



October 24, 2005

Donna Drogas  
1131 Harbor Bay Parkway, Suite 240  
Alameda, CA 94502

**Alameda County**  
**OCT 26 2005**  
**Environmental Health**

Dear Ms. Drogas:

Enclosed is the requested "Site Characterization Report, Building 4 - Hydraulic Lift, Alameda, CA" by Jonas & Associates. The hydraulic lift is located at our Alameda Federal Center, 620 Central Avenue in Alameda. The report was developed in our effort to divest the property. Thank you for taking the time to review the results. If you have any questions, please do not hesitate to call me at (415) 522-3396. I can also be reached via email at [Danielle.Bogni@gsa.gov](mailto:Danielle.Bogni@gsa.gov).

I look forward to working with you. Thank you for your time.

Sincerely,

Danielle Bogni  
Environmental Protection Specialist

Alameda County  
OCT 26 2005  
Environmental Health

**SITE CHARACTERIZATION REPORT  
BUILDING 4 - HYDRAULIC LIFT**

**Alameda Federal Center  
620 Central Avenue  
Alameda, California**

**April 2, 2003**

**SITE CHARACTERIZATION REPORT  
BUILDING 4 – HYDRAULIC LIFT**

**Alameda Federal Center  
620 Central Avenue  
Alameda, California**

**April 2, 2003**

**Prepared for:**

**General Services Administration  
San Francisco, California**

**Prepared by:**

**Jonas & Associates, Inc.  
Martinez, California**

SITE CHARACTERIZATION REPORT  
BUILDING 4 – HYDRAULIC LIFT

Alameda Federal Center  
620 Central Avenue  
Alameda, California

Table of Contents

	<u>Page</u>
1.0 Introduction .....	1
1.1 Overview.....	1
1.2 Scope of Report.....	2
2.0 Preparations and Sampling Procedures .....	2
2.1 Preparations for Sampling .....	2
2.2 Sampling Procedures .....	3
3.0 Soil Sampling Results .....	4
3.1 TEPH as Hydraulic Oil in Soil .....	4
3.2 Volatile Organic Compounds in Soil .....	5
3.3 CAM 17 Metals in Soil .....	5
4.0 Groundwater Sampling Results .....	5
4.1 TEPH as Hydraulic Oil in Groundwater.....	6
4.2 Volatile Organic Compounds in Groundwater.....	6
4.3 CAM 17 Metals in Groundwater.....	6
5.0 Conclusions and Recommendations.....	7
5.1 Conclusions .....	7
5.2 Conclusions .....	8
6.0 References .....	9

## Table of Contents<sup>con't</sup>

### List of Tables

#### Appendix A:

- Table 1: Detected Metals and Natural Soil Concentrations
- Table 2: Preliminary Remediation Goals for Detected Soil Analytes
- Table 3: Detected Metals and Comparative Water Concentrations
- Table 4: Water Quality Criteria for Detected Groundwater Analytes

#### Appendix C:

- Table A: TEPH as Hydraulic Oil – March 10, 2003 Soil Results
- Table B: Volatile Organic Compounds – March 10, 2003 Soil Results
- Table C: Metals – March 10, 2003 Soil Results
- Table D: TEPH as Hydraulic Oil – March 10, 2003 Groundwater Results
- Table E: Volatile Organic Compounds – March 10, 2003 Groundwater Results
- Table F: Metals – March 10, 2003 Groundwater Results

### List of Figures

#### Appendix B:

- Figure 1: Regional Location
- Figure 2: Site Location
- Figure 3: March 10, 2003 Boring Locations
- Figure 4: March 10, 2003 Soil Sampling Results
- Figure 5: March 10, 2003 Groundwater Sampling Results

### List of Appendices

- Appendix A: Tables
- Appendix B: Figures
- Appendix C: Summary Tables of Soil Laboratory Results
- Appendix D: Chain-of-Custody Record
- Appendix E: Laboratory Data Reports

Signature Page

Report Prepared for:

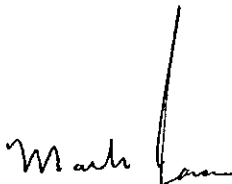
General Services Administration  
San Francisco, California

SITE CHARACTERIZATION REPORT  
BUILDING 4 – HYDRAULIC LIFT

Alameda Federal Center  
620 Central Avenue  
Alameda, California

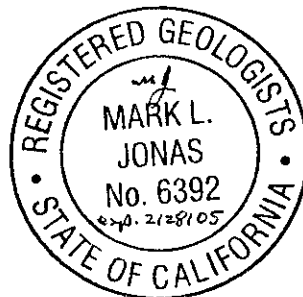
April 2, 2003

Jonas & Associates, Inc. Job No.: GSA-211A



---

Mark L. Jonas, R.G.  
Registered Geologist #6392  
Jonas & Associates, Inc.  
1350 Arnold Drive, Suite 202  
Martinez, California 94553



**SITE CHARACTERIZATION REPORT  
BUILDING 4 – HYDRAULIC LIFT  
Alameda Federal Center  
620 Central Avenue  
Alameda, California**

**April 2, 2003**

## **1.0 Introduction**

This report presents a summary of the methodology and results associated with the March 10, 2002 soil and groundwater sampling and analysis event at the Building 4 hydraulic lift at the Alameda Federal Center, located at 620 Central Avenue, in Alameda, California.

## **1.1 Overview**

The area of interest for this study is the hydraulic lift system at Building 4 in the Alameda Federal Center. Figures 1 and 2, in Appendix B, identifies the regional and site location, respectively. Building 4 is a single-story wooden structure with a concrete floor and an out-of-service hydraulic lift. Apparently a subsurface sump/tank is located near the hydraulic lift with a pipe between the sump/tank and the hydraulic lift (per comm. C. Cooley – Property Manager). According the Kleinfelder's November 8, 2002 Phase I Environmental Site Assessment Report, Alameda Service Center, Alameda, California (Phase I ESA) "*the hydraulic lift was installed in the 1960s and has not been used since 1983*" and "*Although no environmental incidents were observed during the site visit or have been reported in agency records reviewed, based on the likelihood heavy metals, hydraulic oil, and possibly solvents were used in the area of the hydraulic lift, there exists a concern that impacted soil may be present in this area of the site.*" The recommendations by Kleinfelder in the Phase I ESA formed the basis for soil and groundwater sampling performed by Jonas & Associates, Inc. (J&A) on March 10, 2003.

The March 10, 2003 sampling event include two (2) geoprobe borings adjacent to the hydraulic lift and two (2) geoprobe borings adjacent to the subsurface sump/tank, apparently associated with the hydraulic lift. All four (4) geoprobe borings extended to 15 feet below ground surface (bgs), with soil samples collected at 2.5', 5', 10', and 15' bgs. Samples were composited and analyzed for Total Extractable Petroleum Hydrocarbons as Hydraulic Oil (TEPH-HO), Volatile Organic Compounds (VOCs), and CAM 17 Metals. Composite soil samples with detected petroleum analytes were analyzed as discrete samples. Two (2) groundwater samples were collected and analyzed for the same constituents as soil. This Site Characterization Report

presents the sampling methodology, results, and conclusions associated with the March 10, 2003 sampling event. Figure 3, in Appendix B, identifies boring locations.

Adjacent to Building 4 is a site where four (4) underground storage tanks (USTs) were removed and petroleum analytes, including Total Extractable Petroleum Hydrocarbons as Diesel (TEPH-d), were detected in soil and groundwater (Kleinfelder, 2002). These USTs apparently held gasoline (Tank #1), waste oil (Tank #2), and fuel oil (Tanks #3 and #4). Waste oil, fuel oil, and hydraulic oil can be detected in the spectrum of TEPH-d. This UST site reportedly will receive regulatory closure (per. comm. A. Merendi).

## **1.2 Scope of Report**

This Site Characterization Report, Building 4 – Hydraulic Lift, Alameda Federal Center, 620 Central Avenue, Alameda, California is presented in six (6) sections and five appendices. Section 1, Introduction, provides an introduction, an overview and context for the project, and the scope of the report. Section 2, Preparations and Sampling Procedures, presents the preparations for sampling and sampling methods used in the field to collect soil and groundwater samples. Section 3, Soil Sampling Results, presents the soil sampling results and a discussion of these results. Section 4, Groundwater Sampling Results, presents groundwater sampling results and a discussion of these results. Section 5, Conclusions and Recommendations, provides conclusions associated with the March 10, 2003 sampling effort and recommendations. Section 6, References, identifies the references used in this report. The appendices of the report include tables and figures discussed in the report; data summary tables; the chain-of-custody record; and laboratory data reports.

## **2.0 Preparations and Sampling Procedures**

This section of the report presents the preparations for soil and groundwater sampling and the on-site sampling procedures performed on March 10, 2003. The following Sections 3.0 and 4.0 provides a summary of the soil and groundwater results, respectively.

### **2.1 Preparations for Sampling**

Prior to collecting borehole soil and groundwater samples at the site, Underground Service Alert (USA) was notified and performed a utility survey under USA Ticket #68979. The USA utility survey was performed on February 26 through 28, 2003. A private contractor also performed a utility survey on March 5, 2003. A site-specific *Environmental Health & Safety Plan for*



*Sampling Activities* (Health & Safety Plan), dated March 7, 2003, was produced for the field effort. After scheduling drilling contractor Fisch Environmental, geoprobe soil and groundwater sampling was performed on March 10, 2003. On the sampling day, a "tail-gate" meeting was held to review the contents of the site-specific Health & Safety Plan.

## **2.2 Sampling Procedures**

The following presents a discussion of the methods and procedures associated with the soil and groundwater samples collected by J&A on March 10, 2003. Summary tables of laboratory results are presented in Appendix C. The chain-of-custody record is presented in Appendix D. The laboratory data reports are presented in Appendix E. Sampling locations are identified on Figure 3.

On March 10, 2003, J&A collected a total of sixteen (16) soil samples from four (4) borehole locations, using a geoprobe operated by Fisch Environmental (C-57 License #683865). Soil samples were collected from 2.5', 5', 10', and 15' bgs. Soil was originally collected in geoprobe sampling tubes and cut at each sampling depth and approximately 3 inches above and then capped and chilled. From two (2) boreholes, groundwater samples were collected. All samples were capped, labeled, placed in coolers with ice, and under a chain-of-custody were submitted to Severn Trent Laboratory San Francisco (STL SF, California Laboratory Certificate #1094) laboratory for analysis. All the samples were identified on a chain-of-custody record and signed jointly during transfer of the samples. The chain-of-custody records for soil samples are presented in Appendix D of this report. All boreholes were filled with a concrete. Sampling waste was left on-site in a sealed and labeled 55-gallon container.

Soil boring SB1 and SB2 were drilled around the hydraulic lift. Soil borings SB3 and SB4 were drilled around an underground storage sump/tank associated with the hydraulic lift. Soil samples were composited, as follows: SB1+SB2-2.5'+5'; SB1+SB2-10'+15'; SB3+SB4-2.5'+5'; and SB3+SB4-10'+15. Groundwater samples were collected at boring SB1 and SB3, identified as SB1-GW and SB3-GW.

Soil and groundwater samples were analyzed for Total Extractable Petroleum Hydrocarbons as Hydraulic Oil, using EPA Method 8015M (TEPH-HO); Volatile Organic Compounds, using EPA Method 8260B (VOCs); and CAM 17 Metals, using EPA Methods 6010B, 7470/7471, and 200.7.

Because of detected TEPH-HO in composite sample SB3+SB4-2.5'+5', discrete samples SB3-2.5', SB3-5', SB4-2.5', and SB4-5' were analyzed for TEPH-HO. These samples were analyzed within the fourteen day turn-around-time (TAT) for this analyte.

### **3.0 Soil Sampling Results**

Soil sampling results are summarized in Tables A, B, and C, in Appendix C. Chain-of-custody records are provided in Appendix D. Laboratory data sheets are presented in Appendix E. Tables 1 and 2, in Appendix A, present "Detected Metals and Natural Soil Concentrations" and "Preliminary Remediation Goals for Detected Soil Analytes", respectively. Natural soil concentrations are for California (Kearny, 1996), and the Western United States (Bowen, 1979; Shacklette and Boerngen, 1984). Figure 4 graphically displays March 10, 2003 soil sampling results.

Preliminary Remediation Goals (PRGs; EPA, 2002) are U.S. Environmental Protection Agency (EPA) Region 9 criteria for evaluating and cleaning up contaminated soil. They are human health risk-based concentrations derived from standardized equations, combining exposure information assumptions and EPA toxicity data. PRGs are considered by EPA to be protective of humans over a lifetime. They are generally relevant for "screening" sites, but they are not legally enforceable standards. The PRG's role in site "screening" is to help identify areas, contaminants, and conditions that do not require further attention at a particular site. In addition, because EPA generally does not require clean up below a natural background concentration, if a natural background concentration is higher than the risk-based PRG the background concentration typically becomes the screening criteria.

In the proceeding sections, soil sampling results are summarized and a comparison is made with detected concentrations versus background concentrations for metals and both Residential and Industrial PRGs.

### **3.1 TEPH as Hydraulic Oil in Soil**

Analytical results for Total Extractable Petroleum Hydrocarbons as Hydraulic Oil (TEPH-HO) in soil are tabulated in Table A, in Appendix C. Following is a summary of TEPH-HO results:

- ◆ Composite soil samples SB1+SB2-2.5'+5' and SB1+SB2-10'+15', collected adjacent to the hydraulic lift, did not have detectable concentrations of TEPH-HO.

- ◆ Composite soil sample SB3+SB4-2.5'+5', collected adjacent to the associated hydraulic system sump/tank, had a concentration of 53 mg/Kg TEPH-HO. Discrete samples were then analyzed with the following results: SB3-2.5' at ND(50) mg/Kg; SB3-5' at ND(50) mg/Kg; SB4-2.5' at 190 mg/Kg; and SB4-5' at ND(50) mg/Kg. No PRGs exist for TEPH-HO.
- ◆ Composite soil sample SB3+SB4-10'+15', collected from 10' and 15' depth adjacent to the associated sump/tank, did not have a detectable concentration of TEPH-HO.

### **3.2 Volatile Organic Compounds in Soil**

Analytical results for Volatile Organic Compounds (VOCs) in soil are tabulated in Table B, in Appendix C. Following is a summary of VOC results:

- ◆ No VOCs were detected in any of the borehole composite soil samples.

### **3.3 CAM 17 Metals in Soil**

Analytical results for CAM 17 Metals in soil are tabulated in Table C, in Appendix C. Table 1, in Appendix A, presents the range of results for each detected metal and a comparison with published levels of natural soil concentrations for metals. Table 2, in Appendix A, presents detected analytes and Preliminary Remediation Goals (PRGs). Following is a summary of CAM 17 Metals results:

- ◆ Ten (10) of the CAM17 metals analyzed were detected in each of the four composite soil samples.
- ◆ The concentrations of the CAM 17 metals sampled at the site are within the range of natural-occurring typical background concentrations.
- ◆ Nine (9) of the ten (10) metals detected were below PRGs for residential and industrial soils.
- ◆ Some of the arsenic concentrations detected were above the PRG when using the arsenic cancer endpoint. All of the detected arsenic concentrations were below the PRG when using the noncancer endpoint for arsenic.

### **4.0 Groundwater Sampling Results**

Groundwater samples were collected with a geoprobe from borings SB1 and SB3. Geoprobe groundwater samples have a greater uncertainty with respect to analytical results, compared to sampling a properly installed monitoring well, for collecting a representative groundwater sample. Boring SB1 is located adjacent to the hydraulic lift. Boring SB3 is located adjacent to the hydraulic oil tank/sump. Figure 5, in Appendix B, identifies groundwater sampling locations and a summary of analytical results

Groundwater sampling results are summarized in Tables D, E, and F, in Appendix C. Chain-of-custody records are provided in Appendix D. Laboratory data sheets are presented in Appendix E. Tables 3 and 4, in Appendix A, present "Detected Metals and Comparative Water Concentrations" and "Water Quality Criteria for Detected Groundwater Analytes", respectively. Water concentrations for comparison with detected metals are for typical worldwide groundwater concentrations (Dragon, 1988), average worldwide seawater concentrations (USGS, 1985), and for San Francisco Bay waters off Alameda (Port of Oakland, 1998).

#### **4.1 TEPH as Hydraulic Oil in Groundwater**

Analytical results for Total Extractable Petroleum Hydrocarbons as Hydraulic Oil (TEPH-HO) in groundwater are tabulated in Table D, in Appendix C. Following is a summary of TEPH-HO results:

- ◆ Geoprobe groundwater sample SB1-GW, collected adjacent to the hydraulic lift, did not have detectable concentrations of TEPH-HO.
- ◆ Geoprobe groundwater sample SB3-GW, collected adjacent to the hydraulic system tank/sump, had a concentration of 2.6 mg/L TEPH-HO. Because of potential false positive results when collecting groundwater with a geoprobe, if this is a concentration of concern, further characterization of the groundwater may be necessary.

#### **4.2 Volatile Organic Compounds in Groundwater**

Analytical results for Volatile Organic Compounds (VOCs) in groundwater are tabulated in Table E, in Appendix C. Following is a summary of VOC results:

- ◆ No VOCs were detected in the two (2) geoprobe borings groundwater samples.

#### **4.3 CAM 17 Metals in Groundwater**

Analytical results for CAM 17 Metals in groundwater are tabulated in Table F, in Appendix C. Following is a summary of CAM 17 Metals results:

- ◆ Groundwater samples SB1-GW and SB3-GW, collected adjacent to the hydraulic lift and associated sump/tank, respectively, detected eight (8) of the CAM17 metals analyzed.
- ◆ Groundwater sampling results for Arsenic, Copper, Molybdenum, and Vanadium were above the upper range for natural-occurring typical groundwater concentrations.
- ◆ Groundwater sampling results were below available Water Quality Criteria for San Francisco Bay water off Alameda for Arsenic, Nickel, and Zinc, and above Water Quality Criteria for Copper.

