

**Soil and Ground Water**

**Quality Evaluation** (hydraulic  
tests)

1675 7<sup>th</sup> Street

Oakland Vehicle Maintenance Facility

Oakland, California

3/20/00

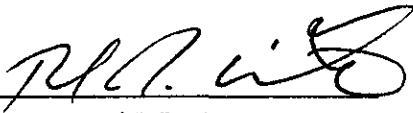
This report has been prepared for:

**United States Postal Service**


1675 7th Street, Room 219, Oakland, California 94615-9988

March 20, 2000

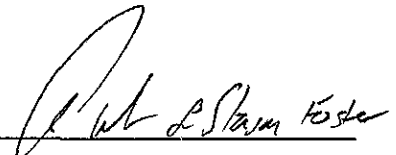
Project No. 864-40D



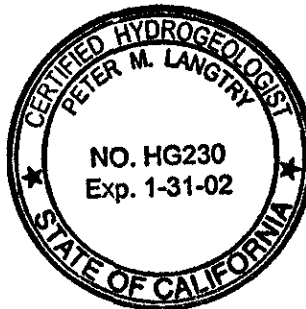
Paul J. Reginato  
Senior Staff Engineer



Peter M. Langtry, R.G., C.H.G.  
Principal Environmental  
Geologist



Stason I. Foster, P.E.  
Principal Environmental  
Engineer



Mountain View

Oakland

Pasadena

San Ramon

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**SOIL AND GROUND WATER QUALITY EVALUATION  
OAKLAND VEHICLE MAINTENANCE FACILITY  
1675 7<sup>TH</sup> STREET  
OAKLAND, CALIFORNIA**

## **1.0 INTRODUCTION**

### **1.1 Purpose**

In this report, we present the results of the soil and ground water quality evaluation performed at the United States Postal Service (USPS) Vehicle Maintenance Facility (VMF), located at 1675 7<sup>th</sup> Street in Oakland, California (Figure 1). This work was performed for USPS at the request of Alameda County Environmental Health Services (ACEHS) to evaluate soil and ground water quality near the subsurface hydraulic lifts. Our scope of work was presented to ACEHS in our January 21, 2000 work plan, which was approved by ACEHS in their February 3, 2000 letter.

### **1.2 Site Background**

On August 16, 1999, staff geologist John McCain directed a subsurface exploration program and advanced six borings (EB-1 through EB-6) to an approximate depth of 15 to 20 feet using a hydraulic coring rig. Two borings were located next to each hydraulic lift (Figure 2). Concentrations of total recoverable petroleum hydrocarbons (TRPH) were detected in soil samples collected from borings EB-1 and EB-3 at concentrations of 22,000 ppm and 48,000 ppm respectively. TRPH was detected in ground water samples collected from borings EB-1 and EB-3 at concentrations of 61 ppm, and 38 ppm respectively (Lowney Associates, 1999).

### **1.3 Scope of Work**

The scope of work for this study was outlined in our agreement dated November 18, 1999 and included the following tasks.

- ▼ Submittal of a work plan to ACEHS for their approval.
- ▼ Drilling and logging of seven exploratory borings.
- ▼ Collection of selected soil and ground water samples for laboratory analysis.

## **2.0 SOIL AND GROUND WATER QUALITY EVALUATION**

### **2.1 Subsurface Investigation**

On March 6, 2000 and under the supervision of Principal Environmental Geologist Peter Langtry, staff geologist John McCain directed a subsurface exploration program and logged seven borings (EB-7 through EB-12) to approximate depths of 17 to 18 feet. The boring locations were selected to evaluate extent of impacted

soil and ground water up-gradient and down-gradient of the lifts; the ground water flow direction is anticipated to be toward the south. Soil samples were obtained from the borings at 5-foot depth intervals. Ground water was encountered at an approximate depth of 10 to 13 feet. Soil sampling protocol and a copy of the drilling permit is presented in Appendix A.

Two soil samples were collected from each boring at approximate depths of 7½ to 10 feet and 10½ to 13 feet, up to approximately 3 feet below the base depth of the hydraulic lifts. Soil samples were selected for laboratory analysis based on the depth of the lifts, and depth of previous samples collected adjacent to the lifts. No discolored soil, sheen, or petroleum odors were encountered in the borings.

## 2.2 Soil Sample Collection and Analyses

Two soil samples collected from each boring were analyzed at a state-certified laboratory total recoverable petroleum hydrocarbons (TRPH) (Standard Test Method 5520EF) and benzene, toluene, ethyl benzene, and xylenes (BTEX) (EPA Test Method 8020). These analyses were selected to help evaluate if the soils surrounding the lifts had been impacted by hydraulic fluid from the lifts.

Analytical results are presented in Table 1 and on Figure 2. Copies of the analytical reports and chain of custody documentation are presented in Appendix B.

**Table 1. Analytical Results of Selected Soil Samples**  
(concentrations in parts per million)

Boring Number	Depth (feet)	TPRH	Benzene	Toluene	Ethyl-benzene	Xylenes
EB-7	7½-8	<50	<0.005	<0.005	<0.005	<0.005
EB-7	10½-11	<50	<0.005	<0.005	<0.005	<0.005
EB-8	7½-8	<50	<0.005	<0.005	<0.005	<0.005
EB-8	10½-11	<50	<0.005	<0.005	<0.005	<0.005
EB-9	9½-10	<50	<0.005	<0.005	<0.005	<0.005
EB-9	12½-13	<50	<0.005	<0.005	<0.005	<0.005
EB-10	7½-8	<50	<0.005	<0.005	<0.005	<0.005
EB-10	10½-11	<50	<0.005	<0.005	<0.005	<0.005
EB-11	7½-8	<50	<0.005	<0.005	<0.005	<0.005
EB-11	10½-11	<50	<0.005	<0.005	<0.005	<0.005
EB-12	7½-8	<50	<0.005	<0.005	<0.005	<0.005
EB-12	9½-10	<50	<0.005	<0.005	<0.005	<0.005
EB-13	7½-8	<50	<0.005	<0.005	<0.005	<0.005
EB-13	9½-10	<50	<0.005	<0.005	<0.005	<0.005
EB-13	9½-10	<50	<0.005	<0.005	<0.005	<0.005

< Indicates that the compound was not detected at or above the stated laboratory reporting limit

### 2.3 Ground Water Sample Collection and Analyses

To evaluate ground water quality at the site, one ground water grab sample was collected from each boring. A copy of the ground water sampling protocol is presented in Appendix A.

The ground water samples were also analyzed for TRPH (Standard Test Method 5520EF) and BTEX (EPA Test Method 8020). These analyses were also selected to help evaluate if ground water in the area of the lifts had been impacted by hydraulic fluid. Analytical results are shown in Table 2 and on Figure 3. Copies of the analytical reports and chain of custody documentation are presented in Appendix B.

**Table 2. Analytical Results of Selected Ground Water Samples**  
(concentrations in parts per billion)

Sample Number	Date	TRPH	Benzene	Toluene	Ethyl-benzene	Xylenes
EB-7	3/06/00	<1,600	<0.5	<0.5	<0.5	<0.5
EB-8	3/06/00	<1,600	<0.5	<0.5	<0.5	<0.5
EB-9	3/06/00	<1,400	<0.5	<0.5	<0.5	<0.5
EB-10	3/06/00	<1,500	<0.5	<0.5	<0.5	<0.5
EB-11	3/06/00	<1,400	<0.5	<0.5	<0.5	<0.5
EB-12	3/06/00	<1,000	<0.5	<0.5	<0.5	<0.5
EB-13	3/06/00	<1,300	<0.5	<0.5	<0.5	<0.5
MCL*		NE	1.0	150.	700	1,750

< Indicates that the compound was not detected at or above the stated laboratory reporting limit

\* Drinking water Maximum Contaminant Levels—California DHS, February 11, 2000

NE Not established

### 3.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the laboratory analyses, TRPH and BTEX were not detected in the 14 soil and 7 ground water samples collected from the on-site borings. It appears that soil and ground water impacted by leaking hydraulic fluid from the subsurface lifts is limited to the area immediately surrounding the lifts; it does not appear to be significantly migrating. We understand that the USPS has replaced the hydraulic lifts. Because the source of the oil range hydrocarbons has been removed, the potential for further impacts to soil and ground water quality has been reduced. In addition, any remaining hydrocarbons located beneath the building would be expected to naturally degrade over time.

