

UNITED STATES POSTAL SERVICE

TRANSMITTAL LETTER



SAN BRUNO FACILITIES SERVICE OFFICE  
850 CHERRY AVENUE  
SAN BRUNO CA 94099-0300

93 APR 11 10 00 AM '93

TO: ALAMEDA COUNTY HEALTH CARE SERVICES  
80 SWAN WAY, Room 200  
OAKLAND, CA 94621-1437

DATE: 2 APR 93  
FACILITY: OAKLAND MPO  
PROJECT: \_\_\_\_\_

ATTENTION: JENNIFER EBERLE

WE ARE SENDING YOU THE ATTACHED:

- Prints
- Original Drawings
- Specifications
- Copy of Letter
- Change Order
- \_\_\_\_\_

COPIES	DATE	NO.	DESCRIPTION
1	APRIL 192		CONSTRUCTION OBSERVATION OF JST ACTIVITIES
1	17 SEP 92		SUPPLEMENTAL OBSERVATION LETTER

THESE ARE TRANSMITTED:

- As requested
- For your use and information
- For your review and comment
- Returned for corrections
- Approved as noted
- Approved as submitted
- For approval
- Return after loan to us
- For response by \_\_\_\_\_
- For your signature and return to this office
- \_\_\_\_\_

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COPIES TO: \_\_\_\_\_  
\_\_\_\_\_

SIGNED: Charles Wren  
CHARLES WREN  
INTERIM DMJM PROJECT MANAGER  
415/742-4237  
DMJM: 415/986-1373



September 17, 1992

Mr. Charles Wren, Project Manager  
UNITED STATES POSTAL SERVICE  
San Bruno Facilities Service Center  
850 Cherry Avenue  
San Bruno, California 94099-0310

3775

RE: SUPPLEMENTAL OBSERVATION LETTER  
UNDERGROUND STORAGE TANK (UST) PROGRAM  
U.S. POSTAL SERVICE VEHICLE MAINTENANCE FACILITY  
1675 7th STREET  
OAKLAND, CALIFORNIA

Dear Mr. Wren:

Geo/Resource Consultants, Inc. (GRC) is pleased to submit this supplemental letter for the observation services performed on June 23, 1992 at the United States Postal Service (USPS) Vehicle Maintenance Facility (VMF) located at 1675 7th Street in Oakland, California. The SCOPE OF WORK performed included the observation and documentation of the removal of one (1) underground storage tank (UST), the transportation off-site of the UST, the sampling of the soil and groundwater in the bottom of the UST excavation, and the extent of the excavation.

Previously, GRC provided similar observations and documentation for the removal and installation of numerous 10,000-gallon USTs at VMF. A Construction Observation of UST Activities report was submitted to the USPS in April of 1992. This letter is provided to supplement the April 1992 report.

At the request of the USPS, GRC personnel observed the removal of one 10,000-gallon UST previously containing diesel fuel for the emergency generator. The UST was located adjacent to the northwest corner of the mail sorting building.

when?  
6-23-92

Methodology

The UST was uncovered by the use of a backhoe provided by the general contractor, R.S. Eagan and Company (RS EAGAN). After uncovering the top of the UST, dry ice was placed inside the UST to purge the organic vapors. A vacuum truck, provided by H&H Ship Services Co., Inc. (H&H) of San Francisco, California, removed and disposed of the contents of the UST. The UST was removed using a crane following approval from the Alameda County

Water District (ACWD) and the Oakland Fire Department (OFD) that the UST was deemed safe to transport. The UST appeared to be intact without any pitting or other signs of corrosion. The UST was placed on an H&H flatbed truck for transportation to a disposal and recycling facility (See Appendix A, Photographs 1 through 3).

