

**Soil and Ground Water  
Management Completion Report**

1274 65th Street and 1269 66th Street  
Emeryville, California

CO 201

JUN 19 2002

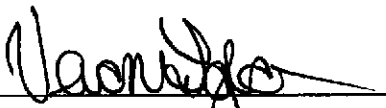
This report has been prepared for:

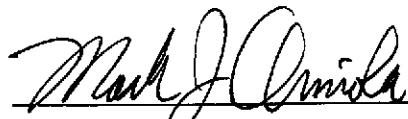
**Pulte Home Corporation**


7031 Koll Center Parkway, Suite 150, Pleasanton, California 94566

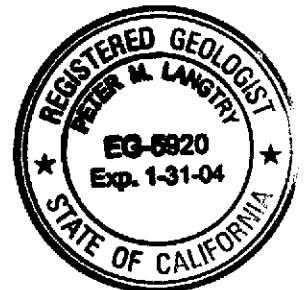
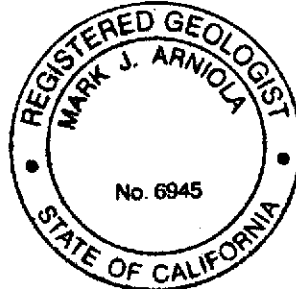
June 13, 2002

Project No. 1424-4B

  
Veronica M. Tiglao  
Staff Environmental Engineer

  
Mark J. Arniola, R.G., R.E.A.  
Project Geologist

  
Peter M. Langtry, R.G., C.E.G.  
Principal Environmental Geologist  
Quality Assurance Reviewer



Mountain View

Oakland

Fullerton

San Ramon

## TABLE OF CONTENTS

1.0	INTRODUCTION .....	1
1.1	Purpose.....	1
1.2	Site Background .....	1
1.3	Scope of Work.....	1
2.0	SOIL MANAGEMENT GOALS SUMMARY.....	2
	Table 1. Potential Contaminants of Concern .....	2
3.0	OBSERVATION AND CONFIRMATION SAMPLING .....	2
3.1	Lead-Impacted Areas: Excavation, Confirmation Sampling, and Analyses.....	3
	Table 2. Analytical Results of Final Confirmation Samples .....	3
3.2	Hydrocarbon-Impacted Soil.....	3
3.2.1	Shallow Soil .....	3
	Table 3A. Analytical Results of Selected Soil Samples .....	4
	Table 3B. Analytical Results of Selected Soil Samples .....	4
3.2.2	Former UST Area Over-excavation.....	5
	Table 4. Analytical Results of Final Confirmation Soil Samples and Stockpile Samples.....	6
4.0	SUPPLEMENTARY SOIL AND GROUND WATER CHARACTERIZATION.....	6
4.1	Soil Sample Collection and Analyses.....	6
	Table 5. Analytical Results of Selected Soil Samples.....	7
4.2	Ground Water Sample Collection and Analyses.....	8
	Table 6. Analytical Results of Selected Ground Water Samples .....	8
4.3	Silica Gel Filter .....	8
5.0	PONDED WATER .....	9
5.1	Ponded Water Sample Collection and Analyses.....	9
	Table 7. Analytical Results of Selected Ponded Ground Water Samples .....	9
5.2	Tank Water Sample Collection and Analyses .....	10
	Table 8A. Analytical Results of Water Tank Samples.....	10
	Table 8B. Analytical Results of Water Tank Samples.....	10
6.0	VAPOR BARRIERS.....	11
7.0	CONCLUSIONS .....	11
8.0	LIMITATIONS.....	12
9.0	REFERENCES.....	12

FIGURE 1 — VICINITY MAP

FIGURE 2 — SITE PLAN

FIGURE 3 — EXCAVATION DETAIL WITH ANALYTICAL RESULTS (SOIL)

FIGURE 4 — EXCAVATION DETAIL WITH ANALYTICAL RESULTS (GROUND WATER)

APPENDIX A — DRILLING PERMITS, BORING LOGS, AND SOIL AND GROUNDWATER  
SAMPLING PROTOCOL

APPENDIX B — ANALYTICAL RESULTS

APPENDIX C — MANIFEST FORMS AND DISCHARGE PERMIT

**SOIL AND GROUND WATER  
MANAGEMENT REPORT  
1274 65TH STREET AND 1269 66TH STREET  
EMERYVILLE, CALIFORNIA**

**1.0 INTRODUCTION**

**1.1 Purpose**

In this report, we present the results of soil management activities performed at 1274 65<sup>th</sup> Street and 1274 66<sup>th</sup> Street in Emeryville, California (Figure 1). This work was performed during construction for Pulte Home Corporation who is redeveloping the site for residences.

**1.2 Site Background**

The approximately 2-acre site, shown on Figures 1 and 2, is bounded by 66<sup>th</sup> Street to the north, a railroad right-of-way to the east, 65<sup>th</sup> Street to the south, and commercial properties to the west. The site formerly was occupied by Liquid Sugars Incorporated (LSI) and used for sugar, corn syrup, and molasses storage and processing. Pulte Home Corporation currently is in the process of redeveloping the site with 27 townhomes and 28 lofts and flats.

Based on the previous soil and ground water quality evaluations (Lowney, 2001a,b), low levels of petroleum impacted soil and ground water were present beneath the former underground storage tank (UST) areas at the southwestern portion of the site. Based on the low concentrations detected, the Alameda County Department of Environmental Health (ACDEH) closed the case in 1999 for continued commercial use of the property.

Low concentrations (150 parts per billion (ppb) maximum) of volatile organic compounds (VOCs) from an off-site source were detected in the ground water beneath the northeastern portion of the parcel. Lead above the California Regional Water Quality Control Board's (RWQCB's) residential risk based screening level (RBSL) was detected at a location near the north-central portion of the site and at another location at the south-central portion of the site. Based on the presence of the petroleum hydrocarbons in soil and ground water, VOCs in ground water, and lead in soil, a Risk Management Work Plan (RMWP) was prepared presenting protocols for addressing contaminants during construction. The RMWP was approved by the California Regional Water Quality Control Board (CRWQCB) and Alameda County Department of Environmental Health (ACDEH).

**1.3 Scope of Work**

The scope of work for this study was outlined in our agreements dated November 16, 2001, February 7, 2002, and February 22, 2002, and included the following tasks.

- ▼ Part-time observation during site grading, utility installation, and vapor barrier placement.
- ▼ Drilling and logging of twenty-two exploratory borings.
- ▼ Collecting verification soil samples and ground water samples for laboratory analysis.
- ▼ Collecting tank water samples for laboratory analysis.

## 2.0 SOIL MANAGEMENT GOALS SUMMARY

Site soil management activities were performed to observe soil conditions during grading activities and to perform confirmation sampling after removal of soil with contaminants of concern that exceeded the approved target levels. Results of the previously conducted soil and ground water quality investigations, the selected chemicals of concern, and the maximum concentrations detected (target levels) were presented in the site-specific Health Risk Assessment (HRA) presented in the Risk Management Work Plan (Lowney, 2001c). Potential contaminants of concern are presented in Table 1.

**Table 1. Potential Contaminants of Concern**

Potential Contaminants of Concern	Target Levels (ppm)
Lead	255
TPHg	74 (1,000)*
TPHd	1,300
TPHmo	54 (1,000)*
Benzene	0.16
Toluene	0.24
Ethylbenzene	0.096
Xylenes	0.81

\* Due to low previous detections of TPHg and TPHd, the CRWQCB approved site-specific target levels of 1,000 ppm for these contaminants.

## 3.0 OBSERVATION AND CONFIRMATION SAMPLING

To evaluate soil quality during on-site subsurface activities, environmental engineer Veronica Tiglao provided part-time observation, under the supervision of Project Geologist Mark Arniola, R.G., from approximately January 10 to February 22, 2002. An organic vapor meter (OVM) was used to monitor organic vapor concentrations and to evaluate the presence of suspect (discolored or odorous) soil.

When suspect soil was encountered, one soil sample was collected for each approximately 50-lineal feet of trench excavation in the suspect area or 2,500 square feet of grading cut in the suspect area. In addition, we collected

verification samples (sidewalls and floor) from the two excavated areas of lead-impacted soil.

### 3.1 Lead-Impacted Areas: Excavation, Confirmation Sampling, and Analyses

Excavation activities for the lead-impacted areas were performed by first excavating soil in an approximately 5 foot by 5 foot area surrounding these locations to a depth of approximately 3 feet, followed by additional excavation, if necessary, after the results of the initial confirmation samples were evaluated. As stated in the HRA (Lowney, 2001c), the RWQCB and ACDEH approved remedial goal for lead was 255 ppm. If laboratory analysis of the confirmation samples detected total lead concentrations that exceeded 255 ppm, additional soil was excavated and additional confirmation samples were collected following the soil management plan protocol. Excavation activities for lead-impacted areas were performed between January 31, 2002 and February 6, 2002. Approximately 13 cubic yards of soil were excavated and off-hauled for disposal at the Chemical Waste Management Facility in Kettleman City, California as a Class I hazardous waste. A discussion of sampling protocol is included in Appendix A. Copies of manifests are presented in Appendix C.

Thirteen soil samples were analyzed for lead (EPA Test Method 6010). Analytical results for the final confirmation samples are presented in Table 2. Copies of the analytical reports and chain of custody documentation are presented in Appendix B.

**Table 2. Analytical Results of Final Confirmation Samples**  
(concentrations in parts per million)

Sample ID	Depth (feet)	Date	Total Lead
SSC-10	3	1/31/02	19
SSC-11	1 ½	1/31/02	180
SSC-13	1 ½	1/31/02	14
SSC-15	3	1/31/02	4.2
SSC-16	1 ½	1/31/02	5.9
SSC-17	1 ½	1/31/02	13
SSC-18	1 ½	1/31/02	13
SSC-19	1 ½	1/31/02	5.6
SSC-28	1 ½	2/05/02	4.5
SSC-31	1 ½	2/06/02	76
Target Level			255

### 3.2 Hydrocarbon-Impacted Soil

#### 3.2.1 Shallow Soil

In areas where shallow (less than approximately 4 feet) suspect (discolored or odorous) soil was encountered during demolition/excavation activities (outside of

the UST area discussed below), one soil sample was collected for each approximately 50 lineal feet of trench excavation in the suspect area or 2,500 square feet of grading cut in the suspect area, as discussed in the Risk Management Work Plan (Lowney 2001c). Two suspect soil areas (SSC-1 and SSC-2) were observed below the former building at the northwest corner of the site, and one suspect area (SSC-3) was observed below the former building at the north central portion of the site. A discussion of sampling protocol is included in Appendix A.

Three soil samples were analyzed for total petroleum hydrocarbons in the gasoline range (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary butyl ether (MTBE) (EPA Test Method 8015/8020); total petroleum hydrocarbons in the diesel (TPHd) and motor oil range (TPHmo) (EPA Test Method 8015M); halogenated volatile organic compounds (VOCs) (EPA Test Method 8260B); and lead (EPA Test Method 6010).

Based on the analytical results, the soil in these areas was left in-place with the exception of discolored soil at SSC-2, which was over-excavated and disposed off-site. Analytical results are presented in Tables 3A and 3B. Copies of the analytical reports and chain of custody documentation are presented in Appendix B.

**Table 3A. Analytical Results of Selected Soil Samples**  
(concentrations in parts per million)

Sample ID	Depth (feet)	Date	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	VOCs
SSC-1	0 - ½	1/10/02	38	12	<50	<0.62	<0.62	<0.62	<0.62	<0.62	ND
SSC-2	0 - ½	1/10/02	3.8	340	1,700	<0.005	<0.005	<0.005	<0.005	<0.005	ND
SSC-3	0 - ½	1/10/02	<1.0	1.3	<50	<0.005	<0.005	<0.005	<0.005	<0.005	ND
Target Levels			1,000	1,300	1,000	0.16	0.24	0.096	0.81	--	--

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

**Table 3B. Analytical Results of Selected Soil Samples**  
(concentrations in parts per million)

Sample ID	Depth (feet)	Date	Total Lead
SSC-1	0 - ½	1/10/02	19
SSC-2	0 - ½	1/10/02	73
SSC-3	0 - ½	1/10/02	11
Target Level			255

### 3.2.2 Former UST Area Over-excavation

During building demolition/excavation activities, shallow soil impact (less than approximately 4 feet) was observed in the area of the former underground storage tank (UST) and the former building near the west central portion of the site. Based on laboratory analysis of sample SSC-4 (where 1,600 ppm of TPHg was detected) and OVM readings, the impacted soil was excavated for off-site disposal. After the impacted soil was removed, confirmation soil samples SSC-21A, SSC-22A, SSC-23, SSC-24A, SSC-24B, and SSC-30 were collected and analyzed.

The former UST pit was subsequently over-excavated (for geotechnical purposes) to a depth of approximately 10 feet and approximately 300 cubic yards of soil and backfill were removed (Figure 2). Soil samples were collected from the bottom of the excavation (SSC-5) and from each sidewall (SSC-6, SSC-7, SSC-8, and SSC-9). In addition, discolored soil and a strong fuel odor were noted near the base of the north end of the excavation. Additional soil was over-excavated to the north and an additional soil sample was collected at this location (SSC-20). The six soil samples (SSC-5 through SSC-9, and SSC-20) were analyzed for TPHg, BTEX, and MTBE (EPA Test Method 8015/8020); TPHd and TPHmo (EPA Test Method 8015M); VOCs (EPA Test Method 8260B); and lead (EPA Test Method 6010).

Laboratory analysis detected TPHg (1,100 ppm) and TPHd (2,900 ppm), which were above target levels in soil sample SSC-20. Based on the analytical data, additional soil was excavated to the north of the former UST pit and samples SSC-25, SSC-26, and SSC-27 were collected and analyzed for TPHg, BTEX, and MTBE (EPA Test Method 8015/8020); TPHd and TPHmo (EPA Test Method 8015M); VOCs (EPA Test Method 8260B); and lead (EPA Test Method 6010).

The over-excavation activities in the impacted areas were performed between February 1, 2002 and February 5, 2002. Approximately 590 cubic yards of material (including the shallow soil) were over-excavated and immediately off-hauled for disposal at the Republic Services Vasco Road Landfill as a Class II waste. Copies of manifest forms are presented in Appendix C.

After review of the confirmation sample laboratory results, the RWQCB and the ACDEH required performance of a supplementary soil and ground water evaluation in impacted area surrounding the excavation area (see Section 4.0). Excavated soil from the former UST area that did not appear to be contaminated based on observations and OVM readings was stockpiled on-site on top of visqueen within a designated enclosure and sampled to evaluate appropriate re-use, treatment, or disposal. One discrete soil sample was collected per approximately 100 cubic yards of stockpiled soil was collected for analysis, as discussed in the Risk Management Work Plan (Lowney 2001c). A discussion of sampling protocol is included in Appendix A.

Three soil samples (SP1-1, SP1-2, and SP1-3) were analyzed for TPHg, BTEX, and MTBE (EPA Test Method 8015/8020); TPHd and TPHmo (EPA Test Method 8015M); VOCs (EPA Test Method 8260B); and lead (EPA Test Method 6010). These analyses



were selected to help assess suitability of stockpiled soil to remain on-Site. Based on the analytical results, the stockpiled soil was approved for re-use on-Site.

Analytical results are presented in Table 4. Copies of the analytical reports and chain of custody documentation are presented in Appendix B.

**Table 4. Analytical Results of Final Confirmation Soil Samples and Stockpile Samples**  
(concentrations in parts per million)

Sample ID	Depth (feet)	Date	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	VOCs	Total Lead
SSC-5	10	1/31/02	1.2	130	98	<0.005	<0.005	<0.005	<0.005	<0.005	ND	4.7
SSC-6	5	1/31/02	96	53	59	<0.62	<0.62	<0.62	<0.62	<0.62	ND	13
SSC-7	5	1/31/02	<1.0	<1.0	<50	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	ND	19
SSC-8	5	1/31/02	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	<0.005	ND	4.7
SSC-9	5	1/31/02	<1.0	<1.0	<50	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	ND	4.3
SSC-21A	2	2/04/02	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	<0.005	ND	4.3
SSC-22A	2	2/04/02	1.2	1.4	<50	0.016	<0.005	0.064	0.17	<0.005	0.1584 <sup>1</sup>	33
SSC-23	4	2/04/02	120	420	<50	<0.62	<0.62	<0.62	<0.62	<0.62	0.227 <sup>2</sup>	8.6
SSC-24A	2	2/04/02	1.2	<1.0	<50	<0.005	<0.005	0.0051	0.014	<0.005	0.0198 <sup>3</sup>	9.1
SSC-24B	2	2/05/02	1.5	<1.0	<50	0.015	<0.005	<0.005	<0.005	<0.005	ND	12
SSC-25	12	2/04/02	1,100	2,900	<1,000	<12	<12	<12	<12	<12	12.683 <sup>4</sup>	12
SSC-26	10	2/04/02	88	5.0	<50	0.031	<0.62	0.025	<0.62	<0.62	0.236 <sup>5</sup>	3.4
SSC-30	2	2/05/02	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	<0.005	ND	14
SP1-1	--	1/31/02	<1.0	13	<50	<0.005	<0.005	<0.005	<0.005	<0.005	ND	5.0
SP1-2	--	2/04/02	<1.0	5.8	<50	<0.005	<0.005	<0.005	<0.005	<0.005	ND	26
SP1-3	--	2/04/02	<1.0	12	<50	<0.005	<0.005	<0.005	<0.005	<0.005	ND	17
Target Level			74 (1,000)	1,300	54 (1,000)	0.16	0.24	0.096	0.81	--	--	255

- < Indicates that the compound was not detected at or above the stated laboratory reporting limit
- 1 Detected 0.027 ppm 1,2,4 tri-methylbenzene, 0.019 ppm 1,3,5 tri-methylbenzene, 0.054 ppm o-xylene, 0.0064 ppm iso-propylbenzene, 0.027 ppm ethylbenzene, 0.012 ppm n-propylbenzene, and 0.013 m, p-xylene; Other VOCs were not detected at or above laboratory reporting limits
- 2 Detected 0.103 ppm n-butylbenzene, 0.059 ppm sec-butylbenzene, 0.024 ppm iso-propylbenzene, and 0.041 ppm n-propylbenzene; Other VOCs were not detected at or above laboratory reporting limits
- 3 Detected 0.013 ppm o-xylene, 0.0068 ppm ethylbenzene, 3.750 ppm n-butylbenzene, 1.530 ppm sec-butylbenzene, 2.080 ppm iso-propylbenzene, 0.393 ppm p-iso-propyltoluene, and 4.930 ppm n-propylbenzene; Other VOCs were not detected at or above laboratory reporting limits
- 4 Detected 3.750 ppm n-butylbenzene, 1.530 ppm sec-butylbenzene, 2.080 ppm iso-propylbenzene, 0.393 ppm p-iso-propyltoluene, and 4.930 ppm n-propylbenzene; Other VOCs were not detected at or above laboratory reporting limits
- 5 Detected 0.077 and n-butylbenzene, 0.018 ppm sec-butylbenzene, 0.031 ppm iso-propylbenzene, and 0.11 ppm n-propylbenzene; Other VOCs were not detected at or above laboratory reporting limits

#### 4.0 SUPPLEMENTARY SOIL AND GROUND WATER CHARACTERIZATION

##### 4.1 Soil Sample Collection and Analyses

Based on concentrations of TPHg and TPHd exceeding the target levels in the former UST area, the CRWQCB and ACDEH required additional characterization of the soil and ground water in this area. As required by the RWQCB and the ACDEH

staff, and under the supervision of Project Geologist, Mark Arniola, R.G., environmental engineer Veronica Tiglao and environmental geologist Charles Mettler directed a subsurface exploration program and logged twenty-two borings (EB-6 to EB-27) to approximate depths of 20 to 28 feet. The exploratory borings were drilled surrounding the excavation area to confirm the vertical and lateral extent of soil exceeding the target levels. Soil samples were collected from the borings based on field observations. Ground water was encountered at approximate depths of 15 to 25 feet. Soil sampling protocol, boring logs, and permits are presented in Appendix A.

To evaluate soil quality, the soil samples were monitored for volatile hydrocarbons using an OVM in borings EB-7 through EB-20, and EB-23 through EB-27. The OVM results are shown on the boring logs presented in Appendix A and detected concentrations up to 1,450 ppm with the highest levels detected at a depth of 10 feet in boring EB-15. Soil samples collected from the soil with the highest OVM readings in borings EB-7, EB-8, EB-9, EB-12 through EB-17, EB-19, EB-20, EB-23, EB-26, and EB-27 were selected for submittal to a state-certified analytical laboratory.

Thirteen soil samples were analyzed for TPHg, BTEX, and MTBE (EPA Test Method 8015/8020); and TPHd and TPHmo (EPA Test Method 8015M). These analyses were selected to help assess the lateral extent of the contaminated soil.

Analytical results are presented in Table 5 and Figure 3. Copies of the analytical reports and chain of custody documentation are presented in Appendix B.

**Table 5. Analytical Results of Selected Soil Samples**  
(concentrations in parts per million)

Boring Number	Depth (feet)	Date	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
EB-7	8½-9	2/11/02	220	640	<250	<3.1	<3.1	<3.1	<3.1	<3.1
EB-8	10-10½	2/11/02	620	63	<50	<3.1	<3.1	<3.1	<3.1	<3.1
EB-9	8½-9	2/11/02	620	150	<50	<3.1	<3.1	8.7	<3.1	<3.1
EB-12	7-7½	2/11/02	1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	<0.005
EB-13	10-10½	2/11/02	1,700	860	<250	<6.2	<6.2	<6.2	<6.2	<6.2
EB-14	10-10½	2/11/02	94	49	<50	<0.062	<0.062	<0.062	<0.062	<0.062
EB-15	10-10½	2/11/02	980	470	<100	<3.1	<3.1	11.0	<3.1	<3.1
EB-16	7-7½	2/11/02	670	130	<100	<3.1	<3.1	6.8	<3.1	<3.1
EB-17	9½-10	2/11/02	92	950	<250	<0.62	<0.62	1.4	<0.62	<0.62
EB-20	9½-10	2/20/02	140	810	<500	<0.5	<0.5	<0.5	<1.0	<0.5*
EB-23	9-9½	2/21/02	650	270	<500	<0.5	<0.5	2.8	2.2	<0.5
EB-26	7-7½	2/22/02	2.8	3.9	<50	<0.012	<0.012	<0.012	<0.012	<0.012
EB-27	18½-19	2/22/02	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	<0.005
Target Levels			74 (1,000)	1,300	54 (1,000)	0.16	0.24	0.096	0.81	--

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

\* Tested by High Level 8260B, Other fuel oxygenates, including TBA, DIPE, ETBE, TAME, 1,2-DCA, were not detected at or above the laboratory reporting limit

## 4.2 Ground Water Sample Collection and Analyses

To evaluate ground water quality near the excavation area, ground water grab samples were collected from borings EB-6, EB-10, EB-11, EB-15, and EB-18 through EB-27. Copies of the well sampling logs and a discussion of sampling protocol are included in Appendix A.

Fourteen ground water samples were analyzed for TPHg, BTEX, and MTBE (EPA Test Method 8015/8020); and TPHd and TPHmo (EPA Test Method 8015M). These analyses were selected to evaluate the extent of ground water impact. Analytical results are shown in Table 6 and on Figure 4. Copies of the laboratory reports are attached in Appendix B.

**Table 6. Analytical Results of Selected Ground Water Samples**  
(concentrations in parts per billion)

Boring Number	Date	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
EB-6	2/11/02	510	240	<630	18	3.1	14	13	<5.0
EB-10	2/11/02	90	<110	<1,100	<0.50	1.5	1.3	2.8	<5.0
EB-11	2/11/02	1,100	<220	<2,200	<2.5	<2.5	<2.5	<2.5	<25
EB-15	2/11/02	3,600	2,500	<630	140	75	150	450	<25
EB-18	2/20/02	140	110	<500	<0.50	<0.50	<0.50	<1.0	<0.50*
EB-19	2/20/02	1,500	1.8**	<50**	6.9	1.2	31	17	<0.50*
EB-20	2/20/02	<50	<150	<1,500	2.5	<0.50	<0.50	<1.0	<0.50
EB-21	2/20/02	1,600	110	<930	6.1	<0.50	14	5.1	<0.50*
EB-22	2/20/02	110	51	<500	7.4	<0.50	1.6	<1.0	0.54*
EB-23	2/21/02	28,000	<50	<500	<10	<10	730	300	<10
EB-24	2/21/02	820	63	<500	<0.50	<0.50	1.3	<1.0	<0.50
EB-25	2/21/02	57	<69	<690	<0.50	<0.50	3.3	<1.0	<0.50
EB-26	2/22/02	240	<250	<2,500	<2.0	2.0	<2.0	<4.0	<2.0
EB-27	2/22/02	<50	<91	<910	<0.50	<0.50	<0.5	<1.0	<0.580
Target Levels		1,400	1,600	--	130	1.5	15	2.8	83

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

\* Other fuel oxygenates, including TBA, DIPE, ETBE, TAME, 1,2 -DCA, not detected at or above the laboratory reporting limit

\*\* Due to high sediments in ground water sample, test sample analyzed as soil

## 4.3 Silica Gel Filter

The ground water samples were passed through a silica gel column prior to the TPHd analysis (EPA Test method 8015) to help remove non-fuel hydrocarbons. The silica gel removes oxygenated organic compounds produced by biologic degradation of organic materials. Studies have shown that the silica gel filter does not significantly remove extractable range petroleum hydrocarbons, including diesel, because the petroleum hydrocarbons are composed of non-polar substances (Zemo 1997). Performing the silica gel filtration prior to analysis is important where the samples are collected from organic rich environments common to the

shallow ground water-bearing zones in the San Francisco Bay Area; these environments contain significant concentrations of naturally-occurring hydrocarbons that can be detected in the EPA 8015 analysis and falsely quantified by the laboratory as diesel.

**5.0 PONDED WATER**

During site grading activities, shallow ground water seeped into two of the grading excavations. In addition, rain water also collected in the excavations. Evaluation of the ponded water quality was performed to evaluate disposal and discharge alternatives.

**5.1 Ponded Water Sample Collection and Analyses**

To evaluate ponded water quality at the site, two ponded water grab samples were collected from excavated areas. A discussion of sampling protocol is included in Appendix A.

Two ponded ground water samples were analyzed for TPHg, BTEX, and MTBE (EPA Test Method 8015/8020); TPHd and TPHmo (EPA Test Method 8015M); VOCs (EPA Test Method 8260B); and lead (EPA Test Method 6010). These analyses were selected to help evaluate ponded water quality. The ponded ground water was then pumped from the open excavation areas into temporary storage tanks located on-site.

Analytical results are presented in Table 7. Copies of the analytical reports and chain of custody documentation are presented in Appendix B.

**Table 7. Analytical Results of Selected Ponded Ground Water Samples**  
(concentrations in parts per billion)

Sample ID	Date	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	VOCs	Lead
GW-1	01/22/02	<50	940	2,700	<0.5	2.0	<0.5	0.79	<5.0	ND	<0.005
GW-2	02/21/02	<50	<63	<630	1.1	<0.5	<0.5	<1.0	<0.5	ND	21
MCL*		NE	NE	NE	1.0	150	700	1750	13	-	15
Residential RBSL**		100	100	100	1.0	40	30	13	5.0	-	3.2

< Indicates that the compound was not detected at or above the stated laboratory reporting limit  
 \* Drinking water Maximum Contaminant Levels—California DHS, January 31, 2001  
 \*\* Risk Based Screening Level, CRWQCB, August 2000, Table A.  
 NE Not established

**5.2 Tank Water Sample Collection and Analyses**

To obtain approval for a discharge permit from the East Bay Municipal District (EBMUD), tank water grab samples were collected from each temporary storage tank. One grab sample was collected from Tank 1, and two samples each were collected from Tank 2 and Tank 3. A discussion of sampling protocol is included in Appendix A.

Three tank water samples were analyzed for TPHg, BTEX, and MTBE (EPA Test Method 8015/8020); TPHd and TPHmo (EPA Test Method 8015M); VOCs (EPA Test Method 8260B); and lead (EPA Test Method 6010). Two additional samples were analyzed for total petroleum hydrocarbons in the oil and grease range (EPA Test Method 1664), and additional metals, cadmium, chromium, copper, nickel, and zinc (EPA Test Method 6010). These analyses were required by East Bay Municipal Utility District (EBMUD) to approve the discharge of the tank water to the sanitary sewer.

Analytical results are presented in Tables 8A and 8B. Copies of the analytical reports and chain of custody documentation are presented in Appendix B.

Approximately 67,000 gallons of tank water were discharged from the site in accordance with the EBMUD permit to the sanitary sewer. A copy of the permit is presented in Appendix C.

**Table 8A. Analytical Results of Water Tank Samples  
(concentrations in parts per billion)**

Sample ID	Date	TPHg	TPHd	TPHmo	TPH (Oil & Grease)	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
T-1	2/28/02	<50	<50	<500	--	<0.5	<0.5	<0.5	<0.5	<5.0
T-2	3/18/02	68	78	<690	--	<0.5	<0.5	<0.5	0.97	<5.0
T-2A	4/01/02	--	--	--	<1,000	--	--	--	--	--
T-3	3/18/02	<50	57	<500	--	<0.5	<0.5	<0.5	<0.5	<5.0
T-3A	4/01/02	--	--	--	<1,000	--	--	--	--	--

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

**Table 8B. Analytical Results of Water Tank Samples  
(concentrations in parts per billion)**

Sample ID	Date	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	VOCs
T-1	2/28/02	--	--	--	6.6	--	--	ND
T-2	3/18/02	<2.0	14	100	15	33	39	ND
T-3	3/18/02	<2.0	17	31	19	24	53	ND

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

## 6.0 VAPOR BARRIERS

By the request of the RWQCB and the ACDEH, vapor barriers were installed under all on-site structures by Pulte Home Corporation's contractor. At the request of Pulte Home Corporation, project geologist Mark Arniola, R.G., visited the site and observed the vapor barriers (except for one at the northeast corner of the site) in-place on May 9 and 17, 2002. Formal inspection of the vapor barriers was performed by Terrasearch, Inc. and West Coast Properties. Copies of the inspection reports can be obtained from Pulte Home Corporation.

## 7.0 CONCLUSIONS

Approximately 33 tons of Class I material were removed from the formerly lead-impacted areas and approximately 1,400 tons of material of Class II material were removed from over-excavation areas during the on-site soil management activities. Approximately 67,000 gallons of ponded water pumped from on-site excavations were discharged from the site during the on-site soil management activities. Based on our field observations and analytical data, the management activities described in this report were performed in accordance with the approved RMWP (Lowney, 2001c). The majority of soil exceeding target levels was removed from the site. Based on our conversations and meetings with the CRWQCB and ACDEH staff during the project, the remaining sample locations that slightly exceeded the target levels were approved to remain in-place; no further soil removal was required. In addition, since the area of ground water impact was defined by the additional ground water characterization and was limited in extent, the RWQCB and ACDEH staff approved no further action for the remaining hydrocarbons in the ground water.

8.0 LIMITATIONS

This report was prepared for the use of Pulte Home Corporation in evaluating soil and ground water quality at the 1274 65th Street and 1269 66th Street at the time of this study. We make no warranty, expressed or implied, except that our services have been performed in accordance with environmental principles generally accepted at this time and location. The chemical and other data presented in this report can change over time and are applicable only to the time this study was performed. We are not responsible for the data presented by others.

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

As used in this report, the term "observation" implies only that we observed and tested the progress of the work with which we agreed to be involved. Our opinion as to whether the work essentially complies with the job requirements was based on our observations and test results.