## 5.0 Conclusions and Recommendations

### 5.1 Conclusions

Following are conclusions associated with the March 10, 2003 soil and groundwater sampling event:

1. Composite soil samples collected adjacent to the hydraulic lift did not have detectable concentrations of Total Extractable Petroleum Hydrocarbons as Hydraulic Oil (TEPH-HO).
2. A soil sample (SB4-2.5') collected adjacent to the hydraulic system tank/sump had a detectable concentration of 190 mg/Kg.
3. Composite soil sample collected from 10' and 15' depth adjacent to the hydraulic system sump/tank did not have a detectable concentration of TEPH-HO.
4. No VOCs were detected in any of the borehole composite soil samples.
5. Ten (10) of the CAM 17 metals were detected in soil.
6. Detected metal concentrations in soil are within the range of natural-occurring typical background concentrations.
7. Nine (9) of the ten (10) metals detected in soil were below Preliminary Remediation Goals (PRGs) for residential and industrial soils.
8. Some of the arsenic concentrations detected in soil were above the PRG when using the arsenic cancer endpoint. All of the detected arsenic concentrations were below the PRG when using the noncancer endpoint for arsenic.
9. Geoprobe groundwater sample SB1-GW, collected adjacent to the hydraulic lift, did not have detectable concentrations of TEPH-HO.
10. Geoprobe groundwater sample SB3-GW, collected adjacent to the hydraulic system tank/sump, had a concentration of 2.6 mg/L TEPH-HO. Because of potential false positive results when collecting groundwater with a geoprobe, if this is a concentration of concern, further characterization of the groundwater may be necessary.
11. No VOCs were detected in the two (2) geoprobe boring groundwater samples.
12. Groundwater samples SB1-GW and SB3-GW, collected adjacent to the hydraulic lift and associated sump/tank, respectively, detected eight (8) of the CAM17 metals analyzed.
13. Groundwater sampling results for Arsenic, Copper, Molybdenum, and Vanadium were above the upper range for natural-occurring typical groundwater concentrations.
14. Groundwater sampling results were below Water Quality Criteria for San Francisco Bay water off Alameda for Arsenic, Nickel, and Zinc, and above Water Quality Criteria for Copper.

## 5.2 Conclusions

1. The underground sump/tank and any significant hydraulic oil found in soil should eventually be removed. Since the hydraulic system sump/tank straddles a wall of the building, the removal of the sump/tank could occur if and when the building is eventually demolished.
2. Because of potential false positive results when collecting groundwater with a geoprobe, if the finding of 2.6 mg/L TEPH-HO with a geoprobe is of concern, further characterization of the groundwater may be necessary.
3. Sampling results should be presented to the appropriate regulatory agency. Discussions with the regulatory agency will help to determine if and when the hydraulic system sump/tank and contaminated soil should be removed and if further characterization of the groundwater is necessary.

## 6.0 References

- Bowen, H.J.M., 1979. Chapter 3: The elemental geochemistry of rocks, Chapter 4: The elemental geochemistry of soils, in Environmental Chemistry of the Elements. London, Academic Press.
- Dragun, J., 1988. The Soil Chemistry of Hazardous Materials. Hazardous Materials Control Research Institute.
- Environmental Protection Agency Region 9, 2002. Preliminary Remediation Goals. Region 9 Office, San Francisco, California.
- Kearny Foundation, 1996. Background Concentrations of Trace and Major Elements in California Soils. Kearney Foundation of Soil Science Division of Agriculture and Natural Resources, University of California.
- Lawrence Berkeley National Laboratory, 1995. Protocol for Determining Background Concentrations of Metals in Soil at Lawrence Berkeley National Laboratory (LBNL). Environmental Restoration Program.
- Port of Oakland, 1998. Oakland Harbor Navigation Improvement (-50 Foot) Project, Environmental Impact Statement/Environmental Impact Report, Volume II.
- Shacklette, H.T. and Boerngen, J.G., 1984. Elemental concentrations in soils and other surficial materials of the conterminous United States. United States Geological Services Professional Paper No. 1270, 105 p. USGS. Washington, D.C.
- USGS, 1985. Study and Interpretation of the Chemical Characteristics of Natural Water. USGS Water Supply Paper 2254.

**Appendix A**

**Tables**



Table 1  
 DETECTED METALS AND NATURAL SOIL CONCENTRATIONS  
 Building 4 -- Hydraulic Lift  
 Alameda Federal Center  
 Alameda, California

Metal	Detected Concentration Range	California Background Concentrations <sup>1</sup>	Western U.S. Background Concentrations <sup>2</sup>
	(mg/Kg)	(mg/Kg)	(mg/Kg)
Arsenic (As)	1.4 to 2.9	0.6 to 11.0	<0.01 to 97
Barium (Ba)	22 to 68	133 to 1,400	70 to 5,000
Cadmium (Cd)	0.61 to 1.4	0.05 to 1.70	<1 to 10
Chromium (Cr)	20 to 28	23 to 1,579	3.0 to 2,000
Cobalt (Co)	3.2 to 8.6	2.7 to 46.9	<3 to 50
Copper (Cu)	3.6 to 14	9.1 to 96.4	2 to 300
Lead (Pb)	1.4 to 6.4	12.4 to 97.1	<10 to 700
Nickel (Ni)	18 to 31	9 to 509	<5 to 700
Vanadium (V)	12 to 25	39 to 288	7 to 500
Zinc (Zn)	12 to 23	88 to 236	10 to 2,100

notes: <sup>1</sup> = Kearny, 1996.

<sup>2</sup> = Bowen, 1979; Shacklette and Boerngen, 1984.

Table 2  
PRELIMINARY REMEDIATION GOALS FOR DETECTED SOIL ANALYTES

Building 4 – Hydraulic Lift  
Alameda Federal Center  
Alameda, California

Analyte	Concentration Range	Preliminary Remediation Goals Residential Soil	Preliminary Remediation Goals Industrial Soil
	(mg/Kg)	(mg/Kg)	(mg/Kg)
Total Extractable Petroleum Hydrocarbons (TEPH) - Hydraulic Oil (-HO)	TEPH-HO: ND(50) to 190	NA	NA
<u>Metals:</u>			
Arsenic (As)	1.4 to 2.9	22 <sup>1</sup> , 0.39 <sup>2</sup>	260 <sup>1</sup> , 1.6 <sup>2</sup>
Barium (Ba)	22 to 68	5,400	67,000
Cadmium (Cd)	0.61 to 1.4	37	450
Chromium (Cr)	20 to 28	210 <sup>4</sup>	450 <sup>4</sup>
Cobalt (Co)	3.2 to 8.6	900	1,900
Copper (Cu)	3.6 to 14	3,100	41,000
Lead (Pb)	1.4 to 6.4	400, 150 <sup>3</sup>	750
Nickel (Ni)	18 to 31	1,600	20,000
Vanadium (Vn)	12 to 25	550	7,200
Zinc (Zn)	12 to 23	23,000	100,000

- notes: <sup>1</sup> = Arsenic (noncancer endpoint)  
<sup>2</sup> = Arsenic (cancer endpoint)  
<sup>3</sup> = Cal-Modified PRG  
<sup>4</sup> = Total Chromium (1:6 ratio Cr VI:Cr III)

Table 3  
 DETECTED METALS AND COMPARATIVE WATER CONCENTRATIONS

Building 4 – Hydraulic Lift  
 Alameda Federal Center  
 Alameda, California

Detected Metals	Concentration Range	Natural Concentrations in Groundwater <sup>1</sup>	Natural Concentration in Seawater <sup>2</sup>	S.F. Bay Alameda Water Quality Data <sup>3</sup>
	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.011 to 0.050	<0.001 to 0.030	0.003	0.00149 to 0.00234
Barium (Ba)	0.11 to 0.14	0.010 to 0.50	0.02	NA
Copper (Cu)	0.029 to 0.045	<0.0010 to 0.030	0.003	0.00177 to 0.00229
Molybdenum (Mo)	0.014 to 0.065	<0.0010 to 0.030	0.01	NA
Nickel (Ni)	ND(0.0050) to 0.0052	<0.010 to 0.050	0.007	<=0.008 <sup>4</sup>
Thallium (Tl)	ND(0.0050) to 0.0057	N/A	N/A	NA
Vanadium (V)	ND(0.0050) to 0.075	<0.0010 to 0.010	0.002	NA
Zinc (Zn)	ND(0.010) to 0.058	<0.010 to 2.0	0.01	0.00108 to 0.00198

notes: <sup>1</sup> = Dragun, 1988.

<sup>2</sup> = USGS, 1985.

<sup>3</sup> = Port of Oakland, 1998.

<sup>4</sup> = SF Bay South, Port of Oakland, 1998.

Table 4  
WATER QUALITY CRITERIA FOR DETECTED GROUNDWATER ANALYTES  
Building 4 – Hydraulic Lift  
Alameda Federal Center  
Alameda, California

Analyte	Detected Analyte & Concentration Range (mg/L)	Water Quality Criteria <sup>1</sup> S.F. Bay South (mg/L)
Total Extractable Petroleum Hydrocarbons (TEPH) - Hydraulic Oil (-HO)	TEPH-HO: ND(0.5) to 2.6	TEPH-HO: N/A
<u>Metals:</u>		
Arsenic (As)	0.011 to 0.050	0.36 <sup>2</sup> 0.069 <sup>3</sup>
Barium (Ba)	0.11 to 0.14	NA
Copper (Cu)	0.029 to 0.045	0.0092 <sup>2</sup> 0.0029 <sup>3</sup>
Molybdenum (Mo)	0.014 to 0.065	NA
Nickel (Ni)	ND(0.0050) to 0.0052	1.41 <sup>2</sup>
Thallium (Tl)	ND(0.0050) to 0.0057	NA
Vanadium (V)	ND(0.0050) to 0.075	NA
Zinc (Zn)	ND(0.010) to 0.058	0.21 <sup>2</sup>

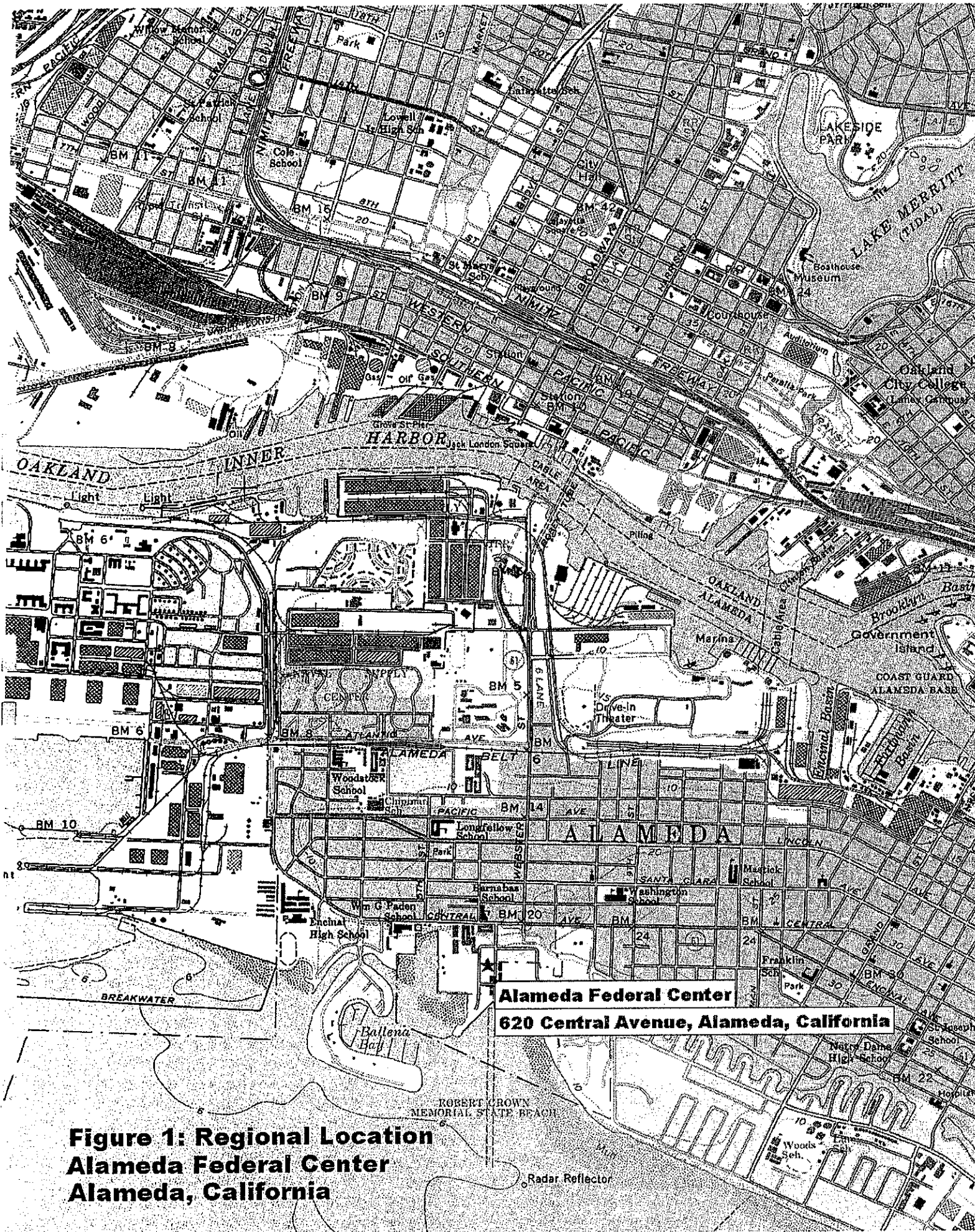
notes: 1 = Water Quality Criteria apply to surface water bodies and not directly to groundwater. Please note that groundwater concentrations discharging into a surface water body will tend to be diluted by the surface water body and decrease in concentration.

2 = One hour average with salinity <5 parts per thousand (ppt).

3 = One hour average with salinity >5 ppt.

## **Appendix B**

### **Figures**



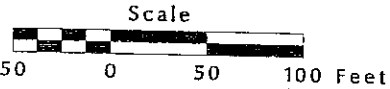
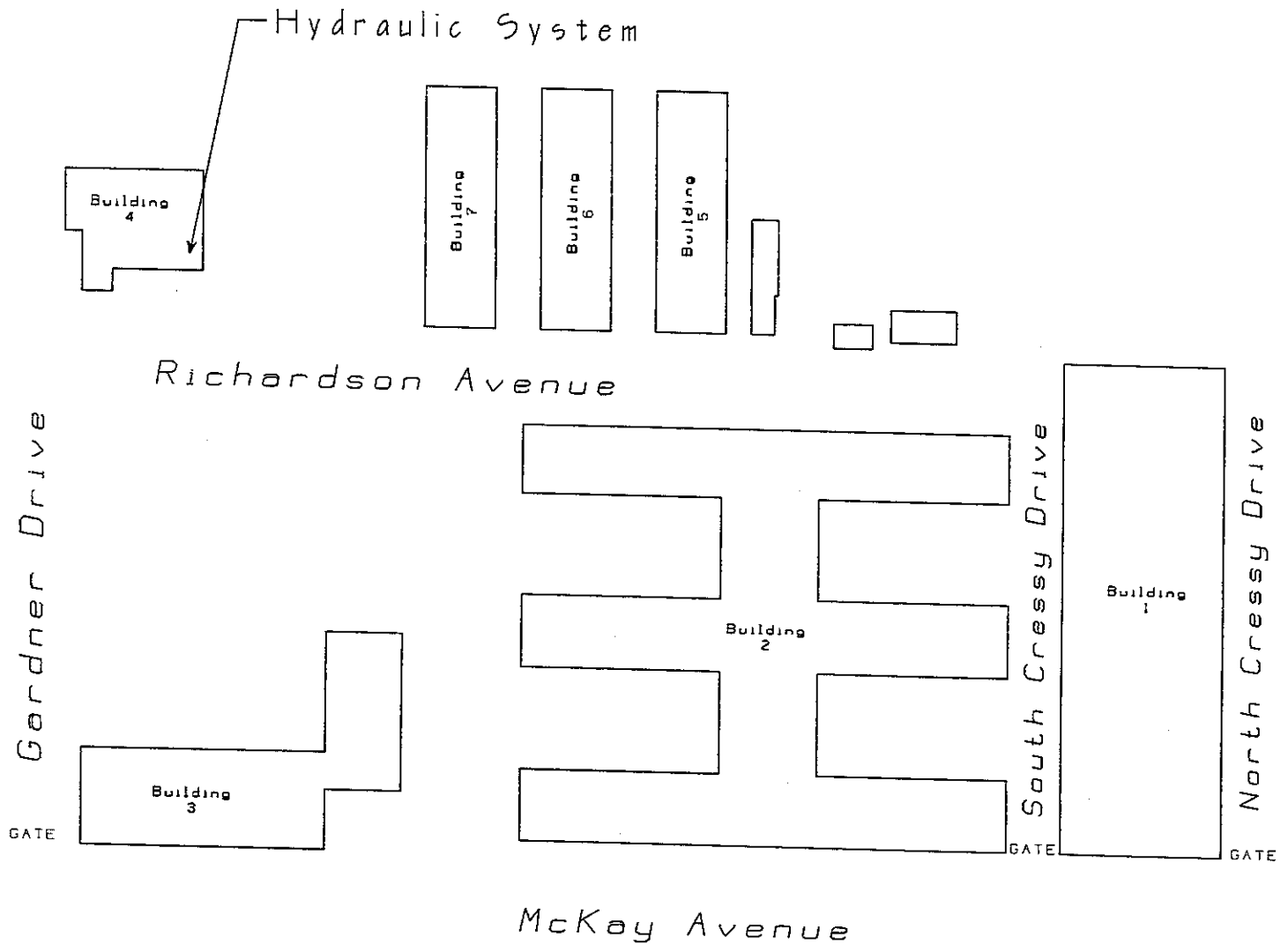
**Alameda Federal Center**  
**620 Central Avenue, Alameda, California**

**Figure 1: Regional Location  
 Alameda Federal Center  
 Alameda, California**

Drawn by M. J. 3-20-2003

Drawing Number FIG2SCR.gcd

Figure 2



Site Location  
 Building 4 Hydraulic System  
 Alameda Federal Center  
 620 Central Avenue  
 Alameda, California

Date: 3-20-2003  
 Locations Approx.

