewater? If yes, gals. _____ Gallons Actually Evacuated:

Sampling Time: 11:00 Sampling Date: 9/18/98

Sample I.D.: 4"-5" Laboratory: Sequoia

Analyzed for: TPH-G BTEX (Circle) TPH-D OTHER:

Duplicate I.D.: _____ Cleaning Blank I.D.: _____

Analyzed for: TPH-G BTEX TPH-D OTHER: (Circle)

WELL MONITORING DATA SHEET

Project #: <u>280918-K2</u>		Client: <u>Mark Borsuk</u>	
Sampler: <u>Mark/Chris</u>		Start Date: <u>9/18/98</u>	
Well I.D.: <u>nu-6</u>		Well Diameter: (circle one) <u>2</u> 3 4 6	
Total Well Depth: <u>28.27</u>		Depth to Water: <u>19.10</u>	
Before	After	Before	After
Depth to Free Product:		Thickness of Free Product (feet):	
Measurements referenced to: <u>PVC</u> Grade Other:			

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

/	X	/	=	/
1 Case Volume		Specified Volumes		gallons

Purging: Bailer
 Disposable Bailer X
 Middleburg
 Electric Submersible
 Extraction Pump
 Other _____

Sampling: Bailer
 Disposable Bailer X
 Extraction Port
 Other _____

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
						<u>No Purge Site</u>
<u>10:49</u>	<u>67.4</u>	<u>6.0</u>	<u>1414</u>	<u>5.3</u>	/	<u>Clear</u>

Did Well Dewater? Yes If yes, gals. Gallons Actually Evacuated: /

Sampling Time: 10:50 Sampling Date: 9/18/98

Sample I.D.: nu-6 Laboratory: Seqoia

Analyzed for: TPH-G BTEX TPH-D OTHER:

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for: TPH-G BTEX TPH-D OTHER:

BLAINE

TECH SERVICES INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB SEQUOIA

DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

- EPA
- LIA
- OTHER

RWQCB REGION

SPECIAL INSTRUCTIONS

INVOICE & REPORT
 TO: BLAINE TECH SERVICES
 ATTN: WRTONES

9809C29

CHAIN OF CUSTODY
BTS # 480918-K2

CLIENT
MARK BORSUK

SITE
1432 HARRISON ST.
OAKLAND, CA

C = COMPOSITE ALL CONTAINERS

TPH - GAS
 BTEX

SAMPLE I.D.	DATE	TIME	MATRIX S = SOIL W = H2O	CONTAINERS		C = COMPOSITE ALL CONTAINERS	TPH - GAS	BTEX						ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				TOTAL	VOAs												
01 <u>mw-1</u>	<u>9/18/98</u>	<u>11:15</u>	<u>W</u>	<u>3</u>	<u>6</u>		<u>X</u>	<u>X</u>									
02 <u>mw-2</u>		<u>11:10</u>		<u>3</u>			<u>X</u>	<u>X</u>									
03 <u>mw-4</u>		<u>11:05</u>		<u>3</u>			<u>X</u>	<u>X</u>									
04 <u>mw-5</u>		<u>11:00</u>		<u>3</u>			<u>X</u>	<u>X</u>									
05 <u>mw-6</u>		<u>10:50</u>		<u>3</u>			<u>X</u>	<u>X</u>									

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN	
	<u>9/18/98</u>	<u>1130</u>	<u>Mark Spadler</u>	<u>ROUTINE</u>	
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<u>[Signature]</u>	<u>9/18/98</u>	<u>1540</u>	<u>[Signature]</u>	<u>9.18.98</u>	<u>1553</u>
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<u>[Signature]</u>	<u>9.18.98</u>		<u>[Signature]</u>		
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<u>[Signature]</u>			<u>[Signature]</u>	<u>9/18/98</u>	<u>1801</u>
SHIP VIA	DATE SENT	TIME SENT	COOLER #		