**MARK BORSUK**
**Attorney at Law**
**1626 Vallejo Street**
**San Francisco, CA 94123-5116**
**(415) 922-4740**
**FAX 922-1485**
**Internet: mborsuk@ix.netcom.com**

January 25, 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: IVQ96 Monitoring Report
1432 Harrison Street, Oakland, CA 94612
SITE ID 498

Dear Mr. Peacock:

Attached is the IVQ96 report for groundwater monitoring at the above location. If you have any questions, please contact me.

Sincerely yours,

Mark Borsuk

BLAINE
TECH SERVICES INC

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



January 24, 1997

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

Site:
1432 Harrison Street
Oakland, California

Date:
December 12, 1996

## GROUNDWATER SAMPLING REPORT 961212-J-1

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, well evacuation 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 well evacuation and at the time of sample collection.

# STANDARD PRACTICES

## Evacuation and Sampling Equipment

As shown in the TABLE OF WELL MONITORING DATA, the wells at this site were evacuated according to a protocol requirement for the three case volumes of water, before sampling. The wells were evacuated using bailers and electric submersibles.

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.

**Electric Submersible Pumps:** Electric submersible pumps are appropriate for the high volume evacuation of wells of any depth provided the well diameter is large enough to admit the pump. Four inch and three inch diameter wells will readily accept electric submersible pumps, while two inch wells do not. In operation, the pump is lowered into the well with a pipe train above it. A checkvalve immediately above the pump and below the first section of pipe prevents water that has entered the pipe from flowing back into the well. Electricity is provided to the pump via an electrical cable and the action of the pump is to push water up out of the well.

Electric submersible pumps are often used as well evacuation devices, which are then supplanted with a more specialized sample collection device (such as a bailer) at the time of sampling. An alternative is to use the pump for both evacuation and sampling. When a bailer is used to collect the sample, interpretation of results by the consultant should allow for variations attributable to near surface contamination entering the bailer. When the electric submersible is, itself, used for

sample collection it should be operated with the output restricted to a point where the loss of volatiles becomes indistinguishable from the level obtained with true sampling pumps. It should be noted that when the pump is used for both evacuation and sample collection that it is possible to perform these operations as an uninterrupted continuum. This contrasts with the variations in elapsed time between evacuation and sample collection that occur when field personnel cease one mode of operation and must bring other apparatus into use.

## 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.

## Effluent Materials

The evacuation process creates a volume of effluent water which must be contained. Blaine Tech Services, Inc. will place this water in appropriate containers of the client's choice or bring new 55 gallon DOT 17 E drums to the site, which are appropriate for the containment of the effluent materials. The determination of how to properly dispose of the effluent water must usually await the results of laboratory analyses of the sample collected from the groundwater well. If that sample does not establish whether or not the effluent water is contaminated, or if effluent from more than one source has been combined in the same container, it may be necessary to conduct additional analyses on the effluent material.

## Sampling Methodology

Samples were obtained by standardized sampling procedures that follow an evacuation and sample collection protocol. The sampling methodology conforms to both State and Regional Water Quality Control Board standards 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 National Environmental Testing, Inc. in Santa Rosa, California. NET 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 Hiett

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.

Richard C. Blaine

RCB/mc

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

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

CAMBRIA

January 16, 1997

Jim Keller
Blaine Tech Services
1680 Rogers Ave.
San Jose, CA 95112

Re: **Fourth Quarter 1996 Monitoring Report**
1432 Harrison Street
Oakland, California

Dear Mr. Keller:

As you requested, Cambria Environmental Technology, Inc. (Cambria) has summarized the results of the fourth quarter 1996 ground water sampling at the site referenced above. Presented below are sampling activities performed in the fourth quarter of 1996, the anticipated first quarter 1997 activities, and the hydrocarbon distribution in ground water.

## FOURTH QUARTER 1996 ACTIVITIES

***Subsurface Investigation:*** On October 3, 1996, Cambria completed a subsurface investigation to further define the lateral extent of hydrocarbons in soil and ground water. Cambria installed down gradient monitoring wells MW-4 and MW-5 and up gradient well MW-6. The Subsurface Investigation Report for this investigation was sent to the Alameda County Department of Environmental Health (ACDEH).

***Ground Water Sampling:*** On December 12, 1996, Blaine Tech Services (Blaine) gauged all site wells and sampled wells MW-1, MW-2, MW-4, MW-5 and MW-6. Samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), methyl t-butyl ether (MTBE), and benzene, ethylbenzene, toluene and xylene (BETX). Ground water elevations are shown on Figure 1. Ground water analytic data is tabulated and presented separately by Blaine.

## ANTICIPATED FIRST 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, MW-5 and MW-6. Cambria will submit a ground water monitoring report summarizing the sampling data.

CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.
1144 65TH STREET,
SUITE B
OAKLAND,
CA 94608
PH: (510) 420-0700
FAX: (510) 420-9170

CAMBRIA

## HYDROCARBON DISTRIBUTION IN GROUND WATER

Ground water analytic data suggest that hydrocarbon concentrations are highest in wells **MW-1 and MW-2,** which are near the former underground storage tank area. The horizontal extent is defined to below or near non-detect levels in the upgradient direction by well **MW-6** and in the crossgradient direction by wells **MW-3** and **MW-5.**

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.**

Bob Clark-Riddell, P.E.
Principal Engineer

REGISTERED PROFESSIONAL ENGINEER
ROBERT G. RIDDELL
No. C 049629
Exp.
CIVIL
STATE OF CALIFORNIA

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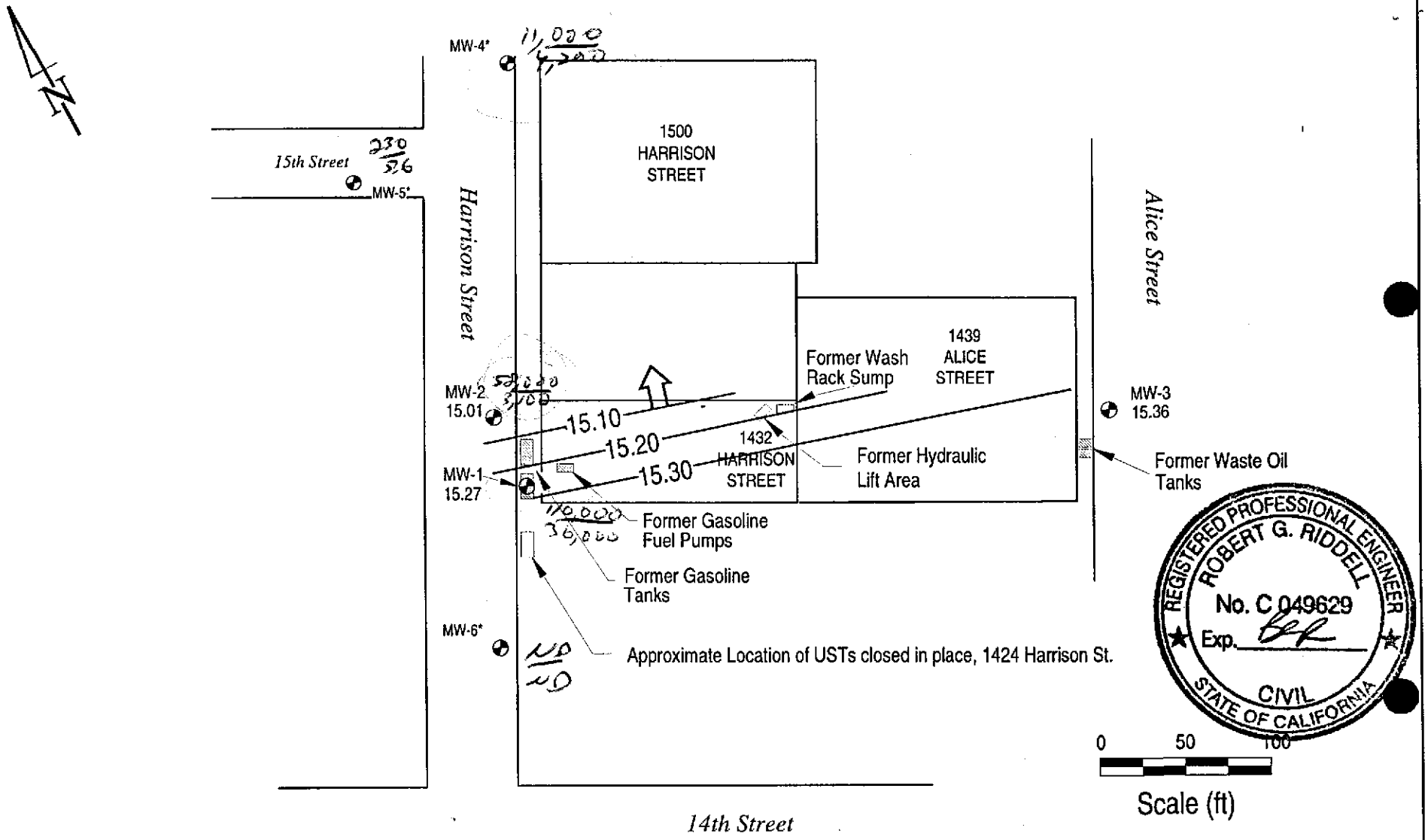


REGISTERED PROFESSIONAL ENGINEER
ROBERT G. RIDDELL
No. C 049629
Exp. 6-96
CIVIL
STATE OF CALIFORNIA

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

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CAMBRIA
Environmental Technology, Inc.