Soil samples were collected by RS EAGAN personnel at the direction of Mr. Dennis Byrnes of the ACWD. Two soil samples were collected from the north and south ends of the UST at approximately 2-feet below the bottom of the excavation (See Appendix A, Photograph 4). Soil samples were also collected from the stockpiled soil generated from the excavation. Visible discoloration of the south sidewall was noted during the excavation process (See Appendix A, Photograph 5). Excavated soil was stockpiled on-site to be later disposed of depending upon the laboratory results.

Groundwater was encountered during the excavation at approximately 12-feet below ground surface. A groundwater sample was collected by RS EAGAN personnel using a 5-gallon bucket to extract groundwater from the excavation to facilitate filling the laboratory containers. After reviewing the laboratory data, GRC suspected that the bucket may have contained residual petroleum hydrocarbons. (See Appendix A, Photograph E). A hydrocarbon like sheen was on top of the groundwater noted in the bottom of the excavation. (See Appendix A, Photographs 4 through 6).

### Laboratory Results

All soil and water samples were submitted for analyses to Sparger Technology, Inc. laboratory of Sacramento, California and are included in Appendix B. Additionally, Appendix B contains the Chain-of-Custody Records and a site sketch of the sample locations. All four sets of samples (three soil and one water) were submitted for the following analyses:

Total Petroleum Hydrocarbons - Diesel (TPH-D) EPA Method 8015(m)

Benzene, Toluene, Ethylbenzene  
and Xylenes (BTXE) EPA Method 8020

The laboratory results provided to GRC by RS EAGAN revealed that the concentrations of the constituents of interest in the excavation sidewall soil did not equal or exceed the laboratory Limits of Detection. TPH-D results from the soil stockpile sample (Comp. 1 (A-D)) were reported to be 26 micrograms per gram (approximates parts per million (ppm), and Xylenes were reported to be 0.007 (ppm). Benzene, Toluene and Ethylbenzene were all reported to be not detected (ND).

Ground-water results showed TPH-D to be present at 72,000 ✓  
micrograms per liter (approximates parts per billion (ppb)).  
Benzene at 3.8 ppb ✓ and Xylenes at 12 ppb. ✓ Toluene and  
Ethylbenzene were not detected.

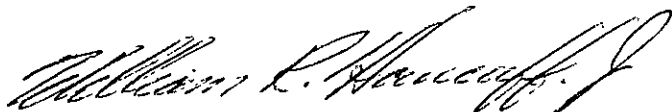
The concentrations of petroleum hydrocarbons in the soil and groundwater may be attributable to past UST overfilling, spillage, leaks or a potentially contaminated sampling bucket. GRC recommends that future remediation at the excavation site be preceded by an independent assessment of the soil and groundwater. This may be accomplished by the extraction and analyses of a groundwater sample from the excavation via a monitoring well or hydropunch, and the collection of a soil sample from the groundwater/vadose zone interface.

We appreciated the opportunity to have worked with you on this project and look forward to working with you again in the future. If you have any questions or comments regarding this project, please feel free to contact us.

Very Truly Yours,  
GEO/RESOURCE CONSULTANTS, INC.