We recommend that a copy of this report be sent to Alameda County Environmental Health Services for their review.

#### 4.0 LIMITATIONS

This report was prepared for the use of United States Postal Service in evaluating soil and ground water quality at the Oakland Vehicle Maintenance Facility at the time of this study. We make no warranty, expressed or implied, except that our services have been performed in accordance with environmental principles generally accepted at this time and location. The chemical and other data presented in this report can change over time and are applicable only to the time this study was performed. We are not responsible for the data presented by others.

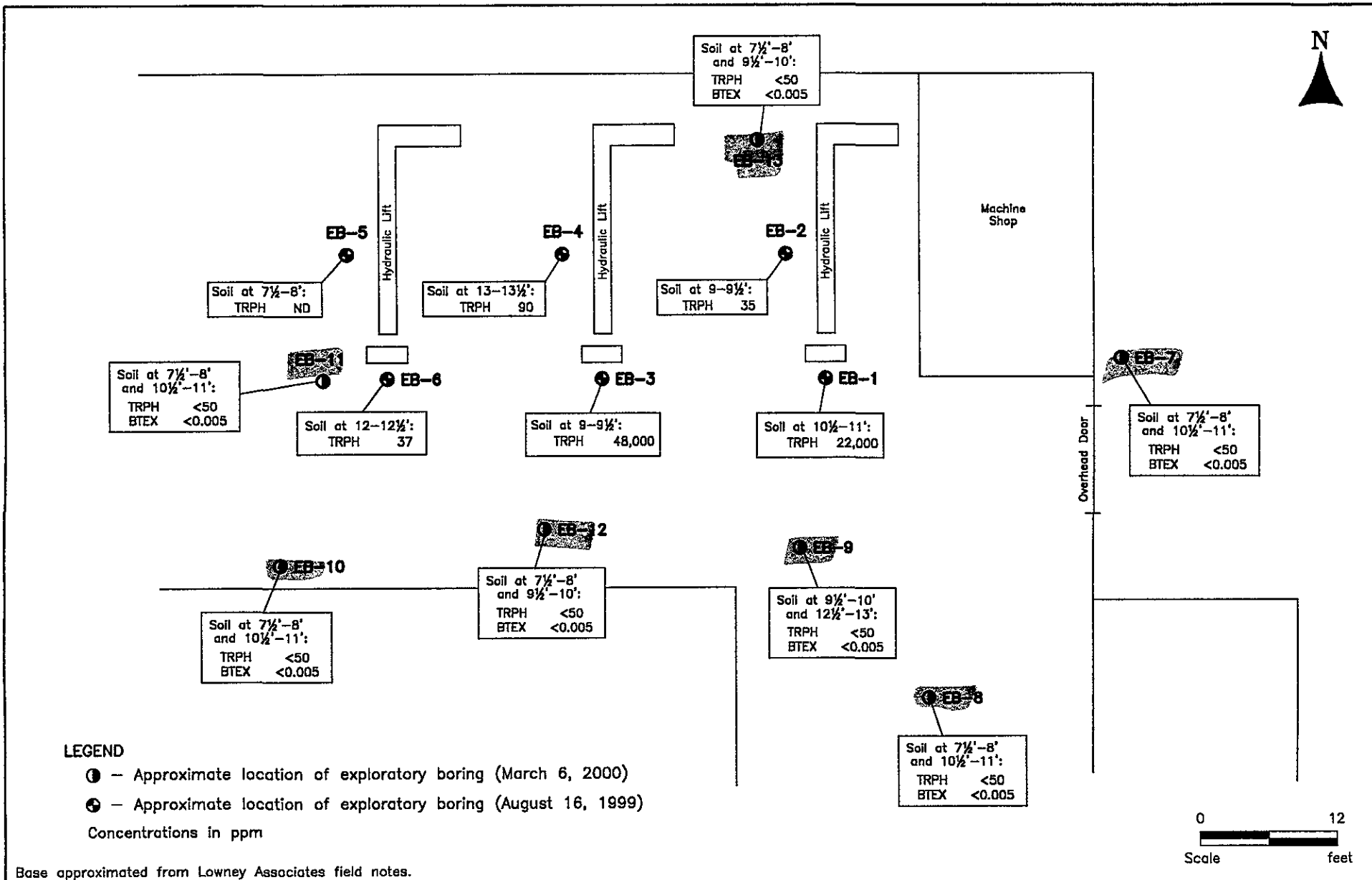
The accuracy and reliability of geo- or hydrochemical studies are a reflection of the number and type of samples taken and extent of the analyses conducted, and are thus inherently limited and dependent upon the resources expended. Chemical analyses were performed for specific parameters during this investigation, as detailed in the scope of services. Please note that additional constituents not analyzed for during this investigation may be present in soil and ground water at the site. Our sampling and analytical plan was designed using accepted environmental principles and our judgment for the performance of a reconnaissance soil and ground water quality investigation, and was based on the degree of investigation desired by you. It is possible to obtain a greater degree of certainty, if desired, by implementing a more rigorous soil and ground water sampling program or evaluating the risk posed by the contaminants detected, if any.

#### 5.0 REFERENCES

Lowney Associates. October 8, 1999. *Soil and Ground Water Quality Evaluation, USPS Vehicle Maintenance Facilities, Oakland and Richmond, California.*