EXPLANATION

- Ground Water Monitoring Well
- xx.xx Ground Water Elevation (feet above mean sea level)
- Ground Water Contour
- Ground Water Flow Direction
- * Wells Not Surveyed/Gauged

Ground Water Elevations
December 12, 1996

1432 Harrison Street
Oakland, California

FIGURE
1

# TABLE OF WELL MONITORING DATA

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Well I.D. | MW-1 | | | MW-1 | | MW-1 | |
| Date Sampled | 09/26/96 | | | 10/28/96 | | 12/12/96 | |
| Well Diameter (in.) | 4 | | | 4 | | 4 | |
| Total Well Depth (ft.) | 25.03 | | | 25.08 | | 25.12 | |
| Depth To Water (ft.) | 19.35 | | | 19.58 | | 19.68 | |
| Free Product (in.) | NONE | | | -- | | NONE | |
| Reason If Not Sampled | -- | | | GAUGE ONLY | | -- | |
| 1 Case Volume (gal.) | 3.70 | | | | | 3.50 | |
| Did Well Dewater? | NO | | | | | NO | |
| Gallons Actually Evacuated | 12.0 | | | | | 11.0 | |
| Purging Device | ELECTRIC SUBMERSIBLE | | | | | ELECTRIC SUBMERSIBLE | |
| Sampling Device | BAILER | | | | | BAILER | |
| Time | 14:58 | 14:59 | 15:01 | | | 09:15 | 09:17 | 09:19 |
| Temperature (Fahrenheit) | 70.4 | 70.6 | 70.8 | | | 61.0 | 60.2 | 60.0 |
| pH | 7.1 | 7.1 | 7.1 | | | 7.2 | 7.3 | 7.3 |
| Conductivity (micromhos/cm) | 480 | 460 | 460 | | | 650 | 550 | 520 |
| BTS Chain of Custody | 960926-Z4 | | | | | 961212-J1 | | |
| BTS Sample I.D. | MW-1 | | | | | MW-1 | | |
| DOHS HMTL Laboratory | NET | | | | | NET | | |
| Analysis | 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 | NET |
| Laboratory Sample I.D. | 268761 | 271140 |
| TPH Gasoline | 170,000 | 110,000 |
| Benzene | 28,000 | 36,000 |
| Toluene | 40,000 | 47,000 |
| Ethyl Benzene | 2,200 | 2,500 |
| Xylene Isomers | 15,000 | 16,000 |
| Methyl-tert-butyl ether | 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 | 09/26/96 | | | 10/28/96 | | 12/12/96 | |
| Well Diameter (in.) | 2 | | | 2 | | 2 | |
| Total Well Depth (ft.) | 25.90 | | | 26.02 | | 25.83 | |
| Depth To Water (ft.) | 19.80 | | | 20.18 | | 20.17 | |
| Free Product (in.) | NONE | | | -- | | NONE | |
| Reason If Not Sampled | -- | | | GAUGE ONLY | | -- | |
| 1 Case Volume (gal.) | 0.98 | | | | | 0.90 | |
| Did Well Dewater? | NO | | | | | NO | |
| Gallons Actually Evacuated | 3.0 | | | | | 3.0 | |
| Purging Device | BAILER | | | | | BAILER | |
| Sampling Device | BAILER | | | | | BAILER | |
| Time | 15:16 | 15:17 | 15:19 | | | 09:40 | 09:42 | 09:45 |
| Temperature (Fahrenheit) | 69.6 | 69.2 | 69.0 | | | 65.2 | 63.8 | 63.2 |
| pH | 7.2 | 7.2 | 7.2 | | | 7.4 | 7.3 | 7.3 |
| Conductivity (micromhos/cm) | 630 | 640 | 640 | | | 1000 | 1000 | 1000 |
| BTS Chain of Custody | 960926-Z4 | | | | | 961212-J1 | | |
| BTS Sample I.D. | MW-2 | | | | | MW-2 | | |
| DOHS HMTL Laboratory | NET | | | | | NET | | |
| Analysis | TPH-GAS, BTEX & MTBE | | | | | TPH-GAS & BTEX | | |

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 | NET |
| Laboratory Sample I.D. | 268762 | 271141 |
| TPH Gasoline | 150,000 | 58,000 ↘ |
| Benzene | 20,000 | 3,100 ↘ |
| Toluene | 29,000 | 11,000 |
| Ethyl Benzene | 2,800 | 1,700 |
| Xylene Isomers | 12,000 | 8,100 |
| Methyl-tert-butyl ether | ND | 220 |