Keith B. Craig  
Staff Hydrogeologist



William R. Hancuff, Jr., Ph.D., P.E.  
Vice President

cc: GRCChron  
GRC Project File, 1708-001-00

WRH:eas

Appendix A  
Photographs



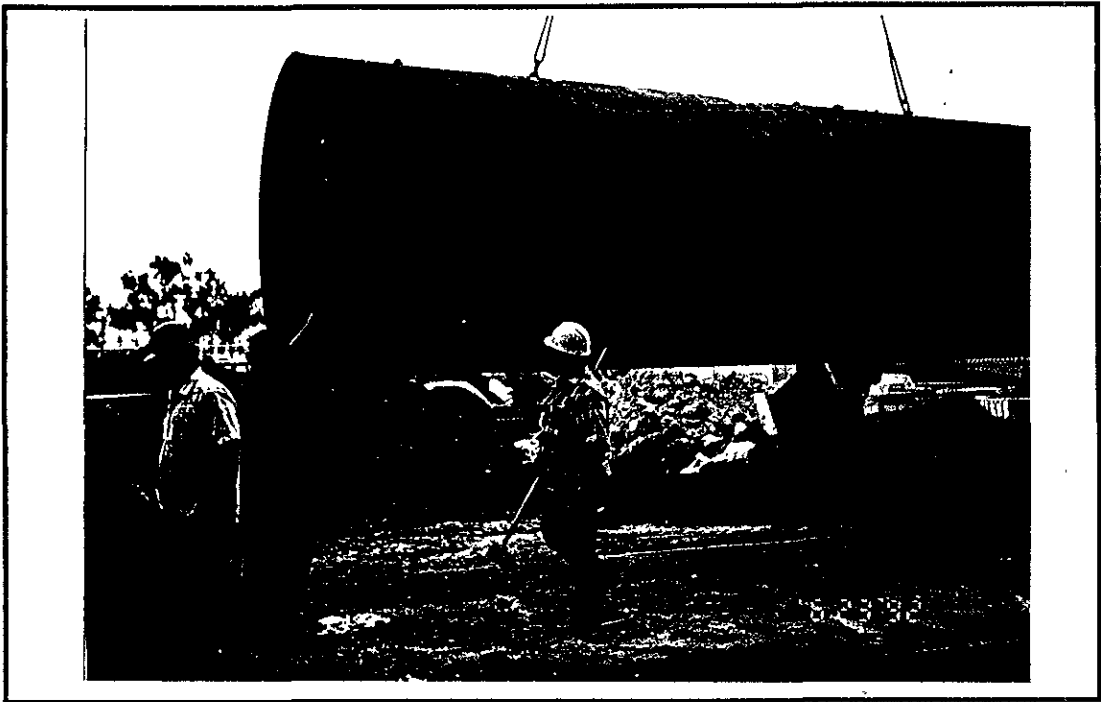


Photo 1: Removal of 10,000-gallon UST with soil piles in background.