\* \* \* \* \*

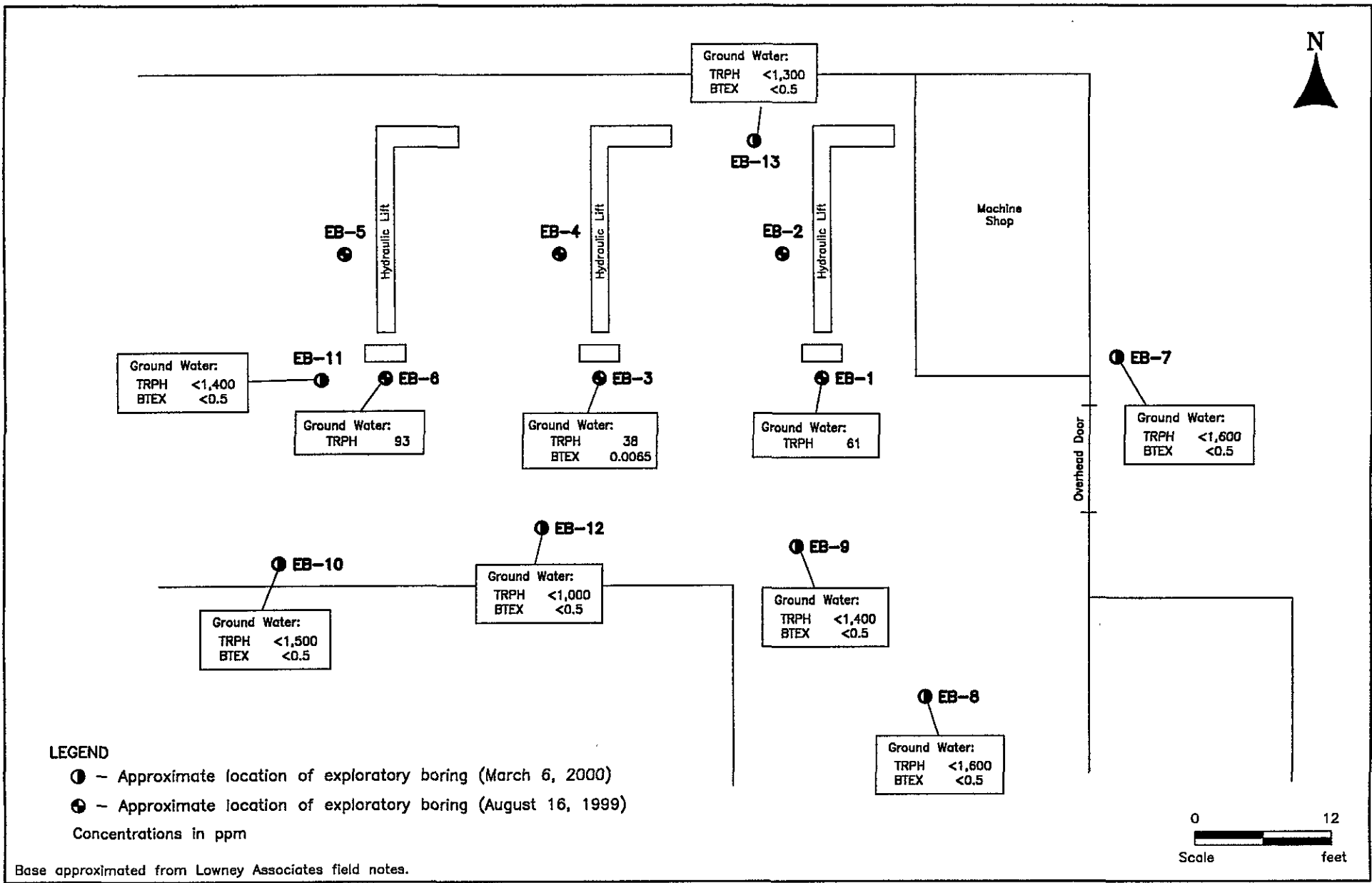




**SITE PLAN/SOIL RESULTS**

OAKLAND VMF  
Oakland, California





**SITE PLAN/GROUND WATER RESULTS**

OAKLAND VMF  
Oakland, California

**APPENDIX A**  
**SUBSURFACE INVESTIGATION AND SOIL AND**  
**GROUND WATER SAMPLING PROTOCOL**

**Drilling:** The subsurface investigation was performed on March 6, 2000 using a truck-mounted Geoprobe hydraulic coring rig. The seven soil borings were drilled to their respective depths (see report), which included at least 5 to 8 feet into ground water. Soil samples were collected continuously using a 2-inch-diameter push sampler. Attached is a copy of the drilling permit application.

**Soil Sampling:** Soil samples for laboratory analysis were collected in acetate liners. The ends of the liners were covered in aluminum foil or Teflon film, fitted with plastic end caps, taped, and labeled with a unique identification number. The samples were then placed in an ice-chilled cooler, and transported to a state-certified analytical laboratory with chain of custody documentation.

**Ground Water Sampling:** Ground water grab samples were collected from each boring by converting each boring into "temporary" with the installation of 1-inch I.D. flush-threaded, Schedule 40 PVC casing. The casing in the lower portion of the well had 0.02-inch factory machined slots. Ground water samples were collected from the temporary wells with a stainless-steel bailer. Samples were collected in appropriate sample bottles, labeled, and immediately placed into an ice-chilled chest for delivery to a state-certified analytical laboratory for analysis.

**Equipment Decontamination:** All drilling and sampling equipment was cleaned in a solution of laboratory grade detergent and distilled water or steam cleaned before use at each sampling point.



# ALAMEDA COUNTY PUBLIC WORKS AGENCY

## WATER RESOURCES SECTION

551 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651  
PHONE (510) 670-5375 ANDREAS GODFREY FAX (510) 670-5262  
(510) 670-5248 ALVIN KAN

### DRILLING PERMIT APPLICATION

#### FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT United States  
Post Office  
1675 7th Street  
Oakland, CA 94615-9988

CLIENT USPS  
Address 1675 7th St Phone 510-874-8536  
City Oakland, CA Zip 94615-9988

APPLICANT Louney Associates - John McLain  
Address 129 Filbert St Phone 510-267-1972  
City Oakland, CA Zip 94607

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:  
Rod Rotary  Air Rotary  Auger   
Cable  Other  Geoprobe

DRILLER'S LICENSE NO. C57-705927

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

GEOTECHNICAL PROJECTS  
Number of Borings \_\_\_\_\_ Maximum Depth \_\_\_\_\_ ft.  
Bore Diameter 2 in.

ESTIMATED STARTING DATE 12-8-99  
ESTIMATED COMPLETION DATE 12-8-99

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-6E.

APPLICANT'S SIGNATURE John McLain DATE 11-15-99

#### FOR OFFICE USE

PERMIT NUMBER 99WR-10107  
WELL NUMBER \_\_\_\_\_  
APN \_\_\_\_\_

#### PERMIT CONDITIONS

- Circled Permit Requirements Apply
- A. GENERAL
    1. A permit application should be submitted to us to arrive at the ACPWA office five days prior to proposed starting date.
    2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
    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 trowel.
    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 trowel.
    2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
  - D. GEOTECHNICAL
 

Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, troweled cement grout shall be used in place of compacted cuttings.
  - E. CATHODIC
 

Fill hole above anode zone with concrete placed by trowel.
  - F. WELL DESTRUCTION
 

See attached.
  - G. SPECIAL CONDITIONS
 

SEE ATTACHED
- APPROVED: Frank L. Codd DATE 11-23-99

**APPENDIX B**  
**ANALYTICAL REPORTS**

The chilled samples were delivered to a state-certified analytical laboratory. Chain of custody documentation was maintained for all samples. Attached are copies of the analytical results and the chain of custody forms.

**Lowney & Associates Oakland**

129 Filbert Street  
Oakland, Ca 94607

Attn.: Mr. John McCain

Project: 864-40D  
OAKLAND VMF

Dear Mr. McCain,

Attached is our report for your samples received on Tuesday March 7, 2000  
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 April 6, 2000  
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: [gcook@chromalab.com](mailto:gcook@chromalab.com)

Sincerely,



Gary Cook

Petroleum Oil & Grease

Lowney & Associates Oakland

☒ 129 Filbert Street  
Oakland, Ca 94607

Attn: John McCain

Phone: (510) 267-1970 Fax: (510) 267-1972

Project #: 864-40D

Project: OAKLAND VMF

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB-7	Water	03/06/2000	17
EB-8	Water	03/06/2000	18
EB-9	Water	03/06/2000	19
EB-10	Water	03/06/2000	20
EB-11	Water	03/06/2000	21
EB-12	Water	03/06/2000	22
EB-13	Water	03/06/2000	23

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 B & F

Attn.: John McCain

Prep Method: 5520 B & F

Petroleum Oil & Grease

Sample ID: <b>EB-7</b>	Lab Sample ID: <b>2000-03-0102-017</b>
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/10/2000
Matrix: Water	QC-Batch: 2000/03/10-02.23
Sample/Analysis Flag rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil and Grease (Petroleum)	ND	1.6	mg/L	1.55	03/13/2000	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 B & F

Attn.: John McCain

Prep Method: 5520 B & F

Petroleum Oil & Grease

Sample ID: <b>EB-8</b>	Lab Sample ID: <b>2000-03-0102-018</b>
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/10/2000
Matrix: Water	QC-Batch: 2000/03/10-02.23
Sample/Analysis Flag rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil and Grease (Petroleum)	ND	1.6	mg/L	1.59	03/13/2000	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096



# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 B & F

Attn.: John McCain

Prep Method: 5520 B & F

Petroleum Oil & Grease

Sample ID: <b>EB-9</b>	Lab Sample ID: <b>2000-03-0102-019</b>
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/10/2000
Matrix: Water	QC-Batch: 2000/03/10-02.23
Sample/Analysis Flag ri ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil and Grease (Petroleum)	ND	1.4	mg/L	1.45	03/13/2000	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 B & F

Attn.: John McCain

Prep Method: 5520 B & F

## Petroleum Oil & Grease

Sample ID: <b>EB-10</b>	Lab Sample ID: <b>2000-03-0102-020</b>
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/10/2000
Matrix: Water	QC-Batch: 2000/03/10-02.23
Sample/Analysis Flag rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil and Grease (Petroleum)	ND	1.5	mg/L	1.47	03/13/2000	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 B & F