# TABLE OF WELL MONITORING DATA

| | | | |
|---|---|---|---|
| Well I.D. | MW-3 | MW-3 | MW-3 |
| Date Sampled | 09/26/96 | 10/28/96 | 12/12/96 |
| Well Diameter (in.) | 2 | 2 | 2 |
| Total Well Depth (ft.) | 23.96 | 23.88 | 24.00 |
| Depth To Water (ft.) | 19.12 | 19.11 | 18.61 |
| 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 | | |
| Date Sampled | 10/28/96 | | | 12/12/96 | | |
| Well Diameter (in.) | 2 | | | 2 | | |
| Total Well Depth (ft.) | 24.52 | | | 24.85 | | |
| Depth To Water (ft.) | 19.32 | | | 19.42 | | |
| Free Product (in.) | NONE | | | NONE | | |
| Reason If Not Sampled | -- | | | -- | | |
| 1 Case Volume (gal.) | 0.80 | | | 0.86 | | |
| Did Well Dewater? | NO | | | NO | | |
| Gallons Actually Evacuated | 2.5 | | | 3.0 | | |
| Purging Device | BAILER | | | BAILER | | |
| Sampling Device | BAILER | | | BAILER | | |
| Time | 12:59 | 13:02 | 13:04 | 08:20 | 08:22 | 08:25 |
| Temperature (Fahrenheit) | 70.4 | 71.2 | 70.8 | 64.8 | 64.6 | 64.6 |
| pH | 7.2 | 6.8 | 7.0 | 7.4 | 7.2 | 7.2 |
| Conductivity (micromhos/cm) | 1200 | 1000 | 1000 | 1000 | 1000 | 1000 |
| BTS Chain of Custody | 961028-K2 | | | 961212-J1 | | |
| BTS Sample I.D. | MW-4 | | | MW-4 | | |
| DOHS HMTL Laboratory | NET | | | NET | | |
| Analysis | 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 |
| Laboratory Sample I.D. | 271142 |
| TPH Gasoline | 11,000 |
| Benzene | 4,200 |
| Toluene | 410 |
| Ethyl Benzene | 420 |
| Xylene Isomers | 260 |
| Methyl-tert-butyl ether | 32 |

# TABLE OF WELL MONITORING DATA

| | | | | | | |
|---|---|---|---|---|---|---|
| Well I.D. | MW-5 | | | MW-5 | | |
| Date Sampled | 10/28/96 | | | 12/12/96 | | |
| Well Diameter (in.) | 2 | | | 2 | | |
| Total Well Depth (ft.) | 28.92 | | | 28.90 | | |
| Depth To Water (ft.) | 19.88 | | | 20.09 | | |
| Free Product (in.) | NONE | | | NONE | | |
| Reason If Not Sampled | -- | | | -- | | |
| 1 Case Volume (gal.) | 1.40 | | | 1.40 | | |
| Did Well Dewater? | NO | | | NO | | |
| Gallons Actually Evacuated | 4.5 | | | 4.5 | | |
| Purging Device | BAILER | | | BAILER | | |
| Sampling Device | BAILER | | | BAILER | | |
| Time | 12:39 | 12:41 | 12:44 | 08:00 | 08:03 | 08:06 |
| Temperature (Fahrenheit) | 67.8 | 67.6 | 67.6 | 61.4 | 61.4 | 61.2 |
| pH | 7.2 | 7.2 | 7.1 | 7.6 | 7.6 | 7.6 |
| Conductivity (micromhos/cm) | 920 | 850 | 840 | 1000 | 790 | 770 |
| BTS Chain of Custody | 961028-K2 | | | 961212-J1 | | |
| BTS Sample I.D. | MW-5 | | | MW-5 | | |
| DOHS HMTL Laboratory | NET | | | NET | | |
| Analysis | 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 |
| Laboratory Sample I.D. | 271143 |
| TPH Gasoline | 230 |
| Benzene | 5.6 |
| Toluene | 0.9 |
| Ethyl Benzene | ND |
| Xylene Isomers | 0.9 |
| Methyl-tert-butyl ether | 3.6 |

# TABLE OF WELL MONITORING DATA

| | | | | | | |
|---|---|---|---|---|---|---|
| Well I.D. | MW-6 | | | MW-6 | | |
| Date Sampled | 10/28/96 | | | 12/12/96 | | |
| Well Diameter (in.) | 2 | | | 2 | | |
| Total Well Depth (ft.) | 28.43 | | | 28.45 | | |
| Depth To Water (ft.) | 20.02 | | | 20.18 | | |
| Free Product (in.) | NONE | | | NONE | | |
| Reason If Not Sampled | -- | | | -- | | |
| 1 Case Volume (gal.) | 1.30 | | | 1.30 | | |
| Did Well Dewater? | NO | | | NO | | |
| Gallons Actually Evacuated | 4.0 | | | 4.0 | | |
| Purging Device | BAILER | | | BAILER | | |
| Sampling Device | BAILER | | | BAILER | | |
| Time | 12:17 | 12:19 | 12:22 | 08:50 | 08:54 | 08:57 |
| Temperature (Fahrenheit) | 70.8 | 71.0 | 70.4 | 63.6 | 63.2 | 63.4 |
| pH | 7.2 | 7.1 | 7.1 | 7.2 | 7.2 | 7.1 |
| Conductivity (micromhos/cm) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| BTS Chain of Custody | 961028-K2 | | | 961212-J1 | | |
| BTS Sample I.D. | MW-6 | | | MW-6 | | |
| DOHS HMTL Laboratory | NET | | | NET | | |
| Analysis | 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 |
| Laboratory Sample I.D. | 271144 |
| TPH Gasoline | ND |
| Benzene | ND |
| Toluene | ND |
| Ethyl Benzene | ND |
| Xylene Isomers | ND |
| Methyl-tert-butyl ether | ND |