9.0 REFERENCES

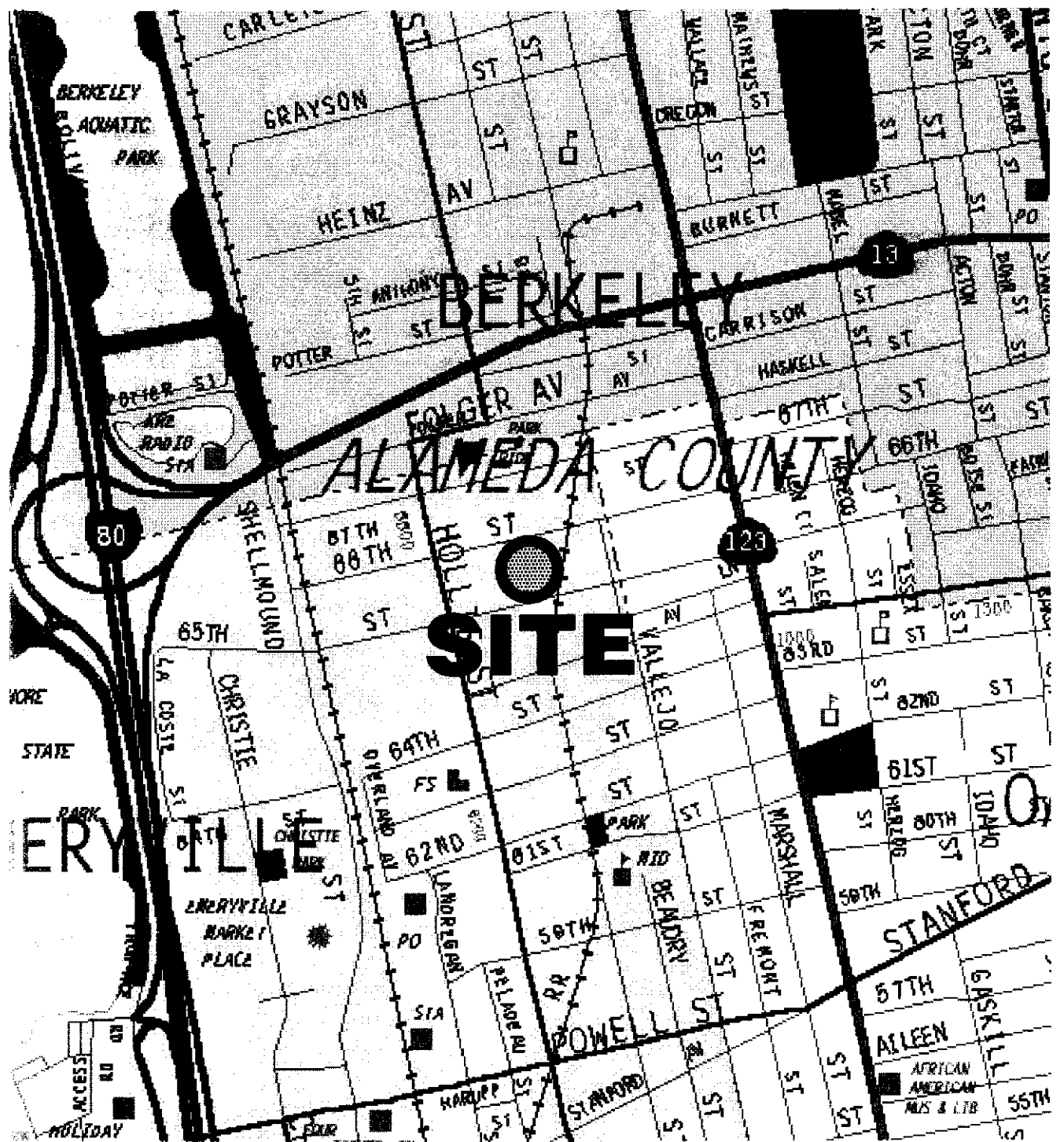
Lowney Associates, May 2, 2001a. *Phase I Environmental Site Assessment and Soil and Ground Water Quality Evaluation, 1274 65<sup>th</sup> Street and 1269 66<sup>th</sup> Street, Emeryville, California.*

Lowney Associates, May 29, 2001b. *Supplementary Soil Quality Evaluation, 1274 65<sup>th</sup> Street and 1269 66<sup>th</sup> Street, Emeryville, California.*

Lowney Associates, November 27, 2001c. *Construction Risk Management Plan, 1274 65<sup>th</sup> Street and 1269 66<sup>th</sup> Street, Emeryville, California.*

D.A. Zemo, 1997. *Do Your Extractable TPH Concentrations Represent Dissolved Petroleum?: An Update on Applied Research, Proceedings of the Petroleum Hydrocarbons and Organic Chemicals in Ground Water, 1997 Conference, NGWA/API, pp. 640-654.*

\* \* \* \* \*



© 1998 Thomas Bros. Maps

202\*EB

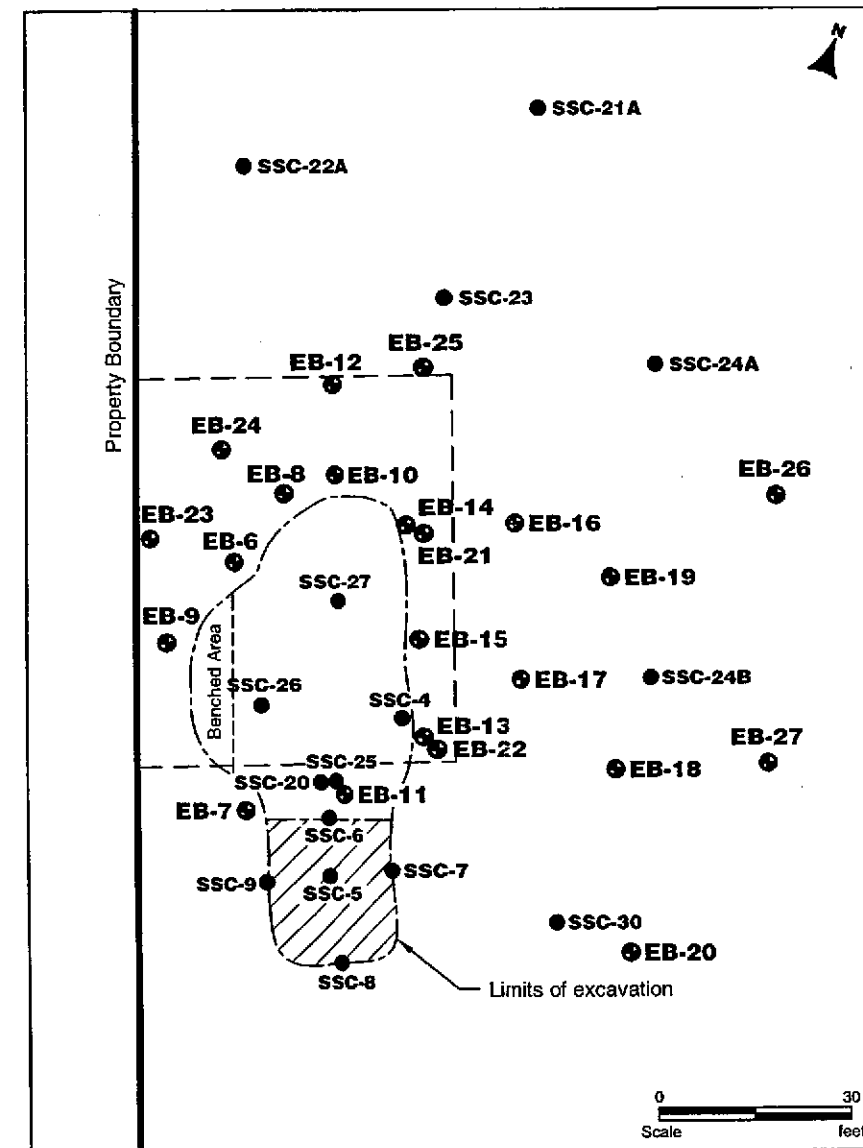
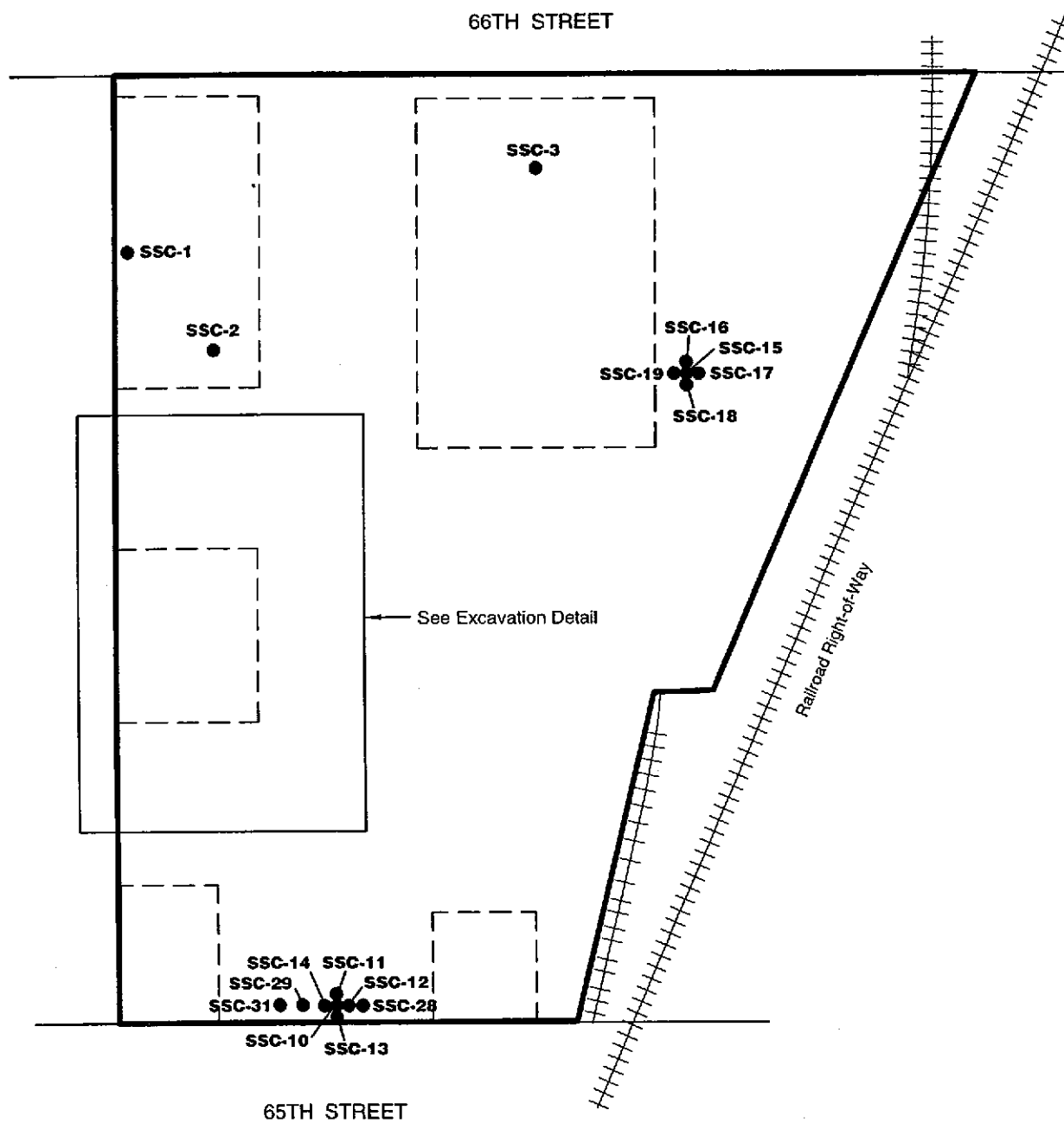
**VICINITY MAP**

1269 66TH STREET, 1274 65TH STREET  
Emeryville, California

**LOWNEY ASSOCIATES**  
Environmental/Geotechnical/Engineering Services

**FIGURE 1**  
1424-4B

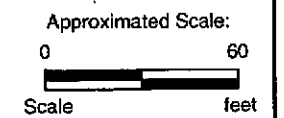




EXCAVATION DETAIL

**LEGEND**

- ⊕ - Approximate location of exploratory boring
- - Approximate location of shallow soil samples
- ▭ - Approximate location of former structures
- ▨ - Approximate location of former USTs

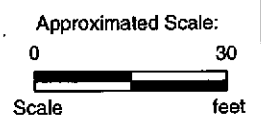
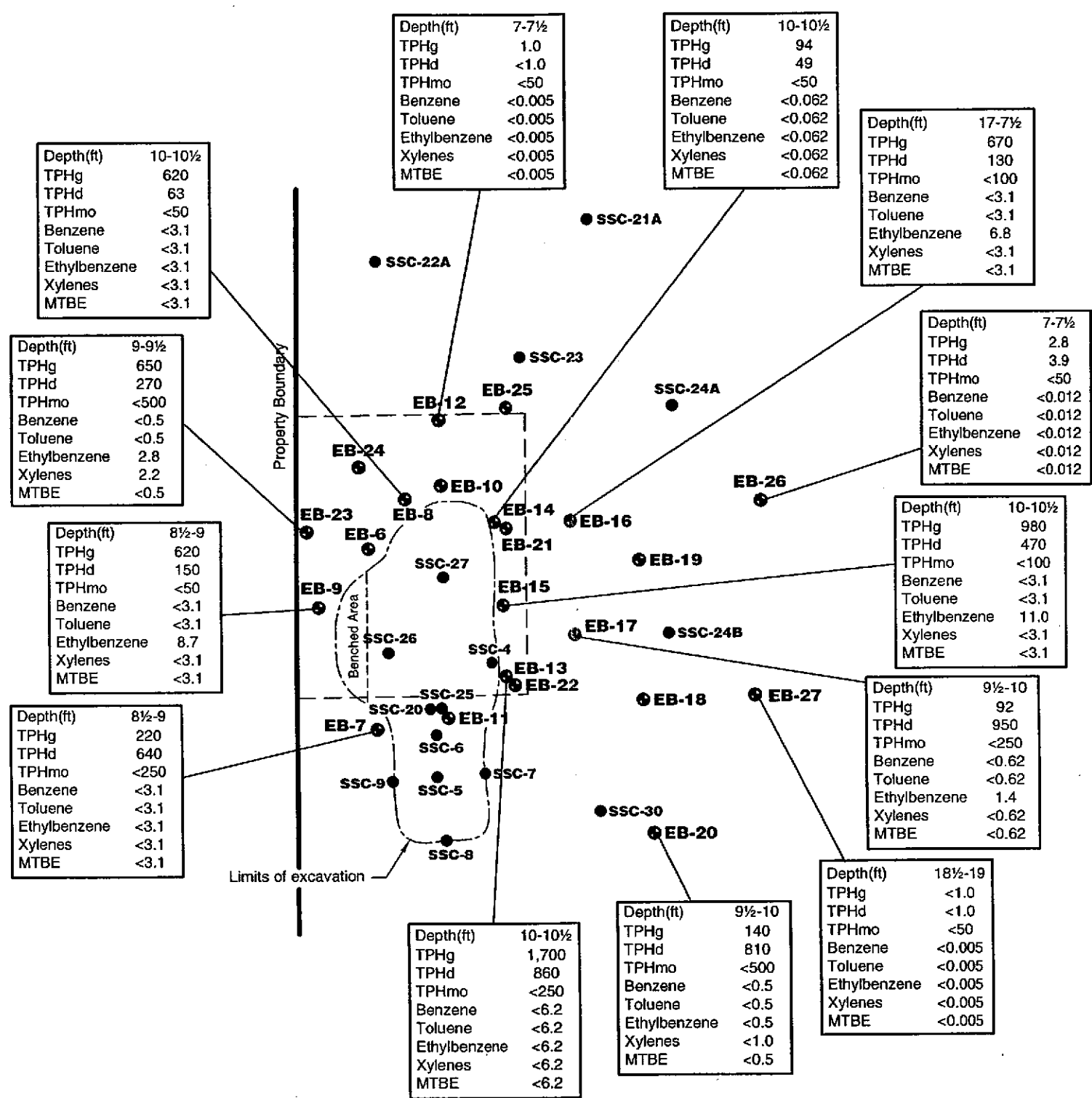


**SITE PLAN**  
 1269 66TH STREET, 1274 65TH STREET  
 Emeryville, California

**LOWNEY ASSOCIATES**  
 Environmental/Geotechnical/Engineering Services

**FIGURE 2**  
 1424-4B

Base approximated from Lowney Associates field notes.



**LEGEND**

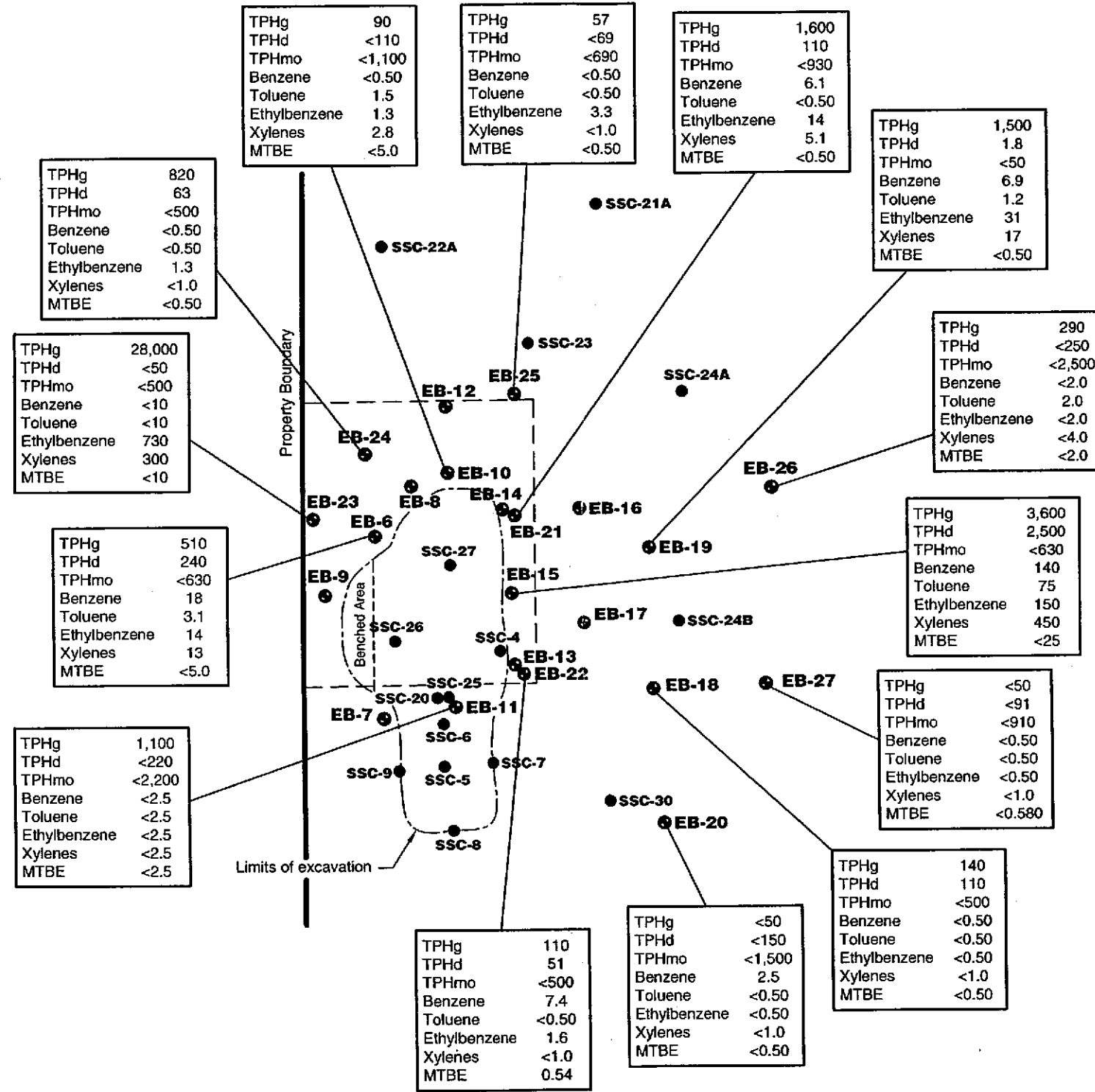
- - Approximate location of exploratory boring
  - - Approximate location of shallow soil samples
  - - Approximate location of former structures
  - < - Compound was not detected at or above the stated laboratory reporting limit
- Concentrations in parts per million (ppm)

**EXCAVATION DETAIL WITH ANALYTICAL RESULTS (SOIL)**  
 1269 66TH STREET, 1274 65TH STREET  
 Emeryville, California

**LOWNEY ASSOCIATES**  
 Environmental/Geotechnical/Engineering Services

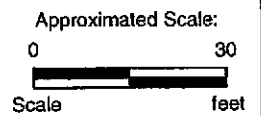
**FIGURE 3**  
1424-4B

Base approximated from Lowney Associates field notes.



**LEGEND**

- ⊙ - Approximate location of exploratory boring
  - - Approximate location of shallow soil samples
  - - Approximate location of former structures
  - < - Compound was not detected at or above the stated laboratory reporting limit
- Concentrations in parts per million (ppm)



**EXCAVATION DETAIL WITH ANALYTICAL RESULTS (GROUND WATER)**  
 1269 66TH STREET, 1274 65TH STREET  
 Emeryville, California

<b>LOWNEY ASSOCIATES</b> Environmental/Geotechnical/Engineering Services	<b>FIGURE 4</b>
	1424-4B

Base approximated from Lowney Associates field notes.

**APPENDIX A**  
**SAMPLING PERMIT, SUBSURFACE INVESTIGATION,**  
**AND SOIL SAMPLING PROTOCOL**

**Drilling:** The subsurface investigation was performed on February 11, and February 20 through 22, 2002 using a limited access rig equipped with Direct Push Technology equipment. Borings EB-6 through EB-20 and borings EB-23 through EB-27 were advanced by hydraulically driving a 2-inch-diameter by 4-foot-long open sampler with an interior clear acetate sample liner. After being driven to a depth of 4 feet, the sampler was retracted to the surface. Soil borings were drilled to depths of approximately 20 to 28 feet.

**Soil Sampling:** The soils were logged using the Unified Soil Classification System (ASTM D-2487). Soil vapors from each sample were monitored with an organic vapor meter (OVM). The soil was placed in a Ziplock™ bag for several minutes; the bag was then pierced with the OVM probe in order to record the organic vapor levels present. Soil samples for laboratory analysis were collected in brass or acetate liners. The ends of the liners were covered in aluminum foil or Teflon film, fitted with plastic end caps, taped, and labeled with a unique identification number. The samples then were then placed in an ice-chilled cooler and transported to a state-certified analytical laboratory with chain of custody documentation.

Soils encountered in the borings were logged using the Unified Soil Classification System (ASTM D-2487). The logs of the borings, as well as a key to the classification of soil (Figure A-1), are included as part of this appendix. Permits obtained for the borings are also included.

**Hydraulic Borings/Temporary Wells:** A hydropunch sampling device was used to collect ground water samples in borings EB-21 and EB-22. A hydropunch sampling device consisting of a stainless steel probe was advanced approximately 4 feet into the water-bearing zone. The probe then was then withdrawn several feet to expose an internal screen. A 3/8-inch polyethylene tube was inserted down the inside of the 1¼-inch drive rod to the screen zone. Borings EB-6, EB-10, EB-11, EB-15, EB-18, EB-19, EB-20, and EB-23 through EB-27 were converted into "temporary" wells with the installation of 1-inch I.D. flush-threaded, Schedule 40 PVC casing. The casing in the lower portion of the well had 0.02-inch factory machined slots.

To evaluate the ground water flow direction, the locations of temporary wells, relative to nearby landmarks, were established using a metered wheel.

**Ground Water Sampling:** Ground water grab samples were collected with a Teflon bailer. Samples were collected in appropriate sampled bottles, labeled, and immediately placed into an ice-chilled chest for delivery to a state-certified analytical laboratory for analysis.

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



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
390 ELMHURST ST. RAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1274 65th Street,
1269 66th Street
Emeryville, California

PERMIT NUMBER W02-0238
WELL NUMBER
APN

CLIENT Name Pulte Home Corporation
Address 7031 Kell Center Parkway, Suite 150
City Pleasanton, CA Zip 94566

PERMIT CONDITIONS
Circled Permit Requirements Apply

APPLICANT Name Lowney Associates
(Att: Mark Arniola) Fax (510) 247-1972
Address 167 Filbert Street Phone (510) 247-1970 ext 206
City Oakland, CA Zip 94607

A. GENERAL

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

B. WATER SUPPLY WELLS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 30 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout and mixture. Upper two-three feet replaced in kind or with compacted cavings.

E. CATHODIC

Fill hole annular zone with concrete placed by tremie.

F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

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

TYPE OF PROJECT

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

PROPOSED WATER SUPPLY WELL USE

New Domestic
Municipal
Industrial
Replacement Domestic
Irrigation
Other

DRILLING METHOD:

Mud Rotary
Cable
Air Rotary
Other
Geoprobe direct-push

DRILLER'S NAME Vironex

DRILLER'S LICENSE NO. 705927

WELL PROJECTS

Drill Hole Diameter
Casing Diameter
Surface Seal Depth
Maximum Depth
Owner's Well Number

GEOTECHNICAL PROJECTS

Number of Borings
Hole Diameter
Maximum Depth

ESTABLISHED STARTING DATE February 20, 2002
ESTABLISHED COMPLETION DATE February 28, 2002

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 71-15.

APPLICANT'S SIGNATURE Mark Arniola DATE 2/7/02

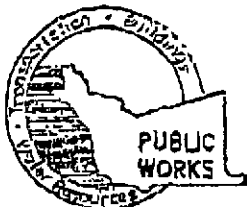
PLEASE PRINT NAME Mark Arniola

APPROVED

[Signature]

DATE 2-2002

FAXED 2-2002



# ALAMEDA COUNTY PUBLIC WORKS AGENCY

**WATER RESOURCES SECTION**  
399 ELMHURST ST. HAYWARD CA. 94544-1395  
PHONE (510) 670-5254  
FAX (510) 782-1939

## DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1274 65<sup>TH</sup> Street,  
1269 66<sup>TH</sup> Street  
Emeryville, California

PERMIT NUMBER W02-0152  
WELL NUMBER \_\_\_\_\_  
APN \_\_\_\_\_

PERMIT CONDITIONS  
Cited Permit Requirements Apply

CLIENT  
Name Pulte Home Corporation  
Address 7031 E. El Cerrito Parkway, #3150 Phone (925) 249-3200  
City Pleasanton, CA Zip 94566

### A. GENERAL

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

APPLICANT  
Name Lowway Associates  
(Att: Mark Arniola) Fax (510) 267-1972  
Address 167 Filbert Street Phone (510) 267-1970 x206  
City Oakland, CA Zip 94607

### B. WATER SUPPLY WELLS

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

### TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input checked="" type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input type="checkbox"/>

### C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

### PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

### D. GEOTECHNICAL

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

### DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>	Geoprobe direct-push	

### E. CATHODIC

Fill hole and cone with concrete placed by tremie.

DRILLER'S NAME Vironex

### F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

DRILLER'S LICENSE NO. 705927

### G. SPECIAL CONDITIONS

### WELL PROJECTS

Drill Hole Diameter	_____ in.	Maximum	_____ ft.
Casing Diameter	_____ in.	Depth	_____ ft.
Surface Seal Depth	_____ ft.	Owner's Well Number	_____

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

### GEOTECHNICAL PROJECTS

Number of Borings	<u>13</u>	Maximum	_____ ft.
Bore Diameter	<u>3</u> in.	Depth	<u>25</u> ft.

ESTIMATED STARTING DATE February 11, 2002  
ESTIMATED COMPLETION DATE February 11, 2002

APPROVED [Signature] DATE 2-17-02

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 3-45.

APPLICANT'S SIGNATURE Mark Arniola DATE 2/7/02

PLEASE PRINT NAME Mark Arniola Ac 3-13-00

# EXPLORATORY BORING: EB-6

Sheet 1 of 1

DRILL RIG:  
 BORING TYPE: DIRECT PUSH  
 LOGGED BY: CM  
 START DATE: 2-11-02      FINISH DATE: 2-11-02

PROJECT NO: 1424-4B  
 PROJECT: 1269 66TH ST., 1274 65TH ST.  
 LOCATION: EMERYVILLE, CA  
 COMPLETION DEPTH: 20.0 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	Undrained Shear Strength (ksf)							
										○ Pocket Penetrometer	△ Torvane	● Unconfined Compression	▲ U-U Triaxial Compression				
			SURFACE ELEVATION:											1.0	2.0	3.0	4.0
	0		Soil boring started at 4 feet below grade in excavated area														
	5	CLAY (CL) [FILL]	stiff, damp, dark brown, minor construction debris	CL		X			126								
		SANDY GRAVELLY CLAY (GC)	medium stiff, brown, strong petroleum odor	GC													
		SILTY SAND (SM)	green brown, strong petroleum odor	SM		X			525								
		GRAVELLY CLAY WITH SAND (CL) [FILL]	stiff, moist, gray-green, abundant debris (brick, concrete), moderate to strong petroleum odor	CL													
	10	CLAY (CL)	stiff, damp, brown	CL		X			123								
		FAT CLAY (CH)	stiff, damp, brown	CH					32.5								
		SILTY CLAY (CL)	stiff, damp, brown, minor sand	CL													
		CLAYEY GRAVEL (GC)	brown, damp	GC					8.7								
		FAT CLAY (CH)	stiff, damp, green mottles, minor sand (<5%)	SM													
		SILTY SAND (SM)	poorly graded, minor gravel	GC		X			8.5								
		GRAVELLY CLAY (CL)	stiff, wet, brown	GM													
		SILTY SANDY GRAVEL (GM)	Bottom of Boring at 20 feet														

GROUND WATER OBSERVATIONS:  
 ▽ : FREE GROUND WATER MEASURED DURING DRILLING AT 19.0 FEET  
 ▼ : FREE GROUND WATER MEASURED FOLLOWING DRILLING AT 12.0 FEET

LA CORP.GDT 6/12/02 MW\* EB

# EXPLORATORY BORING: EB-7

Sheet 1 of 1

DRILL RIG:  
 BORING TYPE: DIRECT PUSH  
 LOGGED BY: VMT  
 START DATE: 2-11-02      FINISH DATE: 2-11-02

PROJECT NO: 1424-4B  
 PROJECT: 1269 66TH ST., 1274 65TH ST.  
 LOCATION: EMERYVILLE, CA  
 COMPLETION DEPTH: 24.0 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	Undrained Shear Strength (ksf)							
										1.0	2.0	3.0	4.0				
	0		<b>SURFACE ELEVATION:</b>														
	0		<b>SANDY CLAY (CL) [FILL]</b>	CL													
	2		<b>CLAY (CL)</b> very stiff, moist, dark brown, slight petroleum odor	CL		X			10								
	4		<b>SILTY CLAY (CL-ML)</b> very stiff, moist, brown, slight petroleum odor	CL-ML		X			25								
	8		<b>SANDY CLAY (CL) [FILL]</b> stiff, moist, olive green, approximate 15% fine gravel, strong petroleum odor	CL		X			390								
	10		increasing clay with depth			X			11								
	13		<b>SILTY CLAY (CL-ML)</b> very stiff, moist, green with light brown mottling	CL-ML		X			70.3								
	16		<b>CLAY (CL)</b> stiff, moist, green with light brown mottling	CL		X			8.8								
	19		<b>CLAYEY SAND (SC)</b> loose, moist, light brown with green mottling, 10% coarse to fine gravels	SC		X			3.5								
	22		<b>FAT CLAY (CH)</b> medium stiff, moist, light brown with green mottling, increasing clay with depth	CH		X			3.9								
	24		Bottom of Boring at 24 feet			X											

**GROUND WATER OBSERVATIONS:**

∇: FREE GROUND WATER MEASURED DURING DRILLING AT 11.0 FEET

LA CORP GDT 6/5/02 MW\* EB



# EXPLORATORY BORING: EB-9

Sheet 1 of 1

DRILL RIG:  
BORING TYPE: DIRECT PUSH  
LOGGED BY: VMT  
START DATE: 2-11-02      FINISH DATE: 2-11-02

PROJECT NO: 1424-4B  
PROJECT: 1269 66TH ST., 1274 65TH ST.  
LOCATION: EMERYVILLE, CA  
COMPLETION DEPTH: 24.0 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	Undrained Shear Strength (ksf)				
			SURFACE ELEVATION:							○ Pocket Penetrometer	△ Torvane	● Unconfined Compression	▲ U-U Triaxial Compression	1.0   2.0   3.0   4.0
	0		<b>POORLY GRADED GRAVEL WITH SAND [FILL]</b>	GP										
			<b>CLAY (CL) [FILL]</b> stiff, moist, dark brown, slight petroleum odor	CL		X			9.2					
	5		<b>SANDY CLAY (CL) [FILL]</b> stiff, moist, green-brown, petroleum odor	CL		X			6.2					
			<b>SANDY CLAY (CL)</b> medium dense, moist, green-brown, strong petroleum odor	CL		X			1.6					
	10		increasing brown mottling			X			40.3					
			<b>CLAY (CL)</b> very stiff, moist, green with light brown mottling	CL		X			27.9					
	15		<b>CLAYEY SAND (SC)</b> medium dense, moist, light brown with green mottling, 15% fine gravel, 25% sand	SC		X			6.1					
	20		<b>CLAY (CL)</b> stiff, moist, light brown	CL		X			6.8					
	23.5		Bottom of Boring at 24 feet			X			4.5					

**GROUND WATER OBSERVATIONS:**

▽: FREE GROUND WATER MEASURED DURING DRILLING AT 23.5 FEET

LA CORP GDT 6/5/02 MV\* EB

# EXPLORATORY BORING: EB-10

Sheet 1 of 1

DRILL RIG:  
BORING TYPE: DIRECT PUSH  
LOGGED BY: CM  
START DATE: 2-11-02      FINISH DATE: 2-11-02

PROJECT NO: 1424-4B  
PROJECT: 1269 66TH ST., 1274 65TH ST.  
LOCATION: EMERYVILLE, CA  
COMPLETION DEPTH: 24.0 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	Undrained Shear Strength (ksf)								
										1.0	2.0	3.0	4.0					
	0		SURFACE ELEVATION:															
			Soil boring started at 4 feet below grade in excavated area															
	5		<b>SILTY CLAY (CL-ML)</b> stiff, damp, black, minor debris (brick, sand, gravel), moderate to strong petroleum odor	CL-ML		X			269									
			<b>GRAVELLY CLAY WITH SAND (CL)</b> stiff, moist, dark gray-green, strong petroleum odor	CL		X			56.9									
	10		<b>FAT CLAY (CH)</b> damp, gray green, strong petroleum odor decreasing with depth	CH		X			492									
			<b>CLAY (CL)</b> damp, brown with orange mottles, minor angular rock fragments, 5% fine grained sand	CL		X			30.1									
	15		<b>CLAY (CL)</b> damp, brown with orange mottles, minor angular rock fragments, 5% fine grained sand	CL		X			10.2									
			<b>GRAVELLY CLAY (CL)</b> medium stiff, wet, brown, more sand, clean, no visible contact	CL		X			3.1									
	20		<b>SILTY CLAY (CL-ML)</b> stiff, moist, minor rock fragments	CL-ML		X			1.9									
			<b>SILTY CLAY (CL-ML)</b> stiff, moist, minor rock fragments	CL-ML		X			2.8									
	25		Bottom of Boring at 24 feet			X			1.4									
	30																	

GROUND WATER OBSERVATIONS:  
▽ : FREE GROUND WATER MEASURED DURING DRILLING AT 19.5 FEET

LA CORP-GDT 6/12/02 MW\* EB

# EXPLORATORY BORING: EB-11

Sheet 1 of 1

DRILL RIG:  
BORING TYPE: DIRECT PUSH  
LOGGED BY: VMT  
START DATE: 2-11-02      FINISH DATE: 2-11-02

PROJECT NO: 1424-4B  
PROJECT: 1269 66TH ST., 1274 65TH ST.  
LOCATION: EMERYVILLE, CA  
COMPLETION DEPTH: 20.0 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

Undrained Shear Strength (ksf)  
○ Pocket Penetrometer  
△ Torvane  
● Unconfined Compression  
▲ U-U Triaxial Compression

ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	Undrained Shear Strength (ksf)
	0		SURFACE ELEVATION:							
	0		POORLY GRADED GRAVEL [FILL]	GP						
	0 - 4.5		FAT CLAY (CH) [FILL] very soft, very moist, dark brown, slight petroleum odor	CH		X			5.4	
	4.5 - 5.5		75% recovery			X			14.3	
	5.5 - 6.5		SANDY GRAVEL (GP) [FILL] loose, moist, light brown	GP		X				
	6.5 - 10.5		POORLY GRADED GRAVEL WITH SAND (GP) [FILL] stiff, moist, light brown with green mottling	GP		X			5.8	
	10.5 - 15.5		CLAY (CL) very stiff, moist, light brown with green mottling, up to 15% sand	CL		X			5.5	
	15.5 - 19.5					X			4.8	
	19.5 - 20.0					X			2.3	
	20.0		Bottom of Boring at 20 feet							