Attn.: John McCain

Prep Method: 5520 B & F

Petroleum Oil & Grease

Sample ID: <b>EB-11</b>	Lab Sample ID: <b>2000-03-0102-021</b>
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/10/2000
Matrix: Water	QC-Batch: 2000/03/10/02.23
Sample/Analysis Flag rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil and Grease (Petroleum)	ND	1.4	mg/L	1.45	03/13/2000	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 B & F

Attn.: John McCain

Prep Method: 5520 B & F

Petroleum Oil & Grease

Sample ID: <b>EB-12</b>	Lab Sample ID: <b>2000-03-0102-022</b>
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/10/2000
Matrix: Water	QC-Batch: 2000/03/10-02.23

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil and Grease (Petroleum)	ND	1.0	mg/L	1.00	03/13/2000	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 B & F

Attn.: John McCain

Prep Method: 5520 B & F

## Petroleum Oil & Grease

Sample ID: <b>EB-13</b>	Lab Sample ID: <b>2000-03-0102-023</b>
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/10/2000
Matrix: Water	QC-Batch: 2000/03/10+02.23
Sample/Analysis Flag rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil and Grease (Petroleum)	ND	1.3	mg/L	1.27	03/13/2000	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**  
Attn.: John McCain

Test Method: 5520 B & F  
Prep Method: 5520 B & F

## Batch QC Report Petroleum Oil & Grease

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2000/03/10-02.23</b>
MB: 2000/03/10-02.23-001		Date Extracted: 03/10/2000

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Oil and Grease (Petroleum)	ND	1	mg/L	03/13/2000	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 B & F

Attn: John McCain

Prep Method: 5520 B & F

## Batch QC Report

Petroleum Oil & Grease

### Laboratory Control Spike (LCS/LCSD)

Water

QC Batch # 2000/03/10-02.23

LCS: 2000/03/10-02.23-002

Extracted: 03/10/2000

Analyzed 03/13/2000

LCSD: 2000/03/10-02.23-003

Extracted: 03/10/2000

Analyzed 03/13/2000

Compound	Conc. [mg/L]		Exp. Conc. [mg/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Oil and Grease	19.2	18.3	20.0	20.0	96.0	91.5	4.8	80-120	20		

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

To: **Lowney & Associates Oakland**

Attn: John McCain

Test Method: 5520 B & F

Prep Method: 5520 B & F

## Legend & Notes

Petroleum Oil & Grease

## Analysis Flags

rl

Reporting limits raised due to reduced sample size.



Petroleum Oil & Grease

Lowney & Associates Oakland

☒ 129 Filbert Street  
Oakland, Ca 94607

Attn: John McCain

Phone: (510) 267-1970 Fax: (510) 267-1972

Project #: 864-40D

Project: OAKLAND VMF

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
EB-7(7.5-8')	Soil	03/06/2000	2
EB-7(10.5-11')	Soil	03/06/2000	3
EB-8(7.5-8')	Soil	03/06/2000	4
EB-8(10.5-11')	Soil	03/06/2000	5
EB-9(9.5-10')	Soil	03/06/2000	7
EB-9(12.5-13')	Soil	03/06/2000	8
EB-10(7.5-8')	Soil	03/06/2000	9
EB-10(10.5-11')	Soil	03/06/2000	10
EB-11(7.5-8')	Soil	03/06/2000	11
EB-11(10.5-11')	Soil	03/06/2000	12
EB-12(7.5-8')	Soil	03/06/2000	13
EB-12(9.5-10')	Soil	03/06/2000	14
EB-13(7.5-8')	Soil	03/06/2000	15
EB-13(9.5-10')	Soil	03/06/2000	16

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 E & F

Attn.: John McCain

Prep Method: 5520 E & F

Petroleum Oil & Grease

Sample ID: <b>EB-7(7.5-8')</b>	Lab Sample ID: <b>2000-03-0102-002</b>
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/09/2000
Matrix: Soil	QC-Batch: 2000/03/09-02.23

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	1.00	03/10/2000	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 E & F

Attn.: John McCain

Prep Method: 5520 E & F

## Petroleum Oil & Grease

Sample ID: <b>EB-7(10.5-11')</b>	Lab Sample ID: <b>2000-03-0102-003</b>
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/09/2000
Matrix: Soil	QC-Batch: 2000/03/09-02.23

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	1.00	03/10/2000	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 E & F

Attn.: John McCain

Prep Method: 5520 E & F

Petroleum Oil & Grease

Sample ID: <b>EB-8(7.5-8')</b>	Lab Sample ID: <b>2000-03-0102-004</b>
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/09/2000
Matrix: Soil	QC-Batch: 2000/03/09-02.23

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	1.00	03/10/2000	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 E & F

Attn.: John McCain

Prep Method: 5520 E & F

Petroleum Oil & Grease

Sample ID: <b>EB-8(10.5-11')</b>	Lab Sample ID: <b>2000-03-0102-005</b>
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/09/2000
Matrix: Soil	QC-Batch: 2000/03/09-02.23

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	1.00	03/10/2000	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 E & F

Attn.: John McCain

Prep Method: 5520 E & F

Petroleum Oil & Grease

Sample ID: <b>EB-9(9.5-10')</b>	Lab Sample ID: <b>2000-03-0102-007</b>
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/09/2000
Matrix: Soil	QC-Batch: 2000/03/09-02.23

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	1.00	03/10/2000	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 E & F

Attn.: John McCain

Prep Method: 5520 E & F

## Petroleum Oil & Grease

Sample ID: <b>EB-9(12.5-13')</b>	Lab Sample ID: <b>2000-03-0102-008</b>
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/09/2000
Matrix: Soil	QC-Batch: 2000/03/09-02.23

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	1.00	03/10/2000	

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Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 E & F

Attn.: John McCain

Prep Method: 5520 E & F

## Petroleum Oil & Grease

Sample ID: <b>EB-10(7.5-8')</b>	Lab Sample ID: <b>2000-03-0102-009</b>
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/09/2000
Matrix: Soil	QC-Batch: 2000/03/09-02.23

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	1.00	03/10/2000	



# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 E & F

Attn.: John McCain

Prep Method: 5520 E & F

Petroleum Oil & Grease

Sample ID: <b>EB-10(10.5-11')</b>	Lab Sample ID: <b>2000-03-0102-010</b>
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/09/2000
Matrix: Soil	QC-Batch: 2000/03/09-02.23

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	1.00	03/10/2000	

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Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: Lowney & Associates Oakland

Test Method: 5520 E & F

Attn.: John McCain

Prep Method: 5520 E & F

## Petroleum Oil & Grease

Sample ID: EB-11(7.5-8')	Lab Sample ID: 2000-03-0102-011
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/09/2000
Matrix: Soil	QC-Batch: 2000/03/09-02.23

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	1.00	03/10/2000	

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Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 E & F

Attn.: John McCain

Prep Method: 5520 E & F

Petroleum Oil & Grease

Sample ID: <b>EB-11(10.5-11')</b>	Lab Sample ID: <b>2000-03-0102-012</b>
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/09/2000
Matrix: Soil	QC-Batch: 2000/03/09-02.23

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	1.00	03/10/2000	

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Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 E & F

Attn.: John McCain

Prep Method: 5520 E & F

Petroleum Oil & Grease

Sample ID: <b>EB-12(7.5-8')</b>	Lab Sample ID: <b>2000-03-0102-013</b>
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/09/2000
Matrix: Soil	QC-Batch: 2000/03/09/02.23

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	1.00	03/10/2000	

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Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 E & F

Attn.: John McCain

Prep Method: 5520 E & F

Petroleum Oil & Grease

Sample ID: <b>EB-12(9.5-10')</b>	Lab Sample ID: <b>2000-03-0102-014</b>
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/09/2000
Matrix: Soil	QC-Batch: 2000/03/09:02.23

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	1.00	03/10/2000	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 E & F

Attn.: John McCain

Prep Method: 5520 E & F

Petroleum Oil & Grease

Sample ID: <b>EB-13(7.5-8')</b>	Lab Sample ID: <b>2000-03-0102-015</b>
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/09/2000
Matrix: Soil	QC-Batch: 2000/03/09-02.23