Figure 2

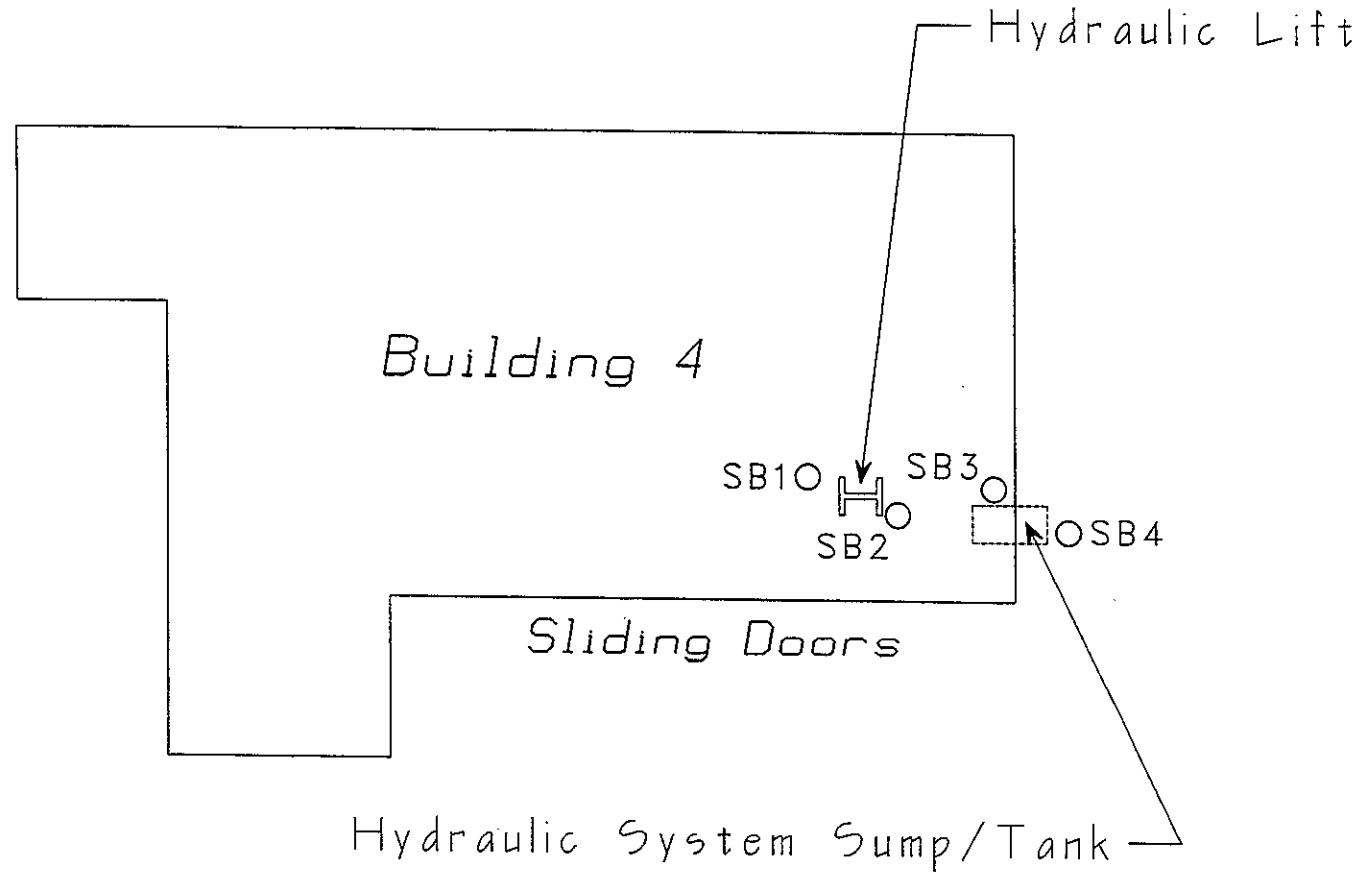
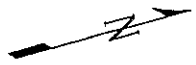
Drawing Number  
 FIG2SCR.gcd

Drawn  
by

M. J.  
3-25-2003

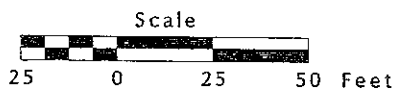
Drawing  
Number  
FIG3SCR.gcd

Figure  
3



Legend:

SB1  
○ Borehole



Alameda Federal Center  
620 Central Avenue  
Alameda, California

March 10, 2003  
Boring Locations  
Building 4 Hydraulic System

Date: 3-25-2003  
Locations Approx.

Figure 3

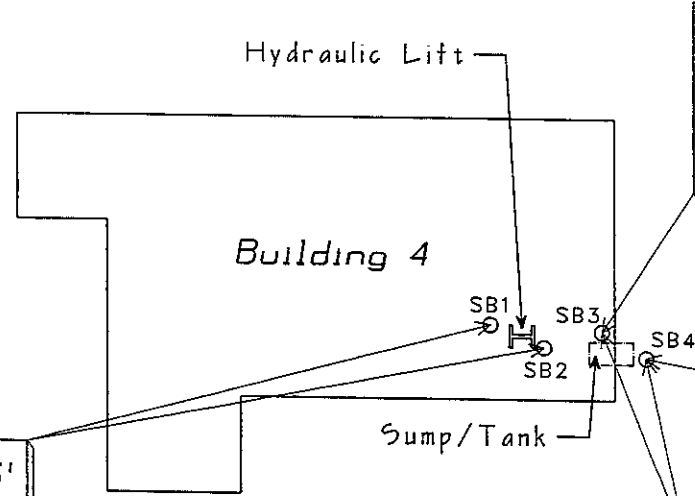
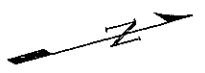
Drawing Number  
FIG3SCR.gcd



Drawn by M. J. 3-25-2003

Drawing Number FIG4SCR.gcd

Figure 4



SB3-2.5' March 10, 2003 results: (mg/Kg)	SB3-5' March 10, 2003 results: (mg/Kg)
TEPH-Hydraulic Oil ND(50)	TEPH-Hydraulic Oil ND(50)

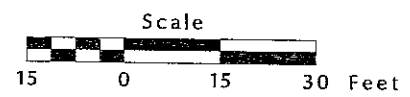
SB4-2.5' March 10, 2003 results: (mg/Kg)	SB4-5' March 10, 2003 results: (mg/Kg)
TEPH-Hydraulic Oil 190	TEPH-Hydraulic Oil ND(50)

SB1+SB2-2.5'-5' March 10, 2003 results: (mg/Kg)	SB1+SB2-10'-15' March 10, 2003 results: (mg/Kg)
TEPH-Hydraulic Oil ND(50)	TEPH-Hydraulic Oil ND(50)
VOCs none detected	VOCs none detected
Metals:	Metals:
Arsenic 2.2	Arsenic 1.4
Barium 68	Barium 27
Cadmium 1.4	Cadmium 0.79
Chromium 28	Chromium 27
Cobalt 8.6	Cobalt 3.8
Copper 14	Copper 4.7
Lead 1.8	Lead 1.6
Nickel 31	Nickel 23
Vanadium 25	Vanadium 14
Zinc 23	Zinc 15

SB3+SB4-2.5'-5' March 10, 2003 results: (mg/Kg)	SB3+SB4-10'-15' March 10, 2003 results: (mg/Kg)
TEPH-Hydraulic Oil 53	TEPH-Hydraulic Oil ND(50)
VOCs none detected	VOCs none detected
Metals:	Metals:
Arsenic 2.9	Arsenic 1.7
Barium 28	Barium 22
Cadmium 0.94	Cadmium 0.61
Chromium 21	Chromium 20
Cobalt 4.3	Cobalt 3.2
Copper 7.6	Copper 3.6
Lead 6.4	Lead 1.4
Nickel 20	Nickel 18
Vanadium 15	Vanadium 12
Zinc 20	Zinc 12

Legend:

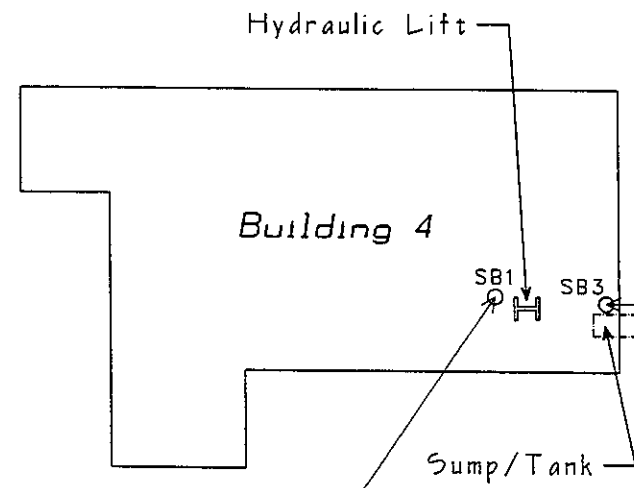
SB1  
○ Borehole



Alameda Federal Center  
620 Central Avenue  
Alameda, California

March 10, 2003  
Soil Sampling Results  
Building 4 Hydraulic System

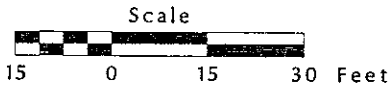
Drawn by M. J. 3-25-2003  
 Drawing Number FIG5SCR.gcd  
 Figure 5



SB1-GW	
March 10, 2003 results:	
(mg/l)	
TEPH-Hydraulic Oil	ND(0.500)
VOCs	none detected
Metals:	
Arsenic	0.011
Barium	0.14
Copper	0.045
Molybdenum	0.014
Nickel	0.0052
Thallium	0.0057
Vanadium	ND(0.0050)
Zinc	0.058

SB3-GW	
March 10, 2003 results:	
(mg/l)	
TEPH-Hydraulic Oil	2.600
VOCs	none detected
Metals:	
Arsenic	0.050
Barium	0.11
Copper	0.029
Molybdenum	0.065
Nickel	ND(0.0050)
Thallium	ND(0.0050)
Vanadium	0.075
Zinc	ND(0.0002)

Legend:  
 SB1  
 ○ Borehole



Alameda Federal Center  
 620 Central Avenue  
 Alameda, California

March 10, 2003  
 Groundwater Sampling Results  
 Building 4 Hydraulic System

## **Appendix C**

### **Summary Tables of Soil Laboratory Results**

**Table A**  
**TEPH AS HYDRAULIC OIL**  
**MARCH 10, 2003 SOIL RESULTS**  
**Building 4 - Hydraulic Lift**  
**Alameda Federal Center**  
**(EPA Methods 8015M)**  
**{mg/Kg}**

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	TEPH-Hydraulic Oil
SB1+SB2-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	ND (50)
SB1+SB2-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (50)
SB3+SB4-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	53
SB3+SB4-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (50)
SB3-2.5'	3/10/2003	2.5'	Soil	STL-SF	ND (50)
SB3-5'	3/10/2003	5'	Soil	STL-SF	ND (50)
SB4-2.5'	3/10/2003	2.5'	Soil	STL-SF	190
SB4-5'	3/10/2003	5'	Soil	STL-SF	ND (50)

notes:

TEPH: Total Extractable Petroleum Hydrocarbons  
 ND(10) = Not detected above the reporting limit.

Table B  
**VOLATILE ORGANIC COMPOUNDS**  
**MARCH 10, 2003 SOIL RESULTS**  
**Building 4 - Hydraulic Lift - Alameda Federal Center**  
**(EPA Method 8260B)**  
**{mg/Kg}**

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	<u>Acetone</u>	<u>Benzene</u>	<u>Bromodichloromethane</u>	<u>Bromobenzene</u>	<u>Bromochloromethane</u>	<u>Bromoform</u>	<u>Bromomethane</u>	<u>2-Butanone (MEK)</u>	<u>n-Butylbenzene</u>
SB1+SB2-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	ND (0.050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.020)	ND (0.0050)	ND (0.010)	ND (0.050)	ND (0.0050)
SB1+SB2-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (0.050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.020)	ND (0.0050)	ND (0.010)	ND (0.050)	ND (0.0050)
SB3+SB4-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	ND (0.050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.020)	ND (0.0050)	ND (0.010)	ND (0.050)	ND (0.0050)
SB3+SB4-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (0.050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.020)	ND (0.0050)	ND (0.010)	ND (0.050)	ND (0.0050)

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	<u>sec-Butylbenzene</u>	<u>tert-Butylbenzene</u>	<u>Carbon disulfide</u>	<u>Carbon tetrachloride</u>	<u>Chlorobenzene</u>	<u>Chloroethane</u>	<u>2-Chloroethylnyl ether</u>	<u>Chloroform</u>	<u>Chloromethane</u>
SB1+SB2-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.010)	ND (0.050)	ND (0.0050)	ND (0.010)
SB1+SB2-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.010)	ND (0.050)	ND (0.0050)	ND (0.010)
SB3+SB4-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.010)	ND (0.050)	ND (0.0050)	ND (0.010)
SB3+SB4-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.010)	ND (0.050)	ND (0.0050)	ND (0.010)

notes:  
STL-SF: Severn Trent Services - San Francisco  
ND(10) = Not detected above the laboratory reporting limit in parentheses.

Table B  
**VOLATILE ORGANIC COMPOUNDS**  
**MARCH 10, 2003 SOIL RESULTS**  
**Building 4 - Hydraulic Lift - Alameda Federal Center**  
**(EPA Method 8260B)**  
**{mg/Kg}**

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	<u>2-Chlorotoluene</u>	<u>4-Chlorotoluene</u>	<u>Dibromochloromethane</u>	<u>1,2-Dibromo-3-chloropropane</u>	<u>1,2-Dibromoethane</u>	<u>Dibromomethane</u>	<u>1,2-Dichlorobenzene</u>	<u>1,3-Dichlorobenzene</u>	<u>1,4-Dichlorobenzene</u>
SB1+SB2-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.050)	ND (0.010)	ND (0.010)	ND (0.0050)	ND (0.0050)	ND (0.0050)
SB1+SB2-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.050)	ND (0.010)	ND (0.010)	ND (0.0050)	ND (0.0050)	ND (0.0050)
SB3+SB4-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.050)	ND (0.010)	ND (0.010)	ND (0.0050)	ND (0.0050)	ND (0.0050)
SB3+SB4-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.050)	ND (0.010)	ND (0.010)	ND (0.0050)	ND (0.0050)	ND (0.0050)

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	<u>Dichlorodifluoromethane</u>	<u>1,1-Dichloropropene</u>	<u>1,3-Dichloropropane</u>	<u>2,2-Dichloropropane</u>	<u>1,1-Dichloroethane</u>	<u>1,2-Dichloroethane</u>	<u>1,1,1-Dichloroethene</u>	<u>cis-1,2-Dichloroethene</u>	<u>trans-1,2-Dichloroethene</u>
SB1+SB2-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	ND (0.010)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
SB1+SB2-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (0.010)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
SB3+SB4-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	ND (0.010)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
SB3+SB4-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (0.010)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)

notes:

STL-SF: Severn Trent Services - San Francisco  
 ND(10) = Not detected above the laboratory reporting limit in parentheses.

Table B  
**VOLATILE ORGANIC COMPOUNDS**  
**MARCH 10, 2003 SOIL RESULTS**  
**Building 4 - Hydraulic Lift - Alameda Federal Center**  
**(EPA Method 8260B)**  
**{mg/Kg}**

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	<u>1,2-Dichloropropane</u>	<u>cis-1,3-Dichloropropene</u>	<u>trans-1,3-Dichloropropene</u>	<u>Ethylbenzene</u>	<u>Hexachlorobutadiene</u>	<u>2-Hexanone</u>	<u>Isopropylbenzene</u>	<u>p-Isopropyltoluene</u>	<u>Methylene Chloride</u>
SB1+SB2-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.050)	ND (0.0050)	ND (0.0050)	ND (0.010)
SB1+SB2-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.050)	ND (0.0050)	ND (0.0050)	ND (0.010)
SB3+SB4-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.050)	ND (0.0050)	ND (0.0050)	ND (0.010)
SB3+SB4-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.050)	ND (0.0050)	ND (0.0050)	ND (0.010)

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	<u>4-Methyl-2-pentanone (MIBK)</u>	<u>MTBE</u>	<u>Naphthalene</u>	<u>n-Propylbenzene</u>	<u>Styrene</u>	<u>1,1,1,2-Tetrachloroethane</u>	<u>1,1,1,2,2-Tetrachloroethane</u>	<u>Tetrachloroethene</u>	<u>Toluene</u>
SB1+SB2-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	ND (0.050)	ND (0.0050)	ND (0.010)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
SB1+SB2-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (0.050)	ND (0.0050)	ND (0.010)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
SB3+SB4-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	ND (0.050)	ND (0.0050)	ND (0.010)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
SB3+SB4-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (0.050)	ND (0.0050)	ND (0.010)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)

notes:

STL-SF: Severn Trent Services - San Francisco

ND(10) = Not detected above the laboratory reporting limit in parentheses.

Table B  
**VOLATILE ORGANIC COMPOUNDS**  
**MARCH 10, 2003 SOIL RESULTS**  
**Building 4 - Hydraulic Lift - Alameda Federal Center**  
**(EPA Method 8260B)**  
**{mg/Kg}**

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	<u>1,2,3-Trichlorobenzene</u>	<u>1,2,4-Trichlorobenzene</u>	<u>1,1,1-Trichloroethane</u>	<u>1,1,2-Trichloroethane</u>	<u>Trichloroethene</u>	<u>Trichlorofluoromethane</u>	<u>Trichlorotrifluoroethane</u>	<u>1,2,4-Trimethylbenzene</u>	<u>1,3,5-Trimethylbenzene</u>
SB1+SB2-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
SB1+SB2-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
SB3+SB4-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
SB3+SB4-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	<u>Vinyl Acetate</u>	<u>Vinyl Chloroide</u>	<u>Total Xylenes</u>
SB1+SB2-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	ND (0.050)	ND (0.0050)	ND (0.0050)
SB1+SB2-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (0.050)	ND (0.0050)	ND (0.0050)
SB3+SB4-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	ND (0.050)	ND (0.0050)	ND (0.0050)
SB3+SB4-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (0.050)	ND (0.0050)	ND (0.0050)

notes:

STL-SF: Severn Trent Services - San Francisco

ND(10) = Not detected above the laboratory reporting limit in parentheses.



**Table C**  
**METALS**  
**MARCH 10, 2003 SOIL RESULTS**  
**Building 4 - Hydraulic Lift**  
**Alameda Federal Center**  
**(EPA Methods 3050b/7471A/6010B)**  
**{mg/Kg}**

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	Antimony (Sb)	Arsenic (As)	Barium (Ba)	Beryllium (Be)	Cadmium (Cd)	Chromium (Cr)	Cobalt (Co)	Copper (Cu)	Lead (Pb)
SB1+SB2-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	ND (2.0)	2.2	68	ND (0.50)	1.4	28	8.6	14	1.8
SB1+SB2-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (2.0)	1.4	27	ND (0.50)	0.79	27	3.8	4.7	1.6
SB3+SB4-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	ND (2.0)	2.9	28	ND (0.50)	0.94	21	4.3	7.6	6.4
SB3+SB4-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (2.0)	1.7	22	ND (0.50)	0.61	20	3.2	3.6	1.4

notes:

STL-SF: Severn Trent Services - San Francisco

ND(10) = Not detected above the laboratory reporting limit in parentheses.

**Table C**  
**METALS**  
**MARCH 10, 2003 SOIL RESULTS**  
**Building 4 - Hydraulic Lift**  
**Alameda Federal Center**  
**(EPA Methods 3050b/7471A/6010B)**  
**{mg/Kg}**

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	Hg - Mercury	Molybdenum (Mo)	Nickel (Ni)	Selenium (Se)	Silver (Ag)	Thallium (Tl)	Vanadium (V)	Zinc (Zn)
SB1+SB2-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	ND (0.050)	ND (1.0)	31	ND (2.0)	ND (1.0)	ND (1.0)	25	23
SB1+SB2-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (0.050)	ND (1.0)	23	ND (2.0)	ND (1.0)	ND (1.0)	14	15
SB3+SB4-2.5'+5'	3/10/2003	2.5' & 5'	Soil	STL-SF	ND (0.050)	ND (1.0)	20	ND (2.0)	ND (1.0)	ND (1.0)	15	20
SB3+SB4-10'+15'	3/10/2003	10' & 15'	Soil	STL-SF	ND (0.050)	ND (1.0)	18	ND (2.0)	ND (1.0)	ND (1.0)	12	12

notes:

STL-SF: Severn Trent Services - San Francisco

ND(10) = Not detected above the laboratory reporting limit in parentheses.