NATIONAL ENVIRONMENTAL TESTING, INC.

Santa Rosa Division
3636 North Laughlin Road
Suite 110
Santa Rosa, CA 95403-8226
Tel: (707) 526-7200
Fax: (707) 541-2333

Kent Brown
Blaine Tech Services
985 Timothy Dr.
San Jose, CA 95133

Date: 12/23/1996
NET Client Acct. No: 43200
NET Job No: 96.03459
Received: 12/17/1996

Client Reference Information

Harrison St. Garage/961212-J1

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. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel free to call me at (707) 541-2305.

Submitted by:

Ginger Brinlee
Project Coordinator

Enclosure(s)

Client Name: Blaine Tech Services
Client Acct: 43200
NET Job No: 96.03459

Date: 12/23/1996
ELAP Cert: 1386
Page: 2

Ref: Harrison St. Garage/961212-J1

SAMPLE DESCRIPTION: MW-1
Date Taken: 12/12/1996
Time Taken: 09:25
NET Sample No: 271140

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| 5030/M8015 | -- | | | | | | 12/17/1996 | 3775 |
| DILUTION FACTOR* | 100 | | | | | | 12/17/1996 | 3775 |
| as Gasoline | 110 | | 5.0 | mg/L | 5030 | | 12/17/1996 | 3775 |
| 8020 (GC,Liquid) | -- | | | | | | 12/17/1996 | 3775 |
| Benzene | 36,000 | FI | 500 | ug/L | 8020 | | 12/18/1996 | 3776 |
| Toluene | 47,000 | FI | 500 | ug/L | 8020 | | 12/18/1996 | 3776 |
| Ethylbenzene | 2,500 | | 50 | ug/L | 8020 | | 12/17/1996 | 3775 |
| Xylenes (Total) | 16,000 | FI | 500 | ug/L | 8020 | | 12/18/1996 | 3776 |
| Methyl-tert-butyl ether | ND | | 200 | ug/L | 8020 | | 12/17/1996 | 3775 |
| SURROGATE RESULTS | -- | | | | | | 12/17/1996 | 3775 |
| Bromofluorobenzene (SURR) | 104 | | | % Rec. | 5030 | | 12/17/1996 | 3775 |

Client Name: Blaine Tech Services
Client Acct: 43200
NET Job No: 96.03459

Date: 12/23/1996
ELAP Cert: 1386
Page: 3

Ref: Harrison St. Garage/961212-J1

SAMPLE DESCRIPTION: MW-2
Date Taken: 12/12/1996
Time Taken: 09:50
NET Sample No: 271141

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| 5030/M8015 | -- | | | | | | 12/17/1996 | 3775 |
| DILUTION FACTOR* | 100 | | | | | | 12/17/1996 | 3775 |
| as Gasoline | 58 | | 5.0 | mg/L | 5030 | | 12/17/1996 | 3775 |
| 8020 (GC,Liquid) | -- | | | | | | 12/17/1996 | 3775 |
| Benzene | 3,100 | | 50 | ug/L | 8020 | | 12/17/1996 | 3775 |
| Toluene | 11,000 | FI | 500 | ug/L | 8020 | | 12/18/1996 | 3776 |
| Ethylbenzene | 1,700 | | 50 | ug/L | 8020 | | 12/17/1996 | 3775 |
| Xylenes (Total) | 8,100 | | 50 | ug/L | 8020 | | 12/17/1996 | 3775 |
| Methyl-tert-butyl ether | 220 | | 200 | ug/L | 8020 | | 12/17/1996 | 3775 |
| SURROGATE RESULTS | -- | | | | | | 12/17/1996 | 3775 |
| Bromofluorobenzene (SURR) | 106 | | | % Rec. | 5030 | | 12/17/1996 | 3775 |

Client Name: Blaine Tech Services
Client Acct: 43200
NET Job No: 96.03459

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Ref: Harrison St. Garage/961212-J1

SAMPLE DESCRIPTION: MW-4
Date Taken: 12/12/1996
Time Taken: 08:30
NET Sample No: 271142