**GROUND WATER OBSERVATIONS:**

▽ : FREE GROUND WATER MEASURED DURING DRILLING AT 20.0 FEET

LA CORP.GDT. 6/12/02 MV\* EB

# EXPLORATORY BORING: EB-12

Sheet 1 of 1

DRILL RIG:  
BORING TYPE: DIRECT PUSH  
LOGGED BY: CM  
START DATE: 2-11-02      FINISH DATE: 2-11-02

PROJECT NO: 1424-4B  
PROJECT: 1269 66TH ST., 1274 65TH ST.  
LOCATION: EMERYVILLE, CA  
COMPLETION DEPTH: 24.0 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	Undrained Shear Strength (ksf)
	0		SURFACE ELEVATION: Soil boring started at 4 feet below grade in excavated area							
	5	SILTY CLAY (CL-ML) [FILL]	stiff, black, with minor debris, increasing with depth  more debris (gravel, brick)			X			1.5	
	10	gravel increasing, sand and debris, gray-green, no petroleum odor		CL-ML		X			3.9	
	15	FAT CLAY (CH)	medium stiff, brown, minor gray mottles	CH		X			1.7	
	20	SILTY CLAY (CL-ML)	brown, minor white gray mottles, ~5% sand, angular rock fragments	CL-ML		X			0.4	
	20.5	SANDY CLAY WITH GRAVEL (CL)		CL		X			1.2	
	21	SILTY CLAY (CL)	medium stiff, wet, brown	CL-ML		X			1.5	
	22	SANDY CLAY WITH GRAVEL (CL)	stiff, wet, brown	CL		X				
	23	SILTY CLAY (CL)	very stiff, wet, brown	CL-ML		X				
	24		Bottom of Boring at 24 feet							

Undrained Shear Strength (ksf)  
 ○ Pocket Penetrometer  
 △ Torvane  
 ● Unconfined Compression  
 ▲ U-U Triaxial Compression

GROUND WATER OBSERVATIONS:  
 ▽ : FREE GROUND WATER MEASURED DURING DRILLING AT 20.5 FEET

LA CORP.GDT 6/12/02.MV\* EB

# EXPLORATORY BORING: EB-13

Sheet 1 of 1

DRILL RIG:  
 BORING TYPE: DIRECT PUSH  
 LOGGED BY: VMT  
 START DATE: 2-11-02      FINISH DATE: 2-11-02

PROJECT NO: 1424-4B  
 PROJECT: 1269 66TH ST., 1274 65TH ST.  
 LOCATION: EMERYVILLE, CA  
 COMPLETION DEPTH: 20.0 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	Undrained Shear Strength (ksf)							
			SURFACE ELEVATION:							○ Pocket Penetrometer	△ Torvane	● Unconfined Compression	▲ U-U Triaxial Compression				
										1.0	2.0	3.0	4.0				
	0	(Pattern: Gravel/Sand)	<b>POORLY GRADED GRAVEL WITH SAND [FILL]</b> slight petroleum odor	GP		X			25.4								
	5					X			420								
	7.5					X			754								
	10	(Pattern: Diagonal Hatching)	<b>FAT CLAY (CH)</b> stiff, moist, green, strong odor	CH		X			31.2								
	11.2					X			11.2								
	12.8					X			128								
	17.2					X			17.2								
	20					X			10.4								
	24		Bottom of Boring at 24 feet														

GROUND WATER OBSERVATIONS:  
 ∇ : FREE GROUND WATER MEASURED DURING DRILLING AT 19.5 FEET

LA CORP. GDT 5/5/02 MV\* EB

# EXPLORATORY BORING: EB-14

Sheet 1 of 1

DRILL RIG:  
 BORING TYPE: DIRECT PUSH  
 LOGGED BY: CM  
 START DATE: 2-11-02      FINISH DATE: 2-11-02

PROJECT NO: 1424-4B  
 PROJECT: 1269 66TH ST., 1274 65TH ST.  
 LOCATION: EMERYVILLE, CA  
 COMPLETION DEPTH: 20.0 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	Undrained Shear Strength (ksf)				
			SURFACE ELEVATION:							○ Pocket Penetrometer	△ Torvane	● Unconfined Compression	▲ U-U Triaxial Compression	1.0   2.0   3.0   4.0
	0		Soil boring started at 4 feet below grade in excavated area											
	5		<b>CLAY (CL)</b> stiff, damp, black, minor debris (brick, gravel) (fill), moderate to strong petroleum odor	CL		X			352					
			<b>GRAVELLY CLAY WITH SAND (CL)</b> dark gray-green, debris (brick, concrete, gravel) moderate to strong petroleum odor	CL		X			160					
	10		9 to 10½ feet; green discoloration and moderate to strong petroleum odor			X			412					
			<b>FAT CLAY (CH)</b> stiff, damp, brown with green mottling	CH		X			4.5					
	15		<b>GRAVELLY CLAY (CL)</b> stiff, moist, brown and orange, some sand	GC		X								
			<b>FAT CLAY (CH)</b> stiff, moist, brown, minor rock fragments	CH		X			2.1					
	20		<b>SILTY CLAY (CL-ML)</b> <5% fine grained sand	CL-ML		X			1.0					
			<b>GRAVELLY CLAY (CL)</b> stiff, wet, brown and orange, ~10% sand	CL		X								
			Bottom of Boring at 20 feet											

**GROUND WATER OBSERVATIONS:**

▽: FREE GROUND WATER MEASURED DURING DRILLING AT 19.0 FEET

LA CORP. GDT 6/12/02 MV\* EB

# EXPLORATORY BORING: EB-15

Sheet 1 of 1

DRILL RIG:  
BORING TYPE: DIRECT PUSH  
LOGGED BY: VMT  
START DATE: 2-11-02      FINISH DATE: 2-11-02

PROJECT NO: 1424-4B  
PROJECT: 1269 66TH ST., 1274 65TH ST.  
LOCATION: EMERYVILLE, CA  
COMPLETION DEPTH: 16.0 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

Undrained Shear Strength (ksf)

- Pocket Penetrometer
- △ Torvane
- Unconfined Compression
- ▲ U-U Triaxial Compression

ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	1.0	2.0	3.0	4.0
	0		SURFACE ELEVATION:										
	0		<b>CLAY (CL) [FILL]</b> stiff, moist, dark brown, slight petroleum odor  green, strong odor	CL		X			1166				
	5		<b>POORLY GRADED GRAVEL WITH SAND (GP) [FILL]</b> moist, green, strong petroleum odor	GP		X			1450				
	10		<b>FAT CLAY (CH)</b> stiff, moist, light brown with green mottling	CH		X			1305				
	10		<b>CLAYEY SAND (SC)</b> medium dense, moist, green	SC		X							
	15		<b>FAT CLAY (CH)</b> stiff, moist, light brown with green mottling  50% recovery	CH		X			20.3				
	15	▽	Bottom of Boring at 16 feet			X			65				
	20												
	25												
	30												

**GROUND WATER OBSERVATIONS:**

▽ : FREE GROUND WATER MEASURED DURING DRILLING AT 15.0 FEET

LA CORP.GDT 6/5/02 MV-EB

# EXPLORATORY BORING: EB-16

Sheet 1 of 1

DRILL RIG:  
BORING TYPE: DIRECT PUSH  
LOGGED BY: CM  
START DATE: 2-11-02      FINISH DATE: 2-11-02

PROJECT NO: 1424-4B  
PROJECT: 1269 66TH ST., 1274 65TH ST.  
LOCATION: EMERYVILLE, CA  
COMPLETION DEPTH: 28.0 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	Undrained Shear Strength (ksf)
			SURFACE ELEVATION:							○ Pocket Penetrometer △ Torvane ● Unconfined Compression ▲ U-U Triaxial Compression
										1.0    2.0    3.0    4.0
	0		Soil boring started at 4 feet below grade in excavated area							
	5	CLAY (CL)	stiff, moist, minor debris increasing with depth	CL		X			61.2	
		GRAVELLY CLAY (CL)	green and brown mottled, gray sand, abundant debris (brick, concrete)  moderate to strong petroleum odor	CL		X			984	
	10	FAT CLAY (CH)	stiff, damp, brown, some gray-greenish spots-mottles, no odor	CH		X			503	
		GRAVELLY CLAY (CL)	very stiff, moist, brown-gray mottles	CL		X			5.4	
	15	SILTY CLAY (CL-ML)	very stiff, moist, brown with some irregular green particles	CL-ML		X			15.2	
	20	CLAYEY GRAVEL (GC)	wet, brown with gray-green clasts, minor sand	GC		X			4.8	
		FAT CLAY (CH)	stiff, moist, brown, minor rock fragments some irregular green mottles	CH		X			14.5	
	25					X			8.2	
						X			5.6	
	30		Bottom of Boring at 28 feet							

**GROUND WATER OBSERVATIONS:**

∇: FREE GROUND WATER MEASURED DURING DRILLING AT 21.5 FEET

LA. CORP. GDT. 6/12/02 MV\* EB



# EXPLORATORY BORING: EB-17

Sheet 1 of 1

DRILL RIG:  
 BORING TYPE: DIRECT PUSH  
 LOGGED BY: VMT  
 START DATE: 2-11-02      FINISH DATE: 2-11-02

PROJECT NO: 1424-4B  
 PROJECT: 1269 66TH ST., 1274 65TH ST.  
 LOCATION: EMERYVILLE, CA  
 COMPLETION DEPTH: 20.0 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	Undrained Shear Strength (ksf)
	0		SURFACE ELEVATION:							
	0		<b>CLAY (CL) [FILL]</b> stiff, moist, dark brown, slight petroleum odor	CL						
	5		<b>POORLY GRADED GRAVEL WITH SAND (GP) [FILL]</b> medium dense, moist, green with light brown mottling strong petroleum odor	GP		X			275	
	10		<b>FAT CLAY (CH)</b> soft, very moist, light brown	CH		X			504	
	15					X			21.5	
	20					X			10.5	
	25					X			8.9	
	30									
			Bottom of Boring at 20 feet							

- Undrained Shear Strength (ksf)
- Pocket Penetrometer
  - △ Torvane
  - Unconfined Compression
  - ▲ U-U Triaxial Compression
- 1.0   2.0   3.0   4.0

**GROUND WATER OBSERVATIONS:**

▽: FREE GROUND WATER MEASURED DURING DRILLING AT 15.0 FEET

LA CORP. GDT. 6/12/02 MV\* EB

# EXPLORATORY BORING: EB-18

Sheet 1 of 1

DRILL RIG:  
 BORING TYPE: DIRECT PUSH  
 LOGGED BY: VMT  
 START DATE: 2-20-02      FINISH DATE: 2-20-02

PROJECT NO: 1424-4B  
 PROJECT: 1269 66TH ST., 1274 65TH ST.  
 LOCATION: EMERYVILLE, CA  
 COMPLETION DEPTH: 28.0 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	Undrained Shear Strength (ksf)
	0		SURFACE ELEVATION:							
	0		<b>FAT CLAY (CH) [FILL]</b> stiff, very moist, dark brown	CH		X			10.8	
	0		<b>POORLY GRADED SAND (SP) [FILL]</b> stiff, moist, green, 15% fine to coarse sands, slight petroleum odor	SP		X			83.4	
	5		<b>CLAYEY SAND (SC)</b> very soft, very moist, light brown, slight petroleum odor stiff, moist, light brown	SC		X			125	
	10		increasing clay with depth			X			4.7	
	10		<b>CLAY (CH)</b> soft, very moist, light brown	CH		X			5.8	
	15		debris (brick, concrete)			X			6.8	
	20		soft, wet, 80% recovery	CH		X			6.1	
	20					X			4.2	
	25					X				
	30		Bottom of Boring at 28 feet			X				

- Undrained Shear Strength (ksf)
- Pocket Penetrometer
  - △ Torvane
  - Unconfined Compression
  - ▲ U-U Triaxial Compression
- 1.0    2.0    3.0    4.0

**GROUND WATER OBSERVATIONS:**

▽ : FREE GROUND WATER MEASURED DURING DRILLING AT 21.5 FEET

LA. CORP. GDT. 6/5/02.MV" EB

# EXPLORATORY BORING: EB-19

Sheet 1 of 1

DRILL RIG:  
BORING TYPE: DIRECT PUSH  
LOGGED BY: VMT  
START DATE: 2-20-02      FINISH DATE: 2-20-02

PROJECT NO: 1424-4B  
PROJECT: 1269 66TH ST., 1274 65TH ST.  
LOCATION: EMERYVILLE, CA  
COMPLETION DEPTH: 28.0 FT.

This log is a part of a report by Lawney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

Undrained Shear Strength (ksf)

- Pocket Penetrometer
- △ Torvane
- Unconfined Compression
- ▲ U-U Triaxial Compression

ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	UNDRAINED SHEAR STRENGTH (ksf)
			SURFACE ELEVATION:							
	0		<b>CLAY (CL) [FILL]</b> stiff, moist, green	CL		X			2.5	
			<b>CLAYEY SAND (SC) [FILL]</b> dense, moist, green			X			13.6	
	5		75% recovery, strong petroleum odor	SC		X			38.4	
						X			98.9	
	10		<b>CLAYEY GRAVEL (GC)</b> very stiff, very moist, light brown, up to 15% coarse sand	GC		X			5.4	
			<b>FAT CLAY (CH)</b> very stiff, very moist, light brown	CH		X			15.2	
	15		<b>CLAYEY GRAVEL (GC)</b> very stiff, very moist, light brown, 15% coarse sands	GC		X			1.2	
			<b>FAT CLAY (CH)</b> very soft, very moist, light brown	CH		X			1.1	
	20		<b>CLAY (CL)</b> soft, wet, light brown	CL		X			2.4	
			<b>POORLY GRADED SAND (SP)</b> stiff, wet, light brown	SP		X			1.2	
	25									
	30		Bottom of Boring at 28 feet							

**GROUND WATER OBSERVATIONS:**

▽: FREE GROUND WATER MEASURED DURING DRILLING AT 20.9 FEET

LA CORP. GDT 6/5/02 MV\* EB

# EXPLORATORY BORING: EB-20

Sheet 1 of 1

DRILL RIG:  
 BORING TYPE: DIRECT PUSH  
 LOGGED BY: VMT  
 START DATE: 2-20-02      FINISH DATE: 2-20-02

PROJECT NO: 1424-4B  
 PROJECT: 1269 66TH ST., 1274 65TH ST.  
 LOCATION: EMERYVILLE, CA  
 COMPLETION DEPTH: 23.5 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	Undrained Shear Strength (ksf)
			SURFACE ELEVATION:							
	0		<b>FAT CLAY (CH) [FILL]</b> stiff, damp, dark brown	CH		X			1.8	
	0		<b>POORLY GRADED GRAVEL WITH SAND (GP) [FILL]</b> very stiff, slightly moist, green, fine to coarse sands, fine gravels, strong petroleum odor	GP		X			25.2	
	5					X			428	
	5		<b>FAT CLAY (CH)</b> light brown	CH		X			24.5	
	10		<b>CLAY (CL)</b> stiff, moist, light brown, 75% recovery	CL		X			6.1	
	15		very stiff, light brown, 10% sands			X			6.4	
	20		orange mottling			X			5.4	
	23.5		Bottom of Boring at 23½ feet							

- Undrained Shear Strength (ksf)
- Pocket Penetrometer
  - △ Torvane
  - Unconfined Compression
  - ▲ U-U Triaxial Compression

GROUND WATER OBSERVATIONS:  
 ∇: FREE GROUND WATER MEASURED DURING DRILLING AT 18.2 FEET

LA CORP GDT 6/5/02 MV\* EB

# EXPLORATORY BORING: EB-23

Sheet 1 of 1

DRILL RIG:  
 BORING TYPE: DIRECT PUSH  
 LOGGED BY: VMT  
 START DATE: 2-21-02      FINISH DATE: 2-21-02

PROJECT NO: 1424-4B  
 PROJECT: 1269 66TH ST., 1274 65TH ST.  
 LOCATION: EMERYVILLE, CA  
 COMPLETION DEPTH: 20.0 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	Undrained Shear Strength (ksf)							
			SURFACE ELEVATION:							○ Pocket Penetrometer	△ Torvane	● Unconfined Compression	▲ U-U Triaxial Compression				
										1.0	2.0	3.0	4.0				
	0	CLAY (CL) [FILL]	stiff, moist, dark brown	CL		X			108								
		POORLY GRADED GRAVEL WITH SAND (GP) [FILL]	stiff, moist, green, slight petroleum odor	GP		X			54.6								
	5	FAT CLAY (CH)	very stiff, moist, light brown	CH		X			605								
	10	CLAY (CL)	medium stiff, moist, green, 15% sands, strong petroleum odor	CL		X			16.9								
	15	CLAYEY SAND (SC)	medium dense, moist, green	SC		X			424								
		CLAY (CL)	medium stiff, moist, green	CL		X			15.2								
		CLAYEY SAND (SC)	medium dense, very moist, brown	SC		X			4.2								
	20	FAT CLAY (CH)	medium stiff, very moist, brown	CH		X											
			Bottom of Boring at 20 feet														

GROUND WATER OBSERVATIONS:  
 ∇: FREE GROUND WATER MEASURED DURING DRILLING AT 18.5 FEET

LA CORP GDT 6/5/02 MV-EB

# EXPLORATORY BORING: EB-24

Sheet 1 of 1

DRILL RIG:  
 BORING TYPE: DIRECT PUSH  
 LOGGED BY: VMT  
 START DATE: 2-21-02      FINISH DATE: 2-21-02

PROJECT NO: 1424-4B  
 PROJECT: 1269 66TH ST., 1274 65TH ST.  
 LOCATION: EMERYVILLE, CA  
 COMPLETION DEPTH: 28.0 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	Undrained Shear Strength (ksf)
			SURFACE ELEVATION:							
	0		<b>CLAY (CL)</b> very stiff, moist, dark brown	CL		X			3.8	
	5		<b>CLAYEY SAND (SC)</b> dense, moist, green  medium dense, moist, green, slight petroleum odor, 80% recovery	SC		X			7.2	
	10		<b>FAT CLAY (CH)</b> stiff, moist, light brown with green mottles, decreasing mottling with depth	CH		X			105	
	15					X			17.2	
	20					X			2.4	
	25					X			2.2	
	28		<b>CLAYEY GRAVEL (GC)</b> medium dense, very moist, light brown	GC		X			20	
	28		Bottom of Boring at 28 feet			X			7.6	
	30					X			1.5	

- Undrained Shear Strength (ksf)
- Pocket Penetrometer
  - △ Torvane
  - Unconfined Compression
  - ▲ U-U Triaxial Compression
- 1.0    2.0    3.0    4.0

GROUND WATER OBSERVATIONS:  
 ▽: FREE GROUND WATER MEASURED DURING DRILLING AT 23.0 FEET

LA CORP. GDT. 6/5/02 MW EB

# EXPLORATORY BORING: EB-25

Sheet 1 of 1

DRILL RIG:  
BORING TYPE: DIRECT PUSH  
LOGGED BY: VMT  
START DATE: 2-21-02      FINISH DATE: 2-21-02

PROJECT NO: 1424-4B  
PROJECT: 1269 66TH ST., 1274 65TH ST.  
LOCATION: EMERYVILLE, CA  
COMPLETION DEPTH: 28.0 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	Undrained Shear Strength (ksf)								
										1.0	2.0	3.0	4.0					
	0		SURFACE ELEVATION:															
	0	CLAY (CL) [FILL]	stiff, moist, dark brown	CL		X			1.9									
	5	CLAYEY SAND (SC) [FILL]	stiff, moist, green, slight petroleum odor	SC		X			12.0									
	10	FAT CLAY (CH)	stiff, moist, brown with green mottles	CH		X			4.2									
	15			CH		X			7.0									
	20			CH		X			3.2									
	23	CLAYEY GRAVEL WITH SAND (GC)	very moist, brown, >15% sand	GC		X			1.2									
	25	FAT CLAY (CH)	stiff, moist, light brown	CH		X			2.3									
	28		Bottom of Boring at 28 feet			X			1.7									

**GROUND WATER OBSERVATIONS:**

▽ : FREE GROUND WATER MEASURED DURING DRILLING AT 23.0 FEET

LA. CORP. GDT 6/5/02 MV\* EB

# EXPLORATORY BORING: EB-26

Sheet 1 of 1

DRILL RIG:  
BORING TYPE: DIRECT PUSH  
LOGGED BY: VMT  
START DATE: 2-22-02      FINISH DATE: 2-22-02

PROJECT NO: 1424-4B  
PROJECT: 1269 66TH ST., 1274 65TH ST.  
LOCATION: EMERYVILLE, CA  
COMPLETION DEPTH: 23.5 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

Undrained Shear Strength (ksf)

- Pocket Penetrometer
- △ Torvane
- Unconfined Compression
- ▲ U-U Triaxial Compression

ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	Undrained Shear Strength (ksf)			
			SURFACE ELEVATION:							1.0	2.0	3.0	4.0
	0		<b>FAT CLAY (CH) [FILL]</b> stiff, moist, dark brown	CH		X			1.2				
			increasing sand with depth										
			<b>CLAYEY SAND (SC) [FILL]</b> stiff, moist, green, slight petroleum odor	SC		X			17.8				
	5					X			0.7				
			<b>CLAY (CL)</b> stiff, moist, light brown	CL		X			5.2				
	10					X			4.9				
			<b>FAT CLAY (CH)</b> medium soft, moist, light brown	CH		X			1.1				
			<b>SILTY SAND (SM)</b> medium dense, moist, green with orange mottling 75% recovery	SM		X			1.5				
	15					X			1.2				
			<b>CLAYEY SAND (SC)</b> medium dense, very moist, light brown	SC		X							
	20												
	25		Bottom of Boring at 23½ feet										
	30												

**GROUND WATER OBSERVATIONS:**

▽ : FREE GROUND WATER MEASURED DURING DRILLING AT 18.0 FEET

LA CORP. GDT. 6/5/02 MV\* EB



# EXPLORATORY BORING: EB-27

Sheet 1 of 1

DRILL RIG:  
 BORING TYPE: DIRECT PUSH  
 LOGGED BY: VMT  
 START DATE: 2-22-02      FINISH DATE: 2-22-02

PROJECT NO: 1424-4B  
 PROJECT: 1269 66TH ST., 1274 65TH ST.  
 LOCATION: EMERYVILLE, CA  
 COMPLETION DEPTH: 20.0 FT.

ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	Undrained Shear Strength (ksf)
			This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.							○ Pocket Penetrometer △ Torvane ● Unconfined Compression ▲ U-U Triaxial Compression
			SURFACE ELEVATION:							1.0   2.0   3.0   4.0
	0		<b>FAT CLAY (CH) [FILL]</b> soft, very moist, dark brown	CH		X			0.6	
	5		<b>CLAYEY SAND (SC) [FILL]</b> dense, moist, green, minor debris (brick/concrete)	FILL		X			1.6	
	10		<b>CLAY (CL)</b> stiff, moist, light brown (up to 15% sand)	CL		X			0.1	
	15		<b>FAT CLAY (CH)</b> soft, moist, light brown	CH		X			2.1	
	15		<b>CLAYEY SAND (SC)</b> medium dense, very moist to wet, light brown	SC		X			3.4	
	20		Bottom of Boring at 20 feet						1.1	
	25									
	30									

GROUND WATER OBSERVATIONS:  
 ∇: FREE GROUND WATER MEASURED DURING DRILLING AT 15.0 FEET

LA CORP.GDT 6/5/02 MV-EB

**APPENDIX B  
ANALYTICAL RESULTS**

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

Submission #: 2002-01-0175

Date: January 18, 2002

**SEVERN  
TRENT  
SERVICES**

**Lowney & Associates Oakland**

167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-4  
1269 66th Street, 1274 65th Street

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mr. Arniola,

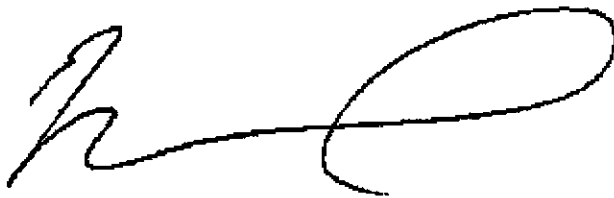
Attached is our report for your samples received on Friday January 11, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
February 25, 2002 unless you have requested otherwise.

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

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

Sincerely,



Vincent Vancil  
Project Manager

Submission #: 2002-01-0175

Halogenated Volatile Organic Compounds by 8021B/8260B

**SEVERN  
TRENT  
SERVICES**

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Lowney & Associates Oakland**

✉ 167 Filbert Street  
Oakland, Ca 94607

Attn: Mark Arniola

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

1424-4

Project: 1269 66th Street, 1274 65th

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SS-1	Soil	01/10/2002 14:00	1
SS-2	Soil	01/10/2002 14:00	2
SS-3	Soil	01/10/2002 14:10	3

## Halogenated Volatile Organic Compounds by 8021B/8260B

Lowney &amp; Associates Oakland

Test Method: 8260B

Attn: Mark Arniola

Prep Method: 5030B/5035

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

 Sample ID: **SS-1**  
 Project: 1424-4  
 1269 66th Street, 1274 65th Street  
 Sampled: 01/10/2002 14:00  
 Matrix: Soil

 Lab Sample ID: 2002-01-0175-001  
 Received: 01/11/2002 17:48  
 Extracted: 01/15/2002 18:10  
 QC-Batch: 2002/01/15-01.06

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	01/15/2002 18:10	
Vinyl chloride	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
Chloroethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
Methylene chloride	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
Chloroform	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
Trichloroethene	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
Chlorobenzene	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
Bromoform	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
Chloromethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
Bromomethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:10	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	116.7	74-121	%	1.00	01/15/2002 18:10	
1,2-Dichloroethane-d4	116.1	70-121	%	1.00	01/15/2002 18:10	
Toluene-d8	107.6	81-117	%	1.00	01/15/2002 18:10	

Halogenated Volatile Organic Compounds by 8021B/8260B

Lowney & Associates Oakland

Test Method: 8260B

Attn: Mark Arniola

Prep Method: 5030B/5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SS-2</b>	Lab Sample ID: 2002-01-0175-002
Project: 1424-4 1269 66th Street, 1274 65th Street	Received: 01/11/2002 17:48
Sampled: 01/10/2002 14:00	Extracted: 01/15/2002 18:46
Matrix: Soil	QC-Batch: 2002/01/15-01.06

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	01/15/2002 18:46	
Vinyl chloride	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
Chloroethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
Methylene chloride	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
Chloroform	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
Trichloroethene	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
Chlorobenzene	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
Bromoform	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
Chloromethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
Bromomethane	ND	5.0	ug/Kg	1.00	01/15/2002 18:46	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	116.5	74-121	%	1.00	01/15/2002 18:46	
1,2-Dichloroethane-d4	113.3	70-121	%	1.00	01/15/2002 18:46	
Toluene-d8	104.0	81-117	%	1.00	01/15/2002 18:46	

Submission #: 2002-01-0175



Halogenated Volatile Organic Compounds by 8021B/8260B

Lowney & Associates Oakland

Test Method: 8260B

Attn: Mark Arniola

Prep Method: 5030B/5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SS-3</b>	Lab Sample ID: 2002-01-0175-003
Project: 1424-4 1269 66th Street, 1274 65th Street	Received: 01/11/2002 17:48
Sampled: 01/10/2002 14:10	Extracted: 01/15/2002 19:23
Matrix: Soil	QC-Batch: 2002/01/15-01.06

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	01/15/2002 19:23	
Vinyl chloride	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
Chloroethane	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
Methylene chloride	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
Chloroform	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
Trichloroethene	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
Chlorobenzene	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
Bromoform	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
Chloromethane	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
Bromomethane	ND	5.0	ug/Kg	1.00	01/15/2002 19:23	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	117.3	74-121	%	1.00	01/15/2002 19:23	
1,2-Dichloroethane-d4	107.9	70-121	%	1.00	01/15/2002 19:23	
Toluene-d8	104.2	81-117	%	1.00	01/15/2002 19:23	

Halogenated Volatile Organic Compounds by 8021B/8260B

Batch QC report

Test Method: 8260B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/01/15-01.06</b>
MB: 2002/01/15-01.06-006		Date Extracted: 01/15/2002 13:20

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Bromodichloromethane	ND	5.0	ug/Kg	01/15/2002 13:20	
Bromoform	ND	5.0	ug/Kg	01/15/2002 13:20	
Bromomethane	ND	10	ug/Kg	01/15/2002 13:20	
Carbon tetrachloride	ND	5.0	ug/Kg	01/15/2002 13:20	
Chlorobenzene	ND	5.0	ug/Kg	01/15/2002 13:20	
Chloroethane	ND	10	ug/Kg	01/15/2002 13:20	
2-Chloroethylvinyl ether	ND	50	ug/Kg	01/15/2002 13:20	
Chloroform	ND	5.0	ug/Kg	01/15/2002 13:20	
Chloromethane	ND	10	ug/Kg	01/15/2002 13:20	
Dibromochloromethane	ND	5.0	ug/Kg	01/15/2002 13:20	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	01/15/2002 13:20	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	01/15/2002 13:20	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	01/15/2002 13:20	
Dichlorodifluoromethane	ND	10	ug/Kg	01/15/2002 13:20	
1,1-Dichloroethane	ND	5.0	ug/Kg	01/15/2002 13:20	
1,2-Dichloroethane	ND	5.0	ug/Kg	01/15/2002 13:20	
1,1-Dichloroethene	ND	5.0	ug/Kg	01/15/2002 13:20	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	01/15/2002 13:20	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	01/15/2002 13:20	
1,2-Dichloropropane	ND	5.0	ug/Kg	01/15/2002 13:20	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	01/15/2002 13:20	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	01/15/2002 13:20	
Methylene chloride	ND	5.0	ug/Kg	01/15/2002 13:20	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	01/15/2002 13:20	
Tetrachloroethene	ND	5.0	ug/Kg	01/15/2002 13:20	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	01/15/2002 13:20	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	01/15/2002 13:20	
Trichloroethene	ND	5.0	ug/Kg	01/15/2002 13:20	
Trichlorofluoromethane	ND	5.0	ug/Kg	01/15/2002 13:20	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	01/15/2002 13:20	
Vinyl chloride	ND	5.0	ug/Kg	01/15/2002 13:20	
<b>Surrogate(s)</b>					
4-Bromofluorobenzene	117.5	74-121	%	01/15/2002 13:20	
1,2-Dichloroethane-d4	108.4	70-121	%	01/15/2002 13:20	
Toluene-d8	106.1	81-117	%	01/15/2002 13:20	



Submission #: 2002-01-0175



Halogenated Volatile Organic Compounds by 8021B/8260B

Batch QC report

Test Method: 8260B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/01/15-01.06**  
 LCS: 2002/01/15-01.06-004 Extracted: 01/15/2002 12:08 Analyzed: 01/15/2002 12:08  
 LCSD: 2002/01/15-01.06-005 Extracted: 01/15/2002 12:44 Analyzed: 01/15/2002 12:44

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

CA DHS ELAP#1094

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Chlorobenzene	108	113	100.0	100.0	108.0	113.0	4.5	61-121	20		
1,1-Dichloroethene	101	102	100.0	100.0	101.0	102.0	1.0	65-125	20		
Trichloroethene	106	111	100.0	100.0	106.0	111.0	4.6	74-134	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	578	587	500	500	115.6	117.4		74-121			
1,2-Dichloroethane-d4	511	549	500	500	102.2	109.8		70-121			
Toluene-d8	505	519	500	500	101.0	103.8		81-117			

Submission #: 2002-01-0175

Gas/BTEX Compounds by 8015M/8021

**SEVERN  
TRENT  
SERVICES**

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4	Project: 1269 66th Street, 1274 65th

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SS-2	Soil	01/10/2002 14:00	2
SS-3	Soil	01/10/2002 14:10	3

Submission #: 2002-01-0175



Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Test Method: 8021B  
8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Attn: Mark Arniola

Prep Method: 5035

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

CA DHS ELAP#1094

Sample ID: <b>SS-2</b>	Lab Sample ID: 2002-01-0175-002
Project: 1424-4 1269 66th Street, 1274 65th Street	Received: 01/11/2002 17:48
Sampled: 01/10/2002 14:00	Extracted: 01/16/2002 00:28
Matrix: Soil	QC-Batch: 2002/01/15-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	3.8	1.0	mg/Kg	1.00	01/16/2002 00:28	g
Benzene	ND	0.0050	mg/Kg	1.00	01/16/2002 00:28	
Toluene	ND	0.0050	mg/Kg	1.00	01/16/2002 00:28	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/16/2002 00:28	
Xylene(s)	ND	0.0050	mg/Kg	1.00	01/16/2002 00:28	
MTBE	ND	0.0050	mg/Kg	1.00	01/16/2002 00:28	
<b>Surrogate(s)</b>						
Trifluorotoluene	84.9	53-125	%	1.00	01/16/2002 00:28	
4-Bromofluorobenzene-FID	96.4	58-124	%	1.00	01/16/2002 00:28	

Submission #: 2002-01-0175



Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Test Method: 8021B  
8015M

Attn: Mark Arniola

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SS-3</b>	Lab Sample ID: 2002-01-0175-003
Project: 1424-4 1269 66th Street, 1274 65th Street	Received: 01/11/2002 17:48
Sampled: 01/10/2002 14:10	Extracted: 01/16/2002 00:59
Matrix: Soil	QC-Batch: 2002/01/15-01.03

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	01/16/2002 00:59	
Benzene	ND	0.0050	mg/Kg	1.00	01/16/2002 00:59	
Toluene	ND	0.0050	mg/Kg	1.00	01/16/2002 00:59	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/16/2002 00:59	
Xylene(s)	ND	0.0050	mg/Kg	1.00	01/16/2002 00:59	
MTBE	ND	0.0050	mg/Kg	1.00	01/16/2002 00:59	
<b>Surrogate(s)</b>						
Trifluorotoluene	68.6	53-125	%	1.00	01/16/2002 00:59	
Trifluorotoluene-FID	79.3	53-125	%	1.00	01/16/2002 00:59	

