



February 6, 2002

REPORT  
of  
SUBSURFACE SOIL ASSESSMENT  
at  
Vacant Property  
1455 5<sup>th</sup> Street  
Oakland, CA 94621

Prepared for:  
Mr. Andy Hall  
Chemical Compounding Company  
791 66<sup>th</sup> Avenue  
Oakland, CA 94621

Submitted by:  
AQUA SCIENCE ENGINEERS, INC.  
208 West El Pintado Road  
Danville, California 94525  
(925) 820-9391

## 1.0 INTRODUCTION

This report details Aqua Science Engineers, Inc. (ASE)'s methods and findings of a subsurface soil assessment performed on the vacant property located at 1455 5th Street in Oakland, California (Figure 1).

## 2.0 SCOPE OF WORK (SOW)

The scope of work for this assessment was as follows:

- 1) Obtain a subsurface drilling permit from the Alameda County Public Works Agency.
- 2) Locate all underground utilities in the area to be drilled.
- 3) Using a Geoprobe, drill five (5) soil borings to a depth of 48-inches below grade. Two borings will be drilled in the dirt/concrete areas of the yard on the western side of the property; two borings will be drilled inside the buildings on the eastern side of the property; one boring will be drilled adjacent to the street along the northern property line.
- 4) Collect soil samples continuously as drilling progresses for analysis. Soil samples from 12-inches, 24-inches, 36-inches and 48-inches below grade from each boring will be sealed for potential analyses.
- 5) Analyze the 12-inch deep sample from the five soil borings at a CAL-EPA certified environmental laboratory for total lead by EPA Method 7420 and total petroleum hydrocarbons as gasoline (TPH-G), diesel (TPH-D) and motor-oil (TPH-MO) by EPA Method 8015M. All of the remaining soil samples will be placed on HOLD at the laboratory. If an initial 12-inch deep soil sample contains a concentration exceeding the residential cleanup goal for that compound, then the 24-inch soil sample from that boring is to be analyzed for the detected compound.
- 6) Backfill the borings with neat cement.
- 7) Prepare a report detailing the methods and findings of the assessment activities. The report will include tabulated analytical results, drawings, and recommendations for remediation as necessary.

### 3.0 DRILL SOIL BORINGS AND COLLECT SAMPLES

Prior to drilling, ASE obtained drilling permit W01-2133 from the Alameda County Public Works Agency. A copy of this permit is presented in Appendix A.

On January 4, 2002, Vironex, Inc. of San Leandro, California drilled three soil borings at the site (B-3 through B-5) using a Geoprobe hydraulic sampling rig. Borings B-1 and B-2, located within the two site buildings, were drilled by ASE using a hand auger after coring through the concrete floor and gaining access to the subsurface in these locations. Boring locations are presented in Figure 2.

Undisturbed soil samples were collected continuously as drilling progressed for lithologic and hydrogeologic description. The soil samples collected from borings B-3 through B-5 were collected using a Geoprobe hydraulic sampling rig by driving a sampler lined with acetate tubes using direct push methods. The acetate sample tubes were then immediately cut, sealed with Teflon tape and plastic end caps, and labeled. The soil samples collected from borings B-1 and B-2, located inside the two site buildings, were collected using a hand auger and were placed in glass sample jars and labeled. All samples were stored on ice for transport to Severn Trent Laboratories (STL) San Francisco, Inc. of Pleasanton, California (ELAP #1094) under chain of custody. Soil samples collected from 12-inches below ground surface (bgs) were analyzed by the laboratory and the remaining samples collected from depths of 24-inches, 36-inches, and 48-inches bgs were placed on "hold" pending results of the 12-inch samples. The 24-inch samples would be analyzed if results from the 12-inch samples were above acceptable limits.

Soil from the remaining sample tubes and hand auger cuttings was described by the site geologist using the Unified Soil Classification System and was screened for volatile compounds using an Organic Vapor Meter (OVM). The soil was screened by emptying soil from one of the sample tubes or hand auger cuttings into a plastic bag. The bag was then sealed and placed in the sun for approximately 10 minutes. After the volatile compounds were allowed to volatilize, the OVM measured the vapor in the bag through a small hole punched in the bag. OVM readings are used as a screening tool only, since the procedures are not as rigorous as those used in the laboratory.

Drilling equipment was cleaned with a TSP solution between sampling intervals and between borings to prevent potential cross-contamination.

Sediments encountered during drilling generally consisted of silty sand from the ground surface to the total depth explored of 4-feet bgs. Due to the shallow nature of the drilling, boring logs were not prepared for each individual boring.

#### **4.0 ANALYTICAL RESULTS FOR SOIL SAMPLES**

Soil samples collected from 12-inches bgs during this assessment were analyzed by STL San Francisco for TPH-G, benzene, toluene, ethyl benzene, and total xylenes (collectively known as BTEX), and methyl-t-butyl ether (MTBE) by EPA Method 8015M/8021B. The samples were also analyzed for TPH-D and TPH-MO by EPA Method 3550/8015M and total lead by EPA Method 6010B. The soil analytical results are tabulated in Table One, and the certified analytical report and chain of custody forms are included in Appendix B.

Soil samples collected from 12-inches bgs in borings B-2, B-3, and B-4 contained lead concentrations above the Risk Based Screening Level (RBSL) of 200 parts per million (ppm) for lead in residential soils as presented in the "Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region, dated August 2000. No other compounds were detected at concentrations above the RBSLs in any of the borings.

Since lead concentrations in soil samples collected from three of the five borings at the 12-inch depth were above the RBSL for lead, the samples collected from all five borings at the 24-inch depth were analyzed by the laboratory for total lead. Lead concentrations detected in the 24-inch samples collected from all five borings were below the RBSL for lead indicating the lead contamination is limited to the upper 2-feet of soil in the vicinity of borings B-2, B-3, and B-4.

#### **5.0 CONCLUSIONS AND RECOMMENDATIONS**

ASE recommends that all soil with lead concentrations above the RBSL be removed from the site and disposed of at an appropriate disposal facility. Alternatively, it may be possible to "cap" the site with concrete or asphalt to reduce any potential exposure to the elevated lead concentrations in the soil beneath the site.

If soil containing elevated concentrations of lead is left at the site and capped, it is likely that a deed restriction will be placed on the property limiting its future use until the time when the contamination is dealt with in a manner suitable for the future property use.

A copy of this report should be provided to the City of Oakland Fire Department for their regulatory guidance.

## 6.0 REPORT LIMITATIONS

The results of this assessment represent conditions at the time of the soil sampling, at the specific locations where the samples were collected, and for the specific parameters analyzed by the laboratory.