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	1.00	03/10/2000	

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Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 E & F

Attn.: John McCain

Prep Method: 5520 E & F

Petroleum Oil & Grease

Sample ID: <b>EB-13(9.5-10')</b>	Lab Sample ID: <b>2000-03-0102-016</b>
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/09/2000
Matrix: Soil	QC-Batch: 2000/03/09-02.23

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	1.00	03/10/2000	

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Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

Environmental Services (SDB)

To: **Lowney & Associates Oakland**  
Attn.: John McCain

Test Method: 5520 E & F  
Prep Method: 5520 E & F

**Batch QC Report**  
Petroleum Oil & Grease

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2000/03/09-02.23</b>
MB: 2000/03/09-02.23-001		Date Extracted: 03/09/2000

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	03/10/2000	



# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0102

To: **Lowney & Associates Oakland**

Test Method: 5520 E & F

Attn: John McCain

Prep Method: 5520 E & F

## Batch QC Report

Petroleum Oil & Grease

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2000/03/09-02.23
LCS: 2000/03/09-02.23-002	Extracted: 03/09/2000	Analyzed 03/10/2000
LCSD: 2000/03/09-02.23-003	Extracted: 03/09/2000	Analyzed 03/10/2000

Compound	Conc. [ mg/Kg ]		Exp. Conc. [ mg/Kg ]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recovery	RPD	LCS
Oil & Grease (Petroleum)	344	362	400	400	86.0	90.5	5.1	80-120	20		

1220 Quarry Lane \* Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

## Volatile Hydrocarbons by 8015/8020

Lowney & Associates Oakland

129 Filbert Street  
Oakland, Ca 94607

Attn: John McCain

Phone:(510) 267-1970 Fax(510) 267-1972

Project #: 864-40D

Project OAKLAND VMF

### Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
EB-7(7.5-8)	Soil	03/06/2000	2
EB-7(10.5-11)	Soil	03/06/2000	3
EB-8(7.5-8)	Soil	03/06/2000	4
EB-8(10.5-11)	Soil	03/06/2000	5
EB-9(9.5-10)	Soil	03/06/2000	7
EB-9(12.5-13)	Soil	03/06/2000	8
EB-10(7.5-8)	Soil	03/06/2000	9
EB-10(10.5-11)	Soil	03/06/2000	10
EB-11(7.5-8)	Soil	03/06/2000	11
EB-11(10.5-11)	Soil	03/06/2000	12
EB-12(7.5-8)	Soil	03/06/2000	13
EB-12(9.5-10)	Soil	03/06/2000	14
EB-13(7.5-8)	Soil	03/06/2000	15
EB-13(9.5-10)	Soil	03/06/2000	16
EB-7	Water	03/06/2000	17
EB-8	Water	03/06/2000	18
EB-9	Water	03/06/2000	19
EB-10	Water	03/06/2000	20
EB-11	Water	03/06/2000	21
EB-12	Water	03/06/2000	22
EB-13	Water	03/06/2000	23

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Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

Volatile Hydrocarbons by 8015/8020

Sample ID: EB-7(7.5-8')	Lab Sample ID:2000-03-0102-002
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/08/2000 18:43
Matrix: Soil	QC-Batch: 2000/03/08-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	03/08/2000 18:43	
Toluene	ND	0.0050	mg/Kg	1.00	03/08/2000 18:43	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/08/2000 18:43	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/08/2000 18:43	
Surrogate(s) Trifluorotoluene	68.7	53-125	%	1.00	03/08/2000 18:43	

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Page 2 of 34

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

Volatile Hydrocarbons by 8015/8020

Sample ID: EB-7(10.5-11')	Lab Sample ID:2000-03-0102-003
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/08/2000 21:05
Matrix: Soil	QC-Batch: 2000/03/08-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	03/08/2000 21:05	
Toluene	ND	0.0050	mg/Kg	1.00	03/08/2000 21:05	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/08/2000 21:05	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/08/2000 21:05	
Surrogate(s) Trifluorotoluene	68.4	53-125	%	1.00	03/08/2000 21:05	

1220 Quarry Lane \* Pleasanton, CA 94586-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

Volatile Hydrocarbons by 8015/8020

Sample ID: EB-8(7.5-8')	Lab Sample ID:2000-03-0102-004
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/08/2000 21:33
Matrix: Soil	QC-Batch: 2000/03/08-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	03/08/2000 21:33	
Toluene	ND	0.0050	mg/Kg	1.00	03/08/2000 21:33	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/08/2000 21:33	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/08/2000 21:33	
Surrogate(s) Trifluorotoluene	53.4	53-125	%	1.00	03/08/2000 21:33	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

## Volatile Hydrocarbons by 8015/8020

Sample ID: EB-8(10.5-11')	Lab Sample ID:2000-03-0102-005
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/08/2000 22:59
Matrix: Soil	QC-Batch: 2000/03/08-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	03/08/2000 22:59	
Toluene	ND	0.0050	mg/Kg	1.00	03/08/2000 22:59	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/08/2000 22:59	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/08/2000 22:59	
Surrogate(s) Trifluorotoluene	63.4	53-125	%	1.00	03/08/2000 22:59	

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Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

Volatile Hydrocarbons by 8015/8020

Sample ID: EB-9(9.5-10')	Lab Sample ID:2000-03-0102-007
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/08/2000 23:28
Matrix: Soil	QC-Batch: 2000/03/08-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	03/08/2000 23:28	
Toluene	ND	0.0050	mg/Kg	1.00	03/08/2000 23:28	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/08/2000 23:28	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/08/2000 23:28	
Surrogate(s) Trifluorotoluene	71.4	53-125	%	1.00	03/08/2000 23:28	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

Volatile Hydrocarbons by 8015/8020

Sample ID: EB-9(12.5-13')	Lab Sample ID:2000-03-0102-008
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/08/2000 23:57
Matrix: Soil	QC-Batch: 2000/03/08-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	03/08/2000 23:57	
Toluene	ND	0.0050	mg/Kg	1.00	03/08/2000 23:57	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/08/2000 23:57	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/08/2000 23:57	
Surrogate(s) Trifluorotoluene	59.1	53-125	%	1.00	03/08/2000 23:57	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

Volatile Hydrocarbons by 8015/8020

Sample ID:	EB-10(7.5-8')	Lab Sample ID:	2000-03-0102-009
Project:	864-40D OAKLAND VMF	Received:	03/07/2000 10:30
Sampled:	03/06/2000	Extracted:	03/09/2000 00:26
Matrix:	Soil	QC-Batch:	2000/03/08-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	03/09/2000 00:26	
Toluene	ND	0.0050	mg/Kg	1.00	03/09/2000 00:26	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/09/2000 00:26	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/09/2000 00:26	
Surrogate(s) Trifluorotoluene	67.7	53-125	%	1.00	03/09/2000 00:26	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

## Volatile Hydrocarbons by 8015/8020

Sample ID: EB-10(10.5-11')	Lab Sample ID:2000-03-0102-010
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/09/2000 15:14
Matrix: Soil	QC-Batch: 2000/03/09-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	03/09/2000 15:14	
Toluene	ND	0.0050	mg/Kg	1.00	03/09/2000 15:14	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/09/2000 15:14	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/09/2000 15:14	
Surrogate(s) Trifluorotoluene	78.1	53-125	%	1.00	03/09/2000 15:14	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

## Volatile Hydrocarbons by 8015/8020

Sample ID: EB-11(7.5-8')	Lab Sample ID:2000-03-0102-011
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/14/2000 14:06
Matrix: Soil	QC-Batch: 2000/03/14-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	03/14/2000 14:06	
Toluene	ND	0.0050	mg/Kg	1.00	03/14/2000 14:06	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/14/2000 14:06	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/14/2000 14:06	
Surrogate(s) Trifluorotoluene	57.7	53-125	%	1.00	03/14/2000 14:06	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