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| 5030/M8015 | -- | | | | | | 12/17/1996 | 3775 |
| DILUTION FACTOR* | 1 | | | | | | 12/17/1996 | 3775 |
| as Gasoline | 11 | FF | 5.0 | mg/L | 5030 | | 12/18/1996 | 3776 |
| 8020 (GC,Liquid) | -- | | | | | | 12/17/1996 | 3775 |
| Benzene | 4,200 | FF | 50 | ug/L | 8020 | | 12/18/1996 | 3776 |
| Toluene | 410 | FF | 50 | ug/L | 8020 | | 12/18/1996 | 3776 |
| Ethylbenzene | 420 | FF | 50 | ug/L | 8020 | | 12/18/1996 | 3776 |
| Xylenes (Total) | 260 | FF | 50 | ug/L | 8020 | | 12/18/1996 | 3776 |
| Methyl-tert-butyl ether | 32 | | 2.0 | ug/L | 8020 | | 12/17/1996 | 3775 |
| SURROGATE RESULTS | -- | | | | | | 12/17/1996 | 3775 |
| Bromofluorobenzene (SURR) | 114 | | | % Rec. | 5030 | | 12/17/1996 | 3775 |

Client Name: Blaine Tech Services
Client Acct: 43200
NET Job No: 96.03459

Date: 12/23/1996
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Ref: Harrison St. Garage/961212-J1

SAMPLE DESCRIPTION: MW-5
Date Taken: 12/12/1996
Time Taken: 08:10
NET Sample No: 271143

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | 12/18/1996 | 3776 |
| 5030/M8015 | -- | | | | | | 12/18/1996 | 3776 |
| DILUTION FACTOR* | 1 | | | | | | 12/18/1996 | 3776 |
| as Gasoline | 0.23 | | 0.050 | mg/L | 5030 | | 12/18/1996 | 3776 |
| 8020 (GC,Liquid) | -- | | | | | | 12/18/1996 | 3776 |
| Benzene | 5.6 | | 0.50 | ug/L | 8020 | | 12/18/1996 | 3776 |
| Toluene | 0.9 | | 0.50 | ug/L | 8020 | | 12/18/1996 | 3776 |
| Ethylbenzene | ND | | 0.50 | ug/L | 8020 | | 12/18/1996 | 3776 |
| Xylenes (Total) | 0.9 | | 0.50 | ug/L | 8020 | | 12/19/1996 | 3778 |
| Methyl-tert-butyl ether | 3.6 | | 2.0 | ug/L | 8020 | | 12/18/1996 | 3776 |
| SURROGATE RESULTS | -- | | | | | | 12/18/1996 | 3776 |
| Bromofluorobenzene (SURR) | 98 | | | % Rec. | 5030 | | | |

Ref: Harrison St. Garage/961212-J1

# CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

| Parameter | CCV Standard % Recovery | CCV Standard Amount Found | CCV Standard Amount Expected | Flags | Units | Date Analyzed | Analyst Initials | Run Batch Number |
|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| as Gasoline | 107.0 | 0.535 | 0.50 | | mg/L | 12/18/1996 | aal | 3776 |
| Benzene | 105.2 | 21.03 | 20.0 | | ug/L | 12/18/1996 | aal | 3776 |
| Toluene | 99.2 | 19.84 | 20.0 | | ug/L | 12/18/1996 | aal | 3776 |
| Ethylbenzene | 101.7 | 20.34 | 20.0 | | ug/L | 12/18/1996 | aal | 3776 |
| Xylenes (Total) | 96.4 | 57.86 | 60.0 | | ug/L | 12/18/1996 | aal | 3776 |
| Methyl-tert-butyl ether | | -- | 80.0 | | ug/L | 12/18/1996 | aal | 3776 |
| Bromofluorobenzene (SURR) | 100.0 | 100 | 100 | | % Rec. | 12/18/1996 | aal | 3776 |
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| as Gasoline | 85.8 | 0.429 | 0.50 | | mg/L | 12/19/1996 | aal | 3778 |
| Benzene | 107.5 | 21.50 | 20.0 | | ug/L | 12/19/1996 | aal | 3778 |
| Toluene | 101.7 | 20.34 | 20.0 | | ug/L | 12/19/1996 | aal | 3778 |
| Ethylbenzene | 103.4 | 20.67 | 20.0 | | ug/L | 12/19/1996 | aal | 3778 |
| Xylenes (Total) | 98.6 | 59.15 | 60.0 | | ug/L | 12/19/1996 | aal | 3778 |
| Methyl-tert-butyl ether | 91.3 | 73.06 | 80.0 | | ug/L | 12/19/1996 | aal | 3778 |
| Bromofluorobenzene (SURR) | 100.0 | 100 | 100 | | % Rec. | 12/19/1996 | aal | 3778 |