This report does not fully characterize the site for contamination resulting from unknown sources or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of an independent CAL-EPA certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

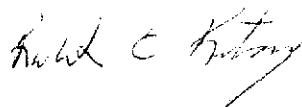
Should you have any questions or comments, please call us at (925) 820-9391.

Respectfully submitted,

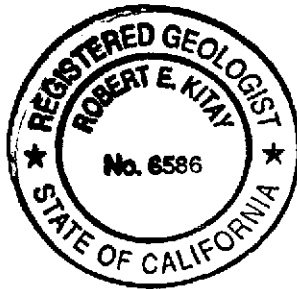
AQUA SCIENCE ENGINEERS, INC.



Erik H. Paddleford  
Associate Geologist



Robert E. Kitay, R.G., R.E.A.  
Senior Geologist



### TABLE ONE

Summary of Soil Sample Analysis  
All Results are in Parts Per Million  
1455 5th Street  
Oakland, California

Boring ID	Sample Depth (in.)	Diesel	Motor Oil	Gasoline	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	Lead
B-1	12	<1.0	<50	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1.7
	24	--	--	--	--	--	--	--	--	1.9
B-2	12	<b>3.2</b>	<50	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1,600
	24	--	--	--	--	--	--	--	--	38
B-3	12	<b>3.6</b>	<50	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	390
	24	--	--	--	--	--	--	--	--	2.2
B-4	12	<b>10</b>	<b>130</b>	<1.0	<0.0050	<b>0.072</b>	<b>0.031</b>	<b>0.19</b>	<0.0050	1,800
	24	--	--	--	--	--	--	--	--	4.5
B-5	12	<1.0	<50	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	13
	24	--	--	--	--	--	--	--	--	1.8
RBSL		500	500	400	0.18	8.4	24	1.0	1.0	200

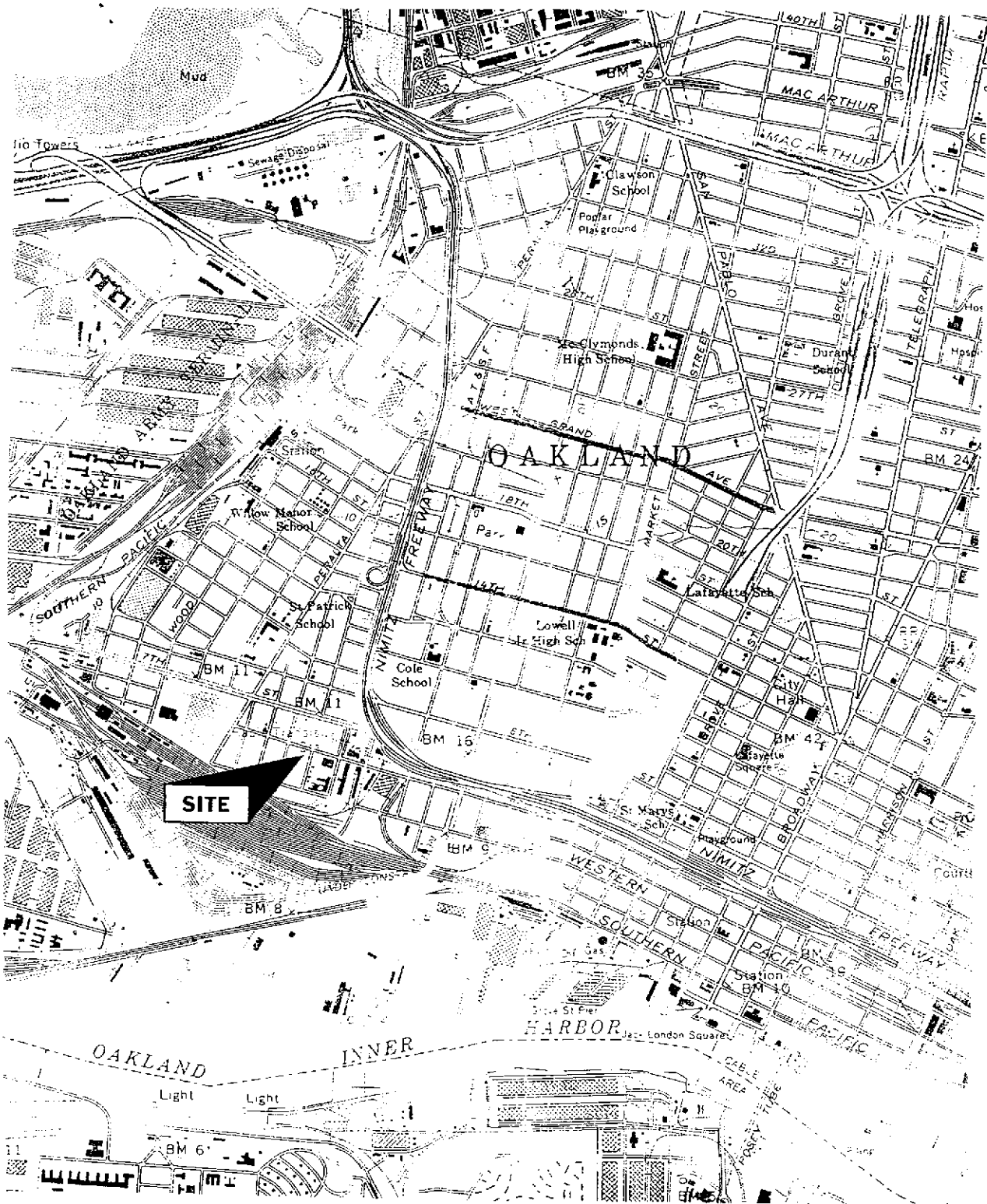
Notes:

Concentrations above laboratory detection limits are in **bold**.

"--" indicates the sample was not analyzed for that parameter.

Non-Detectable concentrations are noted by the less than symbol (<) followed by the laboratory detection limit.

RBSL = Risk Based Screening Levels (RBSL) presented in the "Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region.