Submission #: 2002-01-0175

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M  
8021B

Prep Method: 5035

SEVERN  
TRENT  
SERVICES

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Method Blank

Soil

QC Batch # 2002/01/15-01.03

MB: 2002/01/15-01.03-002

Date Extracted: 01/15/2002 09:59

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	01/15/2002 09:59	
Benzene	ND	0.0050	mg/Kg	01/15/2002 09:59	
Toluene	ND	0.0050	mg/Kg	01/15/2002 09:59	
Ethyl benzene	ND	0.0050	mg/Kg	01/15/2002 09:59	
Xylene(s)	ND	0.0050	mg/Kg	01/15/2002 09:59	
MTBE	ND	0.0050	mg/Kg	01/15/2002 09:59	
<b>Surrogate(s)</b>					
Trifluorotoluene	90.2	53-125	%	01/15/2002 09:59	
4-Bromofluorobenzene-FID	103.5	58-124	%	01/15/2002 09:59	

Submission #: 2002-01-0175



Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/01/15-01.03**  
 LCS: 2002/01/15-01.03-003 Extracted: 01/15/2002 10:30 Analyzed: 01/15/2002 10:30  
 LCSD: 2002/01/15-01.03-004 Extracted: 01/15/2002 11:01 Analyzed: 01/15/2002 11:01

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery			RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]		Recover	RPD	LCS	LCSD
Benzene	0.0934	0.0886	0.1000	0.1000	93.4	88.8	5.3		77-123	35		
Toluene	0.0907	0.0879	0.1000	0.1000	90.7	87.9	3.1		78-122	35		
Ethyl benzene	0.0925	0.0904	0.1000	0.1000	92.5	90.4	2.3		70-130	35		
Xylene(s)	0.261	0.256	0.300	0.300	87.0	85.3	2.0		75-125	35		
<b>Surrogate(s)</b>												
Trifluorotoluene	437	409	500	500	87.4	81.8			53-125			

Submission #: 2002-01-0175



Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/01/15-01.03  
LCS: 2002/01/15-01.03-005 Extracted: 01/15/2002 11:33 Analyzed: 01/15/2002 11:33  
LCSD: 2002/01/15-01.03-006 Extracted: 01/15/2002 12:04 Analyzed: 01/15/2002 12:04

Tel 925 484 1819  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.487	0.477	0.500	0.500	97.4	95.4	2.1	75-125	35		
<i>Surrogate(s)</i>											
4-Bromofluorobenzene	485	478	500	500	97.0	95.6		58-124			

Submission #: 2002-01-0175

**SEVERN  
TRENT  
SERVICES**

Gas/BTEX Compounds by 8015M/8021

**Legend & Notes**

Test Method: 8021B  
8015M

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Analyte Flags**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard



Submission #: 2002-01-0175

Gas/BTEX Compounds (High Level)

**SEVERN**  
**TRENT**  
**SERVICES**

**Lowney & Associates Oakland**

☒ 167 Filbert Street  
Oakland, Ca 94607

Attn: Mark Arniola  
1424-4

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

Project: 1269 66th Street, 1274 65th

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

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SS-1	Soil	01/10/2002 14:00	1

Submission #: 2002-01-0175



Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Test Method: 8021B  
8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Attn: Mark Arniola

Prep Method: 5030

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

CA DHS ELAP#1094

Sample ID: <b>SS-1</b>	Lab Sample ID: 2002-01-0175-001
Project: 1424-4 1269 66th Street, 1274 65th Street	Received: 01/11/2002 17:48
Sampled: 01/10/2002 14:00	Extracted: 01/14/2002 20:49
Matrix: Soil	QC-Batch: 2002/01/14-05.03

Compound	Result	Rep. Limit	Units	Dilution	Analyzed	Flag
Gasoline	38	10	mg/Kg	1.00	01/15/2002 20:49	g
Benzene	ND	0.62	mg/Kg	1.00	01/15/2002 20:49	
Toluene	ND	0.62	mg/Kg	1.00	01/15/2002 20:49	
Ethyl benzene	ND	0.62	mg/Kg	1.00	01/15/2002 20:49	
Xylene(s)	ND	0.62	mg/Kg	1.00	01/15/2002 20:49	
MTBE	ND	0.62	mg/Kg	1.00	01/15/2002 20:49	
<b>Surrogate(s)</b>						
Trifluorotoluene	81.0	53-125	%	1.00	01/15/2002 20:49	
4-Bromofluorobenzene-FID	109.6	58-124	%	1.00	01/15/2002 20:49	

Submission #: 2002-01-0175



Gas/BTEX Compounds (High Level)

Batch QC report

Test Method: 8015M  
8021B

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Method Blank	Soil	QC Batch # 2002/01/14-05.03
MB: 2002/01/14-05.03-001		Date Extracted: 01/14/2002 12:46

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	10	mg/Kg	01/15/2002 12:46	
Benzene	ND	0.62	mg/Kg	01/15/2002 12:46	
Toluene	ND	0.62	mg/Kg	01/15/2002 12:46	
Ethyl benzene	ND	0.62	mg/Kg	01/15/2002 12:46	
Xylene(s)	ND	0.62	mg/Kg	01/15/2002 12:46	
MTBE	ND	0.62	mg/Kg	01/15/2002 12:46	
<b>Surrogate(s)</b>					
Trifluorotoluene	90.9	53-125	%	01/15/2002 12:46	
4-Bromofluorobenzene-FID	106.0	58-124	%	01/15/2002 12:46	

Submission #: 2002-01-0175



Gas/BTEX Compounds (High Level)

Batch QC report

Test Method: 8015M  
8021B

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/01/14-05.03**  
 LCS: 2002/01/14-05.03-002 Extracted: 01/14/2002 13:18 Analyzed: 01/15/2002 13:18  
 LCSD: 2002/01/14-05.03-003 Extracted: 01/14/2002 13:49 Analyzed: 01/15/2002 13:49

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Gasoline	0.583	0.617	0.625	0.625	93.3	98.7	5.6	75-125	35		
Benzene	0.114	0.120	0.125	0.125	91.2	96.0	5.1	77-123	35		
Toluene	0.129	0.117	0.125	0.125	103.2	93.6	9.8	78-122	35		
Ethyl benzene	0.116	0.122	0.125	0.125	92.8	97.6	5.0	70-130	35		
Xylene(s)	0.330	0.345	0.375	0.375	88.0	92.0	4.4	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	86.5	88.6	100	100	86.5	88.6		53-125	0		
4-Bromofluorobenzene	89.7	95.4	100	100	89.7	95.4		58-124	0		

Submission #: 2002-01-0175



Gas/BTEX Compounds (High Level)

**Legend & Notes**

Test Method: 8021B  
8015M

Prep Method: 5030

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)  
[www.chromalab.com](http://www.chromalab.com)

**Analyte Flags**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard

CA DHS ELAP#1094

Submission #: 2002-01-0175

**SEVERN  
TRENT  
SERVICES**

Total Lead

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4	Project: 1269 66th Street, 1274 65th

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SS-1	Soil	01/10/2002 14:00	1
SS-2	Soil	01/10/2002 14:00	2
SS-3	Soil	01/10/2002 14:10	3

Submission #: 2002-01-0175



Total Lead

Lowney & Associates Oakland  
Attn: Mark Amiola

Test Method: 6010B  
Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SS-1</b>	Lab Sample ID: 2002-01-0175-001
Project: 1424-4 1269 66th Street, 1274 65th Street	Received: 01/11/2002 17:48
Sampled: 01/10/2002 14:00	Extracted: 01/15/2002 05:48
Matrix: Soil	QC-Batch: 2002/01/15-01.15

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	19	1.0	mg/Kg	1.00	01/15/2002 10:48	

Submission #: 2002-01-0175



Total Lead

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SS-2</b>	Lab Sample ID: 2002-01-0175-002
Project: 1424-4 1269 66th Street, 1274 65th Street	Received: 01/11/2002 17:48
Sampled: 01/10/2002 14:00	Extracted: 01/15/2002 05:48
Matrix: Soil	QC-Batch: 2002/01/15-01.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	73	1.0	mg/Kg	1.00	01/15/2002 10:52	



Submission #: 2002-01-0175



Total Lead

Lowney & Associates Oakland  
Attn: Mark Arniola

Test Method: 6010B  
Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SS-3</b>	Lab Sample ID: 2002-01-0175-003
Project: 1424-4 1269 66th Street, 1274 65th Street	Received: 01/11/2002 17:48
Sampled: 01/10/2002 14:10	Extracted: 01/15/2002 05:48
Matrix: Soil	QC-Batch: 2002/01/15-01.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	11	1.0	mg/Kg	1.00	01/15/2002 10:55	

Submission #: 2002-01-0175



Total Lead

Batch QC report

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/01/15-01.15</b>
MB: 2002/01/15-01.15-027		Date Extracted: 01/15/2002 05:48

Tel 925 484 1919  
Fax 925 484 1096  
[www.stl-inc.com](http://www.stl-inc.com)  
[www.chromalab.com](http://www.chromalab.com)

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	01/15/2002 10:05	

Submission #: 2002-01-0175



Total Lead  
Batch QC report

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/01/15-01.15  
LCS: 2002/01/15-01.15-028    Extracted: 01/15/2002 05:48    Analyzed: 01/15/2002 10:10  
LCSD: 2002/01/15-01.15-029    Extracted: 01/15/2002 05:48    Analyzed: 01/15/2002 10:13

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Lead	98.3	92.8	100.0	100.0	98.3	92.8	5.8	80-120	20		

Submission #: 2002-01-0175

TEPH w/ Silica Gel Clean-up

**SEVERN**  
**TRENT**  
**SERVICES**

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4	Project: 1269 66th Street, 1274 65th

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SS-1	Soil	01/10/2002 14:00	1
SS-2	Soil	01/10/2002 14:00	2
SS-3	Soil	01/10/2002 14:10	3

Submission #: 2002-01-0175



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SS-1</b>	Lab Sample ID: 2002-01-0175-001
Project: 1424-4 1269 66th Street, 1274 65th Street	Received: 01/11/2002 17:48
Sampled: 01/10/2002 14:00	Extracted: 01/15/2002 18:08
Matrix: Soil	QC-Batch: 2002/01/15-04.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	12	1.0	mg/Kg	1.00	01/16/2002 17:15	ndp
Motor Oil	ND	50	mg/Kg	1.00	01/16/2002 17:15	
<b>Surrogate(s)</b>						
o-Terphenyl	81.6	60-130	%	1.00	01/16/2002 17:15	

Submission #: 2002-01-0175



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SS-2</b>	Lab Sample ID: 2002-01-0175-002
Project: 1424-4 1269 66th Street, 1274 65th Street	Received: 01/11/2002 17:48
Sampled: 01/10/2002 14:00	Extracted: 01/15/2002 18:08
Matrix: Soil	QC-Batch: 2002/01/15-04.10

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	340	20	mg/Kg	20.00	01/17/2002 06:29	ndp
Motor Oil	1700	1000	mg/Kg	20.00	01/17/2002 06:29	
<i>Surrogate(s)</i> o-Terphenyl	NA	60-130	%	20.00	01/17/2002 06:29	sd

Submission #: 2002-01-0175

**SEVERN**  
**TRENT**  
**SERVICES**

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SS-3</b>	Lab Sample ID: 2002-01-0175-003
Project: 1424-4 1269 66th Street, 1274 65th Street	Received: 01/11/2002 17:48
Sampled: 01/10/2002 14:10	Extracted: 01/15/2002 18:08
Matrix: Soil	QC-Batch: 2002/01/15-04.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1.3	1.0	mg/Kg	1.00	01/16/2002 14:03	ndp
Motor Oil	ND	50	mg/Kg	1.00	01/16/2002 14:03	
<b>Surrogate(s)</b> o-Terphenyl	72.8	60-130	%	1.00	01/16/2002 14:03	

Submission #: 2002-01-0175

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3550/8015  
M

**SEVERN  
TRENT  
SERVICES**

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/01/15-04.10</b>
MB: 2002/01/15-04.10-003		Date Extracted: 01/15/2002 18:08

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	01/17/2002 08:10	
Motor Oil	ND	50	mg/Kg	01/17/2002 08:10	
'Surrogate(s) o-Terphenyl	97.9	60-130	%	01/17/2002 08:10	



Submission #: 2002-01-0175



TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3550/8015M

Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/01/15-04.10  
LCS: 2002/01/15-04.10-001    Extracted: 01/15/2002 18:08    Analyzed: 01/17/2002 06:55  
LCSD: 2002/01/15-04.10-002    Extracted: 01/15/2002 18:08    Analyzed: 01/17/2002 07:32

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD [%]	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recover	RPD	LCS	LCSD
Diesel	31.8	29.5	41.7	41.7	76.3	70.7	7.6	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	18.1	17.2	20.0	20.0	90.7	85.9		60-130	0		

Submission #: 2002-01-0175



TEPH w/ Silica Gel Clean-up

Batch QC Report

Test Method: 8015M

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2002/01/15-04.10</b>
Sample ID: <b>SS-1 &gt;&gt; MS</b>		Lab ID: 2002-01-0175-001
MS: 2002/01/15-04.10-004	Extracted: 01/15/2002 18:08	Analyzed: 01/16/2002 16:00
		Dilution: 1
MSD: 2002/01/15-04.10-005	Extracted: 01/15/2002 18:08	Analyzed: 01/16/2002 16:37
		Dilution: 1

Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Diesel	42.0	35.1	11.7	41.6	41.5	72.8	56.4	25.4	60-130	25		mso,r
<b>Surrogate(s)</b>												
o-Terphenyl	15.2	15.2		20.0	20.0	76.1	75.8		60-130	0		

Submission #: 2002-01-0175



TEPH w/ Silica Gel Clean-up

**Legend & Notes**

Test Method: 8015M

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**QC Compound Flags**

mso

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

**QC Compound Flags**

rpd

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

**Analyte Flags**

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

**Analyte Flags**

sd

Surrogate recovery not reportable due to required dilution.

**CHAIN OF CUSTODY RECORD**

Project Name:  
1269 66th Street, 1274 65th Street

Job No.:  
1424-4

Report To:  
Mark Amiola

Sampler (print):  
Veronica Tigao

Sampler (signature):  
[Signature]

QC Requirement:  Level A (standard)

**Turnaround Requirements**

- 5 Working Days
- 48 Hours
- 24 Hours
- 2-3 Hours RUSH
- \_\_\_\_\_

**ANALYSES REQUESTED**

Sample I.D.	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	TPH as gas/BTEX/MTBE (8015/8020)	TPH as diesel (8015M) silica gel column and n-pentane	TRPH (418.1) silica gel column	Halogenated VOCs (8010)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M (Purgeable and Extractable)	Lead (6010)	Remarks
SS-1	01/10/02	14:00		Soil	1	X	X		X							X	
SS-2	01/10/02	14:00		Soil	1	X	X		X							X	
SS-3	01/10/02	14:10		Soil	1	X	X		X							X	
																	4.3°C

Relinquished By: <u>[Signature]</u>	Date: <u>01/11/02</u>	Time: <u>12:30</u>	Received By: <u>[Signature]</u>	Date: <u>1/11/02</u>	Time: <u>12:30</u>	PM Initial:
Relinquished By: <u>[Signature]</u>	Date: <u>1/11/02</u>	Time: <u>17:48</u>	Received By: <u>[Signature]</u>	Date: <u>1/11/02</u>	Time: <u>17:48</u>	Temp:
Relinquished By:	Date:	Time:	Lab of Record:			
			Received by Lab:	Date:	Time:	

Submission #: 2002-01-0363

Date: January 30, 2002

**SEVERN  
TRENT  
SERVICES**

**Lowney & Associates Oakland**

167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-4B  
65th Street

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

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

Dear Mr. Arniola,

Attached is our report for your samples received on Tuesday January 22, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
March 8, 2002 unless you have requested otherwise.  
We appreciate the opportunity to be of service to you. If you have any questions,  
please call me at (925) 484-1919.  
You can also contact me via email. My email address is: [vvancil@chromalab.com](mailto:vvancil@chromalab.com)

Sincerely,



Vincent Vancil  
Project Manager

Submission #: 2002-01-0363

Halogenated Volatile Organic Compounds by 8021

**SEVERN  
TRENT  
SERVICES**

<b>Lowney &amp; Associates Oakland</b>	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 65th Street

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
GW-1	Water	01/22/2002 11:30	1

Halogenated Volatile Organic Compounds by 8021

Lowney & Associates Oakland  
Attn: Mark Arniola

Test Method: 8021B  
Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>GW-1</b>	Lab Sample ID: 2002-01-0363-001
Project: 1424-4B 65th Street	Received: 01/22/2002 15:10
Sampled: 01/22/2002 11:30	Extracted: 01/26/2002 01:10
Matrix: Water	QC-Batch: 2002/01/25-01.25

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	01/26/2002 01:10	
Vinyl chloride	ND	0.50	ug/L	1.00	01/26/2002 01:10	
Chloroethane	ND	0.50	ug/L	1.00	01/26/2002 01:10	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	01/26/2002 01:10	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	01/26/2002 01:10	
Methylene chloride	ND	5.0	ug/L	1.00	01/26/2002 01:10	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	01/26/2002 01:10	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	01/26/2002 01:10	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	01/26/2002 01:10	
Chloroform	ND	0.50	ug/L	1.00	01/26/2002 01:10	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	01/26/2002 01:10	
Carbon tetrachloride	ND	0.50	ug/L	1.00	01/26/2002 01:10	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	01/26/2002 01:10	
Trichloroethene	ND	0.50	ug/L	1.00	01/26/2002 01:10	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	01/26/2002 01:10	
Bromodichloromethane	ND	0.50	ug/L	1.00	01/26/2002 01:10	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	01/26/2002 01:10	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	01/26/2002 01:10	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	01/26/2002 01:10	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	01/26/2002 01:10	
Tetrachloroethene	ND	0.50	ug/L	1.00	01/26/2002 01:10	
Dibromochloromethane	ND	0.50	ug/L	1.00	01/26/2002 01:10	
Chlorobenzene	ND	0.50	ug/L	1.00	01/26/2002 01:10	
Bromoform	ND	2.0	ug/L	1.00	01/26/2002 01:10	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	01/26/2002 01:10	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	01/26/2002 01:10	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	01/26/2002 01:10	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	01/26/2002 01:10	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	01/26/2002 01:10	
Chloromethane	ND	1.0	ug/L	1.00	01/26/2002 01:10	
Bromomethane	ND	1.0	ug/L	1.00	01/26/2002 01:10	
<b>Surrogate(s)</b>						
1-Chloro-2-fluorobenzene	91.8	70-130	%	1.00	01/26/2002 01:10	

Submission #: 2002-01-0363



Halogenated Volatile Organic Compounds by 8021

Batch QC report

Test Method: 8021B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2002/01/25-01.25</b>
MB: 2002/01/25-01.25-004		Date Extracted: 01/25/2002 12:33

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	01/25/2002 12:33	
Vinyl chloride	ND	0.5	ug/L	01/25/2002 12:33	
Chloroethane	ND	0.5	ug/L	01/25/2002 12:33	
Trichlorofluoromethane	ND	0.5	ug/L	01/25/2002 12:33	
1,1-Dichloroethene	ND	0.5	ug/L	01/25/2002 12:33	
Methylene chloride	ND	5.0	ug/L	01/25/2002 12:33	
trans-1,2-Dichloroethene	ND	0.5	ug/L	01/25/2002 12:33	
cis-1,2-Dichloroethene	ND	0.5	ug/L	01/25/2002 12:33	
1,1-Dichloroethane	ND	0.5	ug/L	01/25/2002 12:33	
Chloroform	ND	0.5	ug/L	01/25/2002 12:33	
1,1,1-Trichloroethane	ND	0.5	ug/L	01/25/2002 12:33	
Carbon tetrachloride	ND	0.5	ug/L	01/25/2002 12:33	
1,2-Dichloroethane	ND	0.5	ug/L	01/25/2002 12:33	
Trichloroethene	ND	0.5	ug/L	01/25/2002 12:33	
1,2-Dichloropropane	ND	0.5	ug/L	01/25/2002 12:33	
Bromodichloromethane	ND	0.5	ug/L	01/25/2002 12:33	
2-Chloroethylvinyl ether	ND	0.5	ug/L	01/25/2002 12:33	
trans-1,3-Dichloropropene	ND	0.5	ug/L	01/25/2002 12:33	
cis-1,3-Dichloropropene	ND	0.5	ug/L	01/25/2002 12:33	
1,1,2-Trichloroethane	ND	0.5	ug/L	01/25/2002 12:33	
Tetrachloroethene	ND	0.5	ug/L	01/25/2002 12:33	
Dibromochloromethane	ND	0.5	ug/L	01/25/2002 12:33	
Chlorobenzene	ND	0.5	ug/L	01/25/2002 12:33	
Bromoform	ND	2.0	ug/L	01/25/2002 12:33	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	01/25/2002 12:33	
1,3-Dichlorobenzene	ND	0.5	ug/L	01/25/2002 12:33	
1,4-Dichlorobenzene	ND	0.5	ug/L	01/25/2002 12:33	
1,2-Dichlorobenzene	ND	0.5	ug/L	01/25/2002 12:33	
Trichlorotrifluoroethane	ND	0.5	ug/L	01/25/2002 12:33	
Chloromethane	ND	1.0	ug/L	01/25/2002 12:33	
Bromomethane	ND	1.0	ug/L	01/25/2002 12:33	
<b>Surrogate(s)</b>					
1-Chloro-2-fluorobenzene	93.8	70-130	%	01/25/2002 12:33	



Submission #: 2002-01-0363



Halogenated Volatile Organic Compounds by 8021

Batch QC report

Test Method: 8021B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/01/25-01.25  
LCS: 2002/01/25-01.25-002 Extracted: 01/25/2002 10:56 Analyzed: 01/25/2002 10:56  
LCSD: 2002/01/25-01.25-003 Extracted: 01/25/2002 11:45 Analyzed: 01/25/2002 11:45

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
1,1-Dichloroethene	20.6	19.3	20.0	20.0	103.0	96.5	6.5	70-130	20		
Trichloroethene	21.3	20.1	20.0	20.0	106.5	100.5	5.8	70-130	20		
Chlorobenzene	21.6	20.7	20.0	20.0	108.0	103.5	4.3	70-130	20		
<b>Surrogate(s)</b>											
1-Chloro-2-fluorobenz	25.6	24.6	20	20	128.0	123.0		70-130			

Submission #: 2002-01-0363

Gas/BTEX Compounds by 8015M/8021



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 65th Street

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
GW-1	Water	01/22/2002 11:30	1

Submission #: 2002-01-0363



Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Test Method: 8015M  
8021B

Attn: Mark Arniola

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>GW-1</b>	Lab Sample ID: 2002-01-0363-001
Project: 1424-4B 65th Street	Received: 01/22/2002 15:10
Sampled: 01/22/2002 11:30	Extracted: 01/29/2002 12:29
Matrix: Water	QC-Batch: 2002/01/29-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/29/2002 12:29	
Benzene	ND	0.50	ug/L	1.00	01/29/2002 12:29	
Toluene	2.0	0.50	ug/L	1.00	01/29/2002 12:29	
Ethyl benzene	ND	0.50	ug/L	1.00	01/29/2002 12:29	
Xylene(s)	0.79	0.50	ug/L	1.00	01/29/2002 12:29	
MTBE	ND	5.0	ug/L	1.00	01/29/2002 12:29	
<b>Surrogate(s)</b>						
Trifluorotoluene	98.7	58-124	%	1.00	01/29/2002 12:29	
4-Bromofluorobenzene-FID	92.2	50-150	%	1.00	01/29/2002 12:29	

Submission #: 2002-01-0363

Gas/BTEX Compounds by 8015M/8021

**SEVERN  
TRENT  
SERVICES**

**Batch QC report**

Test Method: 8015M  
8021B

Prep Method: 5030

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

<b>Method Blank</b> MB: 2002/01/29-01.02-003	<b>Water</b>	<b>QC Batch # 2002/01/29-01.02</b> Date Extracted: 01/29/2002 08:16
---	--------------	--

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

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	01/29/2002 08:16	
Benzene	ND	0.5	ug/L	01/29/2002 08:16	
Toluene	ND	0.5	ug/L	01/29/2002 08:16	
Ethyl benzene	ND	0.5	ug/L	01/29/2002 08:16	
Xylene(s)	ND	0.5	ug/L	01/29/2002 08:16	
MTBE	ND	5.0	ug/L	01/29/2002 08:16	
<b>Surrogate(s)</b>					
Trifluorotoluene	89.6	58-124	%	01/29/2002 08:16	
4-Bromofluorobenzene-FID	98.0	50-150	%	01/29/2002 08:16	

Submission #: 2002-01-0363



Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/01/29-01.02  
 LCS: 2002/01/29-01.02-004      Extracted: 01/29/2002 08:48      Analyzed: 01/29/2002 08:48  
 LCSD: 2002/01/29-01.02-005      Extracted: 01/29/2002 09:20      Analyzed: 01/29/2002 09:20

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

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	90.0	88.6	100.0	100.0	90.0	88.6	1.6	77-123	20		
Toluene	85.1	84.0	100.0	100.0	85.1	84.0	1.3	78-122	20		
Ethyl benzene	89.0	88.1	100.0	100.0	89.0	88.1	1.0	70-130	20		
Xylene(s)	261	260	300	300	87.0	86.7	0.3	75-125	20		
<b>Surrogate(s)</b>											
Trifluorotoluene	440	428	500	500	88.0	85.6		58-124			

Submission #: 2002-01-0363

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5030

**SEVERN  
TRENT  
SERVICES**

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/01/29-01.02**  
LCS: 2002/01/29-01.02-006    Extracted: 01/29/2002 09:51    Analyzed: 01/29/2002 09:51  
LCSD: 2002/01/29-01.02-007    Extracted: 01/29/2002 10:23    Analyzed: 01/29/2002 10:23

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctr.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	447	424	500	500	89.4	84.8	5.3	75-125	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	522	504	500	500	104.4	100.8		50-150			

Submission #: 2002-01-0363

Dissolved Metals

**SEVERN  
TRENT  
SERVICES**

**Lowney & Associates Oakland**

✉ 167 Filbert Street  
Oakland, Ca 94607

Attn: Mark Arniola  
1424-4B

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

Project: 65th Street

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

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
GW-1	Water	01/22/2002 11:30	1

Submission #: 2002-01-0363



Dissolved Metals

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3005A

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>GW-1</b>	Lab Sample ID: 2002-01-0363-001
Project: 1424-4B 65th Street	Received: 01/22/2002 15:10
Sampled: 01/22/2002 11:30	Extracted: 01/25/2002 19:33
Matrix: Water	QC-Batch: 2002/01/25-06.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	ND	0.0050	mg/L	1.00	01/28/2002 10:31	





Submission #: 2002-01-0363



Dissolved Metals

Batch QC report

Test Method: 6010B

Prep Method: 3005A

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/01/25-06.15  
LCS: 2002/01/25-06.15-041    Extracted: 01/25/2002 19:33    Analyzed: 01/28/2002 09:38  
LCSD: 2002/01/25-06.15-042    Extracted: 01/25/2002 19:33    Analyzed: 01/28/2002 09:42

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

CA DHS ELAP#1094

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Lead	0.473	0.463	0.500	0.500	94.6	92.6	2.1	80-120	20		

Submission #: 2002-01-0363

TEPH w/ Silica Gel Clean-up



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 65th Street

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
GW-1	Water	01/22/2002 11:30	1

Submission #: 2002-01-0363



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M

Prep Method: 3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>GW-1</b>	Lab Sample ID: 2002-01-0363-001
Project: 1424-4B 65th Street	Received: 01/22/2002 15:10
Sampled: 01/22/2002 11:30	Extracted: 01/23/2002 15:27
Matrix: Water	QC-Batch: 2002/01/23-05.10
Sample/Analysis Flag: rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	940	60	ug/L	1.19	01/24/2002 09:22	ndp
Motor Oil	2700	600	ug/L	1.19	01/24/2002 09:22	
<b>Surrogate(s)</b> o-Terphenyl	78.2	60-130	%	1.19	01/24/2002 09:22	



Submission #: 2002-01-0363



TEPH w/ Silica Gel Clean-up  
Batch QC report

Test Method: 8015M

Prep Method: 3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/01/23-05.10  
LCS: 2002/01/23-05.10-002    Extracted: 01/23/2002 15:27    Analyzed: 01/24/2002 08:42  
LCSD: 2002/01/23-05.10-003    Extracted: 01/23/2002 15:27    Analyzed: 01/24/2002 09:22

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

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	844	893	1250	1250	67.5	71.4	5.6	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	18.8	19.7	20.0	20.0	94.0	98.7		60-130	0		

Submission #: 2002-01-0363



TEPH w/ Silica Gel Clean-up

**Legend & Notes**

Test Method: 8015M

Prep Method: 3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Analysis Flags**

rl

Reporting limits raised due to reduced sample size.

**Analyte Flags**

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard





Submission #: 2002-01-0462

Date: January 30, 2002

**SEVERN**  
**TRENT**  
**SERVICES**

**Lowney & Associates Oakland**

167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-4B  
1269 66th St. & 1274 65th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mr. Arniola,

Attached is our report for your samples received on Monday January 28, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
March 14, 2002 unless you have requested otherwise.  
We appreciate the opportunity to be of service to you. If you have any questions,  
please call me at (925) 484-1919.  
You can also contact me via email. My email address is: [vvancil@chromalab.com](mailto:vvancil@chromalab.com)

Sincerely,



Vincent Vancil  
Project Manager

Submission #: 2002-01-0462

Halogenated Volatile Organic Compounds by 8021B/8260B



<b>Lowney &amp; Associates Oakland</b>	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 1269 66th St. & 1274 65th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SS-4	Soil	01/25/2002 15:30	1

## Halogenated Volatile Organic Compounds by 8021B/8260B

Lowney &amp; Associates Oakland

Test Method: 8260B

Attn: Mark Arniola

Prep Method: 5030B/5035

 STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

Sample ID: <b>SS-4</b>	Lab Sample ID: 2002-01-0462-001
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/28/2002 17:27
Sampled: 01/25/2002 15:30	Extracted: 01/29/2002 12:03
Matrix: Soil	QC-Batch: 2002/01/29-01.09

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	01/29/2002 12:03	
Vinyl chloride	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
Chloroethane	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
Methylene chloride	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
Chloroform	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
Trichloroethene	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
Chlorobenzene	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
Bromoform	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
Chloromethane	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
Bromomethane	ND	5.0	ug/Kg	1.00	01/29/2002 12:03	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	99.9	74-121	%	4.95	01/29/2002 12:03	
1,2-Dichloroethane-d4	72.3	70-121	%	4.95	01/29/2002 12:03	
Toluene-d8	131.3	81-117	%	4.95	01/29/2002 12:03	sh

## Halogenated Volatile Organic Compounds by 8021B/8260B

## Batch QC report

Test Method: 8260B

Prep Method: 5035

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

Method Blank

Soil

QC Batch # 2002/01/29-01.09

MB: 2002/01/29-01.09-005

Date Extracted: 01/29/2002 10:47

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Bromodichloromethane	ND	20	ug/Kg	01/29/2002 10:47	
Bromoform	ND	5.0	ug/Kg	01/29/2002 10:47	
Bromomethane	ND	10	ug/Kg	01/29/2002 10:47	
Carbon tetrachloride	ND	5.0	ug/Kg	01/29/2002 10:47	
Chlorobenzene	ND	5.0	ug/Kg	01/29/2002 10:47	
Chloroethane	ND	10	ug/Kg	01/29/2002 10:47	
2-Chloroethylvinyl ether	ND	50	ug/Kg	01/29/2002 10:47	
Chloroform	ND	5.0	ug/Kg	01/29/2002 10:47	
Chloromethane	ND	10	ug/Kg	01/29/2002 10:47	
Dibromochloromethane	ND	5.0	ug/Kg	01/29/2002 10:47	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	01/29/2002 10:47	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	01/29/2002 10:47	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	01/29/2002 10:47	
Dichlorodifluoromethane	ND	10	ug/Kg	01/29/2002 10:47	
1,1-Dichloroethane	ND	5.0	ug/Kg	01/29/2002 10:47	
1,2-Dichloroethane	ND	5.0	ug/Kg	01/29/2002 10:47	
1,1-Dichloroethene	ND	5.0	ug/Kg	01/29/2002 10:47	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	01/29/2002 10:47	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	01/29/2002 10:47	
1,2-Dichloropropane	ND	5.0	ug/Kg	01/29/2002 10:47	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	01/29/2002 10:47	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	01/29/2002 10:47	
Methylene chloride	ND	5.0	ug/Kg	01/29/2002 10:47	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	01/29/2002 10:47	
Tetrachloroethene	ND	5.0	ug/Kg	01/29/2002 10:47	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	01/29/2002 10:47	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	01/29/2002 10:47	
Trichloroethene	ND	5.0	ug/Kg	01/29/2002 10:47	
Trichlorofluoromethane	ND	5.0	ug/Kg	01/29/2002 10:47	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	01/29/2002 10:47	
Vinyl chloride	ND	5.0	ug/Kg	01/29/2002 10:47	
<b>Surrogate(s)</b>					
4-Bromofluorobenzene	114.9	74-121	%	01/29/2002 10:47	
1,2-Dichloroethane-d4	106.4	70-121	%	01/29/2002 10:47	
Toluene-d8	109.5	81-117	%	01/29/2002 10:47	

Halogenated Volatile Organic Compounds by 8021B/8260B

Batch QC report

Test Method: 8260B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/01/29-01.09**  
 LCS: 2002/01/29-01.09-003 Extracted: 01/29/2002 09:46 Analyzed: 01/29/2002 09:46  
 LCSD: 2002/01/29-01.09-004 Extracted: 01/29/2002 10:21 Analyzed: 01/29/2002 10:21

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

CA DHS ELAP#1094

Compound	Conc. [ug/Kg]		Exp. Conc. [ug/Kg]		Recovery		RPD	Ctr. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Chlorobenzene	106	101	100.0	100.0	106.0	101.0	4.8	61-121	20		
1,1-Dichloroethene	78.8	86.3	100.0	100.0	78.8	86.3	9.1	65-125	20		
Trichloroethene	96.1	103	100.0	100.0	96.1	103.0	6.9	74-134	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	602	560	500	500	120.4	112.0		74-121			
1,2-Dichloroethane-d4	535	546	500	500	107.0	109.2		70-121			
Toluene-d8	573	589	500	500	114.6	117.8		81-117			

Submission #: 2002-01-0462

Halogenated Volatile Organic Compounds by 8021B/8260B

SEVERN

TRENT

SERVICES

**Legend & Notes**

Test Method: 8260B

Prep Method: 5030B/5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

**Analyte Flags**

sh

Surrogate recovery was higher than QC limit due to matrix interference.