**Table D**  
**TEPH AS HYDRAULIC OIL**  
**MARCH 10, 2003 GROUNDWATER RESULTS**  
**Building 4 - Hydraulic Lift**  
**Alameda Federal Center**  
**(EPA Methods 8015M)**  
**{mg/L}**

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	TEPH-Hydraulic Oil
SB1-GW	3/10/2003	15'	Water	STL-SF	ND (0.500)
SB3-GW	3/10/2003	15'	Water	STL-SF	2.600

notes:  
 TEPH: Total Extractable Petroleum Hydrocarbons  
 ND(10) = Not detected above the reporting limit.

**Table E**  
**VOLATILE ORGANIC COMPOUNDS**  
**MARCH 10, 2003 GROUNDWATER RESULTS**  
**Building 4 - Hydraulic Lift**  
**Alameda Federal Center**  
**(EPA Method 8260B)**  
**{mg/L}**

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	<u>Acetone</u>	<u>Benzene</u>	<u>Bromodichloromethane</u>	<u>Bromobenzene</u>	<u>Bromochloromethane</u>	<u>Bromoform</u>	<u>Bromomethane</u>	<u>2-Butanone (MEK)</u>	<u>n-Butylbenzene</u>
SB1-GW	3/10/2003	15'	Water	STL-SF	ND (0.050)	ND (0.00050)	ND (0.00050)	ND (0.0010)	ND (0.0010)	ND (0.00050)	ND (0.0010)	ND (0.050)	ND (0.0010)
SB3-GW	3/10/2003	15'	Water	STL-SF	ND (0.050)	ND (0.00050)	ND (0.00050)	ND (0.0010)	ND (0.0010)	ND (0.00050)	ND (0.0010)	ND (0.050)	ND (0.0010)

notes:

STL-SF: Severn Trent Services - San Francisco

ND(10) = Not detected above the laboratory reporting limit in parentheses.

Table E  
**VOLATILE ORGANIC COMPOUNDS**  
**MARCH 10, 2003 GROUNDWATER RESULTS**  
**Building 4 - Hydraulic Lift**  
**Alameda Federal Center**  
**(EPA Method 8260B)**  
**{mg/L}**

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	<u>sec-Butylbenzene</u>	<u>tert-Butylbenzene</u>	<u>Carbon disulfide</u>	<u>Carbon tetrachloride</u>	<u>Chlorobenzene</u>	<u>Chloroethane</u>	<u>2-Chloroethylvinyl ether</u>	<u>Chloroform</u>	<u>Chloromethane</u>
SB1-GW	3/10/2003	15'	Water	STL-SF	ND (0.0010)	ND (0.0010)	ND (0.0050)	ND (0.00050)	ND (0.00050)	ND (0.0010)	ND (0.0050)	ND (0.0010)	ND (0.0010)
SB3-GW	3/10/2003	15'	Water	STL-SF	ND (0.0010)	ND (0.0010)	ND (0.0050)	ND (0.00050)	ND (0.00050)	ND (0.0010)	ND (0.0050)	ND (0.0010)	ND (0.0010)

notes:

STL-SF: Severn Trent Services - San Francisco  
 ND(10) = Not detected above the laboratory reporting limit in parentheses.

**Table E**  
**VOLATILE ORGANIC COMPOUNDS**  
**MARCH 10, 2003 GROUNDWATER RESULTS**  
**Building 4 - Hydraulic Lift**  
**Alameda Federal Center**  
**(EPA Method 8260B)**  
**{mg/L}**

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	<u>2-Chlorotoluene</u>	<u>4-Chlorotoluene</u>	<u>Dibromochloromethane</u>	<u>1,2-Dibromo-3-chloropropane</u>	<u>1,2-Dibromoethane</u>	<u>Dibromomethane</u>	<u>1,2-Dichlorobenzene</u>	<u>1,3-Dichlorobenzene</u>	<u>1,4-Dichlorobenzene</u>
SB1-GW	3/10/2003	15'	Water	STL-SF	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.0010)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
SB3-GW	3/10/2003	15'	Water	STL-SF	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.0010)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)

notes:  
 STL-SF: Severn Trent Services - San Francisco  
 ND(10) = Not detected above the laboratory reporting limit in parentheses.

Table E  
**VOLATILE ORGANIC COMPOUNDS**  
**MARCH 10, 2003 GROUNDWATER RESULTS**  
 Building 4 - Hydraulic Lift  
 Alameda Federal Center  
 (EPA Method 8260B)  
 {mg/L}

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	<u>Dichlorodifluoromethane</u>	<u>1,1-Dichloropropene</u>	<u>1,3-Dichloropropane</u>	<u>2,2-Dichloropropane</u>	<u>1,1-Dichloroethane</u>	<u>1,2-Dichloroethane</u>	<u>1,1-Dichloroethene</u>	<u>cis-1,2-Dichloroethene</u>	<u>trans-1,2-Dichloroethene</u>
SB1-GW	3/10/2003	15'	Water	STL-SF	ND (0.00050)	ND (0.00050)	ND (0.0010)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
SB3-GW	3/10/2003	15'	Water	STL-SF	ND (0.00050)	ND (0.00050)	ND (0.0010)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)

notes:

STL-SF: Severn Trent Services - San Francisco  
 ND(10) = Not detected above the laboratory reporting limit in parentheses.

**Table E**  
**VOLATILE ORGANIC COMPOUNDS**  
**MARCH 10, 2003 GROUNDWATER RESULTS**  
**Building 4 - Hydraulic Lift**  
**Alameda Federal Center**  
**(EPA Method 8260B)**  
**{mg/L}**

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	<u>1,2-Dichloropropane</u>	<u>cis-1,3-Dichloropropene</u>	<u>trans-1,3-Dichloropropene</u>	<u>Ethylbenzene</u>	<u>Hexachlorobutadiene</u>	<u>2-Hexanone</u>	<u>Isopropylbenzene</u>	<u>p-Isopropyltoluene</u>	<u>Methylene Chloride</u>
SB1-GW	3/10/2003	15'	Water	STL-SF	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.0010)	ND (0.050)	ND (0.00050)	ND (0.0010)	ND (0.0050)
SB3-GW	3/10/2003	15'	Water	STL-SF	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.0010)	ND (0.050)	ND (0.00050)	ND (0.0010)	ND (0.0050)

notes:

STL-SF: Severn Trent Services - San Francisco

ND(10) = Not detected above the laboratory reporting limit in parentheses.



Table E  
**VOLATILE ORGANIC COMPOUNDS**  
**MARCH 10, 2003 GROUNDWATER RESULTS**  
 Building 4 - Hydraulic Lift  
 Alameda Federal Center  
 (EPA Method 8260B)  
 {mg/L}

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	<u>4-Methyl-2-pentanone (MIBK)</u>	<u>MIBE</u>	<u>Naphthalene</u>	<u>n-Propylbenzene</u>	<u>Styrene</u>	<u>1,1,1,2-Tetrachloroethane</u>	<u>1,1,2,2-Tetrachloroethane</u>	<u>Tetrachloroethene</u>	<u>Toluene</u>
SB1-GW	3/10/2003	15'	Water	STL-SF	ND (0.050)	ND (0.0050)	ND (0.0010)	ND (0.0010)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
SB3-GW	3/10/2003	15'	Water	STL-SF	ND (0.050)	ND(0.0050)	ND (0.0010)	ND (0.0010)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)

notes:

STL-SF: Severn Trent Services - San Francisco

ND(10) = Not detected above the laboratory reporting limit in parentheses.

**Table E**  
**VOLATILE ORGANIC COMPOUNDS**  
**MARCH 10, 2003 GROUNDWATER RESULTS**  
**Building 4 - Hydraulic Lift**  
**Alameda Federal Center**  
**(EPA Method 8260B)**  
**{mg/L}**

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	<u>1,2,3-Trichlorobenzene</u>	<u>1,2,4-Trichlorobenzene</u>	<u>1,1,1-Trichloroethane</u>	<u>1,1,2-Trichloroethane</u>	<u>Trichloroethene</u>	<u>Trichlorofluoromethane</u>	<u>Trichlorotrifluoroethane</u>	<u>1,2,4-Trimethylbenzene</u>	<u>1,3,5-Trimethylbenzene</u>
SB1-GW	3/10/2003	15'	Water	STL-SF	ND (0.0010)	ND (0.0010)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.0010)	ND (0.00050)	ND (0.00050)	ND (0.00050)
SB3-GW	3/10/2003	15'	Water	STL-SF	ND (0.0010)	ND (0.0010)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.0010)	ND (0.00050)	ND (0.00050)	ND (0.00050)

notes:

STL-SF: Severn Trent Services - San Francisco

ND(10) = Not detected above the laboratory reporting limit in parentheses.

**Table E**  
**VOLATILE ORGANIC COMPOUNDS**  
**MARCH 10, 2003 GROUNDWATER RESULTS**  
**Building 4 - Hydraulic Lift**  
**Alameda Federal Center**  
**(EPA Method 8260B)**  
**{mg/L}**

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	Vinyl Acetate	Vinyl Chloroide	Total Xylenes
SB1-GW	3/10/2003	15'	Water	STL-SF	ND (0.025)	ND (0.00050)	ND (0.0010)
SB3-GW	3/10/2003	15'	Water	STL-SF	ND (0.025)	ND (0.00050)	ND (0.0010)

notes:

STL-SF: Severn Trent Services - San Francisco

ND(10) = Not detected above the laboratory reporting limit in parentheses.

**Table F**  
**METALS**  
**MARCH 10, 2003 GROUNDWATER RESULTS**  
**Building 4 - Hydraulic Lift**  
**Alameda Federal Center**  
**(EPA Methods 3050b/7471A/6010B)**  
**{mg/L}**

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	<i>Antimony (Sb)</i>	<i>Arsenic (As)</i>	<i>Barium (Ba)</i>	<i>Beryllium (Be)</i>	<i>Cadmium (Cd)</i>	<i>Chromium (Cr)</i>	<i>Cobalt (Co)</i>	<i>Copper (Cu)</i>	<i>Lead (Pb)</i>
SB1-GW	3/10/2003	15'	Water	STL-SF	ND (0.0050)	0.011	0.14	ND (0.0050)	ND (0.0020)	ND (0.0050)	ND (0.0050)	0.045	ND (0.0050)
SB3-GW	3/10/2003	15'	Water	STL-SF	ND (0.0050)	0.050	0.11	ND (0.0050)	ND (0.0020)	ND (0.0050)	ND (0.0050)	0.029	ND (0.0050)

notes:

STL-SF: Severn Trent Services - San Francisco

ND(10) = Not detected above the laboratory reporting limit in parentheses.

**Table F**  
**METALS**  
**MARCH 10, 2003 GROUNDWATER RESULTS**  
**Building 4 - Hydraulic Lift**  
**Alameda Federal Center**  
**(EPA Methods 3050b/7471A/6010B)**  
**{mg/L}**

Sample I.D.	Sampling Date	Sampling Depth (ft.)	Matrix	Lab	Hg - Mercury	Molybdenum (Mo)	Nickel (Ni)	Selenium (Se)	Silver (Ag)	Thallium (Tl)	Vanadium (V)	Zinc (Zn)
SB1-GW	3/10/2003	15'	Water	STL-SF	ND (0.00020)	0.014	0.0052	ND (0.0050)	ND (0.0050)	0.0057	ND (0.0050)	0.058
SB3-GW	3/10/2003	15'	Water	STL-SF	ND (0.00020)	0.065	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.075	ND (0.010)

notes:

STL-SF: Severn Trent Services - San Francisco  
 ND(10) = Not detected above the laboratory reporting limit in parentheses.

## **Appendix D**

### **Chain-of-Custody Records**



# STL San Francisco

Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756  
Phone: (925) 484-1919 • Fax: (925) 484-1096

Email: [info@chromalab.com](mailto:info@chromalab.com)

Reference #: 72510

## 2003-03-0178

Date 3/10/03 Page 1 of 23

### Report To

Attn: Voytek Bajsanowicz / Mark Jonas, R.G.  
 Company: JONAS & ASSOCIATES, INC.  
 Address: 1350 Arnold Dr., S. 202, Martinez, CA 94553  
 Phone: 925/374-0020 Email: voytek@jonas-inc.com  
 Bill To: Jonas & Associates, Inc. Same as above. Sampled By: [Signature]  
 Attn: SAA Phone: 925/374-0020

### Analysis Request

Sample ID	Date	Time	Mat rix	Pres erv.	TPH EPA - <input type="checkbox"/> 8015/8021 <input type="checkbox"/> 8260B <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	Purgeable Aromatics BTX EPA - <input type="checkbox"/> 8021 <input type="checkbox"/> 8260B	TEPH EPA 8015M Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input checked="" type="checkbox"/> Other <u>HO</u> <u>Hydrocarbons</u>	Fuel Tests EPA 8208: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> Five Oxysterols <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) <input checked="" type="checkbox"/> EPA 8260B <input type="checkbox"/> 624	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664)	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PCBs	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other:	W.E.T (STLC) TCLP	Hexavalent Chromium pH (24h hold time for H <sub>2</sub> O)	Spec Cond. <input type="checkbox"/> Alkalinity TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>	Number of Containers
SB1-2.5'	3/10/03	0835	soil	cool																		
SB1-5'	3/10/03	0840	soil	cool																		1
SB2-2.5'	3/10/03	0930	soil	cool																		1
SB2-5'	3/10/03	0935	soil	cool																		1
SB1-10'	3/10/03	0842	soil	cool																		1
SB1-15'	3/10/03	0845	soil	cool																		1
SB2-10'	3/10/03	0937	soil	cool																		1
SB2-15'	3/10/03	0940	soil	cool																		1
SB1-GW	3/10/03	0900	water	cool																		1

### Project Info

Project Name: Alameda Fed. Ctr. Bldg 4  
 Project#: GSA-211A  
 PO#: \_\_\_\_\_  
 Credit Card#: \_\_\_\_\_  
 # of Containers: \_\_\_\_\_  
 Head Space: \_\_\_\_\_  
 Temp: \_\_\_\_\_  
 Conforms to record: \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sample Receipt

1) Relinquished by: [Signature] 17:00  
 Signature \_\_\_\_\_ Time \_\_\_\_\_  
Ornis Holmes 3-10-03  
 Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
**JONAS & ASSOCIATES, INC.**  
 Company \_\_\_\_\_

### 2) Relinquished by:

Signature \_\_\_\_\_ Time \_\_\_\_\_  
 Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
 Company \_\_\_\_\_

### 3) Relinquished by:

Signature \_\_\_\_\_ Time \_\_\_\_\_  
 Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
 Company \_\_\_\_\_

### Report:

Routine  Level 3  Level 4  EDD  State Tank Fund EDF  
 Special Instructions / Comments: \_\_\_\_\_  
Please composite as marked. (ex. SB1+SB2-2.5'+5')  
Please save samples until notified.

### 1) Received by:

Signature \_\_\_\_\_ Time \_\_\_\_\_  
 Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
 Company \_\_\_\_\_

### 2) Received by:

Signature \_\_\_\_\_ Time \_\_\_\_\_  
 Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
 Company \_\_\_\_\_

### 3) Received by:

[Signature] 1700  
 Signature \_\_\_\_\_ Time \_\_\_\_\_  
Ornis Holmes 3/10/03  
 Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
STL-SF  
 Company \_\_\_\_\_

### Report To

Attn: Voytek Bysarowicz / Mark Jonas, R.G.  
 Company: JONAS & ASSOCIATES, INC.  
 Address: 1350 Arnold Dr., S. 202, Martinez, CA 94553  
 Phone: 925/374-0020 Email: voytekejonas.com  
 Bill To: Jonas & Associates, Inc. Same as above. Sampled By: [Signature]  
 Attn: SAA Phone: 925/374-0020

### Analysis Request

Sample ID	Date	Time	Mat. rx	Pres. env.	TPH EPA - <input type="checkbox"/> 8015/8021 <input type="checkbox"/> 8260B <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	Purgeable Aromatics BTEX EPA - <input type="checkbox"/> 8021 <input type="checkbox"/> 8260B	TEPH EPA 8015M Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input checked="" type="checkbox"/> Other <u>H<sub>2</sub>O</u> <u>Hydrocarbons</u>	Fuel Tests EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> Five Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) <input checked="" type="checkbox"/> EPA 8260B <input type="checkbox"/> 624	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other:	W.E.T (STLC) TCLP	Hexavalent Chromium pH (24h hold time for H <sub>2</sub> O)	Spec Cond. <input type="checkbox"/> Alkalinity TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>	Number of Containers		
S83-2.5'	3/10/03	1010	soil																				
S83-5'	3/10/03	1015	soil																				
S84-2.5'	3/10/03	1210	soil																				
S84-5'	3/10/03	1214	soil																				
S83-10'	3/10/03	1018	soil																				
S83-15'	3/10/03	1022	soil																				
S84-10'	3/10/03	1218	soil																				
S84-15'	3/10/03	1222	soil																				

Project Info		Sample Receipt	
Project Name:		# of Containers:	
Project#:		Head Space:	
PO#:		Temp:	
Credit Card#:		Conforms to record:	

1) Relinquished by:  
[Signature] 17:00  
 Signature Time  
Oran Haima 3-10-03  
 Printed Name Date  
**JONAS & ASSOCIATES, INC.**  
 Company

2) Relinquished by:  
 Signature Time  
 Printed Name Date  
 Company

3) Relinquished by:  
 Signature Time  
 Printed Name Date  
 Company

T A T	Std 5 Day	72h	48h	24h	Other:
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> State Tank Fund EDF Special Instructions / Comments: <input type="checkbox"/> Gbbal ID _____					

1) Received by:  
 Signature Time  
 Printed Name Date  
 Company

2) Received by:  
 Signature Time  
 Printed Name Date  
 Company

3) Received by:  
Nounak 1700  
 Signature Time  
Nounak  
 Printed Name Date  
STL - SF 3/10/03  
 Company



**2003-03-0178**

**Report To** Jonas & Associates, Inc. **Analysis Request**

Attn: Jonas & Associates, Inc.  
Company: JONAS & ASSOCIATES, INC.  
Address: 1350 Arnold Dr., S. 202, Martinez, CA 94553  
Phone: 925/374-0020 Email: \_\_\_\_\_  
Bill To: Jonas & Associates, Inc. Same as above. Sampled By: mm  
Attn: SAA Phone: (925) 374-0020

Sample ID	Date	Time	Mat rix	Pres erv.	TPH EPA - <input type="checkbox"/> 8015/8021 <input type="checkbox"/> 8260B <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	Purgeable Aromatics BTEX EPA - <input type="checkbox"/> 8021 <input type="checkbox"/> 8260B	TEPH EPA 8015M <input type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other <input type="checkbox"/> Hydrocarbons	Fuel Tests EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> Five Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) EPA 8260B <input type="checkbox"/> 624	Semivolatiles GC/MS EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 6010/17470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other: _____	W.E.T (STLC) TCLP	Hexavalent Chromium pH (24h hold time for H <sub>2</sub> O)	Spec Cond. <input type="checkbox"/> Alkalinity TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>	Number of Containers
SB 3-GW	3/10/03	10:30 AM	Water	cool			X			X					X						
<b>ON HOLD</b>																					

**Project Info**  
Project Name: Bldg 4  
Alameda Federal Center  
Project#: GSA 211A  
PO#: \_\_\_\_\_  
Credit Card#: \_\_\_\_\_

**Sample Receipt**  
# of Containers: \_\_\_\_\_  
Head Space: \_\_\_\_\_  
Temp: \_\_\_\_\_  
Conforms to record: \_\_\_\_\_  
Other: \_\_\_\_\_

Report:  Routine  Level 3  Level 4  EDD  State Tank Fund EDF  
Special Instructions / Comments:  Gibbal ID \_\_\_\_\_  
ON HOLD Perform analysis as marked. 3/12/03 mm  
Pls wait for instructions

1) Relinquished by:  
Orna 17:00  
Signature \_\_\_\_\_ Time \_\_\_\_\_  
Orna Horner 3:00 PM  
Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
Company: JONAS & ASSOCIATES, INC.