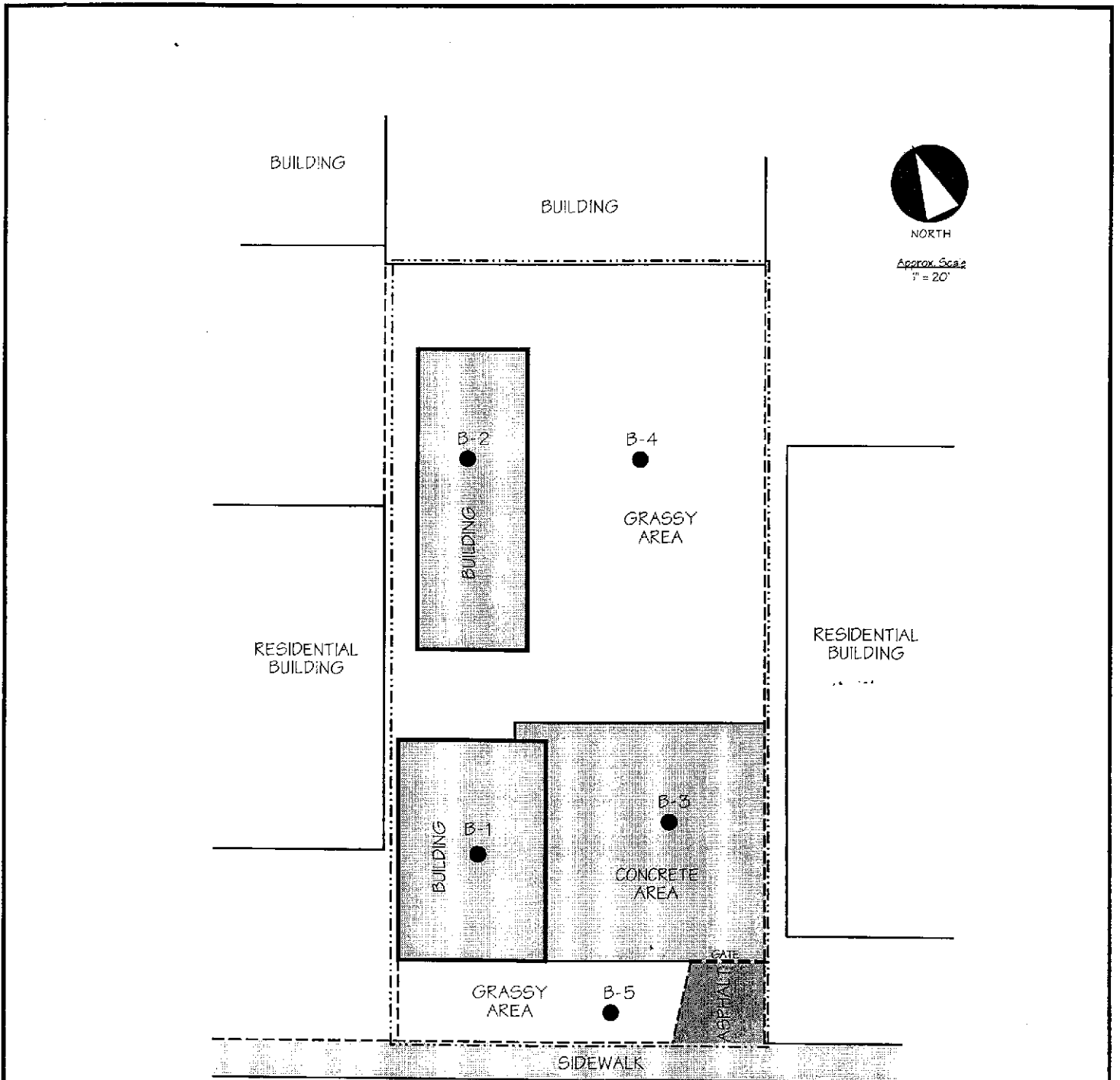
**SITE LOCATION MAP**

1455 5th Street  
Oakland, CA 94621




Scale: 1 inch = 2,000 feet

Aqua Science Engineers

Figure 1



**LEGEND**

-  APROX. PROPERTY BOUNDARY
-  B-1 APROX. BORING LOCATION
-  FENCE

**BORING LOCATION MAP**

VACANT PROPERTY  
1455 5TH STREET  
OAKLAND, CA

AQUA SCIENCE ENGINEERS | FIGURE 2



APPENDIX A

Alameda County Public Works Agency

Drilling Permit

Dec 18 01 02:30p

925-837-4853

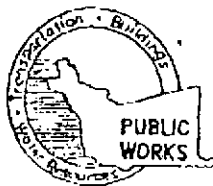
P. 2

APR-30-01 MON 10:19 AM

ALAMEDA COUNTY PWA RM239

FAX NO. 510/782-1939

P. 02



### ALAMEDA COUNTY PUBLIC WORKS AGENCY

**WATER RESOURCES SECTION**  
399 ELMHURST ST. FAYWARD CA. 94544-1395  
PHONE (510) 676-5554  
FAX (510) 782-1939

## DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT  
1455 5th Street  
Oakland CA 94621

PERMIT NUMBER W1-2133  
WELL NUMBER \_\_\_\_\_  
APN \_\_\_\_\_

CLIENT  
Name Mr. Andy Hall  
Address 147 100 St Ave Phone \_\_\_\_\_  
City Oakland CA 94621 Zip \_\_\_\_\_

APPLICANT  
Name AVA SCIENTIFIC ENGINEERS  
Address 208 W. El Pintado Phone 925-820-9391  
City Denville Zip 94526

TYPE OF PROJECT  
Well Construction  Geotechnical Investigation   
Cathodic Protection  General   
Water Supply  Contamination   
Monitoring  Well Destruction

PROPOSED WATER SUPPLY WELL USE  
New Domestic  Replacement Domestic   
Municipal  Irrigation   
Industrial  Other \_\_\_\_\_

DRILLING METHOD:  
Mud Rotary  Air Rotary  Auger   
Cable  Other  Geoprobe

DRILLER'S NAME VIVACX

DRILLER'S LICENSE NO. C57-705927

WELL PROJECTS  
Drill Hole Diameter \_\_\_\_\_ in. Maximum \_\_\_\_\_  
Casing Diameter \_\_\_\_\_ in. Depth \_\_\_\_\_ ft  
Surface Seal Depth \_\_\_\_\_ ft Owner's Well Number \_\_\_\_\_

GEOTECHNICAL PROJECTS  
Number of Borings 5 Maximum \_\_\_\_\_  
Hole Diameter 2 in. Depth 4 ft

ESTIMATED STARTING DATE 1/4/02  
ESTIMATED COMPLETION DATE 1/4/02

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE E. Padellaro DATE 12/18/01

PLEASE PRINT NAME Eric Padellaro Rev. 5-13-00

### PERMIT CONDITIONS

Circled Permit Requirements Apply

- A. GENERAL**
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
  2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources Well Completion Report.
  3. Permit is void if project not begun within 90 days of approval date.

- B. WATER SUPPLY WELLS**
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
  2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
  2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

- D. GEOTECHNICAL**
- Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

- E. CATHODIC**
- Fill hole anode zone with concrete placed by tremie.

- F. WELL DESTRUCTION**
- Send a map of work site. A separate permit is required for wells deeper than 45 feet.

- G. SPECIAL CONDITIONS**
- NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED \_\_\_\_\_ DATE 12-20-01

APPENDIX B

Certified Analytical Report  
And  
Chain of Custody

Submission #: 2002-01-0068

Date: January 14, 2002



**Aqua Science Engineers, Inc.**

208 West El Pintado  
Danville, CA 94526

Attn: Erik Paddleford

Project: 3788  
1455 5th Street

Site: Oakland, CA

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com  
CA DHS ELAP#1034

Attached is our report for your samples received on Monday January 7, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
February 21, 2002 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,  
please call me at (925) 484-1919.