## Volatile Hydrocarbons by 8015/8020

Sample ID: EB-11(10.5-11')	Lab Sample ID:2000-03-0102-012
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/14/2000 10:33
Matrix: Soil	QC-Batch: 2000/03/14-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	03/14/2000 10:33	
Toluene	ND	0.0050	mg/Kg	1.00	03/14/2000 10:33	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/14/2000 10:33	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/14/2000 10:33	
Surrogate(s) Trifluorotoluene	65.3	53-125	%	1.00	03/14/2000 10:33	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

Volatile Hydrocarbons by 8015/8020

Sample ID:	EB-12(7.5-8')	Lab Sample ID:	2000-03-0102-013
Project:	864-40D OAKLAND VMF	Received:	03/07/2000 10:30
Sampled:	03/06/2000	Extracted:	03/14/2000 11:01
Matrix:	Soil	QC-Batch:	2000/03/14-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	03/14/2000 11:01	
Toluene	ND	0.0050	mg/Kg	1.00	03/14/2000 11:01	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/14/2000 11:01	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/14/2000 11:01	
Surrogate(s) Trifluorotoluene	59.0	53-125	%	1.00	03/14/2000 11:01	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

## Volatile Hydrocarbons by 8015/8020

Sample ID: EB-12(9.5-10')	Lab Sample ID: 2000-03-0102-014
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/14/2000 11:30
Matrix: Soil	QC-Batch: 2000/03/14-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	03/14/2000 11:30	
Toluene	ND	0.0050	mg/Kg	1.00	03/14/2000 11:30	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/14/2000 11:30	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/14/2000 11:30	
Surrogate(s) Trifluorotoluene	63.3	53-125	%	1.00	03/14/2000 11:30	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland

Test Method: 8020

Attn.: John McCain

Prep Method: 5030

Volatile Hydrocarbons by 8015/8020

Sample ID: EB-13(7.5-8')	Lab Sample ID:2000-03-0102-015
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/14/2000 11:58
Matrix: Soil	QC-Batch: 2000/03/14-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	03/14/2000 11:58	
Toluene	ND	0.0050	mg/Kg	1.00	03/14/2000 11:58	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/14/2000 11:58	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/14/2000 11:58	
Surrogate(s) Trifluorotoluene	76.7	53-125	%	1.00	03/14/2000 11:58	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

Volatile Hydrocarbons by 8015/8020

Sample ID: EB-13(9.5-10')	Lab Sample ID: 2000-03-0102-016
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/14/2000 13:37
Matrix: Soil	QC-Batch: 2000/03/14-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	03/14/2000 13:37	
Toluene	ND	0.0050	mg/Kg	1.00	03/14/2000 13:37	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/14/2000 13:37	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/14/2000 13:37	
Surrogate(s) Trifluorotoluene	57.4	53-125	%	1.00	03/14/2000 13:37	

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# CHROMALAB, INC.

Submission #: 200003-0102

Environmental Services (SDB)

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

Volatile Hydrocarbons by 8015/8020

Sample ID: EB-7	Lab Sample ID: 2000-03-0102-017
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/10/2000 14:11
Matrix: Water	QC-Batch: 2000/03/10-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.50	ug/L	1.00	03/10/2000 14:11	
Toluene	ND	0.50	ug/L	1.00	03/10/2000 14:11	
Ethyl benzene	ND	0.50	ug/L	1.00	03/10/2000 14:11	
Xylene(s)	ND	0.50	ug/L	1.00	03/10/2000 14:11	
Surrogate(s) Trifluorotoluene	92.3	58-124	%	1.00	03/10/2000 14:11	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

Volatile Hydrocarbons by 8015/8020

Sample ID: EB-8	Lab Sample ID: 2000-03-0102-018
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/10/2000 16:30
Matrix: Water	QC-Batch: 2000/03/10-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.50	ug/L	1.00	03/10/2000 16:30	
Toluene	ND	0.50	ug/L	1.00	03/10/2000 16:30	
Ethyl benzene	ND	0.50	ug/L	1.00	03/10/2000 16:30	
Xylene(s)	ND	0.50	ug/L	1.00	03/10/2000 16:30	
Surrogate(s) Trifluorotoluene	71.9	58-124	%	1.00	03/10/2000 16:30	

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# CHROMALAB, INC.

Submission #: 200003-0102

Environmental Services (SDB)

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

Volatile Hydrocarbons by 8015/8020

Sample ID: EB-9	Lab Sample ID: 2000-03-0102-019
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/10/2000 17:05
Matrix: Water	QC-Batch: 2000/03/10-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.50	ug/L	1.00	03/10/2000 17:05	
Toluene	ND	0.50	ug/L	1.00	03/10/2000 17:05	
Ethyl benzene	ND	0.50	ug/L	1.00	03/10/2000 17:05	
Xylene(s)	ND	0.50	ug/L	1.00	03/10/2000 17:05	
Surrogate(s) Trifluorotoluene	86.3	58-124	%	1.00	03/10/2000 17:05	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

Volatile Hydrocarbons by 8015/8020

Sample ID:	EB-10	Lab Sample ID:	2000-03-0102-020
Project:	864-40D OAKLAND VMF	Received:	03/07/2000 10:30
Sampled:	03/06/2000	Extracted:	03/10/2000 17:39
Matrix:	Water	QC-Batch:	2000/03/10-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.50	ug/L	1.00	03/10/2000 17:39	
Toluene	ND	0.50	ug/L	1.00	03/10/2000 17:39	
Ethyl benzene	ND	0.50	ug/L	1.00	03/10/2000 17:39	
Xylene(s)	ND	0.50	ug/L	1.00	03/10/2000 17:39	
Surrogate(s) Trifluorotoluene	86.8	58-124	%	1.00	03/10/2000 17:39	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

Volatile Hydrocarbons by 8015/8020

Sample ID: EB-11	Lab Sample ID: 2000-03-0102-021
Project: 864-40D OAKLAND VMF	Received: 03/07/2000 10:30
Sampled: 03/06/2000	Extracted: 03/10/2000 18:14
Matrix: Water	QC-Batch: 2000/03/10-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.50	ug/L	1.00	03/10/2000 18:14	
Toluene	ND	0.50	ug/L	1.00	03/10/2000 18:14	
Ethyl benzene	ND	0.50	ug/L	1.00	03/10/2000 18:14	
Xylene(s)	ND	0.50	ug/L	1.00	03/10/2000 18:14	
Surrogate(s) Trifluorotoluene	84.3	58-124	%	1.00	03/10/2000 18:14	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

Volatile Hydrocarbons by 8015/8020

Sample ID:	EB-12	Lab Sample ID:	2000-03-0102-022
Project:	864-40D OAKLAND VMF	Received:	03/07/2000 10:30
Sampled:	03/06/2000	Extracted:	03/14/2000 16:14
Matrix:	Water	QC-Batch:	2000/03/14-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.50	ug/L	1.00	03/14/2000 16:14	
Toluene	ND	0.50	ug/L	1.00	03/14/2000 16:14	
Ethyl benzene	ND	0.50	ug/L	1.00	03/14/2000 16:14	
Xylene(s)	ND	0.50	ug/L	1.00	03/14/2000 16:14	
Surrogate(s) Trifluorotoluene	81.4	58-124	%	1.00	03/14/2000 16:14	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland

Test Method: 8020

Attn.: John McCain

Prep Method: 5030

Volatile Hydrocarbons by 8015/8020

Sample ID:	EB-13	Lab Sample ID:	2000-03-0102-023
Project:	864-40D OAKLAND VMF	Received:	03/07/2000 10:30
Sampled:	03/06/2000	Extracted:	03/10/2000 22:53
Matrix:	Water	QC-Batch:	2000/03/10-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.50	ug/L	1.00	03/10/2000 22:53	
Toluene	ND	0.50	ug/L	1.00	03/10/2000 22:53	
Ethyl benzene	ND	0.50	ug/L	1.00	03/10/2000 22:53	
Xylene(s)	ND	0.50	ug/L	1.00	03/10/2000 22:53	
Surrogate(s) Trifluorotoluene	84.3	58-124	%	1.00	03/10/2000 22:53	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

## Batch QC Report Volatile Hydrocarbons by 8015/8020

Method Blank    Soil    QC Batch # 2000/03/08-01.04  
MB: 2000/03/08-01.04-001    Date Extracted: 03/08/2000 10:43

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	03/08/2000 10:43	
Toluene	ND	0.0050	mg/Kg	03/08/2000 10:43	
Ethyl benzene	ND	0.0050	mg/Kg	03/08/2000 10:43	
Xylene(s)	ND	0.0050	mg/Kg	03/08/2000 10:43	
Surrogate(s)					
Trifluorotoluene	87.2	53-125	%	03/08/2000 10:43	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
 Attn.: John McCain

Test Method: 8020  
 Prep Method: 5030

Batch QC Report  
 Volatile Hydrocarbons by 8015/8020

Method Blank	Soil	QC Batch # 2000/03/09-01.04
MB: 2000/03/09-01.04-001		Date Extracted: 03/09/2000 05:59

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	03/09/2000 05:59	
Toluene	ND	0.0050	mg/Kg	03/09/2000 05:59	
Ethyl benzene	ND	0.0050	mg/Kg	03/09/2000 05:59	
Xylene(s)	ND	0.0050	mg/Kg	03/09/2000 05:59	
Surrogate(s)					
Trifluorotoluene	80.2	53-125	%	03/09/2000 05:59	

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# CHROMALAB, INC.