1) Received by:  
Signature \_\_\_\_\_ Time \_\_\_\_\_  
Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
Company \_\_\_\_\_

2) Relinquished by:  
Signature \_\_\_\_\_ Time \_\_\_\_\_  
Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
Company \_\_\_\_\_

2) Received by:  
Signature \_\_\_\_\_ Time \_\_\_\_\_  
Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
Company \_\_\_\_\_

3) Relinquished by:  
Signature \_\_\_\_\_ Time \_\_\_\_\_  
Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
Company \_\_\_\_\_

3) Received by:  
Nounak 17:00  
Signature \_\_\_\_\_ Time \_\_\_\_\_  
Nounak  
Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
STL-SF 3/10/03  
Company \_\_\_\_\_

**STL San Francisco**

### Sample Receipt Checklist

Submission #: 2003- 03 - 0178

Checklist completed by: (initials) DSH Date: 03/11/03

Courier name:  STL San Francisco  Client \_\_\_\_\_

Custody seals intact on shipping container/samples

Yes \_\_\_ No \_\_\_ Not Present

Chain of custody present?

Yes  No \_\_\_

Chain of custody signed when relinquished and received?

Yes  No \_\_\_

Chain of custody agrees with sample labels?

Yes  No \_\_\_

Samples in proper container/bottle?

Yes  No \_\_\_

Sample containers intact?

Yes  No \_\_\_

Sufficient sample volume for indicated test?

Yes  No \_\_\_

All samples received within holding time?

Yes  No \_\_\_

Container/Temp Blank temperature in compliance ( $4^{\circ}C \pm 2$ )?

Temp: 6.0 °C Yes  No \_\_\_

Water - VOA vials have zero headspace?

No VOA vials submitted \_\_\_ Yes  No \_\_\_

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small ~O), M (medium ~ O) or L (large ~ O))

Water - pH acceptable upon receipt?  Yes  No

*splits made for metals (water) @ lab - DSH*

pH adjusted- Preservative used:  HNO<sub>3</sub>  HCl  H<sub>2</sub>SO<sub>4</sub>  NaOH  ZnOAc

For any item check-listed "No", provided detail of discrepancy in comment section below:

**Comments:**

### Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) \_\_\_\_\_ Date: \_\_\_\_\_/\_\_\_\_\_/03

Client contacted:  Yes  No

Summary of discussion:

Corrective Action (per PM/Client):

## **Appendix E**

### **Laboratory Data Reports**

**Jonas & Associates, Inc.**

March 19, 2003

1350 Arnold Drive Suite 202  
Martinez, CA 94553

Attn.: Mark Jonas

Project#: GSA-211A

Project: Alameda Fed. Centr. Bldg. 4

Dear Mr. Jonas,

Attached is our report for your samples received on 03/10/2003 17:00

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 04/24/2003 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: [tgranicher@stl-inc.com](mailto:tgranicher@stl-inc.com)

Sincerely,



Tod Granicher  
Project Manager

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* [www.stl-inc.com](http://www.stl-inc.com) \* CA DHS ELAP# 2496

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas &amp; Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Received: 03/10/2003 17:00

Alameda Fed. Centr. Bldg. 4

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SB1+SB2-2.5'-5'	03/10/2003	Soil	1
SB1+SB2-10'-15'	03/10/2003	Soil	2
SB3+SB4-2.5'-5'	03/10/2003	Soil	4
SB3+SB4-10'-15'	03/10/2003	Soil	5

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 14:56

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas &amp; Associates, Inc.

Attn.: Mark Jonas

 1350 Arnold Drive Suite 202  
 Martinez, CA 94553  
 Phone: (925) 374-0020 Fax: (925) 374-0021

 Project: GSA-211A  
 Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s):	5035	Test(s):	8260B
Sample ID:	SB1+SB2-2.5'-5'	Lab ID:	2003-03-0178 - 1
Sampled:	03/10/2003	Extracted:	3/13/2003 18:42
Matrix:	Soil	QC Batch#:	2003/03/13-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Acetone	ND	50	ug/Kg	1.00	03/13/2003 18:42	
Benzene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Bromobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Bromochloromethane	ND	20	ug/Kg	1.00	03/13/2003 18:42	
Bromoform	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Bromomethane	ND	10	ug/Kg	1.00	03/13/2003 18:42	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	03/13/2003 18:42	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Carbon disulfide	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Chlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Chloroethane	ND	10	ug/Kg	1.00	03/13/2003 18:42	
2-Chloroethylvinyl ether	ND	50	ug/Kg	1.00	03/13/2003 18:42	
Chloroform	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Chloromethane	ND	10	ug/Kg	1.00	03/13/2003 18:42	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
1,1-Dichloropropene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	03/13/2003 18:42	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	03/13/2003 18:42	
Dibromomethane	ND	10	ug/Kg	1.00	03/13/2003 18:42	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 14:56

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas &amp; Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Received: 03/10/2003 17:00

Alameda Fed. Centr. Bldg. 4

Prep(s):	5035	Test(s):	8260B
Sample ID:	SB1+SB2-2.5'-5'	Lab ID:	2003-03-0178 - 1
Sampled:	03/10/2003	Extracted:	3/13/2003 18:42
Matrix:	Soil	QC Batch#:	2003/03/13-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	03/13/2003 18:42	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Ethylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
2-Hexanone	ND	50	ug/Kg	1.00	03/13/2003 18:42	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Methylene chloride	ND	10	ug/Kg	1.00	03/13/2003 18:42	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	03/13/2003 18:42	
Naphthalene	ND	10	ug/Kg	1.00	03/13/2003 18:42	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Styrene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Toluene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Trichloroethene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	

Severn Trent Laboratories, Inc.

03/17/2003 14:56

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s): 5035 Test(s): 8260B  
 Sample ID: SB1+SB2-2.5'-5' Lab ID: 2003-03-0178 - 1  
 Sampled: 03/10/2003 Extracted: 3/13/2003 18:42  
 Matrix: Soil QC Batch#: 2003/03/13-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Vinyl acetate	ND	50	ug/Kg	1.00	03/13/2003 18:42	
Vinyl chloride	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
Total xylenes	ND	5.0	ug/Kg	1.00	03/13/2003 18:42	
<b>Surrogates(s)</b>						
4-Bromofluorobenzene	87.3	74-121	%	1.00	03/13/2003 18:42	
1,2-Dichloroethane-d4	102.1	70-121	%	1.00	03/13/2003 18:42	
Toluene-d8	101.9	81-117	%	1.00	03/13/2003 18:42	



**Volatile Organic Compounds by 8260B (Low Level)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Received: 03/10/2003 17:00

Alameda Fed. Centr. Bldg. 4

Prep(s): 5035 Test(s): 8260B  
 Sample ID: SB1+SB2-10'-15' Lab ID: 2003-03-0178 - 2  
 Sampled: 03/10/2003 Extracted: 3/13/2003 19:18  
 Matrix: Soil QC Batch#: 2003/03/13-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Acetone	ND	50	ug/Kg	1.00	03/13/2003 19:18	
Benzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Bromobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Bromochloromethane	ND	20	ug/Kg	1.00	03/13/2003 19:18	
Bromoform	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Bromomethane	ND	10	ug/Kg	1.00	03/13/2003 19:18	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	03/13/2003 19:18	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Carbon disulfide	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Chlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Chloroethane	ND	10	ug/Kg	1.00	03/13/2003 19:18	
2-Chloroethylvinyl ether	ND	50	ug/Kg	1.00	03/13/2003 19:18	
Chloroform	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Chloromethane	ND	10	ug/Kg	1.00	03/13/2003 19:18	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
1,1-Dichloropropene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	03/13/2003 19:18	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	03/13/2003 19:18	
Dibromomethane	ND	10	ug/Kg	1.00	03/13/2003 19:18	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 14:56

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas &amp; Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s):	5035	Test(s):	8260B
Sample ID:	SB1+SB2-10'-15'	Lab ID:	2003-03-0178 - 2
Sampled:	03/10/2003	Extracted:	3/13/2003 19:18
Matrix:	Soil	QC Batch#:	2003/03/13-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	03/13/2003 19:18	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Ethylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
2-Hexanone	ND	50	ug/Kg	1.00	03/13/2003 19:18	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Methylene chloride	ND	10	ug/Kg	1.00	03/13/2003 19:18	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	03/13/2003 19:18	
Naphthalene	ND	10	ug/Kg	1.00	03/13/2003 19:18	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Styrene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Toluene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Trichloroethene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 14:56

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s): 5035 Test(s): 8260B  
 Sample ID: SB1+SB2-10'-15' Lab ID: 2003-03-0178 - 2  
 Sampled: 03/10/2003 Extracted: 3/13/2003 19:18  
 Matrix: Soil QC Batch#: 2003/03/13-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Vinyl acetate	ND	50	ug/Kg	1.00	03/13/2003 19:18	
Vinyl chloride	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
Total xylenes	ND	5.0	ug/Kg	1.00	03/13/2003 19:18	
<b>Surrogates(s)</b>						
4-Bromofluorobenzene	88.7	74-121	%	1.00	03/13/2003 19:18	
1,2-Dichloroethane-d4	99.6	70-121	%	1.00	03/13/2003 19:18	
Toluene-d8	100.1	81-117	%	1.00	03/13/2003 19:18	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 14:56

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s): 5035 Test(s): 8260B  
 Sample ID: SB3+SB4-2.5'-5' Lab ID: 2003-03-0178 - 4  
 Sampled: 03/10/2003 Extracted: 3/13/2003 19:55  
 Matrix: Soil QC Batch#: 2003/03/13-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Acetone	ND	50	ug/Kg	1.00	03/13/2003 19:55	
Benzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Bromobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Bromochloromethane	ND	20	ug/Kg	1.00	03/13/2003 19:55	
Bromoform	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Bromomethane	ND	10	ug/Kg	1.00	03/13/2003 19:55	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	03/13/2003 19:55	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Carbon disulfide	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Chlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Chloroethane	ND	10	ug/Kg	1.00	03/13/2003 19:55	
2-Chloroethylvinyl ether	ND	50	ug/Kg	1.00	03/13/2003 19:55	
Chloroform	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Chloromethane	ND	10	ug/Kg	1.00	03/13/2003 19:55	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
1,1-Dichloropropene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	03/13/2003 19:55	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	03/13/2003 19:55	
Dibromomethane	ND	10	ug/Kg	1.00	03/13/2003 19:55	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 14:56

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas &amp; Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Received: 03/10/2003 17:00

Alameda Fed. Centr. Bldg. 4

Prep(s):	5035	Test(s):	8260B
Sample ID:	SB3+SB4-2.5'-5'	Lab ID:	2003-03-0178 - 4
Sampled:	03/10/2003	Extracted:	3/13/2003 19:55
Matrix:	Soil	QC Batch#:	2003/03/13-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	03/13/2003 19:55	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Ethylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
2-Hexanone	ND	50	ug/Kg	1.00	03/13/2003 19:55	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Methylene chloride	ND	10	ug/Kg	1.00	03/13/2003 19:55	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	03/13/2003 19:55	
Naphthalene	ND	10	ug/Kg	1.00	03/13/2003 19:55	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Styrene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Toluene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Trichloroethene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	

Severn Trent Laboratories, Inc.

03/17/2003 14:56

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

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s): 5035 Test(s): 8260B  
 Sample ID: SB3+SB4-2.5'-5' Lab ID: 2003-03-0178 - 4  
 Sampled: 03/10/2003 Extracted: 3/13/2003 19:55  
 Matrix: Soil QC Batch#: 2003/03/13-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Vinyl acetate	ND	50	ug/Kg	1.00	03/13/2003 19:55	
Vinyl chloride	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
Total xylenes	ND	5.0	ug/Kg	1.00	03/13/2003 19:55	
<b>Surrogates(s)</b>						
4-Bromofluorobenzene	88.8	74-121	%	1.00	03/13/2003 19:55	
1,2-Dichloroethane-d4	102.0	70-121	%	1.00	03/13/2003 19:55	
Toluene-d8	101.1	81-117	%	1.00	03/13/2003 19:55	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 14:56

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas &amp; Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Received: 03/10/2003 17:00

Alameda Fed. Centr. Bldg. 4

Prep(s):	5035	Test(s):	8260B
Sample ID:	SB3+SB4-10'-15'	Lab ID:	2003-03-0178 - 5
Sampled:	03/10/2003	Extracted:	3/13/2003 20:31
Matrix:	Soil	QC Batch#:	2003/03/13-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Acetone	ND	50	ug/Kg	1.00	03/13/2003 20:31	
Benzene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Bromobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Bromochloromethane	ND	20	ug/Kg	1.00	03/13/2003 20:31	
Bromoform	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Bromomethane	ND	10	ug/Kg	1.00	03/13/2003 20:31	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	03/13/2003 20:31	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Carbon disulfide	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Chlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Chloroethane	ND	10	ug/Kg	1.00	03/13/2003 20:31	
2-Chloroethylvinyl ether	ND	50	ug/Kg	1.00	03/13/2003 20:31	
Chloroform	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Chloromethane	ND	10	ug/Kg	1.00	03/13/2003 20:31	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
1,1-Dichloropropene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	03/13/2003 20:31	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	03/13/2003 20:31	
Dibromomethane	ND	10	ug/Kg	1.00	03/13/2003 20:31	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 14:56

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas &amp; Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s):	5035	Test(s):	8260B
Sample ID:	SB3+SB4-10'-15'	Lab ID:	2003-03-0178 - 5
Sampled:	03/10/2003	Extracted:	3/13/2003 20:31
Matrix:	Soil	QC Batch#:	2003/03/13-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	03/13/2003 20:31	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Ethylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
2-Hexanone	ND	50	ug/Kg	1.00	03/13/2003 20:31	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Methylene chloride	ND	10	ug/Kg	1.00	03/13/2003 20:31	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	03/13/2003 20:31	
Naphthalene	ND	10	ug/Kg	1.00	03/13/2003 20:31	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Styrene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Toluene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Trichloroethene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 14:56



**Volatile Organic Compounds by 8260B (Low Level)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s):	5035	Test(s):	8260B
Sample ID:	SB3+SB4-10'-15'	Lab ID:	2003-03-0178 - 5
Sampled:	03/10/2003	Extracted:	3/13/2003 20:31
Matrix:	Soil	QC Batch#:	2003/03/13-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Vinyl acetate	ND	50	ug/Kg	1.00	03/13/2003 20:31	
Vinyl chloride	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
Total xylenes	ND	5.0	ug/Kg	1.00	03/13/2003 20:31	
<b>Surrogates(s)</b>						
4-Bromofluorobenzene	89.8	74-121	%	1.00	03/13/2003 20:31	
1,2-Dichloroethane-d4	99.9	70-121	%	1.00	03/13/2003 20:31	
Toluene-d8	101.4	81-117	%	1.00	03/13/2003 20:31	

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Batch QC Report**

Prep(s): 5035  
Method Blank  
MB: 2003/03/13-01.06-007

Soil

Test(s): 8260B  
QC Batch # 2003/03/13-01.06  
Date Extracted: 03/13/2003 14:56

Compound	Conc.	RL	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	03/13/2003 14:56	
Acetone	ND	50	ug/Kg	03/13/2003 14:56	
Benzene	ND	5.0	ug/Kg	03/13/2003 14:56	
Bromodichloromethane	ND	5.0	ug/Kg	03/13/2003 14:56	
Bromobenzene	ND	5.0	ug/Kg	03/13/2003 14:56	
Bromochloromethane	ND	20	ug/Kg	03/13/2003 14:56	
Bromoform	ND	5.0	ug/Kg	03/13/2003 14:56	
Bromomethane	ND	10	ug/Kg	03/13/2003 14:56	
2-Butanone(MEK)	ND	50	ug/Kg	03/13/2003 14:56	
n-Butylbenzene	ND	5.0	ug/Kg	03/13/2003 14:56	
sec-Butylbenzene	ND	5.0	ug/Kg	03/13/2003 14:56	
tert-Butylbenzene	ND	5.0	ug/Kg	03/13/2003 14:56	
Carbon disulfide	ND	5.0	ug/Kg	03/13/2003 14:56	
Carbon tetrachloride	ND	5.0	ug/Kg	03/13/2003 14:56	
Chlorobenzene	ND	5.0	ug/Kg	03/13/2003 14:56	
Chloroethane	ND	10	ug/Kg	03/13/2003 14:56	
2-Chloroethylvinyl ether	ND	50	ug/Kg	03/13/2003 14:56	
Chloroform	ND	5.0	ug/Kg	03/13/2003 14:56	
Chloromethane	ND	10	ug/Kg	03/13/2003 14:56	
2-Chlorotoluene	ND	5.0	ug/Kg	03/13/2003 14:56	
4-Chlorotoluene	ND	5.0	ug/Kg	03/13/2003 14:56	
Dibromochloromethane	ND	5.0	ug/Kg	03/13/2003 14:56	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	03/13/2003 14:56	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	03/13/2003 14:56	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	03/13/2003 14:56	
1,3-Dichloropropane	ND	5.0	ug/Kg	03/13/2003 14:56	
2,2-Dichloropropane	ND	5.0	ug/Kg	03/13/2003 14:56	
1,1-Dichloropropene	ND	5.0	ug/Kg	03/13/2003 14:56	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	03/13/2003 14:56	
1,2-Dibromoethane	ND	10	ug/Kg	03/13/2003 14:56	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 14:56

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas &amp; Associates, Inc.