CA DHS ELAP#1094

Submission #: 2002-01-0462



Gas/BTEX Compounds (High Level)

<b>Lowney &amp; Associates Oakland</b>	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 1269 66th St. & 1274 65th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SS-4	Soil	01/25/2002 15:30	1

Submission #: 2002-01-0462



Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Test Method: 8021B  
8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Attrn: Mark Arniola

Prep Method: 5030

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

Sample ID: <b>SS-4</b>	Lab Sample ID: 2002-01-0462-001
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/28/2002 17:27
Sampled: 01/25/2002 15:30	Extracted: 01/29/2002
Matrix: Soil	QC-Batch: 2002/01/29-02.03

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1600	50	mg/Kg	5.00	01/29/2002 12:58	
Benzene	ND	3.1	mg/Kg	5.00	01/29/2002 12:58	
Toluene	ND	3.1	mg/Kg	5.00	01/29/2002 12:58	
Ethyl benzene	19	3.1	mg/Kg	5.00	01/29/2002 12:58	
Xylene(s)	76	3.1	mg/Kg	5.00	01/29/2002 12:58	
MTBE	ND	3.1	mg/Kg	5.00	01/29/2002 12:58	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	102.3	58-124	%	1.00	01/29/2002 12:58	
4-Bromofluorobenzene-FID	273.1	58-124	%	1.00	01/29/2002 12:58	sh



Submission #: 2002-01-0462



Gas/BTEX Compounds (High Level)

Batch QC report

Test Method: 8015M  
8021B

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/01/29-02.03</b>
MB: 2002/01/29-02.03-001		Date Extracted: 01/29/2002

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	10	mg/Kg	01/29/2002 14:38	
Benzene	ND	0.62	mg/Kg	01/29/2002 14:38	
Toluene	ND	0.62	mg/Kg	01/29/2002 14:38	
Ethyl benzene	ND	0.62	mg/Kg	01/29/2002 14:38	
Xylene(s)	ND	0.62	mg/Kg	01/29/2002 14:38	
MTBE	ND	0.62	mg/Kg	01/29/2002 14:38	
<b>Surrogate(s)</b>					
4-Bromofluorobenzene	123.6	58-124	%	01/29/2002 14:38	
Trifluorotoluene-FID	98.6	53-125	%	01/29/2002 14:38	

Submission #: 2002-01-0462



Gas/BTEX Compounds (High Level)

Batch QC report

Test Method: 8021B

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/01/29-02.03  
LCS: 2002/01/29-02.03-002      Extracted: 01/29/2002      Analyzed: 01/29/2002 14:45  
LCSD: 2002/01/29-02.03-003      Extracted: 01/29/2002 15:15      Analyzed: 01/29/2002 15:15

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recover	RPD	LCS	LCSD
Benzene	0.148	0.140	0.125	0.125	118.4	112.0	5.6	77-123	35		
Toluene	0.140	0.143	0.125	0.125	112.0	114.4	2.1	78-122	35		
Ethyl benzene	0.139	0.142	0.125	0.125	111.2	113.6	2.1	70-130	35		
Xylene(s)	0.424	0.432	0.375	0.375	113.1	115.2	1.8	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	594	569	500	500	118.8	113.8		53-125	0		

Submission #: 2002-01-0462



Gas/BTEX Compounds (High Level)

Batch QC report

Test Method: 8015M

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/01/29-02.03  
LCS: 2002/01/29-02.03-004      Extracted: 01/29/2002      Analyzed: 01/29/2002 17:28  
LCSD: 2002/01/29-02.03-005      Extracted: 01/29/2002 17:59      Analyzed: 01/29/2002 17:59

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.540	0.508	0.625	0.625	86.4	81.3	6.1	75-125	35		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	504	492	500	500	100.8	98.4		58-124	0		

Submission #: 2002-01-0462



Gas/BTEX Compounds (High Level)

**Legend & Notes**

Test Method: 8021B  
8015M

Prep Method: 5030

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)  
[www.chromalab.com](http://www.chromalab.com)

CA DHS ELAP#1094

**Analyte Flags**

sh

Surrogate recovery was higher than QC limit due to matrix interference.

Submission #: 2002-01-0462



Total Lead

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 1269 66th St. & 1274 65th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SS-4	Soil	01/25/2002 15:30	1

Submission #: 2002-01-0462



Total Lead

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SS-4</b>	Lab Sample ID: 2002-01-0462-001
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/28/2002 17:27
Sampled: 01/25/2002 15:30	Extracted: 01/29/2002 05:00
Matrix: Soil	QC-Batch: 2002/01/29-01.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	65	1.0	mg/Kg	1.00	01/29/2002 07:30	

Submission #: 2002-01-0462



Total Lead

Batch QC report

Test Method: 6010B

Prep Method: 3050B

Method Blank	Soil	QC Batch # 2002/01/29-01.15
MB: 2002/01/29-01.15-011		Date Extracted: 01/29/2002 05:00

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	01/29/2002 07:18	

Submission #: 2002-01-0462



Total Lead  
Batch QC report

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/01/29-01.15  
LCS: 2002/01/29-01.15-012 Extracted: 01/29/2002 05:00 Analyzed: 01/29/2002 07:23  
LCSD: 2002/01/29-01.15-013 Extracted: 01/29/2002 05:00 Analyzed: 01/29/2002 07:26

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Lead	101	94.8	100.0	100.0	101.0	94.8	6.3	80-120	20		



Submission #: 2002-01-0462

TEPH w/ Silica Gel Clean-up



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 1269 66th St. & 1274 65th St.

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SS-4	Soil	01/25/2002 15:30	1

Submission #: 2002-01-0462



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SS-4</b>	Lab Sample ID: 2002-01-0462-001
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/28/2002 17:27
Sampled: 01/25/2002 15:30	Extracted: 01/28/2002 19:22
Matrix: Soil	QC-Batch: 2002/01/28-08.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	230	10	mg/Kg	10.00	01/29/2002 11:13	ndp
Motor Oil	ND	500	mg/Kg	10.00	01/29/2002 11:13	
<b>Surrogate(s)</b>						
o-Terphenyl	NA	60-130	%	10.00	01/29/2002 11:13	sd

Submission #: 2002-01-0462



TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3510/8015  
M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Method Blank	Soil	QC Batch # 2002/01/28-08.10
MB: 2002/01/28-08.10-001		Date Extracted: 01/28/2002 19:22

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	01/29/2002 13:53	
Motor Oil	ND	50	mg/Kg	01/29/2002 13:53	
<b>Surrogate(s)</b> o-Terphenyl	107.7	60-130	%	01/29/2002 13:53	

Submission #: 2002-01-0462



TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/01/28-08.10**  
 LCS: 2002/01/28-08.10-002 Extracted: 01/28/2002 19:22 Analyzed: 01/29/2002 15:53  
 LCSD: 2002/01/28-08.10-003 Extracted: 01/28/2002 19:22 Analyzed: 01/29/2002 16:32

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	40.6	40.3	41.6	41.6	97.6	96.9	0.7	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	21.9	21.6	20.0	20.0	109.7	108.2		60-130	0		

Submission #: 2002-01-0462



TEPH w/ Silica Gel Clean-up

Batch QC Report

Test Method: 8015M

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2002/01/28-08.10</b>
Sample ID: <b>SS-4 &gt;&gt; MS</b>		Lab ID: 2002-01-0462-001
MS: 2002/01/28-08.10-004	Extracted: 01/28/2002 19:22	Analyzed: 01/29/2002 11:13
		Dilution: 10
MSD: 2002/01/28-08.10-005	Extracted: 01/28/2002 19:22	Analyzed: 01/29/2002 11:51
		Dilution: 10

Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Diesel	228	183	226	40.6	41.6	4.9	-103.4	-21	60-130	25	mso	mso,r
<b>Surrogate(s)</b>												
o-Terphenyl	NA	NA		20.0	20.0	0.0	0.0		60-130	0	sd	sd



TEPH w/ Silica Gel Clean-up

**Legend & Notes**

Test Method: 8015M

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**QC Compound Flags**

mso

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

**QC Compound Flags**

rpd

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

**Analyte Flags**

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

**Analyte Flags**

sd

Surrogate recovery not reportable due to required dilution.



**Lowney & Associates Oakland**

167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-4B  
1269 66th St. & 1274 65th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mr. Arniola,

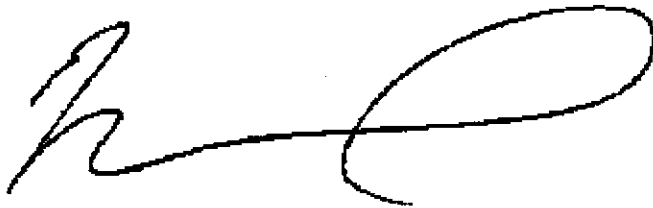
Attached is our report for your samples received on Thursday January 31, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
March 17, 2002 unless you have requested otherwise.

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

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

Sincerely,



Vincent Vancil  
Project Manager



Submission #: 2002-01-0517

Halogenated Volatile Organic Compounds by 8021B/8260B



<b>Lowney &amp; Associates Oakland</b>	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 1269 66th St. & 1274 65th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-8	Soil	01/31/2002 10:00	4

## Halogenated Volatile Organic Compounds by 8021B/8260B

Lowney &amp; Associates Oakland

Test Method: 8260B

Attn: Mark Arniola

Prep Method: 5030B/5035

STL San Francisco

1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: SSC-8

Lab Sample ID: 2002-01-0517-004

Project: 1424-4B  
1269 66th St. & 1274 65th St.

Received: 01/31/2002 13:30

Sampled: 01/31/2002 10:00

Extracted: 02/05/2002 10:09

Matrix: Soil

QC-Batch: 2002/02/05-01.09

Tel 925 484 1919

Fax 925 484 1096

www.stl-inc.com

www.chromalab.com

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	02/05/2002 10:09	
Vinyl chloride	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
Chloroethane	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
Methylene chloride	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
Chloroform	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
Trichloroethene	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
Chlorobenzene	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
Bromoform	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
Chloromethane	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
Bromomethane	ND	5.0	ug/Kg	1.00	02/05/2002 10:09	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	108.1	74-121	%	1.00	02/05/2002 10:09	
1,2-Dichloroethane-d4	105.8	70-121	%	1.00	02/05/2002 10:09	
Toluene-d8	113.1	81-117	%	1.00	02/05/2002 10:09	

Halogenated Volatile Organic Compounds by 8021B/8260B

Batch QC report

Test Method: 8260B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/02/05-01.09</b>
MB: 2002/02/05-01.09-004		Date Extracted: 02/05/2002 09:35

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Bromodichloromethane	ND	5.0	ug/Kg	02/05/2002 09:35	
Bromoform	ND	5.0	ug/Kg	02/05/2002 09:35	
Bromomethane	ND	10	ug/Kg	02/05/2002 09:35	
Carbon tetrachloride	ND	5.0	ug/Kg	02/05/2002 09:35	
Chlorobenzene	ND	5.0	ug/Kg	02/05/2002 09:35	
Chloroethane	ND	10	ug/Kg	02/05/2002 09:35	
2-Chloroethylvinyl ether	ND	50	ug/Kg	02/05/2002 09:35	
Chloroform	ND	5.0	ug/Kg	02/05/2002 09:35	
Chloromethane	ND	10	ug/Kg	02/05/2002 09:35	
Dibromochloromethane	ND	5.0	ug/Kg	02/05/2002 09:35	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	02/05/2002 09:35	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	02/05/2002 09:35	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	02/05/2002 09:35	
Dichlorodifluoromethane	ND	10	ug/Kg	02/05/2002 09:35	
1,1-Dichloroethane	ND	5.0	ug/Kg	02/05/2002 09:35	
1,2-Dichloroethane	ND	5.0	ug/Kg	02/05/2002 09:35	
1,1-Dichloroethene	ND	5.0	ug/Kg	02/05/2002 09:35	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	02/05/2002 09:35	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	02/05/2002 09:35	
1,2-Dichloropropane	ND	5.0	ug/Kg	02/05/2002 09:35	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	02/05/2002 09:35	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	02/05/2002 09:35	
Methylene chloride	ND	5.0	ug/Kg	02/05/2002 09:35	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	02/05/2002 09:35	
Tetrachloroethene	ND	5.0	ug/Kg	02/05/2002 09:35	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	02/05/2002 09:35	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	02/05/2002 09:35	
Trichloroethene	ND	5.0	ug/Kg	02/05/2002 09:35	
Trichlorofluoromethane	ND	5.0	ug/Kg	02/05/2002 09:35	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	02/05/2002 09:35	
Vinyl chloride	ND	5.0	ug/Kg	02/05/2002 09:35	
<b>Surrogate(s)</b>					
4-Bromofluorobenzene	114.3	74-121	%	02/05/2002 09:35	
1,2-Dichloroethane-d4	96.5	70-121	%	02/05/2002 09:35	
Toluene-d8	109.5	81-117	%	02/05/2002 09:35	

Halogenated Volatile Organic Compounds by 8021B/8260B

Batch QC report

Test Method: 8260B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/02/05-01.09**  
 LCS: 2002/02/05-01.09-002 Extracted: 02/05/2002 08:35 Analyzed: 02/05/2002 08:35  
 LCSD: 2002/02/05-01.09-003 Extracted: 02/05/2002 09:09 Analyzed: 02/05/2002 09:09

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

CA DHS ELAP#1094

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Chlorobenzene	109	102	100.0	100.0	109.0	102.0	6.6	61-121	20		
1,1-Dichloroethene	79.2	78.7	100.0	100.0	79.2	78.7	0.6	65-125	20		
Trichloroethene	102	101	100.0	100.0	102.0	101.0	1.0	74-134	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	597	572	500	500	119.4	114.4		74-121			
1,2-Dichloroethane-d4	444	459	500	500	88.8	91.8		70-121			
Toluene-d8	555	564	500	500	111.0	112.8		81-117			



Halogenated Volatile Organic Compounds by 8021B/8260B

<b>Lowney &amp; Associates Oakland</b>	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 1269 66th St. & 1274 65th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-5	Soil	01/31/2002 10:00	1
SSC-6	Soil	01/31/2002 10:00	2
SSC-7	Soil	01/31/2002 10:00	3
SSC-9	Soil	01/31/2002 10:00	5
SP1-1	Soil	01/31/2002 10:00	16

Halogenated Volatile Organic Compounds by 8021B/8260B

Lowney & Associates Oakland

Test Method: 8260B

Attn: Mark Arniola

Prep Method: 5030B/5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SSC-5</b>	Lab Sample ID: 2002-01-0517-001
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
	Extracted: 02/01/2002 13:04
Sampled: 01/31/2002 10:00	QC-Batch: 2002/02/01-01.09
Matrix: Soil	

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	02/01/2002 13:04	
Vinyl chloride	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
Chloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
Methylene chloride	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
Chloroform	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
Trichloroethene	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
Chlorobenzene	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
Bromoform	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
Chloromethane	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
Bromomethane	ND	5.0	ug/Kg	1.00	02/01/2002 13:04	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	102.8	74-121	%	1.00	02/01/2002 13:04	
1,2-Dichloroethane-d4	109.6	70-121	%	1.00	02/01/2002 13:04	
Toluene-d8	95.5	81-117	%	1.00	02/01/2002 13:04	

Halogenated Volatile Organic Compounds by 8021B/8260B

Lowney &amp; Associates Oakland

Test Method: 8260B

Attn: Mark Arniola

Prep Method: 5030B/5035

 STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-6</b>	Lab Sample ID: 2002-01-0517-002
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:00	Extracted: 02/01/2002 13:36
Matrix: Soil	QC-Batch: 2002/02/01-01.09
Sample/Analysis Flag: lrm ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	46	ug/Kg	4.63	02/01/2002 13:36	
Vinyl chloride	ND	23	ug/Kg	4.63	02/01/2002 13:36	
Chloroethane	ND	23	ug/Kg	4.63	02/01/2002 13:36	
Trichlorofluoromethane	ND	23	ug/Kg	4.63	02/01/2002 13:36	
1,1-Dichloroethene	ND	23	ug/Kg	4.63	02/01/2002 13:36	
Methylene chloride	ND	23	ug/Kg	4.63	02/01/2002 13:36	
trans-1,2-Dichloroethene	ND	23	ug/Kg	4.63	02/01/2002 13:36	
cis-1,2-Dichloroethene	ND	23	ug/Kg	4.63	02/01/2002 13:36	
1,1-Dichloroethane	ND	23	ug/Kg	4.63	02/01/2002 13:36	
Chloroform	ND	23	ug/Kg	4.63	02/01/2002 13:36	
1,1,1-Trichloroethane	ND	23	ug/Kg	4.63	02/01/2002 13:36	
Carbon tetrachloride	ND	23	ug/Kg	4.63	02/01/2002 13:36	
1,2-Dichloroethane	ND	23	ug/Kg	4.63	02/01/2002 13:36	
Trichloroethene	ND	23	ug/Kg	4.63	02/01/2002 13:36	
1,2-Dichloropropane	ND	23	ug/Kg	4.63	02/01/2002 13:36	
Bromodichloromethane	ND	23	ug/Kg	4.63	02/01/2002 13:36	
2-Chloroethylvinyl ether	ND	23	ug/Kg	4.63	02/01/2002 13:36	
trans-1,3-Dichloropropene	ND	23	ug/Kg	4.63	02/01/2002 13:36	
cis-1,3-Dichloropropene	ND	23	ug/Kg	4.63	02/01/2002 13:36	
1,1,2-Trichloroethane	ND	23	ug/Kg	4.63	02/01/2002 13:36	
Tetrachloroethene	ND	23	ug/Kg	4.63	02/01/2002 13:36	
Dibromochloromethane	ND	23	ug/Kg	4.63	02/01/2002 13:36	
Chlorobenzene	ND	23	ug/Kg	4.63	02/01/2002 13:36	
Bromoform	ND	23	ug/Kg	4.63	02/01/2002 13:36	
1,1,2,2-Tetrachloroethane	ND	23	ug/Kg	4.63	02/01/2002 13:36	
1,3-Dichlorobenzene	ND	23	ug/Kg	4.63	02/01/2002 13:36	
1,4-Dichlorobenzene	ND	23	ug/Kg	4.63	02/01/2002 13:36	
1,2-Dichlorobenzene	ND	23	ug/Kg	4.63	02/01/2002 13:36	
Trichlorotrifluoroethane	ND	23	ug/Kg	4.63	02/01/2002 13:36	
Chloromethane	ND	23	ug/Kg	4.63	02/01/2002 13:36	
Bromomethane	ND	23	ug/Kg	4.63	02/01/2002 13:36	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	110.5	74-121	%	4.63	02/01/2002 13:36	
1,2-Dichloroethane-d4	97.6	70-121	%	4.63	02/01/2002 13:36	
Toluene-d8	104.2	81-117	%	4.63	02/01/2002 13:36	

## Halogenated Volatile Organic Compounds by 8021B/8260B

Lowney &amp; Associates Oakland

Test Method: 8260B

Attn: Mark Arniola

Prep Method: 5030B/5035

 STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

Sample ID: <b>SSC-7</b>	Lab Sample ID: 2002-01-0517-003
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
	Extracted: 02/01/2002 14:01
Sampled: 01/31/2002 10:00	QC-Batch: 2002/02/01-01.09
Matrix: Soil	

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	02/01/2002 14:01	
Vinyl chloride	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
Chloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
Methylene chloride	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
Chloroform	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
Trichloroethene	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
Chlorobenzene	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
Bromoform	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
Chloromethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
Bromomethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:01	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	102.1	74-121	%	1.00	02/01/2002 14:01	
1,2-Dichloroethane-d4	100.3	70-121	%	1.00	02/01/2002 14:01	
Toluene-d8	101.9	81-117	%	1.00	02/01/2002 14:01	



Halogenated Volatile Organic Compounds by 8021B/8260B

Lowney & Associates Oakland

Test Method: 8260B

Attn: Mark Arniola

Prep Method: 5030B/5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-9</b>	Lab Sample ID: 2002-01-0517-005
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:00	Extracted: 02/01/2002 14:53
Matrix: Soil	QC-Batch: 2002/02/01-01.09

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	02/01/2002 14:53	
Vinyl chloride	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Chloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Methylene chloride	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Chloroform	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Trichloroethene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Chlorobenzene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Bromoform	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Chloromethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Bromomethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	106.1	74-121	%	1.00	02/01/2002 14:53	
1,2-Dichloroethane-d4	101.3	70-121	%	1.00	02/01/2002 14:53	
Toluene-d8	108.3	81-117	%	1.00	02/01/2002 14:53	

## Halogenated Volatile Organic Compounds by 8021B/8260B

Lowney &amp; Associates Oakland

Test Method: 8260B

Attn: Mark Arniola

Prep Method: 5030B/5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: SP1-1	Lab Sample ID: 2002-01-0517-016
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:00	Extracted: 02/01/2002 14:53
Matrix: Soil	QC-Batch: 2002/02/01-01.09

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	02/01/2002 14:53	
Vinyl chloride	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Chloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Methylene chloride	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Chloroform	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Trichloroethene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Chlorobenzene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Bromoform	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Chloromethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
Bromomethane	ND	5.0	ug/Kg	1.00	02/01/2002 14:53	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	99.9	74-121	%	1.00	02/01/2002 14:53	
1,2-Dichloroethane-d4	100.4	70-121	%	1.00	02/01/2002 14:53	
Toluene-d8	102.8	81-117	%	1.00	02/01/2002 14:53	

Halogenated Volatile Organic Compounds by 8021B/8260B

## Batch QC report

Test Method: 8260B

Prep Method: 5035

 STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

Method Blank

Soil

QC Batch # 2002/02/01-01.09

MB: 2002/02/01-01.09-004

Date Extracted: 02/01/2002 10:17

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Bromodichloromethane	ND	5.0	ug/Kg	02/01/2002 10:17	
Bromoform	ND	5.0	ug/Kg	02/01/2002 10:17	
Bromomethane	ND	10	ug/Kg	02/01/2002 10:17	
Carbon tetrachloride	ND	5.0	ug/Kg	02/01/2002 10:17	
Chlorobenzene	ND	5.0	ug/Kg	02/01/2002 10:17	
Chloroethane	ND	10	ug/Kg	02/01/2002 10:17	
2-Chloroethylvinyl ether	ND	50	ug/Kg	02/01/2002 10:17	
Chloroform	ND	5.0	ug/Kg	02/01/2002 10:17	
Chloromethane	ND	10	ug/Kg	02/01/2002 10:17	
Dibromochloromethane	ND	5.0	ug/Kg	02/01/2002 10:17	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	02/01/2002 10:17	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	02/01/2002 10:17	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	02/01/2002 10:17	
Dichlorodifluoromethane	ND	10	ug/Kg	02/01/2002 10:17	
1,1-Dichloroethane	ND	5.0	ug/Kg	02/01/2002 10:17	
1,2-Dichloroethane	ND	5.0	ug/Kg	02/01/2002 10:17	
1,1-Dichloroethene	ND	5.0	ug/Kg	02/01/2002 10:17	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	02/01/2002 10:17	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	02/01/2002 10:17	
1,2-Dichloropropane	ND	5.0	ug/Kg	02/01/2002 10:17	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	02/01/2002 10:17	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	02/01/2002 10:17	
Methylene chloride	ND	5.0	ug/Kg	02/01/2002 10:17	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	02/01/2002 10:17	
Tetrachloroethene	ND	5.0	ug/Kg	02/01/2002 10:17	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	02/01/2002 10:17	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	02/01/2002 10:17	
Trichloroethene	ND	5.0	ug/Kg	02/01/2002 10:17	
Trichlorofluoromethane	ND	5.0	ug/Kg	02/01/2002 10:17	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	02/01/2002 10:17	
Vinyl chloride	ND	5.0	ug/Kg	02/01/2002 10:17	
<b>Surrogate(s)</b>					
4-Bromofluorobenzene	111.5	74-121	%	02/01/2002 10:17	
1,2-Dichloroethane-d4	103.9	70-121	%	02/01/2002 10:17	
Toluene-d8	108.6	81-117	%	02/01/2002 10:17	

Halogenated Volatile Organic Compounds by 8021B/8260B

**Batch QC report**

Test Method: 8260B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/01-01.09**  
 LCS: 2002/02/01-01.09-002 Extracted: 02/01/2002 09:20 Analyzed: 02/01/2002 09:20  
 LCSD: 2002/02/01-01.09-003 Extracted: 02/01/2002 09:51 Analyzed: 02/01/2002 09:51

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

CA DHS ELAP#1094

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Chlorobenzene	97.5	99.6	100.0	100.0	97.5	99.6	2.1	61-121	20		
1,1-Dichloroethene	81.3	90.9	100.0	100.0	81.3	90.9	11.1	65-125	20		
Trichloroethene	87.9	95.9	100.0	100.0	87.9	95.9	8.7	74-134	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	573	538	500	500	114.6	107.6		74-121			
1,2-Dichloroethane-d4	499	532	500	500	99.8	106.4		70-121			
Toluene-d8	527	527	500	500	105.4	105.4		81-117			



Halogenated Volatile Organic Compounds by 8021B/8260B

**Legend & Notes**

Test Method: 8260B

Prep Method: 5030B/5035

**Analysis Flags**

Im

Reporting limits raised due to high level of non-target analyte materials.

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)  
[www.chromalab.com](http://www.chromalab.com)

CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 1269 66th St. & 1274 65th St.

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

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-5	Soil	01/31/2002 10:00	1
SSC-7	Soil	01/31/2002 10:00	3
SSC-8	Soil	01/31/2002 10:00	4
SSC-9	Soil	01/31/2002 10:00	5
SP1-1	Soil	01/31/2002 10:00	16

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Test Method: 8015M  
8021B

Attn: Mark Arniola

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-5</b>	Lab Sample ID: 2002-01-0517-001
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:00	Extracted: 02/06/2002 13:58
Matrix: Soil	QC-Batch: 2002/02/06-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1.2	1.0	mg/Kg	1.00	02/06/2002 13:58	
Benzene	ND	0.0050	mg/Kg	1.00	02/06/2002 13:58	
Toluene	ND	0.0050	mg/Kg	1.00	02/06/2002 13:58	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	02/06/2002 13:58	
Xylene(s)	ND	0.0050	mg/Kg	1.00	02/06/2002 13:58	
MTBE	ND	0.0050	mg/Kg	1.00	02/06/2002 13:58	
<b>Surrogate(s)</b>						
Trifluorotoluene	117.9	53-125	%	1.00	02/06/2002 13:58	
4-Bromofluorobenzene-FID	110.9	58-124	%	1.00	02/06/2002 13:58	

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Test Method: 8015M  
8021B

Attn: Mark Arniola

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SSC-7</b>	Lab Sample ID: 2002-01-0517-003
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:00	Extracted: 01/31/2002 18:27
Matrix: Soil	QC-Batch: 2002/01/31-01.03

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.02	01/31/2002 18:27	
Benzene	ND	0.0051	mg/Kg	1.02	01/31/2002 18:27	
Toluene	ND	0.0051	mg/Kg	1.02	01/31/2002 18:27	
Ethyl benzene	ND	0.0051	mg/Kg	1.02	01/31/2002 18:27	
Xylene(s)	ND	0.0051	mg/Kg	1.02	01/31/2002 18:27	
MTBE	ND	0.0051	mg/Kg	1.02	01/31/2002 18:27	
<b>Surrogate(s)</b>						
Trifluorotoluene	108.2	53-125	%	1.02	01/31/2002 18:27	





Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Test Method: 8015M  
8021B

Attn: Mark Arniola

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-8</b>	Lab Sample ID: 2002-01-0517-004
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:00	Extracted: 02/06/2002 17:14
Matrix: Soil	QC-Batch: 2002/02/06-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	02/06/2002 17:14	
Benzene	ND	0.0050	mg/Kg	1.00	02/06/2002 17:14	
Toluene	ND	0.0050	mg/Kg	1.00	02/06/2002 17:14	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	02/06/2002 17:14	
Xylene(s)	ND	0.0050	mg/Kg	1.00	02/06/2002 17:14	
MTBE	ND	0.0050	mg/Kg	1.00	02/06/2002 17:14	
<b>Surrogate(s)</b>						
Trifluorotoluene	110.3	53-125	%	1.00	02/06/2002 17:14	
Trifluorotoluene-FID	87.5	53-125	%	1.00	02/06/2002 17:14	

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Test Method: 8015M  
8021B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Attn: Mark Arniola

Prep Method: 5035

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

Sample ID: <b>SSC-9</b>	Lab Sample ID: 2002-01-0517-005
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:00	Extracted: 02/01/2002 15:05
Matrix: Soil	QC-Batch: 2002/02/01-01.03

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.02	02/01/2002 15:05	
Benzene	ND	0.0051	mg/Kg	1.02	02/01/2002 15:05	
Toluene	ND	0.0051	mg/Kg	1.02	02/01/2002 15:05	
Ethyl benzene	ND	0.0051	mg/Kg	1.02	02/01/2002 15:05	
Xylene(s)	ND	0.0051	mg/Kg	1.02	02/01/2002 15:05	
MTBE	ND	0.0051	mg/Kg	1.02	02/01/2002 15:05	
<b>Surrogate(s)</b>						
Trifluorotoluene	107.9	53-125	%	1.02	02/01/2002 15:05	
4-Bromofluorobenzene-FID	78.4	58-124	%	1.02	02/01/2002 15:05	



Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Test Method: 8015M  
8021B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Attn: Mark Arniola

Prep Method: 5035

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

Sample ID: SP1-1	Lab Sample ID: 2002-01-0517-016
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:00	Extracted: 02/01/2002 19:50
Matrix: Soil	QC-Batch: 2002/02/01-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	02/01/2002 19:50	
Benzene	ND	0.0050	mg/Kg	1.00	02/01/2002 19:50	
Toluene	ND	0.0050	mg/Kg	1.00	02/01/2002 19:50	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	02/01/2002 19:50	
Xylene(s)	ND	0.0050	mg/Kg	1.00	02/01/2002 19:50	
MTBE	ND	0.0050	mg/Kg	1.00	02/01/2002 19:50	
<b>Surrogate(s)</b>						
Trifluorotoluene	116.4	53-125	%	1.00	02/01/2002 19:50	
4-Bromofluorobenzene-FID	92.1	58-124	%	1.00	02/01/2002 19:50	

Gas/BTEX Compounds by 8015M/8021

**Batch QC report**

Test Method: 8015M  
8021B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/01/31-01.03</b>
MB: 2002/01/31-01.03-004		Date Extracted: 01/31/2002 09:49

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	01/31/2002 09:49	
Benzene	ND	0.0050	mg/Kg	01/31/2002 09:49	
Toluene	ND	0.0050	mg/Kg	01/31/2002 09:49	
Ethyl benzene	ND	0.0050	mg/Kg	01/31/2002 09:49	
Xylene(s)	ND	0.0050	mg/Kg	01/31/2002 09:49	
MTBE	ND	0.0050	mg/Kg	01/31/2002 09:49	
<b>Surrogate(s)</b>					
Trifluorotoluene	98.7	53-125	%	01/31/2002 09:49	
4-Bromofluorobenzene-FID	100.9	58-124	%	01/31/2002 09:49	

Gas/BTEX Compounds by 8015M/8021

**Batch QC report**

Test Method: 8015M  
8021B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/02/01-01.03</b>
MB: 2002/02/01-01.03-004		Date Extracted: 02/01/2002 09:40

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	02/01/2002 09:40	
Benzene	ND	0.0050	mg/Kg	02/01/2002 09:40	
Toluene	ND	0.0050	mg/Kg	02/01/2002 09:40	
Ethyl benzene	ND	0.0050	mg/Kg	02/01/2002 09:40	
Xylene(s)	ND	0.0050	mg/Kg	02/01/2002 09:40	
MTBE	ND	0.0050	mg/Kg	02/01/2002 09:40	
<b>Surrogate(s)</b>					
Trifluorotoluene	103.0	53-125	%	02/01/2002 09:40	
4-Bromofluorobenzene-FID	93.2	58-124	%	02/01/2002 09:40	



Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M  
8021B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/02/06-01.03</b>
MB: 2002/02/06-01.03-005		Date Extracted: 02/06/2002 11:06

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	02/06/2002 11:06	
Benzene	ND	0.0050	mg/Kg	02/06/2002 11:06	
Toluene	ND	0.0050	mg/Kg	02/06/2002 11:06	
Ethyl benzene	ND	0.0050	mg/Kg	02/06/2002 11:06	
Xylene(s)	ND	0.0050	mg/Kg	02/06/2002 11:06	
MTBE	ND	0.0050	mg/Kg	02/06/2002 11:06	
<b>Surrogate(s)</b>					
Trifluorotoluene	106.4	53-125	%	02/06/2002 11:06	
4-Bromofluorobenzene-FID	86.2	58-124	%	02/06/2002 11:06	

Gas/BTEX Compounds by 8015M/8021

**Batch QC report**

Test Method: 8021B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/01/31-01.03**  
 LCS: 2002/01/31-01.03-005 Extracted: 01/31/2002 10:19 Analyzed: 01/31/2002 10:19  
 LCSD: 2002/01/31-01.03-006 Extracted: 01/31/2002 10:50 Analyzed: 01/31/2002 10:50

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.0946	0.0866	0.1000	0.1000	94.6	86.6	8.8	77-123	35		
Toluene	0.0929	0.0858	0.1000	0.1000	92.9	85.8	7.9	78-122	35		
Ethyl benzene	0.0909	0.0849	0.1000	0.1000	90.9	84.9	6.8	70-130	35		
Xylene(s)	0.273	0.258	0.300	0.300	91.0	86.0	5.6	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	473	428	500	500	94.6	85.6		53-125			



Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/01/31-01.03

LCS: 2002/01/31-01.03-007 Extracted: 01/31/2002 11:21 Analyzed: 01/31/2002 11:21

LCSD: 2002/01/31-01.03-008 Extracted: 01/31/2002 11:51 Analyzed: 01/31/2002 11:51

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Gasoline	0.464	0.418	0.500	0.500	92.8	83.6	10.4	75-125	35		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	476	415	500	500	95.2	83.0		58-124			



Gas/BTEX Compounds by 8015M/8021

**Batch QC report**

Test Method: 8015M

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/01-01.03**  
 LCS: 2002/02/01-01.03-008 Extracted: 02/01/2002 12:19 Analyzed: 02/01/2002 12:19  
 LCSD: 2002/02/01-01.03-009 Extracted: 02/01/2002 11:43 Analyzed: 02/01/2002 11:43

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.474	0.435	0.500	0.500	94.8	87.0	8.6	75-125	35		
<i>Surrogate(s)</i>											
4-Bromofluorobenzene	496	444	500	500	99.2	88.8		58-124	0		



Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/02/01-01.03**  
 LCS: 2002/02/01-01.03-005 Extracted: 02/01/2002 10:11 Analyzed: 02/01/2002 10:11  
 LCSD: 2002/02/01-01.03-006 Extracted: 02/01/2002 10:41 Analyzed: 02/01/2002 10:41

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.103	0.0973	0.1000	0.1000	103.0	97.3	5.7	77-123	35		
Toluene	0.102	0.0972	0.1000	0.1000	102.0	97.2	4.8	78-122	35		
Ethyl benzene	0.101	0.0968	0.1000	0.1000	101.0	96.8	4.2	70-130	35		
Xylene(s)	0.298	0.289	0.300	0.300	99.3	96.3	3.1	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	528	503	500	500	105.6	100.6		53-125			

Gas/BTEX Compounds by 8015M/8021

**Batch QC report**

Test Method: 8021B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/06-01.03**  
 LCS: 2002/02/06-01.03-006 Extracted: 02/06/2002 11:37 Analyzed: 02/06/2002 11:37  
 LCSD: 2002/02/06-01.03-007 Extracted: 02/06/2002 12:07 Analyzed: 02/06/2002 12:07

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.103	0.0983	0.1000	0.1000	103.0	98.3	4.7	77-123	35		
Toluene	0.103	0.0985	0.1000	0.1000	103.0	98.5	4.5	78-122	35		
Ethyl benzene	0.102	0.0985	0.1000	0.1000	102.0	98.5	3.5	70-130	35		
Xylene(s)	0.300	0.293	0.300	0.300	100.0	97.7	2.3	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	549	513	500	500	109.8	102.6		53-125			



Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/06-01.03**  
 LCS: 2002/02/06-01.03-008    Extracted: 02/06/2002 12:38    Analyzed: 02/06/2002 12:38  
 LCSD: 2002/02/06-01.03-009    Extracted: 02/06/2002 13:09    Analyzed: 02/06/2002 13:09

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline <i>Surrogate(s)</i>	0.443	0.458	0.500	0.500	88.6	91.6	3.3	75-125	35		
4-Bromofluorobenzene	416	416	500	500	83.2	83.2		58-124			

Gas/BTEX Compounds (High Level)

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 1269 66th St. & 1274 65th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-6	Soil	01/31/2002 10:00	2



Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Test Method: 8015M  
8021B

Attn: Mark Arniola

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: SSC-6	Lab Sample ID: 2002-01-0517-002
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:00	Extracted: 02/05/2002 14:29
Matrix: Soil	QC-Batch: 2002/02/05-05.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	96	10	mg/Kg	1.00	02/06/2002 14:29	g
Benzene	ND	0.62	mg/Kg	1.00	02/06/2002 14:29	
Toluene	ND	0.62	mg/Kg	1.00	02/06/2002 14:29	
Ethyl benzene	ND	0.62	mg/Kg	1.00	02/06/2002 14:29	
Xylene(s)	ND	0.62	mg/Kg	1.00	02/06/2002 14:29	
MTBE	ND	0.62	mg/Kg	1.00	02/06/2002 14:29	
<b>Surrogate(s)</b>						
Trifluorotoluene	151.0	53-125	%	1.00	02/06/2002 14:29	sh
4-Bromofluorobenzene-FID	138.0	58-124	%	1.00	02/06/2002 14:29	sh





Gas/BTEX Compounds (High Level)

Batch QC report

Test Method: 8015M  
8021B

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/02/05-05.03**  
 LCS: 2002/02/05-05.03-002 Extracted: 02/05/2002 11:17 Analyzed: 02/05/2002 11:17  
 LCSD: 2002/02/05-05.03-003 Extracted: 02/05/2002 11:46 Analyzed: 02/05/2002 11:46

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctr.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.758	0.737	0.625	0.625	121.3	117.9	2.8	75-125	35		
Benzene	0.124	0.114	0.125	0.125	99.2	91.2	8.4	77-123	35		
Toluene	0.124	0.116	0.125	0.125	99.2	92.8	6.7	78-122	35		
Ethyl benzene	0.116	0.109	0.125	0.125	92.8	87.2	6.2	70-130	35		
Xylene(s)	0.368	0.339	0.375	0.375	98.1	90.4	8.2	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	95.6	86.1	100	100	95.6	86.1		53-125	0		
4-Bromofluorobenzene	109	106	100	100	109.0	106.0		58-124	0		



Gas/BTEX Compounds (High Level)

**Legend & Notes**

Test Method: 8015M  
8021B

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Analyte Flags**

g Hydrocarbon reported in the gasoline range does not match our gasoline standard

**Analyte Flags**

sh Surrogate recovery was higher than QC limit due to matrix interference.



Metals

<b>Lowney &amp; Associates Oakland</b>	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 1269 66th St. & 1274 65th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SSC-5	Soil	01/31/2002 10:00	1
SSC-6	Soil	01/31/2002 10:00	2
SSC-7	Soil	01/31/2002 10:00	3
SSC-8	Soil	01/31/2002 10:00	4
SSC-9	Soil	01/31/2002 10:00	5
SSC-10	Soil	01/31/2002 10:30	6
SSC-11	Soil	01/31/2002 10:30	7
SSC-12	Soil	01/31/2002 10:30	8
SSC-13	Soil	01/31/2002 10:30	9
SSC-14	Soil	01/31/2002 10:30	10
SSC-15	Soil	01/31/2002 11:00	11
SSC-16	Soil	01/31/2002 11:00	12
SSC-17	Soil	01/31/2002 11:00	13
SSC-18	Soil	01/31/2002 11:00	14
SSC-19	Soil	01/31/2002 11:00	15
SP1-1	Soil	01/31/2002 10:00	16

Metals

**Lowney & Associates Oakland**

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-5</b>	Lab Sample ID: 2002-01-0517-001
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
	Extracted: 01/31/2002 17:02
Sampled: 01/31/2002 10:00	QC-Batch: 2002/01/31-03.15
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	4.7	1.0	mg/Kg	1.00	02/01/2002 07:35	



Metals

Lowney & Associates Oakland

Test Method: 6010B

Attn: Mark Arniola

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: SSC-6	Lab Sample ID: 2002-01-0517-002
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:00	Extracted: 01/31/2002 17:02
Matrix: Soil	QC-Batch: 2002/01/31-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	13	1.0	mg/Kg	1.00	02/01/2002 07:46	

Metals

**Lowney & Associates Oakland**

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-7</b>	Lab Sample ID: 2002-01-0517-003
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:00	Extracted: 01/31/2002 17:02
Matrix: Soil	QC-Batch: 2002/01/31-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	19	1.0	mg/Kg	1.00	02/01/2002 07:49	



Metals

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-8</b>	Lab Sample ID: 2002-01-0517-004
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:00	Extracted: 01/31/2002 17:02
Matrix: Soil	QC-Batch: 2002/01/31-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	4.7	1.0	mg/Kg	1.00	02/01/2002 07:53	

Metals

**Lowney & Associates Oakland**

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-9</b>	Lab Sample ID: 2002-01-0517-005
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:00	Extracted: 01/31/2002 17:02
Matrix: Soil	QC-Batch: 2002/01/31-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	4.3	1.0	mg/Kg	1.00	02/01/2002 08:15	



Metals

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-10</b>	Lab Sample ID: 2002-01-0517-006
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:30	Extracted: 01/31/2002 17:02
Matrix: Soil	QC-Batch: 2002/01/31-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	19	1.0	mg/Kg	1.00	02/01/2002 08:19	



Metals

**Lowney & Associates Oakland**

Test Method: 6010B

Attn: Mark Arniola

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SSC-11</b>	Lab Sample ID: 2002-01-0517-007
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:30	Extracted: 01/31/2002 17:02
Matrix: Soil	QC-Batch: 2002/01/31-03.15

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	180	1.0	mg/Kg	1.00	02/01/2002 08:23	



Metals

Lowney & Associates Oakland

Test Method: 6010B

Attn: Mark Arniola

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-12</b>	Lab Sample ID: 2002-01-0517-008
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:30	Extracted: 01/31/2002 17:02
Matrix: Soil	QC-Batch: 2002/01/31-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	320	1.0	mg/Kg	1.00	02/01/2002 08:27	

Metals

**Lowney & Associates Oakland**

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-13</b>	Lab Sample ID: 2002-01-0517-009
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:30	Extracted: 01/31/2002 17:02
Matrix: Soil	QC-Batch: 2002/01/31-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	14	1.0	mg/Kg	1.00	02/01/2002 08:31	



Metals

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-14</b>	Lab Sample ID: 2002-01-0517-010
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:30	Extracted: 01/31/2002 17:02
Matrix: Soil	QC-Batch: 2002/01/31-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	550	1.0	mg/Kg	1.00	02/01/2002 08:35	

Metals

**Lowney & Associates Oakland**

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-15</b>	Lab Sample ID: 2002-01-0517-011
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 11:00	Extracted: 01/31/2002 17:02
Matrix: Soil	QC-Batch: 2002/01/31-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	4.2	1.0	mg/Kg	1.00	02/01/2002 08:39	



Metals

Lowney & Associates Oakland

Test Method: 6010B

Attn: Mark Arniola

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-16</b>	Lab Sample ID: 2002-01-0517-012
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 11:00	Extracted: 01/31/2002 17:02
Matrix: Soil	QC-Batch: 2002/01/31-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	5.9	1.0	mg/Kg	1.00	02/01/2002 08:45	

Metals

**Lowney & Associates Oakland**

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-17</b>	Lab Sample ID: 2002-01-0517-013
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 11:00	Extracted: 01/31/2002 17:02
Matrix: Soil	QC-Batch: 2002/01/31-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	13	1.0	mg/Kg	1.00	02/01/2002 08:48	



Metals

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-18</b>	Lab Sample ID: 2002-01-0517-014
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 11:00	Extracted: 01/31/2002 17:02
Matrix: Soil	QC-Batch: 2002/01/31-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	13	1.0	mg/Kg	1.00	02/01/2002 08:52	



Metals

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-19</b>	Lab Sample ID: 2002-01-0517-015
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 11:00	Extracted: 01/31/2002 17:02
Matrix: Soil	QC-Batch: 2002/01/31-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	5.6	1.0	mg/Kg	1.00	02/01/2002 09:16	



Metals

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: SP1-1	Lab Sample ID: 2002-01-0517-016
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:00	Extracted: 01/31/2002 17:02
Matrix: Soil	QC-Batch: 2002/01/31-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	5.0	1.0	mg/Kg	1.00	02/01/2002 09:20	

Metals

**Batch QC report**

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/01/31-03.15</b>
MB: 2002/01/31-03.15-011		Date Extracted: 01/31/2002 17:02

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	02/01/2002 07:20	



Metals  
Batch QC report

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/01/31-03.15**  
 LCS: 2002/01/31-03.15-012 Extracted: 01/31/2002 17:02 Analyzed: 02/01/2002 07:24  
 LCSD: 2002/01/31-03.15-013 Extracted: 01/31/2002 17:02 Analyzed: 02/01/2002 07:28

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Lead	94.4	96.2	100.0	100.0	94.4	96.2	1.9	80-120	20		

TEPH w/ Silica Gel Clean-up

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 1269 66th St. & 1274 65th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-5	Soil	01/31/2002 10:00	1
SSC-6	Soil	01/31/2002 10:00	2
SSC-7	Soil	01/31/2002 10:00	3
SSC-8	Soil	01/31/2002 10:00	4
SSC-9	Soil	01/31/2002 10:00	5
SP1-1	Soil	01/31/2002 10:00	16



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-5</b>	Lab Sample ID: 2002-01-0517-001
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:00	Extracted: 01/31/2002 15:37
Matrix: Soil	QC-Batch: 2002/01/31-03.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	130	1.0	mg/Kg	1.00	02/01/2002 09:15	ndp
Motor Oil	98	50	mg/Kg	1.00	02/01/2002 09:15	
<b>Surrogate(s)</b>						
o-Terphenyl	86.7	60-130	%	1.00	02/01/2002 09:15	

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SSC-6</b>	Lab Sample ID: 2002-01-0517-002
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:00	Extracted: 01/31/2002 15:37
Matrix: Soil	QC-Batch: 2002/01/31-03.10

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	53	1.0	mg/Kg	1.00	02/01/2002 08:37	ndp
Motor Oil	59	50	mg/Kg	1.00	02/01/2002 08:37	
<b>Surrogate(s)</b> o-Terphenyl	83.4	60-130	%	1.00	02/01/2002 08:37	



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-7</b>	Lab Sample ID: 2002-01-0517-003
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:00	Extracted: 01/31/2002 15:37
Matrix: Soil	QC-Batch: 2002/01/31-03.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	02/01/2002 08:00	
Motor Oil	ND	50	mg/Kg	1.00	02/01/2002 08:00	
<b>Surrogate(s)</b>						
o-Terphenyl	62.7	60-130	%	1.00	02/01/2002 08:00	



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SSC-8</b>	Lab Sample ID: 2002-01-0517-004
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:00	Extracted: 01/31/2002 15:37
Matrix: Soil	QC-Batch: 2002/01/31-03.10

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	02/01/2002 07:22	
Motor Oil	ND	50	mg/Kg	1.00	02/01/2002 07:22	
<b>Surrogate(s)</b>						
o-Terphenyl	75.6	60-130	%	1.00	02/01/2002 07:22	



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland  
 Attn: Mark Arniola

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

STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-9</b>	Lab Sample ID: 2002-01-0517-005
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:00	Extracted: 01/31/2002 15:37
Matrix: Soil	QC-Batch: 2002/01/31-03.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	02/01/2002 06:45	
Motor Oil	ND	50	mg/Kg	1.00	02/01/2002 06:45	
<b>Surrogate(s)</b>						
o-Terphenyl	75.8	60-130	%	1.00	02/01/2002 06:45	

TEPH w/ Silica Gel Clean-up

**Lowney & Associates Oakland**

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SP1-1</b>	Lab Sample ID: 2002-01-0517-016
Project: 1424-4B 1269 66th St. & 1274 65th St.	Received: 01/31/2002 13:30
Sampled: 01/31/2002 10:00	Extracted: 01/31/2002 15:37
Matrix: Soil	QC-Batch: 2002/01/31-03.10

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	13	1.0	mg/Kg	1.00	02/01/2002 06:08	
Motor Oil	ND	50	mg/Kg	1.00	02/01/2002 06:08	
<i>Surrogate(s)</i>						
o-Terphenyl	89.6	60-130	%	1.00	02/01/2002 06:08	



TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3550/8015  
M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/01/31-03.10</b>
MB: 2002/01/31-03.10-001		Date Extracted: 01/31/2002 15:37

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	02/01/2002 08:25	
Motor Oil	ND	50	mg/Kg	02/01/2002 08:25	
<b>Surrogate(s)</b>					
o-Terphenyl	73.9	60-130	%	02/01/2002 08:25	

TEPH w/ Silica Gel Clean-up

**Batch QC report**

Test Method: 8015M

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/01/31-03.10**  
 LCS: 2002/01/31-03.10-002 Extracted: 01/31/2002 15:37 Analyzed: 02/01/2002 06:55  
 LCSD: 2002/01/31-03.10-003 Extracted: 01/31/2002 15:37 Analyzed: 02/01/2002 07:47

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel <i>Surrogate(s)</i>	31.2	31.6	41.7	41.7	74.8	75.8	1.3	60-130	25		
o-Terphenyl	16.5	16.7	20.0	20.0	82.3	83.3		60-130	0		



TEPH w/ Silica Gel Clean-up

**Legend & Notes**

Test Method: 8015M

Prep Method: 3550/8015M

**Analyte Flags**

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Tel 925 484 1919  
Fax 925 484 1096  
[www.stl-inc.com](http://www.stl-inc.com)  
[www.chromalab.com](http://www.chromalab.com)

CA DHS ELAP#1094

2002-01-0517

**CHAIN OF CUSTODY RECORD**

Project Name: 1269 66th St & 1274 65th St  
 Job No.: 1424-4B  
 Report To: Mark Annola  
 Sampler (print): Veronica Tigbo  
 Sampler (signature): *[Signature]*  
 QC Requirement:  Level A (standard)

**Turnaround Requirements**

5 Working Days  
 48 Hours  
 24 Hours *Need results by 5:00 p.m. 2/1/02*  
 2-3 Hours RUSH  
 \_\_\_\_\_

**ANALYSES REQUESTED**

Sample I.D.	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	TPH as gas/BTEX/MTBE (8015/8020)	TPH as diesel (8015M and water oil silica gel column)	TRPH (418.1) silica gel column	Halogenated VOCs (8010)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M (Purgeable and Extractable)	Lead (6010)	Remarks
SSC-5	01/31/02	10:00		Soil	1	X	X		X							X	
SSC-6						X	X		X							X	
SSC-7						X	X		X							X	
SSC-8						X	X		X							X	
SSC-9						X	X		X							X	
SSC-10		10:30														X	
SSC-11																X	
SSC-12																X	
SSC-13																X	
SSC-14																X	9.4°C
SSC-15		11:00														X	Work
SSC-16																X	Contra
SSC-17																X	

**RUSH**

Relinquished By: *[Signature]* Date: 01/31/02 Time: 13:30 Received By: *[Signature]* Date: 1-31-02 Time: 13:30 PM Initial: \_\_\_\_\_  
 Relinquished By: *[Signature]* Date: 1/31 Time: 14:5 Received By: *[Signature]* Date: 1/31/02 Time: 13:30  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Lab of Record: \_\_\_\_\_ Temp: \_\_\_\_\_  
 Received by Lab: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

P1052





Submission #: 2002-02-0018

Date: February 7, 2002

SEVERN

TRENT

SERVICES

**Lowney & Associates Oakland**

167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-4B  
1274 65th St. & 1269 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mr. Arniola,

Attached is our report for your samples received on Friday February 1, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
March 18, 2002 unless you have requested otherwise.

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

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

Sincerely,



Vincent Vancil  
Project Manager

Volatile Organic Compounds by 8260B (High Level)

<b>Lowney &amp; Associates Oakland</b>	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 1274 65th St. & 1269 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-20	Soil	02/01/2002 14:00	1

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

Lowney &amp; Associates Oakland

Test Method: 8260B

Attn: Mark Arniola

Prep Method: 5035

 STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-20</b>	Lab Sample ID: 2002-02-0018-001
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/01/2002 17:00
Sampled: 02/01/2002 14:00	Extracted: 02/05/2002 14:59
Matrix: Soil	QC-Batch: 2002/02/05-02.07
Sample/Analysis Flag: lrn ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Bromodichloromethane	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
Bromoform	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
Bromomethane	ND	5000	ug/Kg	2,000.00	02/05/2002 14:59	
Carbon tetrachloride	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
Chlorobenzene	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
Chloroethane	ND	5000	ug/Kg	2,000.00	02/05/2002 14:59	
2-Chloroethylvinyl ether	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
Chloroform	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
Chloromethane	ND	5000	ug/Kg	2,000.00	02/05/2002 14:59	
Dibromochloromethane	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
1,2-Dichlorobenzene	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
1,3-Dichlorobenzene	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
1,4-Dichlorobenzene	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
Dichlorodifluoromethane	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
1,1-Dichloroethane	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
1,2-Dichloroethane	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
1,1-Dichloroethene	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
cis-1,2-Dichloroethene	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
trans-1,2-Dichloroethene	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
1,2-Dichloropropane	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
cis-1,3-Dichloropropene	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
trans-1,3-Dichloropropene	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
Methylene chloride	ND	25000	ug/Kg	2,000.00	02/05/2002 14:59	
1,1,2,2-Tetrachloroethane	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
Tetrachloroethene	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
1,1,1-Trichloroethane	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
1,1,2-Trichloroethane	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
Trichloroethene	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
Vinyl chloride	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
Trichlorotrifluoroethane	ND	2500	ug/Kg	2,000.00	02/05/2002 14:59	
Trichlorofluoromethane	ND	10000	ug/Kg	2,000.00	02/05/2002 14:59	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	128.8	74-121	%	2,000.00	02/05/2002 14:59	sh
1,2-Dichloroethane-d4	111.2	70-121	%	2,000.00	02/05/2002 14:59	
Toluene-d8	112.3	81-117	%	2,000.00	02/05/2002 14:59	

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

## Batch QC report

Test Method: 8260B

Prep Method: 5035

 STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

Method Blank

Soil

QC Batch # 2002/02/05-02.07

MB: 2002/02/05-02.07-020

Date Extracted: 02/05/2002 18:36

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Bromodichloromethane	ND	250	ug/Kg	02/05/2002 18:36	
Bromoform	ND	250	ug/Kg	02/05/2002 18:36	
Bromomethane	ND	500	ug/Kg	02/05/2002 18:36	
Carbon tetrachloride	ND	250	ug/Kg	02/05/2002 18:36	
Chlorobenzene	ND	250	ug/Kg	02/05/2002 18:36	
Chloroethane	ND	500	ug/Kg	02/05/2002 18:36	
2-Chloroethylvinyl ether	ND	250	ug/Kg	02/05/2002 18:36	
Chloroform	ND	250	ug/Kg	02/05/2002 18:36	
Chloromethane	ND	500	ug/Kg	02/05/2002 18:36	
Dibromochloromethane	ND	250	ug/Kg	02/05/2002 18:36	
1,2-Dichlorobenzene	ND	250	ug/Kg	02/05/2002 18:36	
1,3-Dichlorobenzene	ND	250	ug/Kg	02/05/2002 18:36	
1,4-Dichlorobenzene	ND	250	ug/Kg	02/05/2002 18:36	
Dichlorodifluoromethane	ND	250	ug/Kg	02/05/2002 18:36	
1,1-Dichloroethane	ND	250	ug/Kg	02/05/2002 18:36	
1,2-Dichloroethane	ND	250	ug/Kg	02/05/2002 18:36	
1,1-Dichloroethene	ND	250	ug/Kg	02/05/2002 18:36	
cis-1,2-Dichloroethene	ND	250	ug/Kg	02/05/2002 18:36	
trans-1,2-Dichloroethene	ND	250	ug/Kg	02/05/2002 18:36	
1,2-Dichloropropane	ND	250	ug/Kg	02/05/2002 18:36	
cis-1,3-Dichloropropene	ND	250	ug/Kg	02/05/2002 18:36	
trans-1,3-Dichloropropene	ND	250	ug/Kg	02/05/2002 18:36	
Methylene chloride	ND	2500	ug/Kg	02/05/2002 18:36	
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	02/05/2002 18:36	
Tetrachloroethene	ND	250	ug/Kg	02/05/2002 18:36	
1,1,1-Trichloroethane	ND	250	ug/Kg	02/05/2002 18:36	
1,1,2-Trichloroethane	ND	250	ug/Kg	02/05/2002 18:36	
Trichloroethene	ND	250	ug/Kg	02/05/2002 18:36	
Vinyl chloride	ND	250	ug/Kg	02/05/2002 18:36	
Trichlorotrifluoroethane	ND	250	ug/Kg	02/05/2002 18:36	
Trichlorofluoromethane	ND	1000	ug/Kg	02/05/2002 18:36	
<b>Surrogate(s)</b>					
4-Bromofluorobenzene	95.8	74-121	%	02/05/2002 18:36	
1,2-Dichloroethane-d4	94.0	70-121	%	02/05/2002 18:36	
Toluene-d8	95.4	81-117	%	02/05/2002 18:36	

Volatile Organic Compounds by 8260B (High Level)

**Batch QC report**

Test Method: 8260B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/05-02.07**

LCS: 2002/02/05-02.07-018 Extracted: 02/05/2002 17:48 Analyzed: 02/05/2002 17:48

LCSD: 2002/02/05-02.07-019 Extracted: 02/05/2002 18:12 Analyzed: 02/05/2002 18:12

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

CA DHS ELAP#1094

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Chlorobenzene	10300	9750	10000	10000	103.0	97.5	5.5	61-121	20		
1,1-Dichloroethene	9240	8820	10000	10000	92.4	88.2	4.7	65-125	20		
Trichloroethene	9650	9010	10000	10000	96.5	90.1	6.9	74-134	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	255	237	250	250	102.0	94.8		74-121			
1,2-Dichloroethane-d4	245	227	250	250	98.0	90.8		70-121			
Toluene-d8	247	226	250	250	98.8	90.4		81-117			

Volatile Organic Compounds by 8260B (High Level)

**Legend & Notes**

Test Method: 8260B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Analysis Flags**

lm

Reporting limits raised due to high level of non-target analyte materials.

**Analyte Flags**

sh

Surrogate recovery was higher than QC limit due to matrix interference.



Gas/BTEX Compounds (High Level)

<b>Lowney &amp; Associates Oakland</b>	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 1274 65th St. & 1269 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-20	Soil	02/01/2002 14:00	1

Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Test Method: 8015M  
8021B

Attn: Mark Amiola

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SSC-20</b>	Lab Sample ID: 2002-02-0018-001
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/01/2002 17:00
Sampled: 02/01/2002 14:00	Extracted: 02/05/2002 03:56
Matrix: Soil	QC-Batch: 2002/02/05-05.03

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1100	200	mg/Kg	20.00	02/07/2002 03:56	g
Benzene	ND	12	mg/Kg	20.00	02/07/2002 03:56	
Toluene	ND	12	mg/Kg	20.00	02/07/2002 03:56	
Ethyl benzene	ND	12	mg/Kg	20.00	02/07/2002 03:56	
Xylene(s)	ND	12	mg/Kg	20.00	02/07/2002 03:56	
MTBE	ND	12	mg/Kg	20.00	02/07/2002 03:56	
<b>Surrogate(s)</b>						
Trifluorotoluene	NA	53-125	%	1.00	02/07/2002 03:56	sd
4-Bromofluorobenzene-FID	NA	58-124	%	1.00	02/07/2002 03:56	sd





Gas/BTEX Compounds (High Level)

Batch QC report

Test Method: 8015M  
8021B

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/05-05.03**  
 LCS: 2002/02/05-05.03-002 Extracted: 02/05/2002 11:17 Analyzed: 02/05/2002 11:17  
 LCSD: 2002/02/05-05.03-003 Extracted: 02/05/2002 11:46 Analyzed: 02/05/2002 11:46

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.758	0.737	0.625	0.625	121.3	117.9	2.8	75-125	35		
Benzene	0.124	0.114	0.125	0.125	99.2	91.2	8.4	77-123	35		
Toluene	0.124	0.116	0.125	0.125	99.2	92.8	6.7	78-122	35		
Ethyl benzene	0.116	0.109	0.125	0.125	92.8	87.2	6.2	70-130	35		
Xylene(s)	0.368	0.339	0.375	0.375	98.1	90.4	8.2	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	95.6	86.1	100	100	95.6	86.1		53-125	0		
4-Bromofluorobenzene	109	106	100	100	109.0	106.0		58-124	0		



Gas/BTEX Compounds (High Level)

**Legend & Notes**

Test Method: 8015M  
8021B

Prep Method: 5030

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)  
[www.chromalab.com](http://www.chromalab.com)

CA DHS ELAP#1094

**Analyte Flags**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard

**Analyte Flags**

sd

Surrogate recovery not reportable due to required dilution.

Total Lead

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 1274 65th St. & 1269 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-20	Soil	02/01/2002 14:00	1



Total Lead

Lowney & Associates Oakland

Test Method: 6010B

Attn: Mark Arniola

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-20</b>	Lab Sample ID: 2002-02-0018-001
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/01/2002 17:00
Sampled: 02/01/2002 14:00	Extracted: 02/04/2002 05:57
Matrix: Soil	QC-Batch: 2002/02/04-01.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	7.6	1.0	mg/Kg	1.00	02/04/2002 17:55	

Total Lead

**Batch QC report**

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/02/04-01.15</b>
MB: 2002/02/04-01.15-085		Date Extracted: 02/04/2002 05:57

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	02/04/2002 16:48	



Total Lead  
Batch QC report

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/02/04-01.15**  
 LCS: 2002/02/04-01.15-086 Extracted: 02/04/2002 05:57 Analyzed: 02/04/2002 16:53  
 LCSD: 2002/02/04-01.15-087 Extracted: 02/04/2002 05:57 Analyzed: 02/04/2002 16:56

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

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Lead	96.2	95.7	100.0	100.0	96.2	95.7	0.5	80-120	20		

TEPH w/ Silica Gel Clean-up

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 1274 65th St. & 1269 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-20	Soil	02/01/2002 14:00	1





TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-20</b>	Lab Sample ID: 2002-02-0018-001
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/01/2002 17:00
Sampled: 02/01/2002 14:00	Extracted: 02/01/2002 17:23
Matrix: Soil	QC-Batch: 2002/02/01-04.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	2900	20	mg/Kg	20.00	02/04/2002 07:27	ndp
Motor Oil	ND	1000	mg/Kg	20.00	02/04/2002 07:27	
<b>Surrogate(s)</b>						
o-Terphenyl	NA	60-130	%	20.00	02/04/2002 07:27	sd





TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/02/01-04.10**  
 LCS: 2002/02/01-04.10-001 Extracted: 02/01/2002 17:23 Analyzed: 02/04/2002 08:05  
 LCSD: 2002/02/01-04.10-002 Extracted: 02/01/2002 17:23 Analyzed: 02/04/2002 08:42

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Diesel	36.9	39.0	41.7	41.7	88.5	93.5	5.5	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	18.6	19.6	20.0	20.0	93.2	98.2		60-130	0		

TEPH w/ Silica Gel Clean-up

**Legend & Notes**

Test Method: 8015M

Prep Method: 3550/8015M

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)  
[www.chromalab.com](http://www.chromalab.com)

CA DHS ELAP#1094

**Analyte Flags**

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

**Analyte Flags**

sd

Surrogate recovery not reportable due to required dilution.

**CHAIN OF CUSTODY RECORD**

2002-02-0018

Project Name: <u>D 1424-4B</u>				<b>Turnaround Requirements</b> <input type="checkbox"/> 5 Working Days <input type="checkbox"/> 48 Hours <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 2-3 Hours RUSH <input type="checkbox"/> _____		<b>ANALYSES REQUESTED</b>										
Job No.: <u>127th 65th St 1269 66th St</u>						TPH as gas/BTEX/MTBE (8015/8020) TPH as diesel (8015M) and silica gel column TRPH (418.1) silica gel column Halogenated VOCs (8010) <del>(8010)</del> Organochlorine Pesticides (8081) Metals - As, Hg, Pb, Cd (filer and preserve GW samples in lab) Fuel Oxygenates (8260B) PAHs (8310) PCBs (8082) Fuel Scan 8020/8015M (Purgeable and Extractable) LEAD (6010)	Remarks									
Report To: <u>Mark Armata</u>																
Sampler (print): <u>Veronica Tiglaro</u>																
Sampler (signature): <u>[Signature]</u>																
QC Requirement: <input checked="" type="checkbox"/> Level A (standard)																
Sample I.D.	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.											
<u>SSC-20</u>	<u>1/24/02</u>	<u>14:00</u>		<u>soil</u>	<u>1</u>	X	X	X								
<b>RUSH</b>																
Relinquished By: <u>[Signature]</u>				Date: <u>2-1-02</u> Time: <u>17:00</u>		Received By:			Date:			Time:			PM Initial:	
Relinquished By:				Date:		Time:		Received By:			Date:			Time:		
Relinquished By:				Date:		Time:		Lab of Record:			Received by Lab: <u>N. K...</u> Date: <u>2/1/02</u> Time: <u>17.00</u>			Temp: <u>16.7°C</u>		

**Lowney & Associates Oakland**

167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-4B  
1274 65th St. & 1269 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mr. Arniola,

Attached is our report for your samples received on Monday February 4, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
March 21, 2002 unless you have requested otherwise.  
We appreciate the opportunity to be of service to you. If you have any questions,  
please call me at (925) 484-1919.  
You can also contact me via email. My email address is: [vvancil@chromalab.com](mailto:vvancil@chromalab.com)

Sincerely,



Vincent Vancil  
Project Manager

Gas/BTEX Compounds by 8015M/8021



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 1274 65th St. & 1269 66th St.