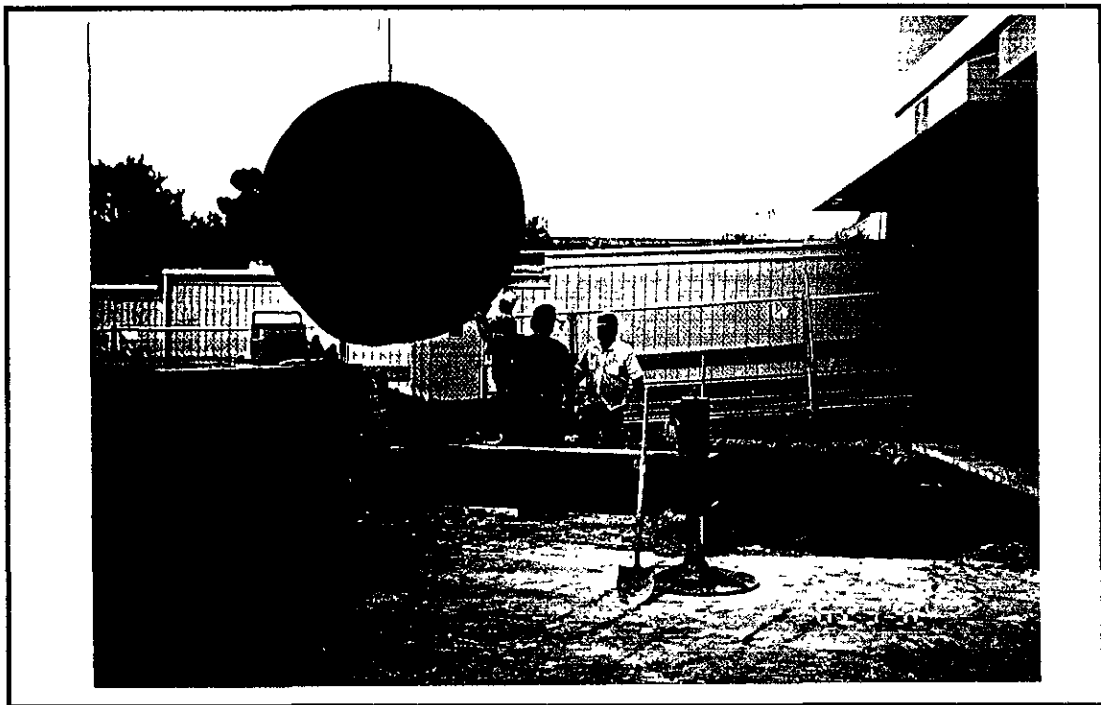


Photo 2: Placement of the UST onto flatbed truck.

Project Name: Oakland Main USPS  
Project Number: 1708-002-00

Appr. \_\_\_\_\_  
Date: \_\_\_\_\_

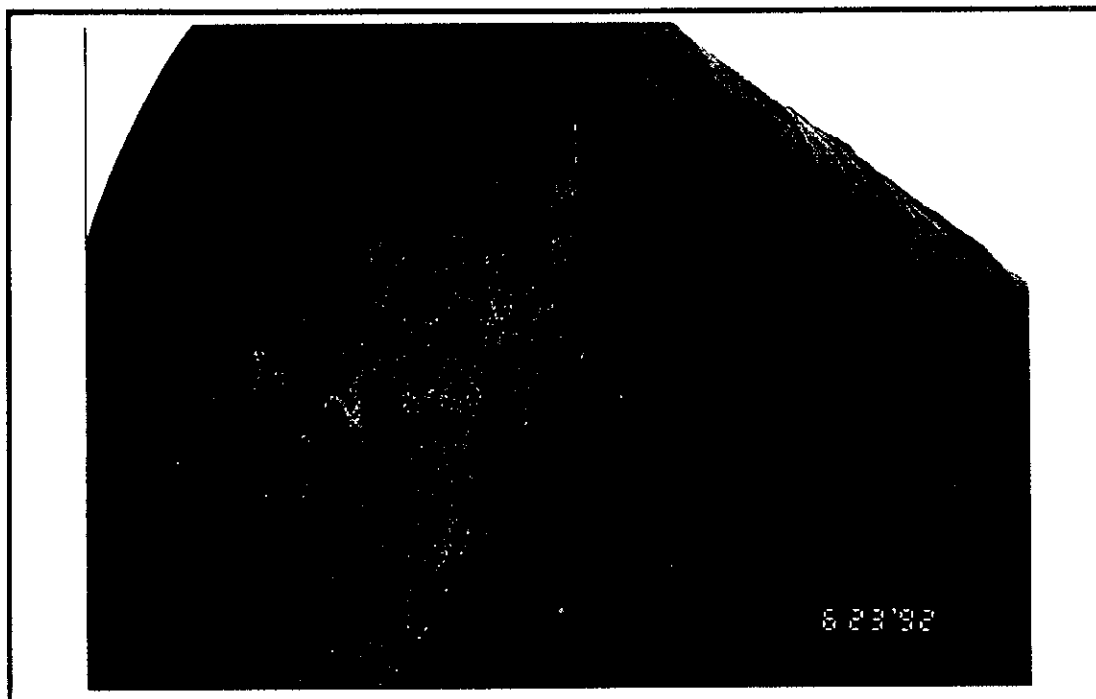


Photo 3: Close-up of UST.



Photo 4: Sampling of soil from the southern sidewalk of the UST excavation.

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Project Name: Oakland Main USPS  
Project Number: 1708-002-00

Appr. \_\_\_\_\_  
Date: \_\_\_\_\_

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Photo 5: Water sampling from the bottom of the UST excavation.



Photo 6: Discoloration at the bottom of the southern sidewall of the UST excavation.