Attn.: Mark Jonas

 1350 Arnold Drive Suite 202  
 Martinez, CA 94553  
 Phone: (925) 374-0020 Fax: (925) 374-0021

 Project: GSA-211A  
 Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Batch QC Report**

Prep(s): 5035

Method Blank

MB: 2003/03/13-01.06-007

Soil

Test(s): 8260B

QC Batch # 2003/03/13-01.06

Date Extracted: 03/13/2003 14:56

Compound	Conc.	RL	Unit	Analyzed	Flag
Dibromomethane	ND	10	ug/Kg	03/13/2003 14:56	
Dichlorodifluoromethane	ND	10	ug/Kg	03/13/2003 14:56	
1,1-Dichloroethane	ND	5.0	ug/Kg	03/13/2003 14:56	
1,2-Dichloroethane	ND	5.0	ug/Kg	03/13/2003 14:56	
1,1-Dichloroethene	ND	5.0	ug/Kg	03/13/2003 14:56	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	03/13/2003 14:56	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	03/13/2003 14:56	
1,2-Dichloropropane	ND	5.0	ug/Kg	03/13/2003 14:56	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	03/13/2003 14:56	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	03/13/2003 14:56	
Ethylbenzene	ND	5.0	ug/Kg	03/13/2003 14:56	
Hexachlorobutadiene	ND	5.0	ug/Kg	03/13/2003 14:56	
2-Hexanone	ND	50	ug/Kg	03/13/2003 14:56	
Isopropylbenzene	ND	5.0	ug/Kg	03/13/2003 14:56	
p-Isopropyltoluene	ND	5.0	ug/Kg	03/13/2003 14:56	
Methylene chloride	ND	10.0	ug/Kg	03/13/2003 14:56	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	03/13/2003 14:56	
Naphthalene	ND	10	ug/Kg	03/13/2003 14:56	
n-Propylbenzene	ND	5.0	ug/Kg	03/13/2003 14:56	
Styrene	ND	5.0	ug/Kg	03/13/2003 14:56	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	03/13/2003 14:56	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	03/13/2003 14:56	
Tetrachloroethene	ND	5.0	ug/Kg	03/13/2003 14:56	
Toluene	ND	5.0	ug/Kg	03/13/2003 14:56	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	03/13/2003 14:56	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	03/13/2003 14:56	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	03/13/2003 14:56	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	03/13/2003 14:56	
Trichloroethene	ND	5.0	ug/Kg	03/13/2003 14:56	
Trichlorofluoromethane	ND	5.0	ug/Kg	03/13/2003 14:56	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	03/13/2003 14:56	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 14:56

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Batch QC Report**

Prep(s): 5035

Method Blank

MB: 2003/03/13-01.06-007

Soil

Test(s): 8260B

QC Batch # 2003/03/13-01.06

Date Extracted: 03/13/2003 14:56

Compound	Conc.	RL	Unit	Analyzed	Flag
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	03/13/2003 14:56	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	03/13/2003 14:56	
Vinyl acetate	ND	50	ug/Kg	03/13/2003 14:56	
Vinyl chloride	ND	5.0	ug/Kg	03/13/2003 14:56	
Total xylenes	ND	5.0	ug/Kg	03/13/2003 14:56	
<b>Surrogates(s)</b>					
4-Bromofluorobenzene	86.7	74-121	%	03/13/2003 14:56	
1,2-Dichloroethane-d4	101.6	70-121	%	03/13/2003 14:56	
Toluene-d8	100.3	81-117	%	03/13/2003 14:56	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 14:56

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A  
Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Batch QC Report**

Prep(s): 5035

Test(s): 8260B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2003/03/13-01.06**

LCS 2003/03/13-01.06-005

Extracted: 03/13/2003

Analyzed: 03/13/2003 13:43

LCSD 2003/03/13-01.06-006

Extracted: 03/13/2003

Analyzed: 03/13/2003 14:19

Compound	Conc. ug/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	43.6	44.8	50.0	87.2	89.6	2.7	69-129	20		
Chlorobenzene	41.7	41.2	50.0	83.4	82.4	1.2	61-121	20		
1,1-Dichloroethene	47.0	47.4	50.0	94.0	94.8	0.8	65-125	20		
Toluene	46.1	46.7	50.0	92.2	93.4	1.3	70-130	20		
Trichloroethene	46.1	46.2	50.0	92.2	92.4	0.2	74-134	20		
<b>Surrogates(s)</b>										
4-Bromofluorobenzene	434	434	500	86.8	86.8		74-121			
1,2-Dichloroethane-d4	466	488	500	93.2	97.6		70-121			
Toluene-d8	503	505	500	100.6	101.0		81-117			

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 14:56

**CAM 17 Metals**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SB1+SB2-2.5'-5'	03/10/2003	Soil	1
SB1+SB2-10'-15'	03/10/2003	Soil	2
SB3+SB4-2.5'-5'	03/10/2003	Soil	4
SB3+SB4-10'-15'	03/10/2003	Soil	5

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 11:57

**CAM 17 Metals**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s): 3050B  
7471A  
Test(s): 6010B  
7471A  
Sample ID: SB1+SB2-2.5'-5'  
Lab ID: 2003-03-0178 - 1  
Sampled: 03/10/2003  
Extracted: 3/11/2003 18:02  
3/11/2003 18:00  
Matrix: Soil  
QC Batch#: 2003/03/11-02.16  
2003/03/11-04.15

Analysis Flag: . ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/12/2003 14:02	
Arsenic	2.2	1.0	mg/Kg	1.00	03/12/2003 14:02	
Barium	68	1.0	mg/Kg	1.00	03/12/2003 14:02	
Beryllium	ND	0.50	mg/Kg	1.00	03/12/2003 14:02	
Cadmium	1.4	0.50	mg/Kg	1.00	03/12/2003 14:02	
Chromium	28	1.0	mg/Kg	1.00	03/12/2003 14:02	
Cobalt	8.6	1.0	mg/Kg	1.00	03/12/2003 14:02	
Copper	14	1.0	mg/Kg	1.00	03/12/2003 14:02	
Lead	1.8	1.0	mg/Kg	1.00	03/12/2003 14:02	
Molybdenum	ND	1.0	mg/Kg	1.00	03/12/2003 14:02	
Nickel	31	1.0	mg/Kg	1.00	03/12/2003 14:02	
Selenium	ND	2.0	mg/Kg	1.00	03/12/2003 14:02	
Silver	ND	1.0	mg/Kg	1.00	03/12/2003 14:02	
Thallium	ND	1.0	mg/Kg	1.00	03/12/2003 14:02	
Vanadium	25	1.0	mg/Kg	1.00	03/12/2003 14:02	
Zinc	23	1.0	mg/Kg	1.00	03/12/2003 14:02	
Mercury	ND	0.050	mg/Kg	1.00	03/12/2003 09:16	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 11:57

**CAM 17 Metals**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A  
Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s):	3050B 7471A	Test(s):	6010B 7471A
Sample ID:	SB1+SB2-10'-15'	Lab ID:	2003-03-0178 - 2
Sampled:	03/10/2003	Extracted:	3/11/2003 18:02 3/11/2003 18:00
Matrix:	Soil	QC Batch#:	2003/03/11-02.16 2003/03/11-04.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/12/2003 14:13	
Arsenic	1.4	1.0	mg/Kg	1.00	03/12/2003 14:13	
Barium	27	1.0	mg/Kg	1.00	03/12/2003 14:13	
Beryllium	ND	0.50	mg/Kg	1.00	03/12/2003 14:13	
Cadmium	0.79	0.50	mg/Kg	1.00	03/12/2003 14:13	
Chromium	27	1.0	mg/Kg	1.00	03/12/2003 14:13	
Cobalt	3.8	1.0	mg/Kg	1.00	03/12/2003 14:13	
Copper	4.7	1.0	mg/Kg	1.00	03/12/2003 14:13	
Lead	1.6	1.0	mg/Kg	1.00	03/12/2003 14:13	
Molybdenum	ND	1.0	mg/Kg	1.00	03/12/2003 14:13	
Nickel	23	1.0	mg/Kg	1.00	03/12/2003 14:13	
Selenium	ND	2.0	mg/Kg	1.00	03/12/2003 14:13	
Silver	ND	1.0	mg/Kg	1.00	03/12/2003 14:13	
Thallium	ND	1.0	mg/Kg	1.00	03/12/2003 14:13	
Vanadium	14	1.0	mg/Kg	1.00	03/12/2003 14:13	
Zinc	15	1.0	mg/Kg	1.00	03/12/2003 14:13	
Mercury	ND	0.050	mg/Kg	1.00	03/12/2003 09:20	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 11:57



**CAM 17 Metals**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Received: 03/10/2003 17:00

Alameda Fed. Centr. Bldg. 4

Prep(s):	3050B 7471A	Test(s):	6010B 7471A
Sample ID:	SB3+SB4-2.5'-5'	Lab ID:	2003-03-0178 - 4
Sampled:	03/10/2003	Extracted:	3/11/2003 18:02 3/11/2003 18:00
Matrix:	Soil	QC Batch#:	2003/03/11-02.16 2003/03/11-04.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/12/2003 14:29	
Arsenic	2.9	1.0	mg/Kg	1.00	03/12/2003 14:29	
Barium	28	1.0	mg/Kg	1.00	03/12/2003 14:29	
Beryllium	ND	0.50	mg/Kg	1.00	03/12/2003 14:29	
Cadmium	0.94	0.50	mg/Kg	1.00	03/12/2003 14:29	
Chromium	21	1.0	mg/Kg	1.00	03/12/2003 14:29	
Cobalt	4.3	1.0	mg/Kg	1.00	03/12/2003 14:29	
Copper	7.6	1.0	mg/Kg	1.00	03/12/2003 14:29	
Lead	6.4	1.0	mg/Kg	1.00	03/12/2003 14:29	
Molybdenum	ND	1.0	mg/Kg	1.00	03/12/2003 14:29	
Nickel	20	1.0	mg/Kg	1.00	03/12/2003 14:29	
Selenium	ND	2.0	mg/Kg	1.00	03/12/2003 14:29	
Silver	ND	1.0	mg/Kg	1.00	03/12/2003 14:29	
Thallium	ND	1.0	mg/Kg	1.00	03/12/2003 14:29	
Vanadium	15	1.0	mg/Kg	1.00	03/12/2003 14:29	
Zinc	20	1.0	mg/Kg	1.00	03/12/2003 14:29	
Mercury	ND	0.050	mg/Kg	1.00	03/12/2003 09:21	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 11:57

**CAM 17 Metals**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A  
Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s):	3050B 7471A	Test(s):	6010B 7471A
Sample ID:	SB3+SB4-10-15	Lab ID:	2003-03-0178 - 5
Sampled:	03/10/2003	Extracted:	3/11/2003 18:02 3/11/2003 18:00
Matrix:	Soil	QC Batch#:	2003/03/11-02.16 2003/03/11-04.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/12/2003 14:33	
Arsenic	1.7	1.0	mg/Kg	1.00	03/12/2003 14:33	
Barium	22	1.0	mg/Kg	1.00	03/12/2003 14:33	
Beryllium	ND	0.50	mg/Kg	1.00	03/12/2003 14:33	
Cadmium	0.61	0.50	mg/Kg	1.00	03/12/2003 14:33	
Chromium	20	1.0	mg/Kg	1.00	03/12/2003 14:33	
Cobalt	3.2	1.0	mg/Kg	1.00	03/12/2003 14:33	
Copper	3.6	1.0	mg/Kg	1.00	03/12/2003 14:33	
Lead	1.4	1.0	mg/Kg	1.00	03/12/2003 14:33	
Molybdenum	ND	1.0	mg/Kg	1.00	03/12/2003 14:33	
Nickel	18	1.0	mg/Kg	1.00	03/12/2003 14:33	
Selenium	ND	2.0	mg/Kg	1.00	03/12/2003 14:33	
Silver	ND	1.0	mg/Kg	1.00	03/12/2003 14:33	
Thallium	ND	1.0	mg/Kg	1.00	03/12/2003 14:33	
Vanadium	12	1.0	mg/Kg	1.00	03/12/2003 14:33	
Zinc	12	1.0	mg/Kg	1.00	03/12/2003 14:33	
Mercury	ND	0.050	mg/Kg	1.00	03/12/2003 09:22	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 11:57

**CAM 17 Metals**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Batch QC Report**

Prep(s): 7471A

Method Blank

MB: 2003/03/11-02.16-020

Soil

Test(s): 7471A

QC Batch # 2003/03/11-02.16

Date Extracted: 03/11/2003 18:02

Compound	Conc.	RL	Unit	Analyzed	Flag
Mercury	ND	0.050	mg/Kg	03/12/2003 09:11	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 11:57

**CAM 17 Metals**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Batch QC Report**

Prep(s): 3050B

Method Blank

MB: 2003/03/11-04.15-097

Soil

Test(s): 6010B

QC Batch # 2003/03/11-04.15

Date Extracted: 03/11/2003 18:00

Compound	Conc.	RL	Unit	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	03/12/2003 13:46	
Arsenic	ND	1.0	mg/Kg	03/12/2003 13:46	
Barium	ND	1.0	mg/Kg	03/12/2003 13:46	
Beryllium	ND	0.50	mg/Kg	03/12/2003 13:46	
Cadmium	ND	0.50	mg/Kg	03/12/2003 13:46	
Chromium	ND	1.0	mg/Kg	03/12/2003 13:46	
Cobalt	ND	1.0	mg/Kg	03/12/2003 13:46	
Copper	ND	1.0	mg/Kg	03/12/2003 13:46	
Lead	ND	1.0	mg/Kg	03/12/2003 13:46	
Molybdenum	ND	1.0	mg/Kg	03/12/2003 13:46	
Nickel	ND	1.0	mg/Kg	03/12/2003 13:46	
Selenium	ND	2.0	mg/Kg	03/12/2003 13:46	
Silver	ND	1.0	mg/Kg	03/12/2003 13:46	
Thallium	ND	1.0	mg/Kg	03/12/2003 13:46	
Vanadium	ND	1.0	mg/Kg	03/12/2003 13:46	
Zinc	ND	1.0	mg/Kg	03/12/2003 13:46	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 11:57

**CAM 17 Metals**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Batch QC Report**

Prep(s): 7471A

Test(s): 7471A

**Laboratory Control Spike**

**Soil**

**QC Batch # 2003/03/11-02.16**

LCS 2003/03/11-02.16-021

Extracted: 03/11/2003

Analyzed: 03/12/2003 09:12

LCSD 2003/03/11-02.16-022

Extracted: 03/11/2003

Analyzed: 03/12/2003 09:14

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Mercury	0.493	0.499	0.500	98.6	99.8	1.2	85-115	20		

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 11:57

**CAM 17 Metals**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021

Received: 03/10/2003 17:00

Project: GSA-211A  
Alameda Fed. Centr. Bldg. 4

**Batch QC Report**

Prep(s): 3050B

Test(s): 6010B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2003/03/11-04.15**

LCS 2003/03/11-04.15-098

Extracted: 03/11/2003

Analyzed: 03/12/2003 13:50

LCSD 2003/03/11-04.15-099

Extracted: 03/11/2003

Analyzed: 03/12/2003 13:54

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Antimony	93.3	92.7	100.0	93.3	92.7	0.6	80-120	20		
Arsenic	106	105	100.0	106.0	105.0	0.9	80-120	20		
Barium	98.7	98.5	100.0	98.7	98.5	0.2	80-120	20		
Beryllium	103	103	100.0	103.0	103.0	0.0	80-120	20		
Cadmium	97.0	96.9	100.0	97.0	96.9	0.1	80-120	20		
Chromium	103	102	100.0	103.0	102.0	1.0	80-120	20		
Cobalt	101	100	100.0	101.0	100.0	1.0	80-120	20		
Copper	98.5	98.2	100.0	98.5	98.2	0.3	80-120	20		
Lead	98.2	97.4	100.0	98.2	97.4	0.8	80-120	20		
Molybdenum	104	103	100.0	104.0	103.0	1.0	80-120	20		
Nickel	98.1	97.9	100.0	98.1	97.9	0.2	80-120	20		
Selenium	93.9	93.1	100.0	93.9	93.1	0.9	80-120	20		
Silver	98.8	98.7	100.0	98.8	98.7	0.1	80-120	20		
Thallium	94.8	94.4	100.0	94.8	94.4	0.4	80-120	20		
Vanadium	101	100	100.0	101.0	100.0	1.0	80-120	20		
Zinc	96.5	96.6	100.0	96.5	96.6	0.1	80-120	20		

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 11:57

**CAM 17 Metals**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A  
Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Batch QC Report**

Prep(s): 7471A

Test(s): 7471A

**Matrix Spike ( MS / MSD )**

**Soil**

**QC Batch # 2003/03/11-02.16**

SB1-2.5' / 5' & SB2-2.5' / 5' >> MS

Lab ID: 2003-03-0178 - 001

MS: 2003/03/11-02.16-025

Extracted: 03/11/2003

Analyzed: 03/12/2003 09:17

Dilution: 1.00

MSD: 2003/03/11-02.16-026

Extracted: 03/11/2003

Analyzed: 03/12/2003 09:18

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level	Recovery			Limits %		Flags	
	MS	MSD	Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Mercury	0.365	0.491	ND	0.476	76.7	102.1	28.4	85-115	20	mso	rpd

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 11:57

**CAM 17 Metals**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A  
Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Batch QC Report**

Prep(s): 3050B

Test(s): 6010B

**Matrix Spike ( MS / MSD )**

**Soil**

**QC Batch # 2003/03/11-04.15**

SB1-2.5' / 5' & SB2-2.5' / 5' >> MS

Lab ID: 2003-03-0178 - 001

MS: 2003/03/11-04.15-102

Extracted: 03/11/2003

Analyzed: 03/12/2003 14:06

Dilution: 1.00

MSD: 2003/03/11-04.15-103

Extracted: 03/11/2003

Analyzed: 03/12/2003 14:09

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Antimony	27.0	26.1	ND	95.2	28.4	27.1	4.7	75-125	20	mso	mso
Arsenic	79.7	83.1	2.21	95.2	81.4	84.1	3.3	75-125	20		
Barium	107	105	68.3	95.2	40.7	38.1	6.6	75-125	20	mso	mso
Beryllium	76.0	77.0	ND	95.2	79.8	80.0	0.3	75-125	20		
Cadmium	71.1	72.8	1.44	95.2	73.2	74.2	1.4	75-125	20	mso	mso
Chromium	102	100	28.1	95.2	77.6	74.7	3.8	75-125	20		mso
Cobalt	81.8	81.9	8.60	95.2	76.9	76.2	0.9	75-125	20		
Copper	90.4	90.8	14.0	95.2	80.3	79.8	0.6	75-125	20		
Lead	72.2	75.0	1.76	95.2	74.0	76.1	2.8	75-125	20	mso	
Molybdenum	73.6	75.6	ND	95.2	77.3	78.6	1.7	75-125	20		
Nickel	100	99.0	31.0	95.2	72.5	70.7	2.5	75-125	20	mso	mso
Selenium	67.6	70.2	ND	95.2	71.0	73.0	2.8	75-125	20	mso	mso
Silver	74.7	76.4	ND	95.2	78.5	79.4	1.1	75-125	20		
Thallium	65.5	68.6	ND	95.2	68.8	71.3	3.6	75-125	20	mso	mso
Vanadium	103	98.6	25.4	95.2	81.5	76.1	6.9	75-125	20		
Zinc	92.9	91.8	23.1	95.2	73.3	71.4	2.6	75-125	20	mso	mso



**CAM 17 Metals**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

---

**Legend and Notes**

---

**Analysis Flag**

**Result Flag**

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference.  
Precision and Accuracy were verified by LCS/LCSD.

rpd

Analyte RPD was out of QC limits due to sample heterogeneity.