Client Name: Blaine Tech Services
Client Acct: 43200
NET Job No: 96.03459

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# METHOD BLANK REPORT

| Parameter | Method Blank Amount Found | Reporting Limit | Flags | Units | Date Analyzed | Analyst Initials | Run Batch Number |
|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | |
| as Gasoline | ND | 0.050 | | mg/L | 12/18/1996 | aal | 3776 |
| Benzene | ND | 0.50 | | ug/L | 12/18/1996 | aal | 3776 |
| Toluene | ND | 0.50 | | ug/L | 12/18/1996 | aal | 3776 |
| Ethylbenzene | ND | 0.50 | | ug/L | 12/18/1996 | aal | 3776 |
| Xylenes (Total) | ND | 0.50 | | ug/L | 12/18/1996 | aal | 3776 |
| Methyl-tert-butyl ether | -- | 2.0 | | ug/L | 12/18/1996 | aal | 3776 |
| Bromofluorobenzene (SURR) | 101 | | | % Rec. | 12/18/1996 | aal | 3776 |
| TPH (Gas/BTXE,Liquid) | | | | | | | |
| as Gasoline | ND | 0.050 | | mg/L | 12/19/1996 | aal | 3778 |
| Benzene | ND | 0.50 | | ug/L | 12/19/1996 | aal | 3778 |
| Toluene | ND | 0.50 | | ug/L | 12/19/1996 | aal | 3778 |
| Ethylbenzene | ND | 0.50 | | ug/L | 12/19/1996 | aal | 3778 |
| Xylenes (Total) | ND | 0.50 | | ug/L | 12/19/1996 | aal | 3778 |
| Methyl-tert-butyl ether | ND | 2.0 | | ug/L | 12/19/1996 | aal | 3778 |
| Bromofluorobenzene (SURR) | 107 | | | % Rec. | 12/19/1996 | aal | 3778 |

Client Name: Blaine Tech Services
Client Acct: 43200
NET Job No: 96.03459

Date: 12/23/1996
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# MATRIX SPIKE / MATRIX SPIKE DUPLICATE

| Parameter | Matrix Spike % Rec. | Matrix Spike Dup % Rec. | RPD | Spike Amount | Sample Conc. | Matrix Spike Conc. | Matrix Spike Dup. Conc. | Flags | Units | Date Analyzed | Run Batch | Sample Spiked |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | | | | | | 271146 |
| as Gasoline | 88.8 | 85.8 | 3.4 | 0.50 | ND | 0.444 | 0.429 | | mg/L | 12/19/1996 | 3778 | 271146 |
| Benzene | | | | 4.75 | 2.6 | 5.75 | 5.46 | | ug/L | 12/19/1996 | 3778 | 271146 |
| Toluene | | | | 42.70 | 1.3 | 45.03 | 43.27 | | ug/L | 12/19/1996 | 3778 | 271146 |
| Bromofluorobenzene (SURR) | 105.0 | 103.0 | 1.9 | 100 | 91 | 105 | 103 | | % Rec. | 12/19/1996 | 3778 | 271146 |

3430

# BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE
SAN JOSE, CA 95133
(408) 995-5535
FAX (408) 293-8773

CHAIN OF CUSTODY 961212-J51

CLIENT MARK BORSOK

SITE HARRISON ST. GARAGE
1432 HARRISON ST.
OAKLAND CA.

LAB NET DHS #

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

☐ EPA ☐ RWQCB REGION ____
☐ LIA
☐ OTHER

SPECIAL INSTRUCTIONS Invoice & Report to Blaine Tech Services. Attn: Kent Brown

C = COMPOSITE ALL CONTAINERS

CONDUCT ANALYSIS TO DETECT

| SAMPLE I.D. | Date | Time | MATRIX S = SOIL W = H2O | CONTAINERS TOTAL | TPH-gas | BTEX | MTBE | ADD'L INFORMATION | STATUS | CONDITION | LAB SAMPLE # |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 12/12 | 925 | W | 3 | X | X | X | | | | |
| MW-2 | | 950 | | 3 | X | X | X | | | | |
| MW-4 | | 830 | | 3 | X | X | X | | | | |
| MW-5 | | 810 | | 3 | X | X | X | | | | |
| MW-6 | | 900 | | 3 | X | X | X | | | | |

CUSTODY SEALED
Date 12/16/96 Time 1703 Initials
SEAL INTACT?
Yes ✓ No ____ Initials