You can also contact me via email. My email address is: [vvancil@chromalab.com](mailto:vvancil@chromalab.com)

Sincerely,

A handwritten signature in black ink, appearing to read "V. Vancil".

Vincent Vancil  
Project Manager

Submission #: 2002-01-0068

Gas/BTEX Compounds by 8015M/8021



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#1094

<b>Aqua Science Engineers, Inc.</b>	☒ 208 West El Pintado Danville, CA 94526
Attn: Erik Paddleford	Phone: (925) 820-9391 Fax: (925) 837-4853
3788 SiteOakland, CA	Project: 1455 5th Street

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
B-1-12''	Soil	01/04/2002 09:02	1
B-2-12''	Soil	01/04/2002 09:30	5
B-3-12''	Soil	01/04/2002 09:43	9
B-4-12''	Soil	01/04/2002 09:50	13
B-5-12''	Soil	01/04/2002 09:58	17

Submission #: 2002-01-0068



Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Test Method: 8015M  
8021B

Attn: Erik Paddleford

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>B-1-12</b>	Lab Sample ID: 2002-01-0068-001
Project: 3788 1455 5th Street	Received: 01/07/2002 14:30
Site: Oakland, CA	Extracted: 01/08/2002 16:29
Sampled: 01/04/2002 09:02	QC-Batch: 2002/01/08-01.03
Matrix: Soil	

Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#1094

Compound	Result	Rep. Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	01/08/2002 16:29	
Benzene	ND	0.0050	mg/Kg	1.00	01/08/2002 16:29	
Toluene	ND	0.0050	mg/Kg	1.00	01/08/2002 16:29	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/08/2002 16:29	
Xylene(s)	ND	0.0050	mg/Kg	1.00	01/08/2002 16:29	
MTBE	ND	0.0050	mg/Kg	1.00	01/08/2002 16:29	
<b>Surrogate(s)</b>						
Trifluorotoluene	96.5	53-125	%	1.00	01/08/2002 16:29	
4-Bromofluorobenzene-FID	90.9	58-124	%	1.00	01/08/2002 16:29	

Submission #: 2002-01-0068



Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Test Method: 8015M  
8021B

Attn: Erik Paddleford

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: B-2-12	Lab Sample ID: 2002-01-0068-005
Project: 3788 1455 5th Street	Received: 01/07/2002 14:30
Site: Oakland, CA	Extracted: 01/10/2002 16:46
Sampled: 01/04/2002 09:30	QC-Batch: 2002/01/10-01.03
Matrix: Soil	

Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	01/10/2002 16:46	
Benzene	ND	0.0050	mg/Kg	1.00	01/10/2002 16:46	
Toluene	ND	0.0050	mg/Kg	1.00	01/10/2002 16:46	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/10/2002 16:46	
Xylene(s)	ND	0.0050	mg/Kg	1.00	01/10/2002 16:46	
MTBE	ND	0.0050	mg/Kg	1.00	01/10/2002 16:46	
<b>Surrogate(s)</b>						
Trifluorotoluene	81.7	53-125	%	1.00	01/10/2002 16:46	
Trifluorotoluene-FID	82.0	53-125	%	1.00	01/10/2002 16:46	

Submission #: 2002-01-0068



Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Test Method: 8015M  
8021B

Attn: Erik Paddleford

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: B-3-12	Lab Sample ID: 2002-01-0068-009
Project: 3788 1455 5th Street	Received: 01/07/2002 14:30
Site: Oakland, CA	Extracted: 01/08/2002 17:31
Sampled: 01/04/2002 09:43	QC-Batch: 2002/01/08-01.03
Matrix: Soil	

Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com  
CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	01/08/2002 17:31	
Benzene	ND	0.0050	mg/Kg	1.00	01/08/2002 17:31	
Toluene	ND	0.0050	mg/Kg	1.00	01/08/2002 17:31	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/08/2002 17:31	
Xylene(s)	ND	0.0050	mg/Kg	1.00	01/08/2002 17:31	
MTBE	ND	0.0050	mg/Kg	1.00	01/08/2002 17:31	
<b>Surrogate(s)</b>						
Trifluorotoluene	89.4	53-125	%	1.00	01/08/2002 17:31	
4-Bromofluorobenzene-FID	67.8	58-124	%	1.00	01/08/2002 17:31	



Submission #: 2002-01-0068



Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Test Method: 8015M  
8021B

Attn: Erik Paddleford

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: B-4-12''	Lab Sample ID: 2002-01-0068-013
Project: 3788 1455 5th Street	Received: 01/07/2002 14:30
Site: Oakland, CA	Extracted: 01/08/2002 21:41
Sampled: 01/04/2002 09:50	QC-Batch: 2002/01/08-01.03
Matrix: Soil	

Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	01/08/2002 21:41	
Benzene	ND	0.0050	mg/Kg	1.00	01/08/2002 21:41	
Toluene	0.072	0.0050	mg/Kg	1.00	01/08/2002 21:41	
Ethyl benzene	0.031	0.0050	mg/Kg	1.00	01/08/2002 21:41	
Xylene(s)	0.19	0.0050	mg/Kg	1.00	01/08/2002 21:41	
MTBE	ND	0.0050	mg/Kg	1.00	01/08/2002 21:41	
<i>Surrogate(s)</i>						
Trifluorotoluene	79.6	53-125	%	1.00	01/08/2002 21:41	
Trifluorotoluene-FID	77.0	53-125	%	1.00	01/08/2002 21:41	

Submission #: 2002-01-0068



Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Test Method: 8015M  
8021B

Attn: Erik Paddleford

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#1094

Sample ID: B-5-12	Lab Sample ID: 2002-01-0068-017
Project: 3788 1455 5th Street	Received: 01/07/2002 14:30
Site: Oakland, CA	Extracted: 01/08/2002 22:13
Sampled: 01/04/2002 09:58	QC-Batch: 2002/01/08-01.03
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	01/08/2002 22:13	
Benzene	ND	0.0050	mg/Kg	1.00	01/08/2002 22:13	
Toluene	ND	0.0050	mg/Kg	1.00	01/08/2002 22:13	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/08/2002 22:13	
Xylene(s)	ND	0.0050	mg/Kg	1.00	01/08/2002 22:13	
MTBE	ND	0.0050	mg/Kg	1.00	01/08/2002 22:13	
<b>Surrogate(s)</b>						
Trifluorotoluene	92.5	53-125	%	1.00	01/08/2002 22:13	
4-Bromofluorobenzene-FID	75.8	58-124	%	1.00	01/08/2002 22:13	