Project Name: Oakland Main USPS  
Project Number: 1708-002-00

Appr. \_\_\_\_\_  
Date: \_\_\_\_\_



Appendix B  
Laboratory Results





RECEIVED  
JUN 24 1992  
EAGAN & COMPANY

Analytical Laboratory Division  
Mobile Laboratory Division  
Scientific Division

June 24, 1992

Mr. Robert Eagan  
R. S. Eagan & Company  
1992 National Ave.  
Hayward, California 94545

Dear Mr. Eagan:

Enclosed is the report for the three (3) soil samples and one (1) water sample. The samples were received at Sparger Technology Analytical Mobile Lab on June 23, 1992.

The samples were received in three (3) brass tubes and one (1) amber bottle and two (2) 40mL VOA vials. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

The report consists of the following sections:

- I. Sample Description
- II. Analysis Request
- III. Quality Control Report
- IV. Analysis Results

No problems were encountered with the analysis of your samples.

If you have questions, please feel free to call.

Sincerely,

R. L. James  
Principal Chemist

Post-It™ brand fax transmittal memo 7671 # of pages 10

To: Keith Craig	From: Dawson
Co. Geo	Co. RSE
Dept.	Phone # 733 7300
Fax # 775-2359	Fax # 732 7304



Analytical Laboratory Division  
Mobile Laboratory Division  
Scientific Division

## I Sample Description

See attached Sample Description Information.

The samples were received under chain-of-custody.

## II Analysis Request

The following analytical tests were requested:

<u>Lab ID</u>	<u>Your ID</u>	<u>Analysis Description</u>
ST92-06-525A	Comp. 1 (A-D)	Btex
ST92-06-526A	Comp. 1 (A-D)	TPH-diesel
ST92-06-527A	2 Fill & Vent	Btex
ST92-06-528A	2 Fill & Vent	TPH-diesel
ST92-06-529A	3 South End	Btex
ST92-06-530A	3 South End	TPH-diesel
ST92-06-531A	4 Water Sample	Btex
ST92-06-532A	4 Water Sample	TPH-diesel

**8020/8015 Modified Analysis Report**

Attention: Mr. Robert Eagan  
 R. S. Eagan & Company  
 1992 National Ave.  
 Hayward, California 94545

Date Sampled: Jun. 23, 1992  
 Date Received: Jun. 23, 1992  
 Date Analyzed: Jun. 23, 1992


Project #:   
 Client ID: 2 Fill & Vent  
 Matrix: Soil

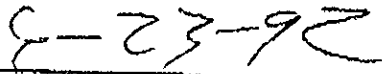
Project Name: USPS 7th & Wood  
 Oakland  
 LAB ID: ST92-06-527A  
 ST92-06-528A  
 Dilution:

Name	Amount	Detection Limits	Units
Benzene	ND	0.005	ug/g
Toluene	ND	0.005	ug/g
Ethylbenzene	ND	0.005	ug/g
Xylenes	ND	0.005	ug/g
TPHdiesel	ND	1.0	ug/g

Surrogate % Recovery of TFT = 60%

ppb = parts per billion = ug/kg = micrograms per kilogram  
 ppm = parts per million = ug/g = micrograms per gram  
 ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.  
 NA = Not Analyzed.  
 \* = Matrix Interference.

  
 B. L. James, Principal Chemist

  
 Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA  
 DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY  
 (Certification No. 1014)

**8020/8015 Modified Analysis Report**

Attention: Mr. Robert Eagan  
 R. S. Eagan & Company  
 1992 National Ave.  
 Hayward, California 94545

Date Sampled: Jun. 23, 1992  
 Date Received: Jun. 23, 1992  
 Date Analyzed: Jun. 23, 1992


Project #:   
 Client ID: 3 South End  
 Matrix: Soil

Project Name: USPS 7th & Wood  
 Oakland  
 LAB ID: ST92-06-529A  
 ST92-06-530A  
 Dilution:

Name	Amount	Detection Limits	Units
Benzene	ND	0.005	ug/g
Toluene	ND	0.005	ug/g
Ethylbenzene	ND	0.005	ug/g
Xylenes	ND	0.005	ug/g
TPHdiesel	ND	1.0	ug/g

Surrogate % Recovery of TFT = 60%

ppb = parts per billion - ug/kg = micrograms per kilogram  
 ppm = parts per million - ug/g = micrograms per gram  
 ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.  
 NR = Not Requested.  
 \* = Matrix Interference.