**Dissolved CAM 17 Metals**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab.#
SB1-GW	03/10/2003 09:00	Water	3

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/19/2003 11:24

**Dissolved CAM 17 Metals**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A  
Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s):	3005A 7470A	Test(s):	6010B 7470A
Sample ID:	<b>SB1-GW</b>	Lab ID:	2003-03-0178 - 3
Sampled:	03/10/2003 09:00	Extracted:	3/18/2003 06:09 3/18/2003 05:16
Matrix:	Water	QC Batch#:	2003/03/18-01.16 2003/03/18-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	0.0050	mg/L	1.00	03/18/2003 08:47	
Arsenic	0.011	0.0050	mg/L	1.00	03/18/2003 08:47	
Barium	0.14	0.0050	mg/L	1.00	03/18/2003 08:47	
Beryllium	ND	0.0050	mg/L	1.00	03/18/2003 08:47	
Cadmium	ND	0.0020	mg/L	1.00	03/18/2003 08:47	
Chromium	ND	0.0050	mg/L	1.00	03/18/2003 08:47	
Cobalt	ND	0.0050	mg/L	1.00	03/18/2003 08:47	
Copper	0.045	0.0050	mg/L	1.00	03/18/2003 08:47	
Lead	ND	0.0050	mg/L	1.00	03/18/2003 08:47	
Molybdenum	0.014	0.0050	mg/L	1.00	03/18/2003 08:47	
Nickel	0.0052	0.0050	mg/L	1.00	03/18/2003 08:47	
Selenium	ND	0.0050	mg/L	1.00	03/18/2003 08:47	
Silver	ND	0.0050	mg/L	1.00	03/18/2003 08:47	
Thallium	0.0057	0.0050	mg/L	1.00	03/18/2003 08:47	
Vanadium	ND	0.0050	mg/L	1.00	03/18/2003 08:47	
Zinc	0.058	0.010	mg/L	1.00	03/18/2003 08:47	
Mercury	ND	0.00020	mg/L	1.00	03/18/2003 09:56	

**Dissolved CAM 17 Metals**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Batch QC Report**

Prep(s): 7470A

Method Blank

MB: 2003/03/18-01.16-011

Water

Test(s): 7470A

QC Batch # 2003/03/18-01.16

Date Extracted: 03/18/2003 06:09

Compound	Conc.	RL	Unit	Analyzed	Flag
Mercury	ND	0.0002	mg/L	03/18/2003 09:53	

**Dissolved CAM 17 Metals**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Received: 03/10/2003 17:00

Alameda Fed. Centr. Bldg. 4

**Batch QC Report**

Prep(s): 3005A

Test(s): 6010B

Method Blank

Water

QC Batch # 2003/03/18-02.15

MB: 2003/03/18-02.15-040

Date Extracted: 03/18/2003 05:16

Compound	Conc.	RL	Unit	Analyzed	Flag
Antimony	ND	0.0050	mg/L	03/18/2003 08:35	
Arsenic	ND	0.0050	mg/L	03/18/2003 08:35	
Barium	ND	0.0050	mg/L	03/18/2003 08:35	
Beryllium	ND	0.0050	mg/L	03/18/2003 08:35	
Cadmium	ND	0.0020	mg/L	03/18/2003 08:35	
Chromium	ND	0.0050	mg/L	03/18/2003 08:35	
Cobalt	ND	0.0050	mg/L	03/18/2003 08:35	
Copper	ND	0.0050	mg/L	03/18/2003 08:35	
Lead	ND	0.0050	mg/L	03/18/2003 08:35	
Molybdenum	ND	0.0050	mg/L	03/18/2003 08:35	
Nickel	ND	0.0050	mg/L	03/18/2003 08:35	
Selenium	ND	0.0050	mg/L	03/18/2003 08:35	
Silver	ND	0.0050	mg/L	03/18/2003 08:35	
Thallium	ND	0.0050	mg/L	03/18/2003 08:35	
Vanadium	ND	0.0050	mg/L	03/18/2003 08:35	
Zinc	ND	0.010	mg/L	03/18/2003 08:35	

Severn Trent Laboratories, Inc.

03/19/2003 11:24

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

**Dissolved CAM 17 Metals**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Batch QC Report**

Prep(s): 7470A

Test(s): 7470A

**Laboratory Control Spike**

**Water**

**QC Batch # 2003/03/18-01.16**

LCS 2003/03/18-01.16-012

Extracted: 03/18/2003

Analyzed: 03/18/2003 09:54

LCSD 2003/03/18-01.16-013

Extracted: 03/18/2003

Analyzed: 03/18/2003 09:55

Compound	Conc. mg/L		Exp. Conc.	Recovery		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Mercury	0.0200	0.0202	0.0200	100.0	101.0	1.0	85-115	20		

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/19/2003 11:24

**Dissolved CAM 17 Metals**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Received: 03/10/2003 17:00

Alameda Fed. Centr. Bldg. 4

**Batch QC Report**

Prep(s): 3005A

Test(s): 6010B

**Laboratory Control Spike**

**Water**

**QC Batch # 2003/03/18-02.15**

LCS 2003/03/18-02.15-041

Extracted: 03/18/2003

Analyzed: 03/18/2003 08:39

LCSD 2003/03/18-02.15-042

Extracted: 03/18/2003

Analyzed: 03/18/2003 08:43

Compound	Conc. mg/L		Exp. Conc.	Recovery		RPD %	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Antimony	0.543	0.528	0.500	108.6	105.6	2.8	80-120	20		
Arsenic	0.485	0.471	0.500	97.0	94.2	2.9	80-120	20		
Barium	0.520	0.512	0.500	104.0	102.4	1.6	80-120	20		
Beryllium	0.508	0.505	0.500	101.6	101.0	0.6	80-120	20		
Cadmium	0.524	0.515	0.500	104.8	103.0	1.7	80-120	20		
Chromium	0.503	0.494	0.500	100.6	98.8	1.8	80-120	20		
Cobalt	0.520	0.511	0.500	104.0	102.2	1.7	80-120	20		
Copper	0.528	0.518	0.500	105.6	103.6	1.9	80-120	20		
Lead	0.536	0.522	0.500	107.2	104.4	2.6	80-120	20		
Molybdenum	0.508	0.498	0.500	101.6	99.6	2.0	80-120	20		
Nickel	0.521	0.513	0.500	104.2	102.6	1.5	80-120	20		
Selenium	0.536	0.516	0.500	107.2	103.2	3.8	80-120	20		
Silver	0.516	0.506	0.500	103.2	101.2	2.0	80-120	20		
Thallium	0.526	0.512	0.500	105.2	102.4	2.7	80-120	20		
Vanadium	0.526	0.517	0.500	105.2	103.4	1.7	80-120	20		
Zinc	0.537	0.529	0.500	107.4	105.8	1.5	80-120	20		

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/19/2003 11:24

Page 6 of 6

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas &amp; Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SB1-GW	03/10/2003 09:00	Water	3
SB3-GW	03/10/2003 09:00	Water	6

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 16:07



**Volatile Organic Compounds by 8260B (Low Level)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A  
Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s): 5030B Test(s): 8260B  
Sample ID: **SB1-GW** Lab ID: 2003-03-0178 - 3  
Sampled: 03/10/2003 09:00 Extracted: 3/17/2003 15:03  
Matrix: Water QC Batch#: 2003/03/17-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	03/17/2003 15:03	
Acetone	ND	50	ug/L	1.00	03/17/2003 15:03	
Benzene	ND	0.50	ug/L	1.00	03/17/2003 15:03	
Bromodichloromethane	ND	0.50	ug/L	1.00	03/17/2003 15:03	
Bromobenzene	ND	1.0	ug/L	1.00	03/17/2003 15:03	
Bromochloromethane	ND	1.0	ug/L	1.00	03/17/2003 15:03	
Bromoform	ND	0.50	ug/L	1.00	03/17/2003 15:03	
Bromomethane	ND	1.0	ug/L	1.00	03/17/2003 15:03	
2-Butanone(MEK)	ND	50	ug/L	1.00	03/17/2003 15:03	
n-Butylbenzene	ND	1.0	ug/L	1.00	03/17/2003 15:03	
sec-Butylbenzene	ND	1.0	ug/L	1.00	03/17/2003 15:03	
tert-Butylbenzene	ND	1.0	ug/L	1.00	03/17/2003 15:03	
Carbon disulfide	ND	5.0	ug/L	1.00	03/17/2003 15:03	
Carbon tetrachloride	ND	0.50	ug/L	1.00	03/17/2003 15:03	
Chlorobenzene	ND	0.50	ug/L	1.00	03/17/2003 15:03	
Chloroethane	ND	1.0	ug/L	1.00	03/17/2003 15:03	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	03/17/2003 15:03	
Chloroform	ND	1.0	ug/L	1.00	03/17/2003 15:03	
Chloromethane	ND	1.0	ug/L	1.00	03/17/2003 15:03	
2-Chlorotoluene	ND	0.50	ug/L	1.00	03/17/2003 15:03	
4-Chlorotoluene	ND	0.50	ug/L	1.00	03/17/2003 15:03	
Dibromochloromethane	ND	0.50	ug/L	1.00	03/17/2003 15:03	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	03/17/2003 15:03	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	03/17/2003 15:03	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	03/17/2003 15:03	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	03/17/2003 15:03	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	03/17/2003 15:03	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	03/17/2003 15:03	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	03/17/2003 15:03	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	03/17/2003 15:03	
Dibromomethane	ND	0.50	ug/L	1.00	03/17/2003 15:03	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 16:07

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s): 5030B	Test(s): 8260B
Sample ID: SB1-GW	Lab ID: 2003-03-0178 - 3
Sampled: 03/10/2003 09:00	Extracted: 3/17/2003 15:03
Matrix: Water	QC Batch#: 2003/03/17-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	03/17/2003 15:03	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	03/17/2003 15:03	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	03/17/2003 15:03	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	03/17/2003 15:03	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/17/2003 15:03	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/17/2003 15:03	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	03/17/2003 15:03	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/17/2003 15:03	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/17/2003 15:03	
Ethylbenzene	ND	0.50	ug/L	1.00	03/17/2003 15:03	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	03/17/2003 15:03	
2-Hexanone	ND	50	ug/L	1.00	03/17/2003 15:03	
Isopropylbenzene	ND	0.50	ug/L	1.00	03/17/2003 15:03	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	03/17/2003 15:03	
Methylene chloride	ND	5.0	ug/L	1.00	03/17/2003 15:03	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	03/17/2003 15:03	
Naphthalene	ND	1.0	ug/L	1.00	03/17/2003 15:03	
n-Propylbenzene	ND	1.0	ug/L	1.00	03/17/2003 15:03	
Styrene	ND	0.50	ug/L	1.00	03/17/2003 15:03	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/17/2003 15:03	
1,1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/17/2003 15:03	
Tetrachloroethene	ND	0.50	ug/L	1.00	03/17/2003 15:03	
Toluene	ND	0.50	ug/L	1.00	03/17/2003 15:03	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	03/17/2003 15:03	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	03/17/2003 15:03	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	03/17/2003 15:03	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	03/17/2003 15:03	
Trichloroethene	ND	0.50	ug/L	1.00	03/17/2003 15:03	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	03/17/2003 15:03	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	03/17/2003 15:03	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	03/17/2003 15:03	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 16:07

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A  
Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>SB1-GW</b>	Lab ID:	2003-03-0178 - 3
Sampled:	03/10/2003 09:00	Extracted:	3/17/2003 15:03
Matrix:	Water	QC Batch#:	2003/03/17-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	03/17/2003 15:03	
Vinyl acetate	ND	25	ug/L	1.00	03/17/2003 15:03	
Vinyl chloride	ND	0.50	ug/L	1.00	03/17/2003 15:03	
Total xylenes	ND	1.0	ug/L	1.00	03/17/2003 15:03	
<b>Surrogates(s)</b>						
4-Bromofluorobenzene	88.3	86-115	%	1.00	03/17/2003 15:03	
1,2-Dichloroethane-d4	98.6	76-114	%	1.00	03/17/2003 15:03	
Toluene-d8	96.3	88-110	%	1.00	03/17/2003 15:03	

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB3-GW	Lab ID:	2003-03-0178 - 6
Sampled:	03/10/2003 09:00	Extracted:	3/17/2003 15:29
Matrix:	Water	QC Batch#:	2003/03/17-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	03/17/2003 15:29	
Acetone	ND	50	ug/L	1.00	03/17/2003 15:29	
Benzene	ND	0.50	ug/L	1.00	03/17/2003 15:29	
Bromodichloromethane	ND	0.50	ug/L	1.00	03/17/2003 15:29	
Bromobenzene	ND	1.0	ug/L	1.00	03/17/2003 15:29	
Bromochloromethane	ND	1.0	ug/L	1.00	03/17/2003 15:29	
Bromoform	ND	0.50	ug/L	1.00	03/17/2003 15:29	
Bromomethane	ND	1.0	ug/L	1.00	03/17/2003 15:29	
2-Butanone(MEK)	ND	50	ug/L	1.00	03/17/2003 15:29	
n-Butylbenzene	ND	1.0	ug/L	1.00	03/17/2003 15:29	
sec-Butylbenzene	ND	1.0	ug/L	1.00	03/17/2003 15:29	
tert-Butylbenzene	ND	1.0	ug/L	1.00	03/17/2003 15:29	
Carbon disulfide	ND	5.0	ug/L	1.00	03/17/2003 15:29	
Carbon tetrachloride	ND	0.50	ug/L	1.00	03/17/2003 15:29	
Chlorobenzene	ND	0.50	ug/L	1.00	03/17/2003 15:29	
Chloroethane	ND	1.0	ug/L	1.00	03/17/2003 15:29	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	03/17/2003 15:29	
Chloroform	ND	1.0	ug/L	1.00	03/17/2003 15:29	
Chloromethane	ND	1.0	ug/L	1.00	03/17/2003 15:29	
2-Chlorotoluene	ND	0.50	ug/L	1.00	03/17/2003 15:29	
4-Chlorotoluene	ND	0.50	ug/L	1.00	03/17/2003 15:29	
Dibromochloromethane	ND	0.50	ug/L	1.00	03/17/2003 15:29	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	03/17/2003 15:29	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	03/17/2003 15:29	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	03/17/2003 15:29	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	03/17/2003 15:29	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	03/17/2003 15:29	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	03/17/2003 15:29	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	03/17/2003 15:29	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	03/17/2003 15:29	
Dibromomethane	ND	0.50	ug/L	1.00	03/17/2003 15:29	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 16:07

## Volatile Organic Compounds by 8260B (Low Level)

Jonas &amp; Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB3-GW	Lab ID:	2003-03-0178 - 6
Sampled:	03/10/2003 09:00	Extracted:	3/17/2003 15:29
Matrix:	Water	QC Batch#:	2003/03/17-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	03/17/2003 15:29	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	03/17/2003 15:29	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	03/17/2003 15:29	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	03/17/2003 15:29	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/17/2003 15:29	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/17/2003 15:29	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	03/17/2003 15:29	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/17/2003 15:29	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/17/2003 15:29	
Ethylbenzene	ND	0.50	ug/L	1.00	03/17/2003 15:29	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	03/17/2003 15:29	
2-Hexanone	ND	50	ug/L	1.00	03/17/2003 15:29	
Isopropylbenzene	ND	0.50	ug/L	1.00	03/17/2003 15:29	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	03/17/2003 15:29	
Methylene chloride	ND	5.0	ug/L	1.00	03/17/2003 15:29	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	03/17/2003 15:29	
Naphthalene	ND	1.0	ug/L	1.00	03/17/2003 15:29	
n-Propylbenzene	ND	1.0	ug/L	1.00	03/17/2003 15:29	
Styrene	ND	0.50	ug/L	1.00	03/17/2003 15:29	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/17/2003 15:29	
1,1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/17/2003 15:29	
Tetrachloroethene	ND	0.50	ug/L	1.00	03/17/2003 15:29	
Toluene	ND	0.50	ug/L	1.00	03/17/2003 15:29	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	03/17/2003 15:29	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	03/17/2003 15:29	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	03/17/2003 15:29	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	03/17/2003 15:29	
Trichloroethene	ND	0.50	ug/L	1.00	03/17/2003 15:29	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	03/17/2003 15:29	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	03/17/2003 15:29	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	03/17/2003 15:29	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 16:07

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A  
Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB3-GW	Lab ID:	2003-03-0178 - 6
Sampled:	03/10/2003 09:00	Extracted:	3/17/2003 15:29
Matrix:	Water	QC Batch#:	2003/03/17-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	03/17/2003 15:29	
Vinyl acetate	ND	25	ug/L	1.00	03/17/2003 15:29	
Vinyl chloride	ND	0.50	ug/L	1.00	03/17/2003 15:29	
Total xylenes	ND	1.0	ug/L	1.00	03/17/2003 15:29	
<b>Surrogates(s)</b>						
4-Bromofluorobenzene	86.8	86-115	%	1.00	03/17/2003 15:29	
1,2-Dichloroethane-d4	97.7	76-114	%	1.00	03/17/2003 15:29	
Toluene-d8	94.8	88-110	%	1.00	03/17/2003 15:29	

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas &amp; Associates, Inc.