Submission #: 200003-0102

Environmental Services (SDB)

To: Lowney & Associates Oakland  
Attn: John McCain

Test Method: 8020  
Prep Method: 5030

Batch QC Report  
Volatile Hydrocarbons by 8015/8020

Method Blank                                  Water                                  QC Batch # 2000/03/10-01.0  
MB: 2000/03/10-01.01-001                                  Date Extracted: 03/10/2000 06:19

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Benzene	ND	0.5	ug/L	03/10/2000 06:19	
Toluene	ND	0.5	ug/L	03/10/2000 06:19	
Ethyl benzene	ND	0.5	ug/L	03/10/2000 06:19	
Xylene(s)	ND	0.5	ug/L	03/10/2000 06:19	
Surrogate(s) Trifluorotoluene	90.2	58-124	%	03/10/2000 06:19	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

### Batch QC Report Volatile Hydrocarbons by 8015/8020

Method Blank                                  Water                                  QC Batch # 2000/03/14-01.01  
MB: 2000/03/14-01.01-001                                  Date Extracted: 03/14/2000 06:21

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Benzene	ND	0.5	ug/L	03/14/2000 06:21	
Toluene	ND	0.5	ug/L	03/14/2000 06:21	
Ethyl benzene	ND	0.5	ug/L	03/14/2000 06:21	
Xylene(s)	ND	0.5	ug/L	03/14/2000 06:21	
Surrogate(s) Trifluorotoluene	89.6	58-124	%	03/14/2000 06:21	

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# CHROMALAB, INC.

Submission #: 200003-0102

Environmental Services (SDB)

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

## Batch QC Report Volatile Hydrocarbons by 8015/8020

Method Blank    Soil    QC Batch # 2000/03/14-01.04  
MB: 2000/03/14-01.04-001    Date Extracted: 03/14/2000 05:47

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	03/14/2000 05:47	
Toluene	ND	0.0050	mg/Kg	03/14/2000 05:47	
Ethyl benzene	ND	0.0050	mg/Kg	03/14/2000 05:47	
Xylene(s)	ND	0.0050	mg/Kg	03/14/2000 05:47	
Surrogate(s)					
Trifluorotoluene	84.6	53-125	%	03/14/2000 05:47	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
Attn: John McCain

Test Method: 8020  
Prep Method: 5030

## Batch QC Report

### Volatile Hydrocarbons by 8015/8020

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2000/03/08-01.04
LCS: 2000/03/08-01.04-002	Extracted: 03/08/2000 11:11	Analyzed 03/08/2000 11:11
LCSD: 2000/03/08-01.04-003	Extracted: 03/08/2000 11:39	Analyzed 03/08/2000 11:39

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery [%] RPD			Ctrl. Limits [%]		Flags
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery RPD	LCS	
Benzene	0.0988	0.0865	0.1000	0.1000	98.8	86.5	13.3	77-123	35	
Toluene	0.0986	0.0845	0.1000	0.1000	96.6	84.5	13.4	78-122	35	
Ethyl benzene	0.0954	0.0828	0.1000	0.1000	95.4	82.8	14.1	70-130	35	
Xylene(s)	0.286	0.252	0.300	0.300	95.3	84.0	12.6	75-125	35	
Surrogate(s)										
Trifluorotoluene	455	368	500	500	91.0	73.6		53-125		

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# CHROMALAB, INC.

Submission #: 200003-0102

Environmental Services (SDB)

To: Lowney & Associates Oakland  
Attn: John McCain

Test Method: 8020  
Prep Method: 5030

## Batch QC Report

### Volatile Hydrocarbons by 8015/8020

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2000/03/09-01.04
LCS: 2000/03/09-01.04-002	Extracted: 03/09/2000 06:27	Analyzed 03/09/2000 06:27
LCSD: 2000/03/09-01.04-003	Extracted: 03/09/2000 06:56	Analyzed 03/09/2000 06:56

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery [%] RPD			Ctrl. Limits [%]		Flags
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery RPD	LCS	
Benzene	0.0945	0.0794	0.1000	0.1000	94.5	79.4	17.4	77-123	35	
Toluene	0.0933	0.0781	0.1000	0.1000	93.3	78.1	17.7	78-122	35	
Ethyl benzene	0.0922	0.0771	0.1000	0.1000	92.2	77.1	17.8	70-130	35	
Xylene(s)	0.277	0.236	0.300	0.300	92.3	78.7	15.9	75-125	35	
Surrogate(s)										
Trifluorotoluene	441	359	500	500	88.2	71.8		53-125		

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland

Test Method: 8020

Attn: John McCain

Prep Method: 5030

## Batch QC Report

### Volatile Hydrocarbons by 8015/8020

Laboratory Control Spike (LCS/LCSD)

Water

QC Batch # 2000/03/10-01.01

LCS: 2000/03/10-01.01-002 Extracted: 03/10/2000 06:54 Analyzed 03/10/2000 06:54

LCSD: 2000/03/10-01.01-003 Extracted: 03/10/2000 07:29 Analyzed 03/10/2000 07:29

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%] RPD			Ctrl. Limits [%]		Flags
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery RPD	LCS	
Benzene	89.6	91.2	100.0	100.0	89.6	91.2	1.8	77-123	20	
Toluene	88.0	89.4	100.0	100.0	88.0	89.4	1.6	78-122	20	
Ethyl benzene	88.4	90.0	100.0	100.0	88.4	90.0	1.8	70-130	20	
Xylene(s)	266	271	300	300	88.7	90.3	1.8	75-125	20	
Surrogate(s) Trifluorotoluene	411	426	500	500	82.2	85.2		58-124		

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
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# CHROMALAB, INC.

Submission #: 200003-0102

Environmental Services (SDB)

To: Lowney & Associates Oakland  
Attn: John McCain

Test Method: 8020  
Prep Method: 5030

## Batch QC Report

### Volatile Hydrocarbons by 8015/8020

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2000/03/14-01.01
LCS: 2000/03/14-01.01-002	Extracted: 03/14/2000 06:56	Analyzed 03/14/2000 06:56
LCSD: 2000/03/14-01.01-003	Extracted: 03/14/2000 07:30	Analyzed 03/14/2000 07:30

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%] RPD			Ctrl. Limits [%]		Flags
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery RPD	LCS	
Benzene	90.8	88.3	100.0	100.0	90.8	88.3	2.8	77-123	20	
Toluene	89.4	86.6	100.0	100.0	89.4	86.6	3.2	78-122	20	
Ethyl benzene	90.4	86.8	100.0	100.0	90.4	86.8	4.1	70-130	20	
Xylene(s)	269	259	300	300	89.7	86.3	3.9	75-125	20	
Surrogate(s)										
Trifluorotoluene	427	423	500	500	85.4	84.6		58-124		

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# CHROMALAB, INC.