Submission #: 2002-01-0068



Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/01/08-01.03**  
 LCS: 2002/01/08-01.03-004    Extracted: 01/08/2002 08:50    Analyzed: 01/08/2002 08:50  
 LCSD: 2002/01/08-01.03-005    Extracted: 01/08/2002 09:21    Analyzed: 01/08/2002 09:21

Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.0980	0.0947	0.1000	0.1000	98.0	94.7	3.4	77-123	35		
Toluene	0.0978	0.0954	0.1000	0.1000	97.8	95.4	2.5	78-122	35		
Ethyl benzene	0.104	0.0995	.100	0.1000	104.0	99.5	4.4	70-130	35		
Xylene(s)	0.288	0.277	0.300	0.300	96.0	92.3	3.9	75-125	35		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	511		500		102.2			58-124			

Submission #: 2002-01-0068



Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#1094

Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/01/08-01.03  
LCS: 2002/01/08-01.03-006    Extracted: 01/08/2002 09:53    Analyzed: 01/08/2002 09:53  
LCSD: 2002/01/08-01.03-007    Extracted: 01/08/2002 10:24    Analyzed: 01/08/2002 10:24

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Gasoline	0.488	0.480	0.500	0.500	97.6	96.0	1.7	75-125	35		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	466	485	500	500	93.2	97.0		58-124			

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/01/10-01.03**  
 LCS: 2002/01/10-01.03-004 Extracted: 01/10/2002 09:34 Analyzed: 01/10/2002 09:34  
 LCSD: 2002/01/10-01.03-005 Extracted: 01/10/2002 10:06 Analyzed: 01/10/2002 10:06

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CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RFD	LCS
Benzene	0.105	0.0972	0.1000	0.1000	105.0	97.2	7.7	77-123	35		
Toluene	0.103	0.0984	0.1000	0.1000	103.0	98.4	4.6	78-122	35		
Ethyl benzene	0.108	0.102	0.1000	0.1000	108.0	102.0	5.7	70-130	35		
Xylene(s)	0.301	0.283	0.300	0.300	100.3	94.3	6.2	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	522	479	500	500	104.4	95.8		53-125			

Submission #: 2002-01-0068



Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/01/10-01.03  
 LCS: 2002/01/10-01.03-006 Extracted: 01/10/2002 10:37 Analyzed: 01/10/2002 10:37  
 LCSD: 2002/01/10-01.03-007 Extracted: 01/10/2002 11:08 Analyzed: 01/10/2002 11:08

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CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.511	0.482	0.500	0.500	102.2	96.4	5.8	75-125	35		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	496	472	500	500	99.2	94.4		58-124			



Submission #: 2002-01-0068



Gas/BTEX Compounds by 8015M/8021

Batch QC Report

Test Method: 8021B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2002/01/08-01.03</b>
Sample ID: B-3-12` >> MS		Lab ID: 2002-01-0068-009
MS: 2002/01/08-01.03-021	Extracted: 01/08/2002 18:03	Analyzed: 01/08/2002 18:03
		Dilution: 1
MSD: 2002/01/08-01.03-022	Extracted: 01/08/2002 18:34	Analyzed: 01/08/2002 18:34
		Dilution: 1

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Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD [%]	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Benzene	0.0833	0.0848	ND	0.0984	0.0990	84.7	85.7	1.2	65-135	35		
Toluene	0.0809	0.0819	ND	0.0984	0.0990	82.2	82.7	0.6	65-135	35		
Ethyl benzene	0.0780	0.0796	ND	0.0984	0.0990	79.3	80.4	1.4	65-135	35		
Xylene(s)	0.215	0.216	ND	.300	0.297	71.7	72.7	1.4	65-135	35		
<b>Surrogate(s)</b>												
Trifluorotoluene	393	397		500	500	78.6	79.4		.53-125			

Submission #: 2002-01-0068



Gas/BTEX Compounds by 8015M/8021

Batch QC Report

Test Method: 8015M

Prep Method: 5035

STL San Francisco  
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Pleasanton, CA 94566

<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2002/01/08-01.03</b>
Sample ID: <b>B-3-12</b> >> MS		Lab ID: 2002-01-0068-009
MS: 2002/01/08-01.03-023	Extracted: 01/08/2002 19:05	Analyzed: 01/08/2002 19:05
		Dilution: 1
MSD: 2002/01/08-01.03-024	Extracted: 01/08/2002 19:36	Analyzed: 01/08/2002 19:36
		Dilution: 1

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Compound	Conc. (mg/Kg)			Exp.Conc.		Recovery [%]		RPD [%]	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Gasoline	0.217	0.367	ND	0.494	0.497	43.9	73.8	50.8	65-135	35	mso	rd
<b>Surrogate(s)</b>												
4-Bromofluoroben	204	317		500	500	40.8	63.4		58-124		slm	

Submission #: 2002-01-0068



Total Lead

<b>Aqua Science Engineers, Inc.</b>	☒ 208 West El Pintado Danville, CA 94526
Attn: Erik Paddleford	Phone: (925) 820-9391 Fax: (925) 837-4853
3788	Project: 1455 5th Street
SiteOakland, CA	

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
B-1-12''	Soil	01/04/2002 09:02	1
B-2-12''	Soil	01/04/2002 09:30	5
B-3-12''	Soil	01/04/2002 09:43	9
B-4-12''	Soil	01/04/2002 09:50	13
B-5-12''	Soil	01/04/2002 09:58	17

Submission #: 2002-01-0068



Total Lead

Aqua Science Engineers, Inc.

Test Method: 6010B

Attn: Erik Paddleford

Prep Method: 3050B

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Pleasanton, CA 94566

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CA DHS ELAP#1094

Sample ID: B-1-12	Lab Sample ID: 2002-01-0068-001
Project: 3788 1455 5th Street	Received: 01/07/2002 14:30
Site: Oakland, CA	Extracted: 01/10/2002 05:27
Sampled: 01/04/2002 09:02	QC-Batch: 2002/01/10-02.15
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	1.7	1.0	mg/Kg	1.00	01/10/2002 08:03	

Submission #: 2002-01-0068



Total Lead

Aqua Science Engineers, Inc.  
Attn: Erik Paddleford

Test Method: 6010B  
Prep Method: 3050B

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1220 Quarry Lane  
Pleasanton, CA 94566

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CA DHS ELAP#1094

Sample ID: B-2-12	Lab Sample ID: 2002-01-0068-005
Project: 3788 1455 5th Street	Received: 01/07/2002 14:30
Site: Oakland, CA	Extracted: 01/10/2002 05:27
Sampled: 01/04/2002 09:30	QC-Batch: 2002/01/10-02.15
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	1600	1.0	mg/Kg	1.00	01/10/2002 08:07	