SAMPLING COMPLETED DATE TIME

SAMPLING PERFORMED BY

RESULTS NEEDED NO LATER THAN Standard TAT

| RELEASED BY | DATE | TIME | RECEIVED BY | DATE | TIME |
|---|---|---|---|---|---|
| | 12-16-96 | 1233 | | 12/16/96 | 1233 |
| RELEASED BY | DATE | TIME | RECEIVED BY | DATE | TIME |
| | 12/16/96 | 1703 | | | |
| RELEASED BY | DATE | TIME | RECEIVED BY | DATE | TIME |
| | | | | 12/17/96 | 0900 |

| SHIPPED VIA | DATE SENT | TIME SENT | COOLER # | |
|---|---|---|---|---|
| VIA NCS | | | | TEMP.: 04°C |

# KEY TO RESULT FLAGS

| | |
|---|---|
| * | : RPD between sample duplicates exceeds 30%. |
| *M | : RPD between sample duplicates or MS/MSD exceeds 20%. |
| + | : Correlation coefficient for the Method of Standard Additions is less than 0.995. |
| < | : Sample result is less than reported value. |
| B-I | : Value is between Method Detection Limit and Reporting Limit. |
| B-O | : Analyte found in blank and sample. |
| C | : The result confirmed by secondary column or GC/MS analysis. |
| CNA | : Cr+6 not analyzed; Total Chromium concentration below Cr+6 regulatory level. |
| COMP | : Sample composited by equal volume prior to analysis. |
| D- | : The result has an atypical pattern for Diesel analysis. |
| D1 | : The result for Diesel is an unknown hydrocarbon which consists of a single peak. |
| DH | : The result appears to be a heavier hydrocarbon than Diesel. |
| DL | : The result appears to be a lighter hydrocarbon than Diesel. |
| DR | : Elevated Reporting Limit due to Matrix. |
| DS | : Surrogate diluted out of range. |
| DX | : The result for Diesel is an unknown hydrocarbon which consists of several peaks. |
| FA | : Compound quantitated at a 2X dilution factor. |
| FB | : Compound quantitated at a 5X dilution factor. |
| FC | : Compound quantitated at a 10X dilution factor. |
| FD | : Compound quantitated at a 20X dilution factor. |
| FE | : Compound quantitated at a 50X dilution factor. |
| FF | : Compound quantitated at a 100X dilution factor. |
| FG | : Compound quantitated at a 200X dilution factor. |
| FH | : Compound quantitated at a 500X dilution factor. |
| FI | : Compound quantitated at a 1000X dilution factor. |
| FJ | : Compound quantitated at a greater than 1000x dilution factor. |
| FK | : Compound quantitated at a 25X dilution factor. |
| FL | : Compound quantitated at a 250X dilution factor. |
| G- | : The result has an atypical pattern for Gasoline. |
| G1 | : The result for Gasoline is an unknown hydrocarbon which consists of a single peak. |
| GH | : The result appears to be a heavier hydrocarbon than Gasoline. |
| GL | : The result appears to be a lighter hydrocarbon than Gasoline. |
| GX | : The result for Gasoline is an unknown hydrocarbon which consists of several peaks. |
| HT | : Analysis performed outside of the method specified holding time. |
| HTC | : Confirmation analyzed outside of the method specified holding time. |
| HTP | : Prep procedure performed outside of the method specified holding time. |
| HTR | : Received after holding time expired, analyzed ASAP after receipt. |
| HX | : Peaks detected within the quantitation range do not match standard used. |
| J | : Value is estimated. |
| MI | : Matrix Interference Suspected. |
| MSA | : Value determined by Method of Standard Additions. |
| MSA* | : Value obtained by Method of Standard Additions; Correlation coefficient is <0.995. |
| NI1 | : Sample spikes outside of QC limits; matrix interference suspected. |
| NI2 | : Sample concentration is greater than 4X the spiked value; the spiked value is considered insignificant. |
| NI3 | : Matrix Spike values exceed established QC limits, post digestion spike is in control. |
| P | : There is >40% difference between primary and confirmation analysis. |
| P7 | : pH of sample > 2; sample analyzed past 7 days. |
| RSC | : Refer to subcontract laboratory report for QC data. |
| S2 | : Matrix interference confirmed by repeat analysis. |
| SCN | : Thiocyanate not analyzed separately; total value is below the Reporting Limit for Free Cyanide. |
| UMDL | : Undetected at the Method Detection Limit. |

## KEY TO ABBREVIATIONS

| | |
|---|---|
| ICVS | : Initial Calibration Verification Standard (External Standard). |
| mean | : Average; sum of measurements divided by number of measurements. |
| mg/Kg | : Concentration in units of milligrams of analyte per kilogram of sample. |
| mg/L | : Concentration in units of milligrams of analyte per liter of sample. |
| mL/L/hr | : Milliliters per liter per hour. |
| MPN/100 mL | : Most probable number of bacteria per one hundred milliliters of sample. |
| N/A | : Not applicable. |
| NA | : Not analyzed. |
| ND | : Not detected. |
| NTU | : Nephelometric turbidity units. |
| RPD | : Relative percent difference. |
| SNA | : Standard not available. |
| ug/Kg | : Concentration in units of micrograms of analyte per kilogram of sample. |
| ug/L | : Concentration in units of micrograms of analyte per liter of sample. |
| umhos/cm | : Micromhos per centimeter. |