Attn.: Mark Jonas

 1350 Arnold Drive Suite 202  
 Martinez, CA 94553  
 Phone: (925) 374-0020 Fax: (925) 374-0021

 Project: GSA-211A  
 Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**
**Water**
**QC Batch # 2003/03/17-01.09**

MB: 2003/03/17-01.09-006

Date Extracted: 03/17/2003 12:13

Compound	Conc.	RL	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	03/17/2003 12:13	
Acetone	ND	50	ug/L	03/17/2003 12:13	
Benzene	ND	0.5	ug/L	03/17/2003 12:13	
Bromodichloromethane	ND	0.5	ug/L	03/17/2003 12:13	
Bromobenzene	ND	1.0	ug/L	03/17/2003 12:13	
Bromochloromethane	ND	1.0	ug/L	03/17/2003 12:13	
Bromoform	ND	0.5	ug/L	03/17/2003 12:13	
Bromomethane	ND	1.0	ug/L	03/17/2003 12:13	
2-Butanone(MEK)	ND	50	ug/L	03/17/2003 12:13	
n-Butylbenzene	ND	1.0	ug/L	03/17/2003 12:13	
sec-Butylbenzene	ND	1.0	ug/L	03/17/2003 12:13	
tert-Butylbenzene	ND	1.0	ug/L	03/17/2003 12:13	
Carbon disulfide	ND	5.0	ug/L	03/17/2003 12:13	
Carbon tetrachloride	ND	0.5	ug/L	03/17/2003 12:13	
Chlorobenzene	ND	0.5	ug/L	03/17/2003 12:13	
Chloroethane	ND	1.0	ug/L	03/17/2003 12:13	
2-Chloroethylvinyl ether	ND	5.0	ug/L	03/17/2003 12:13	
Chloroform	ND	1.0	ug/L	03/17/2003 12:13	
Chloromethane	ND	1.0	ug/L	03/17/2003 12:13	
2-Chlorotoluene	ND	0.5	ug/L	03/17/2003 12:13	
4-Chlorotoluene	ND	0.5	ug/L	03/17/2003 12:13	
Dibromochloromethane	ND	0.5	ug/L	03/17/2003 12:13	
1,2-Dichlorobenzene	ND	0.5	ug/L	03/17/2003 12:13	
1,3-Dichlorobenzene	ND	0.5	ug/L	03/17/2003 12:13	
1,4-Dichlorobenzene	ND	0.5	ug/L	03/17/2003 12:13	
1,3-Dichloropropane	ND	1.0	ug/L	03/17/2003 12:13	
2,2-Dichloropropane	ND	0.5	ug/L	03/17/2003 12:13	
1,1-Dichloropropene	ND	0.5	ug/L	03/17/2003 12:13	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	03/17/2003 12:13	
1,2-Dibromoethane	ND	0.5	ug/L	03/17/2003 12:13	

Severn Trent Laboratories, Inc.

03/17/2003 16:07

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A  
Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Batch QC Report**

Prep(s): 5030B  
Method Blank  
MB: 2003/03/17-01.09-006

Water

Test(s): 8260B  
QC Batch # 2003/03/17-01.09  
Date Extracted: 03/17/2003 12:13

Compound	Conc.	RL	Unit	Analyzed	Flag
Dibromomethane	ND	0.5	ug/L	03/17/2003 12:13	
Dichlorodifluoromethane	ND	0.5	ug/L	03/17/2003 12:13	
1,1-Dichloroethane	ND	0.5	ug/L	03/17/2003 12:13	
1,2-Dichloroethane	ND	0.5	ug/L	03/17/2003 12:13	
1,1-Dichloroethene	ND	0.5	ug/L	03/17/2003 12:13	
cis-1,2-Dichloroethene	ND	0.5	ug/L	03/17/2003 12:13	
trans-1,2-Dichloroethene	ND	0.5	ug/L	03/17/2003 12:13	
1,2-Dichloropropane	ND	0.5	ug/L	03/17/2003 12:13	
cis-1,3-Dichloropropene	ND	0.5	ug/L	03/17/2003 12:13	
trans-1,3-Dichloropropene	ND	0.5	ug/L	03/17/2003 12:13	
Ethylbenzene	ND	0.5	ug/L	03/17/2003 12:13	
Hexachlorobutadiene	ND	1.0	ug/L	03/17/2003 12:13	
2-Hexanone	ND	50	ug/L	03/17/2003 12:13	
Isopropylbenzene	ND	0.5	ug/L	03/17/2003 12:13	
p-Isopropyltoluene	ND	1.0	ug/L	03/17/2003 12:13	
Methylene chloride	ND	5.0	ug/L	03/17/2003 12:13	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	03/17/2003 12:13	
Naphthalene	ND	1.0	ug/L	03/17/2003 12:13	
n-Propylbenzene	ND	1.0	ug/L	03/17/2003 12:13	
Styrene	ND	0.5	ug/L	03/17/2003 12:13	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	03/17/2003 12:13	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	03/17/2003 12:13	
Tetrachloroethene	ND	0.5	ug/L	03/17/2003 12:13	
Toluene	ND	0.5	ug/L	03/17/2003 12:13	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	03/17/2003 12:13	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	03/17/2003 12:13	
1,1,1-Trichloroethane	ND	0.5	ug/L	03/17/2003 12:13	
1,1,2-Trichloroethane	ND	0.5	ug/L	03/17/2003 12:13	
Trichloroethene	ND	0.5	ug/L	03/17/2003 12:13	
Trichlorofluoromethane	ND	1.0	ug/L	03/17/2003 12:13	
Trichlorotrifluoroethane	ND	0.5	ug/L	03/17/2003 12:13	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 16:07



**Volatile Organic Compounds by 8260B (Low Level)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A  
Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2003/03/17-01.09-006

Water

Test(s): 8260B

QC Batch # 2003/03/17-01.09

Date Extracted: 03/17/2003 12:13

Compound	Conc.	RL	Unit	Analyzed	Flag
1,2,4-Trimethylbenzene	ND	0.5	ug/L	03/17/2003 12:13	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	03/17/2003 12:13	
Vinyl acetate	ND	25	ug/L	03/17/2003 12:13	
Vinyl chloride	ND	0.5	ug/L	03/17/2003 12:13	
Total xylenes	ND	1.0	ug/L	03/17/2003 12:13	
<b>Surrogates(s)</b>					
4-Bromofluorobenzene	93.4	86-115	%	03/17/2003 12:13	
1,2-Dichloroethane-d4	93.3	76-114	%	03/17/2003 12:13	
Toluene-d8	95.5	88-110	%	03/17/2003 12:13	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 16:07

**Volatile Organic Compounds by 8260B (Low Level)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A  
Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2003/03/17-01.09**

LCS 2003/03/17-01.09-004

Extracted: 03/17/2003

Analyzed: 03/17/2003 11:12

LCSD 2003/03/17-01.09-007

Extracted: 03/17/2003

Analyzed: 03/17/2003 12:39

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	17.6	20.2	20.0	88.0	101.0	13.8	69-129	20		
Chlorobenzene	18.9	19.6	20.0	94.5	98.0	3.6	61-121	20		
1,1-Dichloroethene	14.9	15.7	20.0	74.5	78.5	5.2	65-125	20		
Toluene	18.7	19.9	20.0	93.5	99.5	6.2	70-130	20		
Trichloroethene	16.4	18.2	20.0	82.0	91.0	10.4	74-134	20		
<b>Surrogates(s)</b>										
4-Bromofluorobenzene	470	471	500	94.0	94.2		86-115			
1,2-Dichloroethane-d4	459	422	500	91.8	84.4		76-114			
Toluene-d8	485	466	500	97.0	93.2		88-110			

Sewern Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 16:07

Page 11 of 11

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Received: 03/10/2003 17:00

Alameda Fed. Centr. Bldg. 4

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SB1+SB2-2.5'-5'	03/10/2003	Soil	1
SB1+SB2-10'-15'	03/10/2003	Soil	2
SB1-GW	03/10/2003 09:00	Water	3
SB3+SB4-2.5'-5'	03/10/2003	Soil	4
SB3+SB4-10'-15'	03/10/2003	Soil	5
SB3-GW	03/10/2003 09:00	Water	6

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 14:10

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021

Received: 03/10/2003 17:00

Project: GSA-211A  
Alameda Fed. Centr. Bldg. 4

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	SB1+SB2-2.5'-5'	Lab ID:	2003-03-0178 - 1
Sampled:	03/10/2003	Extracted:	3/11/2003 13:09
Matrix:	Soil	QC Batch#:	2003/03/11-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Hydraulic Oil	ND	50	mg/Kg	1.00	03/11/2003 17:33	
<b>Surrogates(s)</b>						
o-Terphenyl	85.6	60-130	%	1.00	03/11/2003 17:33	

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	SB1+SB2-10`-15`	Lab ID:	2003-03-0178 - 2
Sampled:	03/10/2003	Extracted:	3/11/2003 13:09
Matrix:	Soil	QC Batch#:	2003/03/11-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Hydraulic Oil	ND	50	mg/Kg	1.00	03/11/2003 18:47	
<b>Surrogates(s)</b>						
o-Terphenyl	86.3	60-130	%	1.00	03/11/2003 18:47	

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A  
Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s): 3510/8015M                      Test(s): 8015M  
Sample ID: **SB1-GW**                      Lab ID: 2003-03-0178 - 3  
Sampled: 03/10/2003 09:00              Extracted: 3/12/2003 06:02  
Matrix: Water                              QC Batch#: 2003/03/12-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Hydraulic Oil	ND	500	ug/L	1.00	03/12/2003 18:59	
<b>Surrogates(s)</b>						
o-Terphenyl	109.7	60-130	%	1.00	03/12/2003 18:59	

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	SB3+SB4-2.5'-5'	Lab ID:	2003-03-0178 - 4
Sampled:	03/10/2003	Extracted:	3/11/2003 13:09
Matrix:	Soil	QC Batch#:	2003/03/11-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Hydraulic Oil	53	50	mg/Kg	1.00	03/11/2003 19:24	
<b>Surrogates(s)</b>						
o-Terphenyl	87.9	60-130	%	1.00	03/11/2003 19:24	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 14:10

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A  
Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s): 3550/8015M Test(s): 8015M  
Sample ID: **SB3+SB4-10-15** Lab ID: 2003-03-0178 - 5  
Sampled: 03/10/2003 Extracted: 3/11/2003 13:09  
Matrix: Soil QC Batch#: 2003/03/11-02:10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Hydraulic Oil	ND	50	mg/Kg	1.00	03/11/2003 18:10	
<b>Surrogates(s)</b>						
o-Terphenyl	83.8	60-130	%	1.00	03/11/2003 18:10	



**Total Extractable Petroleum Hydrocarbons (TEPH)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

Prep(s): 3510/8015M                      Test(s): 8015M  
 Sample ID: **SB3-GW**                      Lab ID: 2003-03-0178 - 6  
 Sampled: 03/10/2003 09:00              Extracted: 3/12/2003 06:02  
 Matrix: Water                              QC Batch#: 2003/03/12-01.10  
 Analysis Flag: rl ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Hydraulic Oil	2600	860	ug/L	1.72	03/12/2003 23:57	
<b>Surrogates(s)</b>						
o-Terphenyl	73.7	60-130	%	1.72	03/12/2003 23:57	

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A  
Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Batch QC Report**

Prep(s): 3550/8015M

**Method Blank**

MB: 2003/03/11-02.10-003

**Soil**

Test(s): 8015M

**QC Batch # 2003/03/11-02.10**

Date Extracted: 03/11/2003 13:09

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	03/12/2003 05:24	
Hydraulic Oil	ND	50	mg/Kg	03/12/2003 05:24	
<b>Surrogates(s)</b> o-Terphenyl	85.1	60-130	%	03/12/2003 05:24	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 14:10

Page 8 of 13

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A  
Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Batch QC Report**

Prep(s): 3510/8015M

Method Blank

MB: 2003/03/12-01.10-001

Water

Test(s): 8015M

QC Batch # 2003/03/12-01.10

Date Extracted: 03/12/2003 06:02

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	03/12/2003 17:07	
Hydraulic Oil	ND	500	ug/L	03/12/2003 17:07	
<b>Surrogates(s)</b> o-Terphenyl	100.1	60-130	%	03/12/2003 17:07	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566  
Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 14:10

Page 9 of 13

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Batch QC Report**

Prep(s): 3550/8015M

Test(s): 8015M

**Laboratory Control Spike**

**Soil**

**QC Batch # 2003/03/11-02.10**

LCS 2003/03/11-02.10-001

Extracted: 03/11/2003

Analyzed: 03/11/2003 20:01

LCSD 2003/03/11-02.10-002

Extracted: 03/11/2003

Analyzed: 03/11/2003 20:39

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	39.2	40.8	41.7	94.0	98.1	4.3	60-130	25		
<b>Surrogates(s)</b> o-Terphenyl	19.2	20.0	20.0	95.9	100.2		60-130	0		

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 14:10

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A  
Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Batch QC Report**

Prep(s): 3510/8015M

Test(s): 8015M

**Laboratory Control Spike**

**Water**

**QC Batch # 2003/03/12-01.10**

LCS 2003/03/12-01.10-002

Extracted: 03/12/2003

Analyzed: 03/12/2003 14:52

LCSD 2003/03/12-01.10-003

Extracted: 03/12/2003

Analyzed: 03/12/2003 15:33

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	963	1050	1250	77.0	84.0	8.7	60-130	25		
<b>Surrogates(s)</b> o-Terphenyl	20.9	22.4	20.0	104.3	111.9		60-130	0		

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/17/2003 14:10

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A  
Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

**Batch QC Report**

Prep(s): 3550/8015M

Test(s): 8015M

**Matrix Spike ( MS / MSD )**

**Soil**

**QC Batch # 2003/03/11-02.10**

SB1+SB2-2.5'-5' >> MS

Lab ID: 2003-03-0178 - 001

MS: 2003/03/11-02.10-004

Extracted: 03/11/2003

Analyzed: 03/11/2003 17:50

Dilution: 1.00

MSD: 2003/03/11-02.10-005

Extracted: 03/11/2003

Analyzed: 03/11/2003 18:31

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Diesel	36.8	34.4	0.00	41.3	89.1	84.3	5.5	60-130	25		
<b>Surrogate(s)</b> o-Terphenyl	20.0	20.1		20.0	100.2	100.7		60-130	0		

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Jonas & Associates, Inc.

Attn.: Mark Jonas

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Alameda Fed. Centr. Bldg. 4

Received: 03/10/2003 17:00

---

**Legend and Notes**

---

**Analysis Flag**

rl

Reporting limits raised due to reduced sample size.

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Jonas & Associates, Inc.

Attn.: Voytek Bajsarowicz

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Received: 03/10/2003 16:11

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SB3-2.5	03/10/2003	Soil	1
SB4-2.5	03/10/2003	Soil	2
SB3-5	03/10/2003	Soil	3
SB4-5	03/10/2003	Soil	4



**Total Extractable Petroleum Hydrocarbons (TEPH)**

Jonas & Associates, Inc.

Attn.: Voytek Bajsarowicz

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Received: 03/10/2003 16:11

Prep(s): 3550/8015M                      Test(s): 8015M  
 Sample ID: **SB3-2.5**                      Lab ID: 2003-03-0440 - 1  
 Sampled: 03/10/2003                      Extracted: 3/20/2003 14:51  
 Matrix: Soil                                  QC Batch#: 2003/03/20-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Hydraulic Oil	ND	50	mg/Kg	1.00	03/22/2003 15:58	
<b>Surrogates(s)</b>						
o-Terphenyl	86.3	60-130	%	1.00	03/22/2003 15:58	

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Jonas & Associates, Inc.  
Attn.: Voytek Bajsarowicz

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021  
Project: GSA-211A

Received: 03/10/2003 16:11

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>SB4-2.5</b>	Lab ID: 2003-03-0440 - 2
Sampled: 03/10/2003	Extracted: 3/20/2003 14:51
Matrix: Soil	QC Batch#: 2003/03/20-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Hydraulic Oil	190	100	mg/Kg	2.00	03/25/2003 09:48	
<b>Surrogates(s)</b>						
o-Terphenyl	81.3	60-130	%	2.00	03/25/2003 09:48	

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Jonas & Associates, Inc.

Attn.: Voytek Bajsarowicz

1350 Arnold Drive Suite 202

Martinez, CA 94553

Phone: (925) 374-0020 Fax: (925) 374-0021

Project: GSA-211A

Received: 03/10/2003 16:11

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>SB3-5</b>	Lab ID: 2003-03-0440 - 3
Sampled: 03/10/2003	Extracted: 3/20/2003 14:51
Matrix: Soil	QC Batch#: 2003/03/20-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Hydraulic Oil	ND	50	mg/Kg	1.00	03/22/2003 15:18	
<b>Surrogates(s)</b>						
o-Terphenyl	83.7	60-130	%	1.00	03/22/2003 15:18	

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Jonas & Associates, Inc.  
Attn.: Voytek Bajsarowicz

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021  
Project: GSA-211A

Received: 03/10/2003 16:11

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>SB4-5</b>	Lab ID: 2003-03-0440 - 4
Sampled: 03/10/2003	Extracted: 3/20/2003 14:51
Matrix: Soil	QC Batch#: 2003/03/20-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Hydraulic Oil	ND	50	mg/Kg	1.00	03/22/2003 14:38	
<b>Surrogates(s)</b> o-Terphenyl	77.0	60-130	%	1.00	03/22/2003 14:38	

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Jonas & Associates, Inc.  
Attn.: Voytek Bajsarowicz

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021  
Project: GSA-211A

Received: 03/10/2003 16:11

**Batch QC Report**

Prep(s): 3550/8015M  
Method Blank

Soil

Test(s): 8015M  
QC Batch # 2003/03/20-03.10

MB: 2003/03/20-03.10-003

Date Extracted: 03/20/2003 14:51

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	03/21/2003 17:45	
Hydraulic Oil	ND	50	mg/Kg	03/21/2003 17:45	
<b>Surrogates(s)</b> o-Terphenyl	85.4	60-130	%	03/21/2003 17:45	

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Jonas & Associates, Inc.  
Attn.: Voytek Bajsarowicz

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Phone: (925) 374-0020 Fax: (925) 374-0021  
Project: GSA-211A

Received: 03/10/2003 16:11

**Batch QC Report**

Prep(s): 3550/8015M

Test(s): 8015M

**Laboratory Control Spike**

**Soil**

**QC Batch # 2003/03/20-03.10**

LCS 2003/03/20-03.10-001  
LCSD 2003/03/20-03.10-002

Extracted: 03/20/2003  
Extracted: 03/20/2003

Analyzed: 03/21/2003 16:24  
Analyzed: 03/21/2003 17:04

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	35.4	36.0	41.5	85.3	87.0	2.0	60-130	25		
<i>Surrogates(s)</i> o-Terphenyl	20.6	21.2	20.0	103.1	105.8		60-130	0		

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566  
Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

03/27/2003 16:54

**Jonas & Associates, Inc.**

March 27, 2003

1350 Arnold Drive Suite 202  
Martinez, CA 94553  
Attn.: Voytek Bajsarowicz  
Project#: GSA-211A

Dear Mr. Bajsarowicz:

Attached is our report for your samples received on 03/10/2003 16:11  
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  
04/24/2003 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: [tgranicher@stl-inc.com](mailto:tgranicher@stl-inc.com)

Sincerely,



Tod Granicher  
Project Manager