Submission #: 2002-01-0068



Total Lead

Aqua Science Engineers, Inc.  
Attn: Erik Paddleford

Test Method: 6010B  
Prep Method: 3050B

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CA DHS ELAP#1094

Sample ID: B-3-12	Lab Sample ID: 2002-01-0068-009
Project: 3788 1455 5th Street	Received: 01/07/2002 14:30
Site: Oakland, CA	Extracted: 01/10/2002 05:27
Sampled: 01/04/2002 09:43	QC-Batch: 2002/01/10-02.15
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	390	1.0	mg/Kg	1.00	01/10/2002 08:11	

Submission #: 2002-01-0068



Total Lead

Aqua Science Engineers, Inc.  
Attn: Erik Paddleford

Test Method: 6010B  
Prep Method: 3050B

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CA DHS ELAP#1094

Sample ID: B-4-12	Lab Sample ID: 2002-01-0068-013
Project: 3788 1455 5th Street	Received: 01/07/2002 14:30
Site: Oakland, CA	Extracted: 01/10/2002 05:27
Sampled: 01/04/2002 09:50	QC-Batch: 2002/01/10-02.15
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	1800	1.0	mg/Kg	1.00	01/10/2002 08:15	

Submission #: 2002-01-0068



Total Lead

Aqua Science Engineers, Inc.

Test Method: 6010B

Attn: Erik Paddleford

Prep Method: 3050B

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CA DHS ELAP#1094

Sample ID: B-5-12	Lab Sample ID: 2002-01-0068-017
Project: 3788 1455 5th Street	Received: 01/07/2002 14:30
Site: Oakland, CA	Extracted: 01/10/2002 05:27
Sampled: 01/04/2002 09:58	QC-Batch: 2002/01/10-02.15
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	13	1.0	mg/Kg	1.00	01/10/2002 08:18	



Submission #: 2002-01-0068



Total Lead

Batch QC report

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Method Blank	Soil	QC Batch # 2002/01/10-02.15
MB: 2002/01/10-02.15-011		Date Extracted: 01/10/2002 05:27

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www.chromalab.com

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	01/10/2002 07:47	

Submission #: 2002-01-0068



Total Lead  
Batch QC report

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/01/10-02.15  
LCS: 2002/01/10-02.15-012    Extracted: 01/10/2002 05:27    Analyzed: 01/10/2002 07:52  
LCSD: 2002/01/10-02.15-013    Extracted: 01/10/2002 05:27    Analyzed: 01/10/2002 07:56

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CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Lead	95.9	96.7	100.0	100.0	95.9	96.7	0.8	80-120	20		

Submission #: 2002-01-0068



Total Extractable Petroleum Hydrocarbons (TEPH)

<b>Aqua Science Engineers, Inc.</b>	☒ 208 West El Pintado Danville, CA 94526
Attn: Erik Paddleford	Phone: (925) 820-9391 Fax: (925) 837-4853
3788	Project: 1455 5th Street
SiteOakland, CA	

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Pleasanton, CA 94566

Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#1094

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
B-1-12"	Soil	01/04/2002 09:02	1
B-2-12"	Soil	01/04/2002 09:30	5
B-3-12"	Soil	01/04/2002 09:43	9
B-4-12"	Soil	01/04/2002 09:50	13
B-5-12"	Soil	01/04/2002 09:58	17

Submission #: 2002-01-0068



Total Extractable Petroleum Hydrocarbons (TEPH)

Aqua Science Engineers, Inc.  
Attn: Erik Paddleford

Test Method: 8015M  
Prep Method: 3550/8015M

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Pleasanton, CA 94566

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www.chromalab.com

CA DHS ELAP#1094

Sample ID: B-1-12	Lab Sample ID: 2002-01-0068-001
Project: 3788 1455 5th Street	Received: 01/07/2002 14:30
Site: Oakland, CA	Extracted: 01/07/2002 13:42
Sampled: 01/04/2002 09:02	QC-Batch: 2002/01/07-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	01/08/2002 08:35	
Motor Oil	ND	50	mg/Kg	1.00	01/08/2002 08:35	
<i>Surrogate(s)</i>						
o-Terphenyl	77.4	60-130	%	1.00	01/08/2002 08:35	

Submission #: 2002-01-0068



Total Extractable Petroleum Hydrocarbons (TEPH)

Aqua Science Engineers, Inc.

Test Method: 8015M

Attn: Erik Paddleford

Prep Method: 3550/8015M

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Pleasanton, CA 94566

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CA DHS ELAP#1094

Sample ID: B-2-12	Lab Sample ID: 2002-01-0068-005
Project: 3788 1455 5th Street	Received: 01/07/2002 14:30
Site: Oakland, CA	Extracted: 01/07/2002 13:42
Sampled: 01/04/2002 09:30	QC-Batch: 2002/01/07-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	3.2	1.0	mg/Kg	1.00	01/08/2002 10:28	ndp
Motor Oil	ND	50	mg/Kg	1.00	01/08/2002 10:28	
<i>Surrogate(s)</i>						
o-Terphenyl	74.7	60-130	%	1.00	01/08/2002 10:28	

Submission #: 2002-01-0068



Total Extractable Petroleum Hydrocarbons (TEPH)

Aqua Science Engineers, Inc.  
Attn: Erik Paddleford

Test Method: 8015M  
Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID: B-3-12`	Lab Sample ID: 2002-01-0068-009
Project: 3788 1455 5th Street	Received: 01/07/2002 14:30
Site: Oakland, CA	Extracted: 01/07/2002 13:42
Sampled: 01/04/2002 09:43	QC-Batch: 2002/01/07-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	3.6	1.0	mg/Kg	1.00	01/08/2002 13:37	ndp
Motor Oil	ND	50	mg/Kg	1.00	01/08/2002 13:37	
<b>Surrogate(s)</b>						
o-Terphenyl	87.1	60-130	%	1.00	01/08/2002 13:37	

Submission #: 2002-01-0068



Total Extractable Petroleum Hydrocarbons (TEPH)

Aqua Science Engineers, Inc.