  
 R. L. Jambo, Principal Chemist

6-23-92  
 Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA  
 DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY  
 (Certification No. 1819)



Analytical Laboratory Division  
Mobile Laboratory Division  
Scientific Division

### 8020/8015 Modified Analysis Report

Attention: Mr. Robert Eagan  
R. S. Eagan & Company  
1992 National Ave.  
Hayward, California 94545

Date Sampled: Jun. 23, 1992  
Date Received: Jun. 23, 1992  
Date Analyzed: Jun. 23, 1992

Project #:   
Client ID: Comp. 1 (A-D)  
Matrix: Soil

Project Name: USPS 7th & Wood  
Oakland  
LAB ID: ST92-06-525A  
ST92-06-526A  
Dilution:

Name	Amount	Detection Limits	Units
Benzene	ND	0.005	ug/g ?
Toluene	ND	0.005	ug/g
Ethylbenzene	ND	0.005	ug/g
Xylenes	0.007	0.005	ug/g
TPHdiesel	26	1.0	ug/g

Surrogate % Recovery of TFT = 77% = ppm

ppb = parts per billion = ug/kg = micrograms per kilogram  
ppm = parts per million = ug/g = micrograms per gram  
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.  
NR = Not Requested.  
\* = Matrix Interference.

*ug/kg*

R. L. James, Principal Chemist

*6-23-92*  
Date Reported



Analytical Laboratory Division  
 Mobile Laboratory Division  
 Scientific Division

### 8020/8015 Modified Analysis Report

Attention: Mr. Robert Eagan  
 R. S. Eagan & Company  
 1992 National Ave.  
 Hayward, California 94545

Date Sampled: Jun. 23, 1992  
 Date Received: Jun. 23, 1992  
 Date Analyzed: Jun. 23, 1992

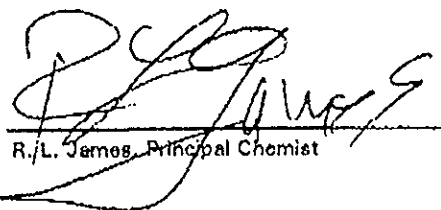
Project #:   
 Client ID: 4 Water Sample  
 Matrix: Water

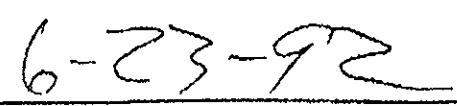
Project Name: USPS 7th & Wood  
 Oakland  
 LAB ID: ST92-06-531A  
 ST92-06-532A  
 Dilution:

Name	Amount	Detection Limits	Units
Benzene	3.8	0.3	ug/L
Toluene	ND	0.3	ug/L
Ethylbenzene	ND	0.3	ug/L
Xylenes	12	0.3	ug/L
TPHdiesel	72000	50	ug/L

Surrogate % Recovery of Trifluorotoluene = 97%

ppb = parts per billion = ug/L = micrograms per Liter  
 ppm = parts per million = ug/ml = micrograms per milliliter  
 ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

  
 R. L. James, Principal Chemist

  
 Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA  
 DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY  
 (Certification No. 1614)



Analytical Laboratory Division  
Mobile Laboratory Division  
Scientific Division

## 8020 Modified Laboratory Control Spike (LCS) BTEX Analysis Report

Attention: Mr. Robert Eagan  
R. S. Eagan & Company  
1992 National Ave.  
Hayward, California 94545

Date Sampled: Jun. 23, 1992  
Date Received: Jun. 23, 1992  
Date Analyzed: Jun. 23, 1992

Project #:

Project Name: USPS 7th & Wood  
Oakland  
ST92-06-23LCS

Client ID: LCS

Matrix: Soil

LAB ID:

Dilution:

Name	Conc. Spike Added	Sample Result	Conc. LCS	Units	LCS % Recovery
Benzene	30 ppb	ND	28	ug/kg	93%
Toluene	30 ppb	ND	27	ug/kg	90%
Ethylbenzene	30 ppb	ND	27	ug/kg	90%
Xylenes	30 ppb	ND	26	ug/kg	87%

Surrogate % Recovery of Trifluorotoluene





Analytical Laboratory Division  
Mobile Laboratory Division  
Scientific Division

### III Quality Control

- A. Project Specific QC. No project specific QC (i.e., spikes and/or duplicates) was requested.
- B. Method Blank Results. A method blank is a laboratory-generated sample which assesses the degree to which laboratory operations and procedures cause false-positive analytical results for your sample.

No target parameters were detected in the method blank associated with your sample at the reporting limit levels noted on the data sheets in the Analytical Results section.

- C. Laboratory Control Spike. A Laboratory Control Spike (LCS) is a sample which is spiked with 30 ppb BTEX, and analyzed at approximately 10% of the sample load in order to establish method-specific control limits. The LCS results associated with your samples are on the attached 8020 Modified LCS BTEX Analysis Report.

Accuracy is measured by Percent Recovery as in:

$$\% \text{ recovery} = \frac{(\text{measured concentration}) \times 100}{(\text{actual concentration})}$$

### IV Analysis Results

Results are on the attached data sheet.



# Sparger Technology Analytical Laboratory

3100 FITE CIRCLE, SUITE 108  
SACRAMENTO, CA 95827

1332

SAMPLE #

## CHAIN OF CUSTODY RECORD

### FIELD SECTION

CLIENT NAME Col. Eagan PROJECT ADDRESS USPS 7<sup>th</sup> & Wood No 1215  
Number Street City Zip  
 OAKLAND  
 SAMPLED BY R.S. Eagan CONTAINERS OBTAINED FROM \_\_\_\_\_  
Name (PRINT) Organization

PRESERVATIVE USED NA STORAGE TEMPERATURE  Ambient  4° C  -10° C Other \_\_\_\_\_

HAZARDOUS  NON-HAZARDOUS  SPECIAL HANDLING INSTRUCTIONS \_\_\_\_\_

FIELD REMARKS IF under 75ppm; IF low level under; IF over 75ppm RUN TCLP & RCI on stock pic

COLLECTOR SAMPLE NO.	DATE	COMP	GRAB	TYPE (Soil/H <sub>2</sub> O)	FIELD DATA	STATION LOCATION (lat, depth, etc.)	# OF CONTAINERS	ANALYSIS REQUIRED (TCLP, RCI)	REMARKS
<u>comp. A, B, C, D</u>	<u>6-23-92</u>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<u>IF ABOVE 75ppm RUN TCLP &amp; RCI</u>
<u>2 Fill &amp; Vent</u>	<u>6-23-92</u>		<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
<u>3 South End</u>	<u>6-23-92</u>		<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
<u>4 water sample</u>	<u>6-23-92</u>		<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	

Released by [Signature] Organization \_\_\_\_\_ Date/Time 6-23-92 15:30  
 Received by [Signature] Organization JAMES Date/Time \_\_\_\_\_

Released by \_\_\_\_\_ Organization \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Received by \_\_\_\_\_ Organization \_\_\_\_\_ Date/Time \_\_\_\_\_

Released by \_\_\_\_\_ Organization \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Received by \_\_\_\_\_ Organization \_\_\_\_\_ Date/Time \_\_\_\_\_

### LABORATORY SECTION

TEMPERATURE RECEIVED \_\_\_\_\_ FEDX AIRBILL# \_\_\_\_\_ HAND DELIVERED \_\_\_\_\_

MAIN Post Office B