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-21A	Soil	02/04/2002 10:00	1
SSC-22A	Soil	02/04/2002 10:00	3

Gas/BTEX Compounds by 8015M/8021

**Lowney & Associates Oakland**

Test Method: 8015M  
8021B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Attn: Mark Arniola

Prep Method: 5035

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

Sample ID: <b>SSC-21A</b>	Lab Sample ID: 2002-02-0041-001
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:03
Sampled: 02/04/2002 10:00	Extracted: 02/06/2002 23:20
Matrix: Soil	QC-Batch: 2002/02/06-01.03

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	02/06/2002 23:20	
Benzene	ND	0.0050	mg/Kg	1.00	02/06/2002 23:20	
Toluene	ND	0.0050	mg/Kg	1.00	02/06/2002 23:20	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	02/06/2002 23:20	
Xylene(s)	ND	0.0050	mg/Kg	1.00	02/06/2002 23:20	
MTBE	ND	0.0050	mg/Kg	1.00	02/06/2002 23:20	
<b>Surrogate(s)</b>						
Trifluorotoluene	120.9	53-125	%	1.00	02/06/2002 23:20	
4-Bromofluorobenzene-FID	103.1	58-124	%	1.00	02/06/2002 23:20	





Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Test Method: 8015M  
8021B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Attn: Mark Arniola

Prep Method: 5035

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

Sample ID: <b>SSC-22A</b>	Lab Sample ID: 2002-02-0041-003
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:03
Sampled: 02/04/2002 10:00	Extracted: 02/06/2002 23:51
Matrix: Soil	QC-Batch: 2002/02/06-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1.2	1.0	mg/Kg	1.00	02/06/2002 23:51	
Benzene	0.016	0.0050	mg/Kg	1.00	02/06/2002 23:51	
Toluene	ND	0.0050	mg/Kg	1.00	02/06/2002 23:51	
Ethyl benzene	0.064	0.0050	mg/Kg	1.00	02/06/2002 23:51	
Xylene(s)	0.17	0.0050	mg/Kg	1.00	02/06/2002 23:51	
MTBE	ND	0.0050	mg/Kg	1.00	02/06/2002 23:51	
<b>Surrogate(s)</b>						
Trifluorotoluene	114.7	53-125	%	1.00	02/06/2002 23:51	
4-Bromofluorobenzene-FID	84.6	58-124	%	1.00	02/06/2002 23:51	





Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/02/06-01.03

LCS: 2002/02/06-01.03-006 Extracted: 02/06/2002 11:37 Analyzed: 02/06/2002 11:37

LCSD: 2002/02/06-01.03-007 Extracted: 02/06/2002 12:07 Analyzed: 02/06/2002 12:07

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Benzene	0.103	0.0983	0.1000	0.1000	103.0	98.3	4.7	77-123	35		
Toluene	0.103	0.0985	0.1000	0.1000	103.0	98.5	4.5	78-122	35		
Ethyl benzene	0.102	0.0985	0.1000	0.1000	102.0	98.5	3.5	70-130	35		
Xylene(s)	0.300	0.293	0.300	0.300	100.0	97.7	2.3	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	549	513	500	500	109.8	102.6		53-125			

Gas/BTEX Compounds by 8015M/8021

**Batch QC report**

Test Method: 8015M

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/06-01.03**  
 LCS: 2002/02/06-01.03-008 Extracted: 02/06/2002 12:38 Analyzed: 02/06/2002 12:38  
 LCSD: 2002/02/06-01.03-009 Extracted: 02/06/2002 13:09 Analyzed: 02/06/2002 13:09

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline <i>Surrogate(s)</i>	0.443	0.458	0.500	0.500	88.6	91.6	3.3	75-125	35		
4-Bromofluorobenzene	416	416	500	500	83.2	83.2		58-124			



Gas/BTEX Compounds (High Level)

<b>Lowney &amp; Associates Oakland</b>	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 1274 65th St. & 1269 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-23	Soil	02/04/2002 11:30	5

Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Test Method: 8015M  
8021B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Attn: Mark Arniola

Prep Method: 5030

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

Sample ID: <b>SSC-23</b>	Lab Sample ID: 2002-02-0041-005
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:03
Sampled: 02/04/2002 11:30	Extracted: 02/05/2002 03:25
Matrix: Soil	QC-Batch: 2002/02/05-05.03

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	120	10	mg/Kg	1.00	02/07/2002 03:25	g
Benzene	ND	0.62	mg/Kg	1.00	02/07/2002 03:25	
Toluene	ND	0.62	mg/Kg	1.00	02/07/2002 03:25	
Ethyl benzene	ND	0.62	mg/Kg	1.00	02/07/2002 03:25	
Xylene(s)	ND	0.62	mg/Kg	1.00	02/07/2002 03:25	
MTBE	ND	0.62	mg/Kg	1.00	02/07/2002 03:25	
<b>Surrogate(s)</b>						
Trifluorotoluene	128.0	53-125	%	1.00	02/07/2002 03:25	sh
4-Bromofluorobenzene-FID	121.0	58-124	%	1.00	02/07/2002 03:25	



Gas/BTEX Compounds (High Level)

**Batch QC report**

Test Method: 8015M  
8021B

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/05-05.03**  
 LCS: 2002/02/05-05.03-002 Extracted: 02/05/2002 11:17 Analyzed: 02/05/2002 11:17  
 LCSD: 2002/02/05-05.03-003 Extracted: 02/05/2002 11:46 Analyzed: 02/05/2002 11:46

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

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Gasoline	0.758	0.737	0.625	0.625	121.3	117.9	2.8	75-125	35		
Benzene	0.124	0.114	0.125	0.125	99.2	91.2	8.4	77-123	35		
Toluene	0.124	0.116	0.125	0.125	99.2	92.8	6.7	78-122	35		
Ethyl benzene	0.116	0.109	0.125	0.125	92.8	87.2	6.2	70-130	35		
Xylene(s)	0.368	0.339	0.375	0.375	98.1	90.4	8.2	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	95.6	86.1	100	100	95.6	86.1		53-125	0		
4-Bromofluorobenzene	109	106	100	100	109.0	106.0		58-124	0		





Gas/BTEX Compounds (High Level)

**Legend & Notes**

Test Method: 8021B  
8015M

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Analyte Flags**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard

**Analyte Flags**

sh

Surrogate recovery was higher than QC limit due to matrix interference.



Total Lead

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project:

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-21A	Soil	02/04/2002 10:00	1
SSC-22A	Soil	02/04/2002 10:00	3
SSC-23	Soil	02/04/2002 11:30	5



Total Lead

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: SSC-21A	Lab Sample ID: 2002-02-0041-001
Project: 1424-4B	Received: 02/04/2002 17:03
	Extracted: 02/05/2002 05:07
Sampled: 02/04/2002 10:00	QC-Batch: 2002/02/05-01.15
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	4.3	1.0	mg/Kg	1.00	02/05/2002 12:22	



Total Lead

Lowney & Associates Oakland

Test Method: 6010B

Attn: Mark Arniola

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SSC-22A</b>	Lab Sample ID: 2002-02-0041-003
Project: 1424-4B	Received: 02/04/2002 17:03
	Extracted: 02/05/2002 05:07
Sampled: 02/04/2002 10:00	QC-Batch: 2002/02/05-01.15
Matrix: Soil	

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	33	1.0	mg/Kg	1.00	02/05/2002 12:26	



Total Lead

Lowney & Associates Oakland

Test Method: 6010B

Attn: Mark Arniola

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-23</b>	Lab Sample ID: 2002-02-0041-005
Project: 1424-4B	Received: 02/04/2002 17:03
Sampled: 02/04/2002 11:30	Extracted: 02/05/2002 05:07
Matrix: Soil	QC-Batch: 2002/02/05-01.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	8.6	1.0	mg/Kg	1.00	02/05/2002 12:30	





Total Lead  
Batch QC report

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/02/05-01.15**  
 LCS: 2002/02/05-01.15-032 Extracted: 02/05/2002 05:07 Analyzed: 02/05/2002 10:58  
 LCSD: 2002/02/05-01.15-035 Extracted: 02/05/2002 05:07 Analyzed: 02/05/2002 11:19

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Lead	93.7	96.3	100.0	100.0	93.7	96.3	2.7	80-120	20		



TEPH w/ Silica Gel Clean-up

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 1274 65th St. & 1269 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-21A	Soil	02/04/2002 10:00	1
SSC-22A	Soil	02/04/2002 10:00	3
SSC-23	Soil	02/04/2002 11:30	5





TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-21A</b>	Lab Sample ID: 2002-02-0041-001
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:03
Sampled: 02/04/2002 10:00	Extracted: 02/04/2002 10:04
Matrix: Soil	QC-Batch: 2002/02/04-02.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	02/06/2002 07:28	
Motor Oil	ND	50	mg/Kg	1.00	02/06/2002 07:28	
<b>Surrogate(s)</b>						
o-Terphenyl	97.9	60-130	%	1.00	02/06/2002 07:28	

TEPH w/ Silica Gel Clean-up

**Lowney & Associates Oakland**

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SSC-22A</b>	Lab Sample ID: 2002-02-0041-003
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:03
Sampled: 02/04/2002 10:00	Extracted: 02/04/2002 10:04
Matrix: Soil	QC-Batch: 2002/02/04-02.10

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1.4	1.0	mg/Kg	1.00	02/06/2002 08:05	ndp
Motor Oil	ND	50	mg/Kg	1.00	02/06/2002 08:05	
<b>Surrogate(s)</b> o-Terphenyl	98.5	60-130	%	1.00	02/06/2002 08:05	



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Sample ID: SSC-23	Lab Sample ID: 2002-02-0041-005
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:03
Sampled: 02/04/2002 11:30	Extracted: 02/04/2002 10:04
Matrix: Soil	QC-Batch: 2002/02/04-02.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	420	1.0	mg/Kg	1.00	02/06/2002 08:43	ndp
Motor Oil	ND	50	mg/Kg	1.00	02/06/2002 08:43	
<b>Surrogate(s)</b>						
o-Terphenyl	116.4	60-130	%	1.00	02/06/2002 08:43	





TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/04-02.10**  
 LCS: 2002/02/04-02.10-002 Extracted: 02/04/2002 10:04 Analyzed: 02/04/2002 19:00  
 LCSD: 2002/02/04-02.10-003 Extracted: 02/04/2002 10:04 Analyzed: 02/04/2002 19:37

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	32.0	34.3	41.7	41.7	76.7	82.3	7.0	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	16.9	18.0	20.0	20.0	84.5	90.0		60-130	0		



TEPH w/ Silica Gel Clean-up

**Legend & Notes**

Test Method: 8015M

Prep Method: 3550/8015M

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)  
[www.chromalab.com](http://www.chromalab.com)

**Analyte Flags**

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

CA DHS ELAP#1094

# GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

## CERTIFICATE OF ANALYSIS

8260B

Date: 2/06/02

Report # N036-05

Date Rec'd: 2/05/02  
Date Started: 2/05/02  
Date Completed: 2/06/02

STL San Francisco  
1220 Quarry Lane

Project: 2002-02-0041

Pleasanton CA 94566-4756 PO#

Date Sampled: 2/04/02  
Time:  
Sampler:

Sample ID: SSC-21A

Lab ID: N200294

Method	RL	Analyte	Results	Units
8260B	5.0	Bromodichloromethane	ND	µg/Kg
	5.0	Bromoform	ND	
	5.0	Chloroform	ND	
	5.0	Dibromochloromethane	ND	
	5.0	Benzene	ND	
	5.0	Carbon Tetrachloride	ND	
	5.0	1,2-Dichlorobenzene	ND	
	5.0	1,4-Dichlorobenzene	ND	
	5.0	1,1-Dichloroethane	ND	
	5.0	1,2-Dichloroethane(1,2-DCA)	ND	
	5.0	1,1-Dichloroethylene	ND	
	5.0	cis-1,2-Dichloroethylene	ND	
	5.0	trans-1,2-Dichloroethylene	ND	
	20	Methylene Chloride	ND	
	5.0	1,2-Dichloropropane	ND	
	5.0	Total 1,3-Dichloropropene	ND	
	5.0	Ethyl Benzene	ND	
	5.0	Ethylene dibromide (EDB)	ND	
	5.0	Chlorobenzene	ND	
	5.0	Styrene	ND	
	5.0	1,1,2,2-Tetrachloroethane	ND	
	5.0	Tetrachloroethylene (PCE)	ND	
	5.0	Toluene	ND	
	5.0	1,2,4-Trichlorobenzene	ND	
	5.0	1,1,1-Trichloroethane	ND	
	5.0	1,1,2-Trichloroethane	ND	
	5.0	Trichloroethylene	ND	
	5.0	Trichlorofluoromethane	ND	
	5.0	Trichlorotrifluoroethane	ND	
	5.0	Vinyl Chloride	ND	
	5.0	m,p-Xylene	ND	
	5.0	o-Xylene	ND	
	50	2-Butanone (MEK)	ND	
	50	4-Methyl-2-pentanone (MIBK)	ND	
	50	Acetone (dimethyl Ketone)	ND	

# CERTIFICATE OF ANALYSIS

8260B

Report # N036-05

Sample ID: SSC-21A

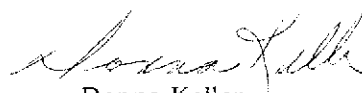
Lab ID: N200294

Method	RL	Analyte	Results	Units
8260B	5.0	Bromobenzene	ND	µg/Kg
	5.0	Bromochloromethane	ND	
	5.0	Bromomethane	ND	
	5.0	n-Butylbenzene	ND	
	5.0	sec-Butylbenzene	ND	
	5.0	tert-Butylbenzene	ND	
	5.0	Chloroethane	ND	
	10	2-Chloroethylvinyl Ether	ND	
	5.0	Chloromethane	ND	
	5.0	2-Chlorotoluene	ND	
	5.0	4-Chlorotoluene	ND	
	5.0	Dibromomethane	ND	
	5.0	1,3-Dichlorobenzene	ND	
	5.0	Dichlorodifluoromethane	ND	
	5.0	1,3-Dichloropropane	ND	
	5.0	2,2-Dichloropropane	ND	
	5.0	1,1-Dichloropropene	ND	
	5.0	Hexachlorobutadiene	ND	
	5.0	Isopropylbenzene	ND	
	5.0	p-Isopropyltoluene	ND	
	5.0	Methyl tert-Butyl Ether (MTBE)	ND	
	5.0	n-Propylbenzene	ND	
	5.0	1,1,1,2-Tetrachloroethane	ND	
	5.0	1,2,3-Trichlorobenzene	ND	
	5.0	1,2,3-Trichloropropane	ND	
	5.0	1,2,4-Trimethylbenzene	ND	
	5.0	1,3,5-Trimethylbenzene	ND	
	5.0	1,2-Dibromo-3-chloropropane(DBCP)	ND	

Surrogate	Amnt Spiked	Amnt Recovered	% Recovery	QC Limit %
1,2-Dichloroethane-d <sub>4</sub>	100	101	101.00	66-133
2-Bromo-1-chloropropane	100	97.0	97.00	63-139
4-Bromofluorobenzene	100	92.5	92.50	64-136

  
 Mario D'Onofrio  
 Chemist

Certification # 1157

  
 Donna Keller  
 Laboratory Director



# GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

## CERTIFICATE OF ANALYSIS

Report # N036-05

8260B

Date: 2/06/02

STL San Francisco  
1220 Quarry Lane  
Pleasanton

Project: 2002-02-0041

Date Rec'd: 2/05/02  
Date Started: 2/05/02  
Date Completed: 2/06/02

CA 94566-4756 PO#

Date Sampled: 2/04/02  
Time:  
Sampler:

Sample ID: SSC-22A

Lab ID: N200295

Method	RL	Analyte	Results	Units
8260B	5.0	Bromodichloromethane	ND	µg/Kg
	5.0	Bromoform	ND	
	5.0	Chloroform	ND	
	5.0	Dibromochloromethane	ND	
	5.0	Benzene	ND	
	5.0	Carbon Tetrachloride	ND	
	5.0	1,2-Dichlorobenzene	ND	
	5.0	1,4-Dichlorobenzene	ND	
	5.0	1,1-Dichloroethane	ND	
	5.0	1,2-Dichloroethane(1,2-DCA)	ND	
	5.0	1,1-Dichloroethylene	ND	
	5.0	cis-1,2-Dichloroethylene	ND	
	5.0	trans-1,2-Dichloroethylene	ND	
	20	Methylene Chloride	ND	
	5.0	1,2-Dichloropropane	ND	
	5.0	Total 1,3-Dichloropropene	ND	
	5.0	Ethyl Benzene	27	
	5.0	Ethylene dibromide (EDB)	ND	
	5.0	Chlorobenzene	ND	
	5.0	Styrene	ND	
	5.0	1,1,2,2-Tetrachloroethane	ND	
	5.0	Tetrachloroethylene (PCE)	ND	
	5.0	Toluene	ND	
	5.0	1,2,4-Trichlorobenzene	ND	
	5.0	1,1,1-Trichloroethane	ND	
	5.0	1,1,2-Trichloroethane	ND	
	5.0	Trichloroethylene	ND	
	5.0	Trichlorofluoromethane	ND	
	5.0	Trichlorotrifluoroethane	ND	
	5.0	Vinyl Chloride	ND	
	5.0	m,p-Xylene	13	
	5.0	o-Xylene	54	
	50	2-Butanone (MEK)	ND	
	50	4-Methyl-2-pentanone (MIBK)	ND	
	50	Acetone (dimethyl Ketone)	ND	

# CERTIFICATE OF ANALYSIS

8260B

Report # N036-05

Sample ID: SSC-22A

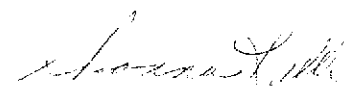
Lab ID: N200295

Method	RL	Analyte	Results	Units
8260B	5.0	Bromobenzene	ND	µg/Kg
	5.0	Bromochloromethane	ND	
	5.0	Bromomethane	ND	
	5.0	n-Butylbenzene	ND	
	5.0	sec-Butylbenzene	ND	
	5.0	tert-Butylbenzene	ND	
	5.0	Chloroethane	ND	
	10	2-Chloroethylvinyl Ether	ND	
	5.0	Chloromethane	ND	
	5.0	2-Chlorotoluene	ND	
	5.0	4-Chlorotoluene	ND	
	5.0	Dibromomethane	ND	
	5.0	1,3-Dichlorobenzene	ND	
	5.0	Dichlorodifluoromethane	ND	
	5.0	1,3-Dichloropropane	ND	
	5.0	2,2-Dichloropropane	ND	
	5.0	1,1-Dichloropropene	ND	
	5.0	Hexachlorobutadiene	ND	
	5.0	Isopropylbenzene	6.4	
	5.0	p-Isopropyltoluene	ND	
	5.0	Methyl tert-Butyl Ether (MTBE)	ND	
	5.0	n-Propylbenzene	12	
	5.0	1,1,1,2-Tetrachloroethane	ND	
	5.0	1,2,3-Trichlorobenzene	ND	
	5.0	1,2,3-Trichloropropane	ND	
	5.0	1,2,4-Trimethylbenzene	27	
	5.0	1,3,5-Trimethylbenzene	19	
	5.0	1,2-Dibromo-3-chloropropane(DBCP)	ND	

Surrogate	Amnt Spiked	Amnt Recovered	% Recovery	QC Limit %
1,2-Dichloroethane-d <sub>4</sub>	100	118	118.00	66-133
2-Bromo-1-chloropropane	100	100	100.00	63-139
4-Bromofluorobenzene	100	90.5	90.50	64-136

  
 Mario D'Onofrio  
 Chemist

Certification # 1157

  
 Donna Keller  
 Laboratory Director

# GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

## CERTIFICATE OF ANALYSIS

Report # N036-05

8260B

Date: 2/06/02

STL San Francisco  
1220 Quarry Lane  
Pleasanton

Project: 2002-02-0041

Date Rec'd: 2/05/02  
Date Started: 2/05/02  
Date Completed: 2/06/02

CA 94566-4756 PO#

Date Sampled: 2/04/02  
Time:  
Sampler:

Sample ID: SSC-23

Lab ID: N200296

Method	RL	Analyte	Results	Units
8260B	5.0	Bromodichloromethane	ND	µg/Kg
	5.0	Bromoform	ND	
	5.0	Chloroform	ND	
	5.0	Dibromochloromethane	ND	
	5.0	Benzene	ND	
	5.0	Carbon Tetrachloride	ND	
	5.0	1,2-Dichlorobenzene	ND	
	5.0	1,4-Dichlorobenzene	ND	
	5.0	1,1-Dichloroethane	ND	
	5.0	1,2-Dichloroethane(1,2-DCA)	ND	
	5.0	1,1-Dichloroethylene	ND	
	5.0	cis-1,2-Dichloroethylene	ND	
	5.0	trans-1,2-Dichloroethylene	ND	
	20	Methylene Chloride	ND	
	5.0	1,2-Dichloropropane	ND	
	5.0	Total 1,3-Dichloropropene	ND	
	5.0	Ethyl Benzene	ND	
	5.0	Ethylene dibromide (EDB)	ND	
	5.0	Chlorobenzene	ND	
	5.0	Styrene	ND	
	5.0	1,1,2,2-Tetrachloroethane	ND	
	5.0	Tetrachloroethylene (PCE)	ND	
	5.0	Toluene	ND	
	5.0	1,2,4-Trichlorobenzene	ND	
	5.0	1,1,1-Trichloroethane	ND	
	5.0	1,1,2-Trichloroethane	ND	
	5.0	Trichloroethylene	ND	
	5.0	Trichlorofluoromethane	ND	
	5.0	Trichlorotrifluoroethane	ND	
	5.0	Vinyl Chloride	ND	
	5.0	m,p-Xylene	ND	
	5.0	o-Xylene	ND	
	50	2-Butanone (MEK)	ND	
	50	4-Methyl-2-pentanone (MIBK)	ND	
	50	Acetone (dimethyl Ketone)	ND	

**CERTIFICATE OF ANALYSIS**

8260B

Report # N036-05

Sample ID: SSC-23

Lab ID: N200296

Method	RL	Analyte	Results	Units
8260B	5.0	Bromobenzene	ND	µg/Kg
	5.0	Bromochloromethane	ND	
	5.0	Bromomethane	ND	
	5.0	n-Butylbenzene	103	
	5.0	sec-Butylbenzene	59	
	5.0	tert-Butylbenzene	ND	
	5.0	Chloroethane	ND	
	10	2-Chloroethylvinyl Ether	ND	
	5.0	Chloromethane	ND	
	5.0	2-Chlorotoluene	ND	
	5.0	4-Chlorotoluene	ND	
	5.0	Dibromomethane	ND	
	5.0	1,3-Dichlorobenzene	ND	
	5.0	Dichlorodifluoromethane	ND	
	5.0	1,3-Dichloropropane	ND	
	5.0	2,2-Dichloropropane	ND	
	5.0	1,1-Dichloropropene	ND	
	5.0	Hexachlorobutadiene	ND	
	5.0	Isopropylbenzene	24	
	5.0	p-Isopropyltoluene	ND	
	5.0	Methyl tert-Butyl Ether (MTBE)	ND	
	5.0	n-Propylbenzene	41	
	5.0	1,1,1,2-Tetrachloroethane	ND	
	5.0	1,2,3-Trichlorobenzene	ND	
	5.0	1,2,3-Trichloropropane	ND	
	5.0	1,2,4-Trimethylbenzene	ND	
	5.0	1,3,5-Trimethylbenzene	ND	
	5.0	1,2-Dibromo-3-chloropropane(DBCP)	ND	

Surrogate	Amnt Spiked	Amnt Recovered	% Recovery	QC Limit %
1,2-Dichloroethane-d <sub>4</sub>	100	118	118.00	66-133
2-Bromo-1-chloropropane	100	110	110.00	63-139
4-Bromofluorobenzene	100	102	102.00	64-136

  
 Mario D'Onofrio  
 Chemist

Certification # 1157

  
 Donna Keller  
 Laboratory Director

# GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351

Phone (209) 572-0900 Fax (209) 572-0916

Report# N036-05

## QC REPORT

STL San Francisco  
1220 Quarry Lane  
Pleasanton

CA 94566-4756

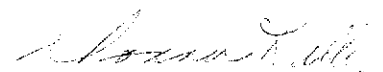
Dates Analyzed 02/05/02-02/06/02

Analyte	Batch #	Method	LCS %Recovery	MS % Recovery	MSD % Recovery	RPD	Blank
MTBE	V00051	8260B	118.5	119.5	119.0	0.4	ND
1,1-Dichloroethane			104.5	105.5	105.5	0.0	ND
Benzene			101.0	102.5	101.5	1.0	ND
Trichloroethene			98.0	96.0	96.5	0.5	ND
Toluene			97.5	98.0	90.0	8.5	ND
Chlorobenzene			103.5	101.5	100.0	1.5	ND

Comments:

  
Mario D'Onofrio  
Chemist

Certification # 1157

  
Donna Keller  
Laboratory Director

From: **STL San Francisco (CL)**  
 1220 Quarry Lane  
 Pleasanton, CA 94566-4756

To: **GeoAnalytical Labs - SUB CONTRACT ONLY**  
 1405 Kansas Avenue  
 Modesto, CA 95351

Project Manager: Vincent Vancil  
 Phone: (925) 484-1919  
 Fax: (925) 484-1096  
 Email: vvancil@chromalab.com

Phone: (209) 572-0900  
 Fax: (209) 572-0916  
 Contact: Donna Keller  
 Phone: (209) 572-0900

*N036-05*

CL Submission #: **2002-02-0041**

Project #: 1424-4B

CL PO #:

Project Name:

Client Sample ID	CL#	Sampled	Matrix	Due
Analysis			Method	
SSC-21A	001	02/04/2002 10:00	Soil	N200294
Halogenated Volatile Organics by 8021B/ 8260B			8021B/8260B	02/05/2002 17:00
SSC-22A	003	02/04/2002 10:00	Soil	N200295
Halogenated Volatile Organics by 8021B/ 8260B			8021B/8260B	02/05/2002 17:00
SSC-23	005	02/04/2002 11:30	Soil	N200296
Halogenated Volatile Organics by 8021B/ 8260B			8021B/8260B	02/05/2002 17:00

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

*SSC-21B(2) HOLD - N200297*

*SSC-22B(4) HOLD - N200298*

*Rush per Vincent*

RELINQUISHED BY: <i>N. Khammoungky</i> 10:00 Signature Time <i>N. Khammoungky</i> 2/5/02 Printed Name Date STL SF. Company	RELINQUISHED BY: <i>H. Ambage</i> Signature Time 11:20 <i>MESFIN AMBAGE</i> Printed Name Date World C. 2/05/02 Company	RELINQUISHED BY: Signature Time Printed Name Date Company
RECEIVED BY: <i>H. Ambage</i> Signature Time 10:00 <i>MESFIN AMBAGE</i> Printed Name Date <i>World Center</i> 2-05-02 Company	RECEIVED BY: <i>Priya Sahota</i> 11:20 AM Signature Time <i>Priya Sahota</i> 2/5/02 Printed Name Date GEO. Company	RECEIVED BY: Signature Time Printed Name Date Company

Mountain View Office  
405 Clyde Ave.  
Mountain View 94043  
Tel: 850.967.2365  
Fax: 850.967.2785

Oakland Office  
129 Filbert St.  
Oakland 94607  
Tel: 510.267.1970  
Fax: 510.267.1972

Pasadena Office  
1785 Locust St., #10  
Pasadena 91106  
Tel: 626.396.1490  
Fax: 626.396.1491

San Ramon Office  
2258 Camino Ramon  
San Ramon 94583  
Tel: 925.275.2555  
Fax: 925.275.2555

**CHAIN OF CUSTODY RECORD**

2002-02-0041

Project Name:				<b>Turnaround Requirements</b> <input type="checkbox"/> 5 Working Days <input type="checkbox"/> 48 Hours <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 2-3 Hours RUSH <input type="checkbox"/> _____		<b>ANALYSES REQUESTED</b> 64480																																	
Job No.: 1424-4B						<table border="1"> <tr> <td>TPH as gas/BTEX/MIBE (8015/8020)</td> <td>TPH as diesel (8015M) + motor oil silica gel column</td> <td>TRPH (418.1) silica gel column</td> <td>Halogenated VOCs (8010)</td> <td>Organochlorine Pesticides (8081)</td> <td>Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)</td> <td>Fuel Oxygenates (8260B)</td> <td>PAHs (8310)</td> <td>PCBs (8082)</td> <td>Fuel Scan 8020/8015M (Purgeable and Extractable)</td> <td>Lead (6010)</td> <td>Remarks</td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> </tr> </table>										TPH as gas/BTEX/MIBE (8015/8020)	TPH as diesel (8015M) + motor oil silica gel column	TRPH (418.1) silica gel column	Halogenated VOCs (8010)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M (Purgeable and Extractable)	Lead (6010)	Remarks	X	X		X						X		
TPH as gas/BTEX/MIBE (8015/8020)	TPH as diesel (8015M) + motor oil silica gel column	TRPH (418.1) silica gel column	Halogenated VOCs (8010)			Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M (Purgeable and Extractable)	Lead (6010)	Remarks																										
X	X		X								X																												
Report To: Mark Arriola																																							
Sampler (print): Veronica Tiglas																																							
Sampler (signature): <i>[Signature]</i>																																							
QC Requirement: <input checked="" type="checkbox"/> Level A (standard)																																							
Sample I.D.	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	TPH as gas/BTEX/MIBE (8015/8020)	TPH as diesel (8015M) + motor oil silica gel column	TRPH (418.1) silica gel column	Halogenated VOCs (8010)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M (Purgeable and Extractable)	Lead (6010)	Remarks																						
SSC-21A	02/04/02	10:00		Soil	1	X	X		X							X																							
SSC-21B		11:00				X	X		X							X		HOLD																					
SSC-22A		10:00				X	X		X							X																							
SSC-22B		11:00				X	X		X							X		HOLD																					
SSC-23		11:30				X	X		X							X																							
<b>RUSH</b>																																							
Relinquished By: <i>Mark Arriola</i>				Date: 2/4/02 Time: 12:30		Received By: <i>[Signature]</i>				Date: 2/4/02 Time: 12:30		PM Initial:																											
Relinquished By: <i>[Signature]</i>				Date: 2/4/02 Time: 17:03		Received By:				Date: Time:																													
Relinquished By:				Date: Time:		Lab of Record: <i>N. Luna</i>				Date: 2/4/02 Time: 17:03		Temp: 4.6°C																											
						Received by Lab:																																	



**Lowney & Associates Oakland**

167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-4B  
1274 65th St. & 1269 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mr. Arniola,

Attached is our report for your samples received on Monday February 4, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "V. Vancil", is written over a large, light-colored oval shape.

Vincent Vancil  
Project Manager



Gas/BTEX Compounds by 8015M/8021

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 1274 65th St. & 1269 66th St.

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

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SP1-2	Soil	02/04/2002 13:00	1
SP1-3	Soil	02/04/2002 13:00	2
SSC-24A	Soil	02/04/2002 13:00	3

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Test Method: 8015M  
8021B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Attn: Mark Arniola

Prep Method: 5035

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

CA DHS ELAP#1094

Sample ID: SP1-2	Lab Sample ID: 2002-02-0044-001
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:40
Sampled: 02/04/2002 13:00	Extracted: 02/06/2002 17:44
Matrix: Soil	QC-Batch: 2002/02/06-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	02/06/2002 17:44	
Benzene	ND	0.0050	mg/Kg	1.00	02/06/2002 17:44	
Toluene	ND	0.0050	mg/Kg	1.00	02/06/2002 17:44	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	02/06/2002 17:44	
Xylene(s)	ND	0.0050	mg/Kg	1.00	02/06/2002 17:44	
MTBE	ND	0.0050	mg/Kg	1.00	02/06/2002 17:44	
<b>Surrogate(s)</b>						
Trifluorotoluene	111.7	53-125	%	1.00	02/06/2002 17:44	
4-Bromofluorobenzene-FID	94.3	58-124	%	1.00	02/06/2002 17:44	

Gas/BTEX Compounds by 8015M/8021

**Lowney & Associates Oakland**

Test Method: 8015M  
8021B

Attn: Mark Arniola

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SP1-3</b>	Lab Sample ID: 2002-02-0044-002
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:40
Sampled: 02/04/2002 13:00	Extracted: 02/06/2002 18:15
Matrix: Soil	QC-Batch: 2002/02/06-01.03

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	02/06/2002 18:15	
Benzene	ND	0.0050	mg/Kg	1.00	02/06/2002 18:15	
Toluene	ND	0.0050	mg/Kg	1.00	02/06/2002 18:15	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	02/06/2002 18:15	
Xylene(s)	ND	0.0050	mg/Kg	1.00	02/06/2002 18:15	
MTBE	ND	0.0050	mg/Kg	1.00	02/06/2002 18:15	
<b>Surrogate(s)</b>						
Trifluorotoluene	95.0	53-125	%	1.00	02/06/2002 18:15	
4-Bromofluorobenzene-FID	92.8	58-124	%	1.00	02/06/2002 18:15	



Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Test Method: 8015M  
8021B

Attn: Mark Arniola

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-24A</b>	Lab Sample ID: 2002-02-0044-003
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:40
Sampled: 02/04/2002 13:00	Extracted: 02/06/2002 18:45
Matrix: Soil	QC-Batch: 2002/02/06-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1.2	1.0	mg/Kg	1.00	02/06/2002 18:45	g
Benzene	ND	0.0050	mg/Kg	1.00	02/06/2002 18:45	
Toluene	ND	0.0050	mg/Kg	1.00	02/06/2002 18:45	
Ethyl benzene	0.0051	0.0050	mg/Kg	1.00	02/06/2002 18:45	
Xylene(s)	0.014	0.0050	mg/Kg	1.00	02/06/2002 18:45	
MTBE	ND	0.0050	mg/Kg	1.00	02/06/2002 18:45	
<b>Surrogate(s)</b>						
Trifluorotoluene	130.0	53-125	%	1.00	02/06/2002 18:45	sh
4-Bromofluorobenzene-FID	101.7	58-124	%	1.00	02/06/2002 18:45	





Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/02/06-01.03**

LCS: 2002/02/06-01.03-006 Extracted: 02/06/2002 11:37 Analyzed: 02/06/2002 11:37

LCSD: 2002/02/06-01.03-007 Extracted: 02/06/2002 12:07 Analyzed: 02/06/2002 12:07

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.103	0.0983	0.1000	0.1000	103.0	98.3	4.7	77-123	35		
Toluene	0.103	0.0985	0.1000	0.1000	103.0	98.5	4.5	78-122	35		
Ethyl benzene	0.102	0.0985	0.1000	0.1000	102.0	98.5	3.5	70-130	35		
Xylene(s)	0.300	0.293	0.300	0.300	100.0	97.7	2.3	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	549	513	500	500	109.8	102.6		53-125			

Gas/BTEX Compounds by 8015M/8021

**Batch QC report**

Test Method: 8015M

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/06-01.03**  
 LCS: 2002/02/06-01.03-008    Extracted: 02/06/2002 12:38    Analyzed: 02/06/2002 12:38  
 LCSD: 2002/02/06-01.03-009    Extracted: 02/06/2002 13:09    Analyzed: 02/06/2002 13:09

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline <i>Surrogate(s)</i>	0.443	0.458	0.500	0.500	88.6	91.6	3.3	75-125	35		
4-Bromofluorobenzene	416	416	500	500	83.2	83.2		58-124			



Gas/BTEX Compounds by 8015M/8021

**Legend & Notes**

Test Method: 8015M  
8021B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Analyte Flags**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard

**Analyte Flags**

sh

Surrogate recovery was higher than QC limit due to matrix interference.