Test Method: 8015M

Attn: Erik Paddleford

Prep Method: 3550/8015M

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Pleasanton, CA 94566

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CA DHS ELAP#1094

Sample ID: B-4-12	Lab Sample ID: 2002-01-0068-013
Project: 3788 1455 5th Street	Received: 01/07/2002 14:30
Site: Oakland, CA	Extracted: 01/07/2002 13:42
Sampled: 01/04/2002 09:50	QC-Batch: 2002/01/07-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	10	1.0	mg/Kg	1.00	01/08/2002 12:59	ndp
Motor Oil	130	50	mg/Kg	1.00	01/08/2002 12:59	
<i>Surrogate(s)</i>						
o-Terphenyl	84.5	60-130	%	1.00	01/08/2002 12:59	

Submission #: 2002-01-0068



Total Extractable Petroleum Hydrocarbons (TEPH)

Aqua Science Engineers, Inc.  
Attn: Erik Paddleford

Test Method: 8015M  
Prep Method: 3550/8015M

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Pleasanton, CA 94566

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www.chromalab.com

CA DHS ELAP#1094

Sample ID: B-5-12	Lab Sample ID: 2002-01-0068-017
Project: 3788 1455 5th Street	Received: 01/07/2002 14:30
Site: Oakland, CA	Extracted: 01/07/2002 13:42
Sampled: 01/04/2002 09:58	QC-Batch: 2002/01/07-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	01/08/2002 09:51	
Motor Oil	ND	50	mg/Kg	1.00	01/08/2002 09:51	
<b>Surrogate(s)</b>						
o-Terphenyl	86.8	60-130	%	1.00	01/08/2002 09:51	





Submission #: 2002-01-0068



Total Extractable Petroleum Hydrocarbons (TEPH)

Batch QC report

Test Method: 8015M

Prep Method: 3550/8015M

Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/01/07-02.10  
LCS: 2002/01/07-02.10-002 Extracted: 01/07/2002 13:42 Analyzed: 01/08/2002 06:04  
LCSD: 2002/01/07-02.10-003 Extracted: 01/07/2002 13:42 Analyzed: 01/08/2002 06:42

STL San Francisco  
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Pleasanton, CA 94566

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www.chromalab.com

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel <i>Surrogate(s)</i>	44.9	43.0	41.7	41.7	107.7	103.1	4.4	60-130	25		
o-Terphenyl	18.5	17.7	20.0	20.0	92.3	88.3		60-130	0		

Submission #: 2002-01-0068



Total Extractable Petroleum Hydrocarbons (TEPH)

Legend & Notes

Test Method: 8015M

Prep Method: 3550/8015M

Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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CA DHS ELAP#1094

Aqua Science Engineers, Inc.  
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 Danville, CA 94526  
 (925) 820-9391  
 FAX (925) 837-4853

# Chain of Custody 2002-01-0068

63982

PAGE 1 OF 2

SAMPLER (SIGNATURE) E. Padgett (PHONE NO.) \_\_\_\_\_ PROJECT NAME 1455 5<sup>th</sup> Street JOB NO. 3788  
 ADDRESS Oakland, CA

## ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:					TPH-GAS (MTBE & BTEX) (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015)	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	FURGEABLE HALOCARBONS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/8240/8260)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	OIL & GREASE (EPA 5520)	LUFT METALS (5) (EPA 6010+7000)	CAM 17 METALS (EPA 6010+7000)	PCBs & PESTICIDES (EPA 608/8080)	ORGANOPHOSPHORUS PESTICIDES (EPA 8140 EPA 608/8080)	FUEL OXYGENATES (EPA 8260)	Pb (TOTAL or DISSOLVED) (EPA 6010)	TPH-G/BTEX/5 OXY'S (EPA 8260)	TPH-G/BTEX/7 OXY'S / HYOC5 (EPA 8260)	COMPOSITE
SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES																
B-1-12"	1/4/02	902	Soil	1	X		X										X			
B-1-24"		906																		X
B-1-36"		912																		X
B-1-48"		916																		X
B-2-12"		930			X		X										X			
B-2-24"		935																		X
B-2-36"		939																		X
B-2-48"		942																		X
B-3-12"		943			X		X										X			
B-3-24"		944																		X
B-3-36"		941																		X

RELINQUISHED BY: <u>E. Padgett</u> (signature) (time)	RECEIVED BY: <u>[Signature]</u> (signature) (time) 0920	RELINQUISHED BY: <u>[Signature]</u> (signature) (time) 1430	RECEIVED BY LABORATORY: <u>D. Harrington</u> 1430 (signature) (time)	COMMENTS:  4.5°C  TURN AROUND TIME STANDARD 24H 48H 72H OTHER:
<u>E. Padgett</u> (printed name) (date)	<u>B. Morris</u> 1/7/02 (printed name) (date)	<u>B. Morris</u> (printed name) (date) 1/7/02	<u>D. Harrington</u> 1/2/02 (printed name) (date)	
Company: <u>AE</u>	Company: <u>STL SF</u>	Company: <u>STL SF</u>	Company: <u>STL-CU</u>	

Aqua Science Engineers, Inc.  
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# Chain of Custody

63982  
 2002-01-0068

PAGE 2 OF 2

SAMPLER (SIGNATURE) E. Adolph (PHONE NO.) \_\_\_\_\_

PROJECT NAME 1455 5th St JOB NO. 3288  
 ADDRESS Oakland, CA

## ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GAS (MTBE & BTEX) (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015)	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	PURGEABLE HALOCARBONS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/8240/8260)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	OIL & GREASE (EPA 5520)	LIFT METALS (5) (EPA 6010+7000)	CATIONIC METALS (EPA 6010+7000)	PCBs & PESTICIDES (EPA 608/8080)	ORGANOPHOSPHORUS PESTICIDES (EPA 8140 EPA 608/8080)	FUEL OXYGENATES (EPA 8260)	Pb (TOTAL & DISSOLVED) (EPA 6010)	TPH-G/BTEX/5 OXY'S (EPA 8260)	TPH-G/BTEX/17 OXY'S / HYD'S (EPA 8260)	COMPOSITE	
																					Hold
B-3-48"	1/4/02	938	Soil	1																	
B-4-12"		950			X		X										X			X	
B-4-24"		951																		X	
B-4-36"		948																		X	
B-4-48"		946																		X	
B-5-12"		958			X		X										X			X	
B-5-24"		1000																		X	
B-5-36"		956																		X	
B-5-48"		954																		X	

RELINQUISHED BY: E. Adolph  
 (signature) (time)

RECEIVED BY: [Signature] 0920  
 (signature) (time)

RELINQUISHED BY: [Signature]  
 (signature) (time) 1430

RECEIVED BY LABORATORY: D. Harrington 1430  
 (signature) (time)

COMMENTS:

E. Adolph  
 (printed name) (date)

[Signature] 1/7/02  
 (printed name) (date)

[Signature]  
 (printed name) (date) 1/7/02

D. Harrington 1/7/02  
 (printed name) (date)

TURN AROUND TIME

Company: ASE

Company: STC-SF

Company: STC-SF

Company: STC-CL

STANDARD 24hr 48hr 72hr  
 OTHER:

Submission #: 2002-01-0311

Date: January 24, 2002



**Aqua Science Engineers, Inc.**

208 West El Pintado Road  
Danville, CA 94526

Attn: Mr. Robert Kitay

Project: 3788  
1455 5th Street

**STL San Francisco**  
1220 Quarry Lane  
Pleasanton, CA 94566

Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com  
CA DHS ELAP#1094

Dear Mr. Kitay,

Attached is our report for your samples received on Monday January 7, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
February 21, 2002 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,  
please call me at (925) 484-1919.