Submission #: 200003-0102

Environmental Services (SDB)

To: Lowney & Associates Oakland  
 Attn: John McCain

Test Method: 8020  
 Prep Method: 5030

## Batch QC Report

### Volatile Hydrocarbons by 8015/8020

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2000/03/14-01.04
LCS: 2000/03/14-01.04-002	Extracted: 03/14/2000 06:15	Analyzed 03/14/2000 06:15
LCSD: 2000/03/14-01.04-003	Extracted: 03/14/2000 06:43	Analyzed 03/14/2000 06:43

Compound	Conc. [ mg/Kg ]		Exp. Conc. [ mg/Kg ]		Recovery [%] RPD			Ctrl. Limits [%]		Flags
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery RPD	LCS	
Benzene	0.0898	0.0810	0.1000	0.1000	89.8	81.0	10.3	77-123	35	
Toluene	0.0884	0.0795	0.1000	0.1000	88.4	79.5	10.6	78-122	35	
Ethyl benzene	0.0870	0.0793	0.1000	0.1000	87.0	79.3	9.3	70-130	35	
Xylene(s)	0.262	0.241	0.300	0.300	87.3	80.3	8.4	75-125	35	
Surrogate(s) Trifluorotoluene	414	365	500	500	82.8	73.0		53-125		

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 200003-0102

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

## Batch QC Report Volatile Hydrocarbons by 8015/8020

Matrix Spike (MS / MSD)  
Sample ID: EB-7(7.5-8')

Soil

QC Batch # 2000/03/08-01.04  
Lab Sample ID: 2000-03-0102-002

MS: 2000/03/08-01.04-005 Extracted 03/08/2000 19:12 Analyzed: 03/08/2000 19:12 Dilution: 1.0  
MSD: 2000/03/08-01.04-006 Extracted 03/08/2000 19:40 Analyzed: 03/08/2000 19:40 Dilution: 1.0

Compound	Conc. [ mg/Kg ]		Sample	Exp. Conc. [ mg/Kg ]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	MS	MSD		MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Benzene	0.0700	0.0692	ND	0.0994	0.0996	70.4	69.5	1.3	65-135	35		
Toluene	0.0703	0.0688	ND	0.0994	0.0996	70.7	69.1	2.3	65-135	35		
Ethyl benzene	0.0680	0.0672	ND	0.0994	0.0996	68.4	67.5	1.3	65-135	35		
Xylene(s)	0.206	0.205	ND	0.298	0.299	69.1	68.6	0.7	65-135	35		
Surrogate(s) Trifluorotoluene	325	329		500	500	65.0	65.8		53-125			

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# CHROMALAB, INC.

Submission #: 200003-0102

Environmental Services (SDB)

To: Lowney & Associates Oakland  
Attn.: John McCain

Test Method: 8020  
Prep Method: 5030

## Batch QC Report

Volatile Hydrocarbons by 8015/8020

Matrix Spike (MS / MSD)

Water

QC Batch # 2000/03/10-01.0

Sample ID: EB-8

Lab Sample ID: 2000-03-0102-018

MS: 2000/03/10-01.01-005 Extracted 03/10/2000 18:49 Analyzed: 03/10/2000 18:49 Dilution: 1.0

MSD: 2000/03/10-01.01-005 Extracted 03/10/2000 19:23 Analyzed: 03/10/2000 19:23 Dilution: 1.0

Compound	Conc.		[ ug/L ] Sample	Exp. Conc. [ ug/L ]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	MS	MSD		MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Benzene	96.9	91.2	ND	100.0	100.0	96.9	91.2	6.1	65-135	20		
Toluene	95.3	89.6	ND	100.0	100.0	95.3	89.6	6.2	65-135	20		
Ethyl benzene	96.3	90.5	ND	100.0	100.0	96.3	90.5	6.2	65-135	20		
Xylene(s)	287	270	ND	300	300	95.7	90.0	6.1	65-135	20		
Surrogate(s)												
Trifluorotoluene	467	444		500	500	93.4	88.8		58-124			

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

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# LOWNEY ASSOCIATES

## CHAIN OF CUSTODY RECORD

1/2  
**400-03-002**

Send Results To:

Mountain View Office  
 405 Clyde Avenue  
 Mountain View, CA 94043  
 415-967-2365  
 415-967-2785 (fax)

Oakland Office  
 129 Filbert Street  
 Oakland, CA 94607  
 510-267-1970  
 510-267-1972 (fax)

50818

Fax Copy To:

Project Name: Oakland VMF  
 Job Number: 864-400  
 Report To: Stason Foster/Paul Reginaro  
 Sampler (print): John McCain  
 Sampler (signature): [Signature]  
 QC Requirements:  
 Level A (standard)  Level B  Level C  Level D

### Turnaround Requirements

- 10 working days  
 5 working days  
 3 working days  
 48 hours  
 24 hours  
 23 hours (RUSH)

### ANALYSIS REQUEST

TRPHX (5550) (FF)  
 BTEX (8020)

Sample I.D.	Date	Time	Sample Matrix	# of Cont.	Laboratory I.D.	Remarks
EB-7(5 1/2-6')	3/6/00		Soil	1		HOLD
EB-7(7 1/2-8')					X X	<del>HOLD</del>
EB-7(10 1/2-11')					X X	
EB-8(7 1/2-8')					X X	<del>HOLD</del>
EB-8(10 1/2-11')					X X	
EB-9(7 1/2-8')						HOLD
EB-9(9 1/2-10')					X X	<del>HOLD</del>
EB-9(12 1/2-13')					X X	
EB-10(7 1/2-8')					X X	<del>HOLD</del>
EB-10(10 1/2-11')					X X	
EB-11(7 1/2-8')					X X	<del>HOLD</del>
EB-11(10 1/2-11')					X X	
EB-12(7 1/2-8')					X X	<del>HOLD</del>
EB-12(9 1/2-10')					X X	<del>#</del>

Relinquished By: [Signature] Date: 3/7/00 Time: 09:40  
 Relinquished By: [Signature] Date: 3/7/00 Time: 10:30  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: [Signature] Date: 3/7/00 Time: 09:40  
 Received By: [Signature] Date: 03/07/00 Time: 10:30  
 Lab of Record: \_\_\_\_\_  
 Temperature: \_\_\_\_\_

# LOWNEY ASSOCIATES

## CHAIN OF CUSTODY RECORD

2/2

1000-03-0102

Send Results To:

Mountain View Office  
405 Clyde Avenue  
Mountain View, CA 94043  
415-967-2365  
 415-967-2785 (fax)

Oakland Office  
129 Filbert Street  
Oakland, CA 94607  
510-267-1970  
 510-267-1972 (fax)

Project Name: Oakland VME  
 Job Number: 864-40 D  
 Report To: Stason Foster / Paul Reginato  
 Sampler (print): John McCain  
 Sampler (signature): Jm  
 QC Requirements:  
 Level A (standard)    Level B    Level C    Level D

Turnaround Requirements  
 10 working days  
 5 working days  
 3 working days  
 48 hours  
 24 hours  
 2-3 hours (RUSH)

### ANALYSES REQUESTED

Sample I.D.	Date	Time	Sample Matrix	# of Cont.	Laboratory I.D.	TRPH (5520EF)	BTEX (8020)	Remarks
EB-13(7 1/2-8')	3-6-00		Soil	1		X	X	<del>HOLD</del>
EB-13(9 1/2-10')			Soil	1		X	X	
EB-7		9:20am	water	5		X	X	
EB-8		10:45am		5		X	X	
EB-9		1:00pm		5		X	X	
EB-10		2:00pm		5		X	X	
EB-11		3:00pm		5		X	X	
EB-12		4:20pm		5		X	X	
EB-13		6:50pm		5		X	X	

Relinquished By: Jm Date: 3/1/00 Time: 0940  
 Relinquished By: Tom Wright Date: 3/1/00 Time: 1030  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By: Tom Wright Date: 3/1/00 Time: 0940 PM Initials \_\_\_\_\_  
 Received By: Preparas Date: 03/07/00 Time: 10:30 Temperature \_\_\_\_\_  
 Lab of Record: \_\_\_\_\_