You can also contact me via email. My email address is: [vvancil@chromalab.com](mailto:vvancil@chromalab.com)

Sincerely,

A handwritten signature in black ink, appearing to read "V. Vancil". The signature is stylized with a large, sweeping loop at the end.

Vincent Vancil  
Project Manager

Submission #: 2002-01-0311



Total Lead

Aqua Science Engineers, Inc.	☒ 208 West El Pintado Road Danville, CA 94526
Attn: Robert Kitay	Phone: (925) 820-9391 Fax: (925) 837-4853
3788	Project: 1455 5th Street

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#1094

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
B-1-24	Soil	01/04/2002 09:06	1
B-2-24	Soil	01/04/2002 09:35	2
B-3-24	Soil	01/04/2002 09:44	3
B-4-24	Soil	01/04/2002 09:51	4
B-5-24	Soil	01/04/2002 10:00	5

Submission #: 2002-01-0311

Total Lead

Aqua Science Engineers, Inc.  
Attn: Robert Kitay

Test Method: 6010B  
Prep Method: 3050B



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#1094

Sample ID: <b>B-1-24</b>	Lab Sample ID: 2002-01-0311-001
Project: 3788 1455 5th Street	Received: 01/07/2002
Sampled: 01/04/2002 09:06	Extracted: 01/21/2002 16:49
Matrix: Soil	QC-Batch: 2002/01/21-09.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	1.9	1.0	mg/Kg	1.00	01/22/2002 09:29	



Submission #: 2002-01-0311



Total Lead

Aqua Science Engineers, Inc.  
Attn: Robert Kitay

Test Method: 6010B  
Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#1094

Sample ID: B-2-24	Lab Sample ID: 2002-01-0311-002
Project: 3788 1455 5th Street	Received: 01/07/2002
Sampled: 01/04/2002 09:35	Extracted: 01/21/2002 16:49
Matrix: Soil	QC-Batch: 2002/01/21-09.15

Compound	Result	Rep. Limit	Units	Dilution	Analyzed	Flag
Lead	38	1.0	mg/Kg	1.00	01/22/2002 09:32	

Submission #: 2002-01-0311



Total Lead

Aqua Science Engineers, Inc.  
Attn: Robert Kitay

Test Method: 6010B  
Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#1094

Sample ID: B-3-24	Lab Sample ID: 2002-01-0311-003
Project: 3788 1455 5th Street	Received: 01/07/2002
Sampled: 01/04/2002 09:44	Extracted: 01/21/2002 16:49
Matrix: Soil	QC-Batch: 2002/01/21-09.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	2.2	1.0	mg/Kg	1.00	01/22/2002 09:43	

Submission #: 2002-01-0311



Total Lead

Aqua Science Engineers, Inc.  
Attn: Robert Kitay

Test Method: 6010B  
Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#1094

Sample ID: <b>B-4-24</b>	Lab Sample ID: 2002-01-0311-004
Project: 3788 1455 5th Street	Received: 01/07/2002
Sampled: 01/04/2002 09:51	Extracted: 01/21/2002 16:49
Matrix: Soil	QC-Batch: 2002/01/21-09.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	4.5	1.0	mg/Kg	1.00	01/22/2002 09:47	

Submission #: 2002-01-0311



Total Lead

Aqua Science Engineers, Inc.

Test Method: 6010B

Attn: Robert Kitay

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: B-5-24	Lab Sample ID: 2002-01-0311-005
Project: 3788 1455 5th Street	Received: 01/07/2002
Sampled: 01/04/2002 10:00	Extracted: 01/21/2002 16:49
Matrix: Soil	QC-Batch: 2002/01/21-09.15

Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#1094

Compound	Result	Rep. Limit	Units	Dilution	Analyzed	Flag
Lead	1.8	1.0	mg/Kg	1.00	01/22/2002 11:40	

Submission #: 2002-01-0311



Total Lead

Batch QC report

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/01/21-09.15</b>
MB: 2002/01/21-09.15-011		Date Extracted: 01/21/2002 16:49

Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	01/22/2002 09:13	

Submission #: 2002-01-0311



Total Lead  
Batch QC report

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/01/21-09.15  
LCS: 2002/01/21-09.15-012    Extracted: 01/21/2002 16:49    Analyzed: 01/22/2002 09:17  
LCSD: 2002/01/21-09.15-013    Extracted: 01/21/2002 16:49    Analyzed: 01/22/2002 09:21

Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Lead	83.2	90.0	100.0	100.0	83.2	90.0	7.9	80-120	20		

**ADD ON/CHANGE  
ORDER**

**2002-01-0311**

New Submission No.: \_\_\_\_\_

Reference No.: 64219

**ORIGINAL SUBMISSION INFORMATION**

Name of Caller: Robert Kiley

Call Date: \_\_\_\_\_

Client Name: Agua Secura

Add on Due Date: 5 day

Project Mgr.: Robert Kiley

Comments: Due 01/25/02

Project Name: 1455 5<sup>th</sup> St.

Project No.: 3788

PO#: \_\_\_\_\_

Date Received: 1-7-02

Submission No.: 2002-01-0068

**ANALYSIS REQUEST**

Sample ID	Date	Time	Mat rix	Prev. Spl. #	TPH (EPA 8015, 8020, 8021) <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) <input type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other _____	Fuel Oxygenates (8260B) <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Full Oxygenate List <input type="checkbox"/> MTBE <input type="checkbox"/> BTEX	Purgeable Halocarbons (HVOCs) (EPA 8010/8021)	Volatile Organics GC/MS (VOCs) (EPA 8260A/8260B)	Semivolatiles GC/MS (EPA 8270)	Oil & Grease <input type="checkbox"/> Petrol (EPA 1664) <input type="checkbox"/> Total	<input type="checkbox"/> Pesticides (EPA 8081) <input type="checkbox"/> PCBs (EPA 8082)	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM 17 Metals (EPA 6010/7470/7471)	Metals: <input checked="" type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other _____	<input type="checkbox"/> W.E.T. (STLC) <input type="checkbox"/> TCLP	<input type="checkbox"/> Hexavalent Chromium <input type="checkbox"/> pH (24 hr. hold time for H <sub>2</sub> O)	<input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub> <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub>	NUMBER OF CONTAINERS
B-1-24	01-07-02	9:06	S	002												X					
B-2-24		9:35		006																	
B-3-24		9:44		010																	
B-4-24		9:51		014																	
B-5-24		10:00		018																	