Gas/BTEX Compounds (High Level)

<b>Lowney &amp; Associates Oakland</b>	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 1274 65th St. & 1269 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-25	Soil	02/04/2002 14:30	4
SSC-26	Soil	02/04/2002 15:00	5
SSC-27	Soil	02/04/2002 15:30	6



Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Test Method: 8015M  
8021B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Attn: Mark Arniola

Prep Method: 5030

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

CA DHS ELAP#1094

Sample ID: <b>SSC-25</b>	Lab Sample ID: 2002-02-0044-004
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:40
Sampled: 02/04/2002 14:30	Extracted: 02/05/2002 04:27
Matrix: Soil	QC-Batch: 2002/02/05-05.03
Sample/Analysis Flag: o ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1100	200	mg/Kg	20.00	02/07/2002 04:27	g
Benzene	ND	12	mg/Kg	20.00	02/07/2002 04:27	
Toluene	ND	12	mg/Kg	20.00	02/07/2002 04:27	
Ethyl benzene	ND	12	mg/Kg	20.00	02/07/2002 04:27	
Xylene(s)	ND	12	mg/Kg	20.00	02/07/2002 04:27	
MTBE	ND	12	mg/Kg	20.00	02/07/2002 04:27	
<b>Surrogate(s)</b>						
Trifluorotoluene	NA	53-125	%	1.00	02/07/2002 04:27	sd
4-Bromofluorobenzene-FID	NA	58-124	%	1.00	02/07/2002 04:27	sd

Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Test Method: 8015M  
8021B

Attn: Mark Arniola

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SSC-26</b>	Lab Sample ID: 2002-02-0044-005
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:40
Sampled: 02/04/2002 15:00	Extracted: 02/05/2002 12:00
Matrix: Soil	QC-Batch: 2002/02/05-05.03

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	88	10	mg/Kg	1.00	02/07/2002 12:00	g
Benzene	ND	0.62	mg/Kg	1.00	02/07/2002 12:00	
Toluene	ND	0.62	mg/Kg	1.00	02/07/2002 12:00	
Ethyl benzene	ND	0.62	mg/Kg	1.00	02/07/2002 12:00	
Xylene(s)	ND	0.62	mg/Kg	1.00	02/07/2002 12:00	
MTBE	ND	0.62	mg/Kg	1.00	02/07/2002 12:00	
<b>Surrogate(s)</b>						
Trifluorotoluene	145.0	53-125	%	1.00	02/07/2002 12:00	sh
4-Bromofluorobenzene-FID	199.0	58-124	%	1.00	02/07/2002 12:00	sh



Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Test Method: 8015M  
8021B

Attn: Mark Arniola

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-27</b>	Lab Sample ID: 2002-02-0044-006
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:40
Sampled: 02/04/2002 15:30	Extracted: 02/05/2002 04:57
Matrix: Soil	QC-Batch: 2002/02/05-05.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1000	200	mg/Kg	20.00	02/07/2002 04:57	g
Benzene	ND	12	mg/Kg	20.00	02/07/2002 04:57	
Toluene	ND	12	mg/Kg	20.00	02/07/2002 04:57	
Ethyl benzene	ND	12	mg/Kg	20.00	02/07/2002 04:57	
Xylene(s)	ND	12	mg/Kg	20.00	02/07/2002 04:57	
MTBE	ND	12	mg/Kg	20.00	02/07/2002 04:57	
<b>Surrogate(s)</b>						
Trifluorotoluene	NA	53-125	%	1.00	02/07/2002 04:57	sd
4-Bromofluorobenzene-FID	NA	58-124	%	1.00	02/07/2002 04:57	sd





Gas/BTEX Compounds (High Level)

Batch QC report

Test Method: 8015M  
8021B

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/05-05.03**  
 LCS: 2002/02/05-05.03-002    Extracted: 02/05/2002 11:17    Analyzed: 02/05/2002 11:17  
 LCSD: 2002/02/05-05.03-003    Extracted: 02/05/2002 11:46    Analyzed: 02/05/2002 11:46

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery			RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD	
Gasoline	0.758	0.737	0.625	0.625	121.3	117.9	2.8	75-125	35			
Benzene	0.124	0.114	0.125	0.125	99.2	91.2	8.4	77-123	35			
Toluene	0.124	0.116	0.125	0.125	99.2	92.8	6.7	78-122	35			
Ethyl benzene	0.116	0.109	0.125	0.125	92.8	87.2	6.2	70-130	35			
Xylene(s)	0.368	0.339	0.375	0.375	98.1	90.4	8.2	75-125	35			
<b>Surrogate(s)</b>												
Trifluorotoluene	95.6	86.1	100	100	95.6	86.1		53-125	0			
4-Bromofluorobenzene	109	106	100	100	109.0	106.0		58-124	0			

Gas/BTEX Compounds (High Level)

**Legend & Notes**

Test Method: 8021B  
8015M

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Analysis Flags**

o

Reporting limits were raised due to high level of analyte present in the sample.

**Analyte Flags**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard

**Analyte Flags**

sd

Surrogate recovery not reportable due to required dilution.

**Analyte Flags**

sh

Surrogate recovery was higher than QC limit due to matrix interference.



Total Lead

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 1274 65th St. & 1269 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SP1-2	Soil	02/04/2002 13:00	1
SP1-3	Soil	02/04/2002 13:00	2
SSC-29A	Soil	02/04/2002 13:00	3
SSC-25	Soil	02/04/2002 14:30	4
SSC-26	Soil	02/04/2002 15:00	5
SSC-27	Soil	02/04/2002 15:30	6



Total Lead

**Lowney & Associates Oakland**

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SP1-2</b>	Lab Sample ID: 2002-02-0044-001
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:40
Sampled: 02/04/2002 13:00	Extracted: 02/05/2002 05:07
Matrix: Soil	QC-Batch: 2002/02/05-01.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	26	1.0	mg/Kg	1.00	02/05/2002 12:34	



Total Lead

Lowney & Associates Oakland

Test Method: 6010B

Attn: Mark Arniola

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SP1-3</b>	Lab Sample ID: 2002-02-0044-002
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:40
Sampled: 02/04/2002 13:00	Extracted: 02/05/2002 05:07
Matrix: Soil	QC-Batch: 2002/02/05-01.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	17	1.0	mg/Kg	1.00	02/05/2002 12:38	

Total Lead

**Lowney & Associates Oakland**

Test Method: 6010B

Attn: Mark Arniola

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SSC-29A</b>	Lab Sample ID: 2002-02-0044-003
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:40
Sampled: 02/04/2002 13:00	Extracted: 02/05/2002 05:07
Matrix: Soil	QC-Batch: 2002/02/05-01.15

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	9.1	1.0	mg/Kg	1.00	02/05/2002 12:41	



Total Lead

Lowney & Associates Oakland

Test Method: 6010B

Attn: Mark Arniola

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-25</b>	Lab Sample ID: 2002-02-0044-004
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:40
Sampled: 02/04/2002 14:30	Extracted: 02/05/2002 05:07
Matrix: Soil	QC-Batch: 2002/02/05-01.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	12	1.0	mg/Kg	1.00	02/05/2002 12:45	

Total Lead

**Lowney & Associates Oakland**

Test Method: 6010B

Attn: Mark Arniola

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SSC-26</b>	Lab Sample ID: 2002-02-0044-005
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:40
Sampled: 02/04/2002 15:00	Extracted: 02/05/2002 05:07
Matrix: Soil	QC-Batch: 2002/02/05-01.15

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	3.4	1.0	mg/Kg	1.00	02/05/2002 13:07	



Total Lead

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-27</b>	Lab Sample ID: 2002-02-0044-006
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:40
Sampled: 02/04/2002 15:30	Extracted: 02/05/2002 05:07
Matrix: Soil	QC-Batch: 2002/02/05-01.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	7.3	1.0	mg/Kg	1.00	02/05/2002 13:10	





Total Lead  
Batch QC report

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/05-01.15**  
 LCS: 2002/02/05-01.15-032 Extracted: 02/05/2002 05:07 Analyzed: 02/05/2002 10:58  
 LCSD: 2002/02/05-01.15-035 Extracted: 02/05/2002 05:07 Analyzed: 02/05/2002 11:19

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Lead	93.7	96.3	100.0	100.0	93.7	96.3	2.7	80-120	20		



TEPH w/ Silica Gel Clean-up

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 1274 65th St. & 1269 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SP1-2	Soil	02/04/2002 13:00	1
SP1-3	Soil	02/04/2002 13:00	2
SSC-24A	Soil	02/04/2002 13:00	3
SSC-25	Soil	02/04/2002 14:30	4
SSC-26	Soil	02/04/2002 15:00	5
SSC-27	Soil	02/04/2002 15:30	6



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SP1-2</b>	Lab Sample ID: 2002-02-0044-001
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:40
Sampled: 02/04/2002 13:00	Extracted: 02/04/2002 10:04
Matrix: Soil	QC-Batch: 2002/02/04-02.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	5.8	1.0	mg/Kg	1.00	02/05/2002 10:15	ndp
Motor Oil	ND	50	mg/Kg	1.00	02/05/2002 10:15	
<b>Surrogate(s)</b>						
o-Terphenyl	105.4	60-130	%	1.00	02/05/2002 10:15	

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SP1-3</b>	Lab Sample ID: 2002-02-0044-002
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:40
Sampled: 02/04/2002 13:00	Extracted: 02/04/2002 10:04
Matrix: Soil	QC-Batch: 2002/02/04-02.10

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	12	1.0	mg/Kg	1.00	02/05/2002 11:02	ndp
Motor Oil	ND	50	mg/Kg	1.00	02/05/2002 11:02	
<b>Surrogate(s)</b> o-Terphenyl	103.3	60-130	%	1.00	02/05/2002 11:02	

TEPH w/ Silica Gel Clean-up

**Lowney & Associates Oakland**

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-24A</b>	Lab Sample ID: 2002-02-0044-003
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:40
Sampled: 02/04/2002 13:00	Extracted: 02/04/2002 10:04
Matrix: Soil	QC-Batch: 2002/02/04-02.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	02/05/2002 10:18	
Motor Oil	ND	50	mg/Kg	1.00	02/05/2002 10:18	
<b>Surrogate(s)</b>						
o-Terphenyl	94.6	60-130	%	1.00	02/05/2002 10:18	

TEPH w/ Silica Gel Clean-up

**Lowney & Associates Oakland**

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SSC-25</b>	Lab Sample ID: 2002-02-0044-004
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:40
Sampled: 02/04/2002 14:30	Extracted: 02/04/2002 10:04
Matrix: Soil	QC-Batch: 2002/02/04-02.10

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	2900	20	mg/Kg	20.00	02/05/2002 12:36	ndp
Motor Oil	ND	1000	mg/Kg	20.00	02/05/2002 12:36	
<b>Surrogate(s)</b>						
o-Terphenyl	NA	60-130	%	20.00	02/05/2002 12:36	sd



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-26</b>	Lab Sample ID: 2002-02-0044-005
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:40
Sampled: 02/04/2002 15:00	Extracted: 02/04/2002 10:04
Matrix: Soil	QC-Batch: 2002/02/04-02.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	5.0	1.0	mg/Kg	1.00	02/05/2002 12:12	ndp
Motor Oil	ND	50	mg/Kg	1.00	02/05/2002 12:12	
<b>Surrogate(s)</b>						
o-Terphenyl	101.6	60-130	%	1.00	02/05/2002 12:12	

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SSC-27</b>	Lab Sample ID: 2002-02-0044-006
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/04/2002 17:40
Sampled: 02/04/2002 15:30	Extracted: 02/04/2002 10:04
Matrix: Soil	QC-Batch: 2002/02/04-02.10

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	130	5.0	mg/Kg	5.00	02/05/2002 13:49	ndp
Motor Oil	ND	250	mg/Kg	5.00	02/05/2002 13:49	
<b>Surrogate(s)</b>						
o-Terphenyl	NA	60-130	%	5.00	02/05/2002 13:49	sd





TEPH w/ Silica Gel Clean-up

**Batch QC report**

Test Method: 8015M

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/04-02.10**  
 LCS: 2002/02/04-02.10-002 Extracted: 02/04/2002 10:04 Analyzed: 02/04/2002 19:00  
 LCSD: 2002/02/04-02.10-003 Extracted: 02/04/2002 10:04 Analyzed: 02/04/2002 19:37

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	32.0	34.3	41.7	41.7	76.7	82.3	7.0	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	16.9	18.0	20.0	20.0	84.5	90.0		60-130	0		



TEPH w/ Silica Gel Clean-up

Batch QC Report

Test Method: 8015M

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Matrix Spike ( MS / MSD )	Soil	QC Batch # 2002/02/04-02.10
Sample ID: <b>SSC-27 &gt;&gt; MS</b>		Lab ID: 2002-02-0044-006
MS: 2002/02/04-02.10-004	Extracted: 02/04/2002 10:04	Analyzed: 02/05/2002 19:47
		Dilution: 1
MSD: 2002/02/04-02.10-005	Extracted: 02/04/2002 10:04	Analyzed: 02/05/2002 20:26
		Dilution: 1

Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		[%]	Recovery	RPD	MS
Diesel	332	416	135	41.3	41.5	477.	677.1	34.7	60-130	25	mso	mso,r
<b>Surrogate(s)</b>												
o-Terphenyl	25.1	24.8		20.0	20.0	125.	124.2		60-130	0		

TEPH w/ Silica Gel Clean-up

**Legend & Notes**

Test Method: 8015M

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**QC Compound Flags**

mso

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

**QC Compound Flags**

rpd

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

**Analyte Flags**

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

**Analyte Flags**

sd

Surrogate recovery not reportable due to required dilution.

**CHAIN OF CUSTODY RECORD**

**2002-02-0044**

Project Name:  
1274 65th St : 269 66th St

Job No.:  
1424-4B

Report To:  
Mark Arriola

Sampler (print):  
Veronica Tizao

Sampler (signature):  
*[Signature]*

QC Requirement:  Level A (standard)

**Turnaround Requirements**

- 5 Working Days
- 48 Hours
- 24 Hours
- 2-3 Hours RUSH
- \_\_\_\_\_

**ANALYSES REQUESTED**

64488

Sample I.D.	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	TPH as gas/BTEX/MTBE (8015/8020)	TPH as diesel (8015M) ; water oil silica gel column	TRPH (418.1) silica gel column	Halogenated VOCs (8010)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filer and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M (Purgeable and Extractable)	Lead (6010)	Remarks
SP1-2	2/04/02	13:00		Soil	1	X	X		X							X	
SP1-3		13:00		↓	↓	X	X		X							X	
SSC-24A		13:00		↓	↓	X	X		X							X	
SSC-25		14:30		↓	↓	X	X		X							X	
SSC-26		15:00		↓	↓	X	X		X							X	
SSC-27		15:30		↓	↓	X	X		X							X	

**RUSH**

Relinquished By: <i>[Signature]</i>	Date: 2/4/02	Time: 17:00	Received By: <i>[Signature]</i>	Date: 2-4	Time: 1650	PM Initial:
Relinquished By: <i>[Signature]</i>	Date: 2-4	Time: 1740	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Lab of Record: STL-SF			Temp:
			Received by Lab: <i>[Signature]</i>	Date: 2/4/02	Time: 1740	4.5°C



February 12th, 2002

Lowney & Associates  
Contact: Mark Arniola  
167 Filbert Street  
Oakland, Ca 94607

**STL ChromaLab**  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mark,

Enclosed are the hard copy subcontract report(s) for STL San Francisco submission number 2002-02-0044. The project name 1424-4B/ 1274 65<sup>th</sup> St. & 1269 66<sup>th</sup> St. You were mailed fax copies with our original data package because the subcontract copies were not yet available.

**These are for your records only.**

We apologize for any inconvenience.

If you have any questions or need more information, please do not hesitate to give me a call.

Sincerely,

*Tina Totorica*

Tina Totorica  
Administrative Assistant

Enclosures

**RECEIVED**  
FEB 14 2002  
LOWNEY, CA

# GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

## CERTIFICATE OF ANALYSIS

Report # N036-04

8260B

Date: 2/06/02

STL San Francisco  
1220 Quarry Lane  
Pleasanton

Project: 2002-02-0044

Date Rec'd: 2/05/02  
Date Started: 2/05/02  
Date Completed: 2/06/02

CA 94566-4756 PO#

Date Sampled: 2/04/02  
Time:  
Sampler:

Sample ID: SP1-2  
Lab ID: N200288

Method	RL	Analyte	Results	Units
8260B	5.0	Bromodichloromethane	ND	µg/Kg
	5.0	Bromoform	ND	
	5.0	Chloroform	ND	
	5.0	Dibromochloromethane	ND	
	5.0	Benzene	ND	
	5.0	Carbon Tetrachloride	ND	
	5.0	1,2-Dichlorobenzene	ND	
	5.0	1,4-Dichlorobenzene	ND	
	5.0	1,1-Dichloroethane	ND	
	5.0	1,2-Dichloroethane(1,2-DCA)	ND	
	5.0	1,1-Dichloroethylene	ND	
	5.0	cis-1,2-Dichloroethylene	ND	
	5.0	trans-1,2-Dichloroethylene	ND	
	20	Methylene Chloride	ND	
	5.0	1,2-Dichloropropane	ND	
	5.0	Total 1,3-Dichloropropene	ND	
	5.0	Ethyl Benzene	ND	
	5.0	Ethylene dibromide (EDB)	ND	
	5.0	Chlorobenzene	ND	
	5.0	Styrene	ND	
	5.0	1,1,2,2-Tetrachloroethane	ND	
	5.0	Tetrachloroethylene (PCE)	ND	
	5.0	Toluene	ND	
	5.0	1,2,4-Trichlorobenzene	ND	
	5.0	1,1,1-Trichloroethane	ND	
	5.0	1,1,2-Trichloroethane	ND	
	5.0	Trichloroethylene	ND	
	5.0	Trichlorofluoromethane	ND	
	5.0	Trichlorotrifluoroethane	ND	
	5.0	Vinyl Chloride	ND	
	5.0	m,p-Xylene	ND	
	5.0	o-Xylene	ND	
	50	2-Butanone (MEK)	ND	
	50	4-Methyl-2-pentanone (MIBK)	ND	
	50	Acetone (dimethyl Ketone)	ND	

**CERTIFICATE OF ANALYSIS**

8260B

Report # N036-04

Sample ID: SP1-2

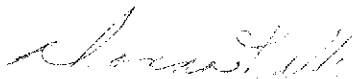
Lab ID: N200288

Method	RL	Analyte	Results	Units
8260B	5.0	Bromobenzene	ND	µg/Kg
	5.0	Bromochloromethane	ND	
	5.0	Bromomethane	ND	
	5.0	n-Butylbenzene	ND	
	5.0	sec-Butylbenzene	ND	
	5.0	tert-Butylbenzene	ND	
	5.0	Chloroethane	ND	
	10	2-Chloroethylvinyl Ether	ND	
	5.0	Chloromethane	ND	
	5.0	2-Chlorotoluene	ND	
	5.0	4-Chlorotoluene	ND	
	5.0	Dibromomethane	ND	
	5.0	1,3-Dichlorobenzene	ND	
	5.0	Dichlorodifluoromethane	ND	
	5.0	1,3-Dichloropropane	ND	
	5.0	2,2-Dichloropropane	ND	
	5.0	1,1-Dichloropropene	ND	
	5.0	Hexachlorobutadiene	ND	
	5.0	Isopropylbenzene	ND	
	5.0	p-Isopropyltoluene	ND	
	5.0	Methyl tert-Butyl Ether (MTBE)	ND	
	5.0	n-Propylbenzene	ND	
	5.0	1,1,1,2-Tetrachloroethane	ND	
	5.0	1,2,3-Trichlorobenzene	ND	
	5.0	1,2,3-Trichloropropane	ND	
	5.0	1,2,4-Trimethylbenzene	ND	
	5.0	1,3,5-Trimethylbenzene	ND	
	5.0	1,2-Dibromo-3-chloropropane(DBCP)	ND	

Surrogate	Amnt Spiked	Amnt Recovered	% Recovery	QC Limit %
1,2-Dichloroethane-d <sub>4</sub>	100	102	102.00	66-133
2-Bromo-1-chloropropane	100	98.5	98.50	63-139
4-Bromofluorobenzene	100	100	100.00	64-136

  
 Mario D'Onofrio  
 Chemist

Certification # 1157

  
 Donna Keller  
 Laboratory Director

# GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

## CERTIFICATE OF ANALYSIS

Report # N036-04

8260B

Date: 2/06/02

STL San Francisco  
1220 Quarry Lane  
Pleasanton

Project: 2002-02-0044

Date Rec'd: 2/05/02  
Date Started: 2/05/02  
Date Completed: 2/06/02

CA 94566-4756 PO#

Date Sampled: 2/04/02  
Time:  
Sampler:

Sample ID: SP1-3  
Lab ID: N200289

Method	RL	Analyte	Results	Units
8260B	5.0	Bromodichloromethane	ND	µg/Kg
	5.0	Bromoform	ND	
	5.0	Chloroform	ND	
	5.0	Dibromochloromethane	ND	
	5.0	Benzene	ND	
	5.0	Carbon Tetrachloride	ND	
	5.0	1,2-Dichlorobenzene	ND	
	5.0	1,4-Dichlorobenzene	ND	
	5.0	1,1-Dichloroethane	ND	
	5.0	1,2-Dichloroethane(1,2-DCA)	ND	
	5.0	1,1-Dichloroethylene	ND	
	5.0	cis-1,2-Dichloroethylene	ND	
	5.0	trans-1,2-Dichloroethylene	ND	
	20	Methylene Chloride	ND	
	5.0	1,2-Dichloropropane	ND	
	5.0	Total 1,3-Dichloropropene	ND	
	5.0	Ethyl Benzene	ND	
	5.0	Ethylene dibromide (EDB)	ND	
	5.0	Chlorobenzene	ND	
	5.0	Styrene	ND	
	5.0	1,1,2,2-Tetrachloroethane	ND	
	5.0	Tetrachloroethylene (PCE)	ND	
	5.0	Toluene	ND	
	5.0	1,2,4-Trichlorobenzene	ND	
	5.0	1,1,1-Trichloroethane	ND	
	5.0	1,1,2-Trichloroethane	ND	
	5.0	Trichloroethylene	ND	
	5.0	Trichlorofluoromethane	ND	
	5.0	Trichlorotrifluoroethane	ND	
	5.0	Vinyl Chloride	ND	
	5.0	m,p-Xylene	ND	
	5.0	o-Xylene	ND	
	50	2-Butanone (MEK)	ND	
	50	4-Methyl-2-pentanone (MIBK)	ND	
	50	Acetone (dimethyl Ketone)	ND	



# CERTIFICATE OF ANALYSIS

8260B

Report # N036-04

Sample ID: SP1-3

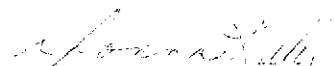
Lab ID: N200289

Method	RL	Analyte	Results	Units
8260B	5.0	Bromobenzene	ND	µg/Kg
	5.0	Bromochloromethane	ND	
	5.0	Bromomethane	ND	
	5.0	n-Butylbenzene	ND	
	5.0	sec-Butylbenzene	ND	
	5.0	tert-Butylbenzene	ND	
	5.0	Chloroethane	ND	
	10	2-Chloroethylvinyl Ether	ND	
	5.0	Chloromethane	ND	
	5.0	2-Chlorotoluene	ND	
	5.0	4-Chlorotoluene	ND	
	5.0	Dibromomethane	ND	
	5.0	1,3-Dichlorobenzene	ND	
	5.0	Dichlorodifluoromethane	ND	
	5.0	1,3-Dichloropropane	ND	
	5.0	2,2-Dichloropropane	ND	
	5.0	1,1-Dichloropropene	ND	
	5.0	Hexachlorobutadiene	ND	
	5.0	Isopropylbenzene	ND	
	5.0	p-Isopropyltoluene	ND	
	5.0	Methyl tert-Butyl Ether (MTBE)	ND	
	5.0	n-Propylbenzene	ND	
	5.0	1,1,1,2-Tetrachloroethane	ND	
	5.0	1,2,3-Trichlorobenzene	ND	
	5.0	1,2,3-Trichloropropane	ND	
	5.0	1,2,4-Trimethylbenzene	ND	
	5.0	1,3,5-Trimethylbenzene	ND	
	5.0	1,2-Dibromo-3-chloropropane(DBCP)	ND	

Surrogate	Amnt Spiked	Amnt Recovered	% Recovery	QC Limit %
1,2-Dichloroethane-d <sub>1</sub>	100	107	107.00	66-133
2-Bromo-1-chloropropane	100	103	103.00	63-139
4-Bromofluorobenzene	100	95.3	95.30	64-136

  
 Mario D'Onofrio  
 Chemist

Certification # 1157

  
 Donna Keller  
 Laboratory Director

# GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

## CERTIFICATE OF ANALYSIS

Report # N036-04

8260B

Date: 2/06/02

STL San Francisco  
1220 Quarry Lane  
Pleasanton

Project: 2002-02-0044

Date Rec'd: 2/05/02  
Date Started: 2/05/02  
Date Completed: 2/06/02

CA 94566-4756 PO#

Date Sampled: 2/04/02  
Time:  
Sampler:

Sample ID: SSC-29A

Lab ID: N200290

Method	RL	Analyte	Results	Units
8260B	5.0	Bromodichloromethane	ND	µg/Kg
	5.0	Bromoform	ND	
	5.0	Chloroform	ND	
	5.0	Dibromochloromethane	ND	
	5.0	Benzene	ND	
	5.0	Carbon Tetrachloride	ND	
	5.0	1,2-Dichlorobenzene	ND	
	5.0	1,4-Dichlorobenzene	ND	
	5.0	1,1-Dichloroethane	ND	
	5.0	1,2-Dichloroethane(1,2-DCA)	ND	
	5.0	1,1-Dichloroethylene	ND	
	5.0	cis-1,2-Dichloroethylene	ND	
	5.0	trans-1,2-Dichloroethylene	ND	
	20	Methylene Chloride	ND	
	5.0	1,2-Dichloropropane	ND	
	5.0	Total 1,3-Dichloropropene	ND	
	5.0	Ethyl Benzene	6.8	
	5.0	Ethylene dibromide (EDB)	ND	
	5.0	Chlorobenzene	ND	
	5.0	Styrene	ND	
	5.0	1,1,2,2-Tetrachloroethane	ND	
	5.0	Tetrachloroethylene (PCE)	ND	
	5.0	Toluene	ND	
	5.0	1,2,4-Trichlorobenzene	ND	
	5.0	1,1,1-Trichloroethane	ND	
	5.0	1,1,2-Trichloroethane	ND	
	5.0	Trichloroethylene	ND	
	5.0	Trichlorofluoromethane	ND	
	5.0	Trichlorotrifluoroethane	ND	
	5.0	Vinyl Chloride	ND	
	5.0	m,p-Xylene	ND	
	5.0	o-Xylene	13	
	50	2-Butanone (MEK)	ND	
	50	4-Methyl-2-pentanone (MIBK)	ND	
	50	Acetone (dimethyl Ketone)	ND	

**CERTIFICATE OF ANALYSIS**

8260B

Report # N036-04

Sample ID: SSC-29A

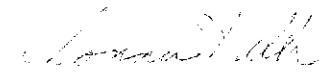
Lab ID: N200290

Method	RL	Analyte	Results	Units
8260B	5.0	Bromobenzene	ND	µg/Kg
	5.0	Bromochloromethane	ND	
	5.0	Bromomethane	ND	
	5.0	n-Butylbenzene	ND	
	5.0	sec-Butylbenzene	ND	
	5.0	tert-Butylbenzene	ND	
	5.0	Chloroethane	ND	
	10	2-Chloroethylvinyl Ether	ND	
	5.0	Chloromethane	ND	
	5.0	2-Chlorotoluene	ND	
	5.0	4-Chlorotoluene	ND	
	5.0	Dibromomethane	ND	
	5.0	1,3-Dichlorobenzene	ND	
	5.0	Dichlorodifluoromethane	ND	
	5.0	1,3-Dichloropropane	ND	
	5.0	2,2-Dichloropropane	ND	
	5.0	1,1-Dichloropropene	ND	
	5.0	Hexachlorobutadiene	ND	
	5.0	Isopropylbenzene	ND	
	5.0	p-Isopropyltoluene	ND	
	5.0	Methyl tert-Butyl Ether (MTBE)	ND	
	5.0	n-Propylbenzene	ND	
	5.0	1,1,1,2-Tetrachloroethane	ND	
	5.0	1,2,3-Trichlorobenzene	ND	
	5.0	1,2,3-Trichloropropane	ND	
	5.0	1,2,4-Trimethylbenzene	ND	
	5.0	1,3,5-Trimethylbenzene	ND	
	5.0	1,2-Dibromo-3-chloropropane(DBCP)	ND	

Surrogate	Amnt Spiked	Amnt Recovered	% Recovery	QC Limit %
1,2-Dichloroethane-d <sub>4</sub>	100	121	121.00	66-133
2-Bromo-1-chloropropane	100	102	102.00	63-139
4-Bromofluorobenzene	100	108	108.00	64-136

  
 Mario D'Onofrio  
 Chemist

Certification # 1157

  
 Donna Keller  
 Laboratory Director

# GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

## CERTIFICATE OF ANALYSIS

Report # N036-04

8260B

Date: 2/06/02

STL San Francisco  
1220 Quarry Lane  
Pleasanton

Project: 2002-02-0044

Date Rec'd: 2/05/02  
Date Started: 2/05/02  
Date Completed: 2/06/02

CA 94566-4756 PO#

Date Sampled: 2/04/02  
Time:  
Sampler:

Sample ID: SSC-25  
Lab ID: N200291

Method	RL	Analyte	Results	Units
8260B	200	Bromodichloromethane	ND	µg/Kg
	200	Bromoform	ND	
	200	Chloroform	ND	
	200	Dibromochloromethane	ND	
	200	Benzene	ND	
	200	Carbon Tetrachloride	ND	
	200	1,2-Dichlorobenzene	ND	
	200	1,4-Dichlorobenzene	ND	
	200	1,1-Dichloroethane	ND	
	200	1,2-Dichloroethane(1,2-DCA)	ND	
	200	1,1-Dichloroethylene	ND	
	200	cis-1,2-Dichloroethylene	ND	
	200	trans-1,2-Dichloroethylene	ND	
	800	Methylene Chloride	ND	
	200	1,2-Dichloropropane	ND	
	200	Total 1,3-Dichloropropene	ND	
	200	Ethyl Benzene	ND	
	200	Ethylene dibromide (EDB)	ND	
	200	Chlorobenzene	ND	
	200	Styrene	ND	
	200	1,1,2,2-Tetrachloroethane	ND	
	200	Tetrachloroethylene (PCE)	ND	
	200	Toluene	ND	
	200	1,2,4-Trichlorobenzene	ND	
	200	1,1,1-Trichloroethane	ND	
	200	1,1,2-Trichloroethane	ND	
	200	Trichloroethylene	ND	
	200	Trichlorofluoromethane	ND	
	200	Trichlorotrifluoroethane	ND	
	200	Vinyl Chloride	ND	
	200	m,p-Xylene	ND	
	200	o-Xylene	ND	
	2000	2-Butanone (MEK)	ND	
	2000	4-Methyl-2-pentanone (MIBK)	ND	
	2000	Acetone (dimethyl Ketone)	ND	

**CERTIFICATE OF ANALYSIS**

8260B

Report # N036-04

Sample ID: SSC-25

Lab ID: N200291

Method	RL	Analyte	Results	Units
8260B	200	Bromobenzene	ND	µg/Kg
	200	Bromochloromethane	ND	
	200	Bromomethane	ND	
	200	n-Butylbenzene	3750	
	200	sec-Butylbenzene	1530	
	200	tert-Butylbenzene	ND	
	200	Chloroethane	ND	
	400	2-Chloroethylvinyl Ether	ND	
	200	Chloromethane	ND	
	200	2-Chlorotoluene	ND	
	200	4-Chlorotoluene	ND	
	200	Dibromomethane	ND	
	200	1,3-Dichlorobenzene	ND	
	200	Dichlorodifluoromethane	ND	
	200	1,3-Dichloropropane	ND	
	200	2,2-Dichloropropane	ND	
	200	1,1-Dichloropropene	ND	
	200	Hexachlorobutadiene	ND	
	200	Isopropylbenzene	2080	
	200	p-Isopropyltoluene	393	
	200	Methyl tert-Butyl Ether (MTBE)	ND	
	200	n-Propylbenzene	4930	
	200	1,1,1,2-Tetrachloroethane	ND	
	200	1,2,3-Trichlorobenzene	ND	
	200	1,2,3-Trichloropropane	ND	
	200	1,2,4-Trimethylbenzene	ND	
	200	1,3,5-Trimethylbenzene	ND	
	200	1,2-Dibromo-3-chloropropane(DBCP)	ND	

Surrogate	Amnt Spiked	Amnt Recovered	% Recovery	QC Limit %
1,2-Dichloroethane-d <sub>4</sub>	4000	4780	119.50	66-133
2-Bromo-1-chloropropane	4000	4100	102.50	63-139
4-Bromofluorobenzene	4000	4590	114.75	64-136

  
 Mario D'Onofrio  
 Chemist

Certification # 1157

  
 Donna Keller  
 Laboratory Director

# GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351

Phone (209) 572-0900

Fax (209) 572-0916

## CERTIFICATE OF ANALYSIS

Report # N036-04

8260B

Date: 2/06/02

STL San Francisco  
1220 Quarry Lane  
Pleasanton

Project: 2002-02-0044

CA 94566-4756 PO#

Date Rec'd: 2/05/02  
Date Started: 2/05/02  
Date Completed: 2/06/02

Date Sampled: 2/04/02  
Time:  
Sampler:

Sample ID: SSC-26  
Lab ID: N200292

Method	RL	Analyte	Results	Units
8260B	5.0	Bromodichloromethane	ND	µg/Kg
	5.0	Bromoform	ND	
	5.0	Chloroform	ND	
	5.0	Dibromochloromethane	ND	
	5.0	Benzene	31	
	5.0	Carbon Tetrachloride	ND	
	5.0	1,2-Dichlorobenzene	ND	
	5.0	1,4-Dichlorobenzene	ND	
	5.0	1,1-Dichloroethane	ND	
	5.0	1,2-Dichloroethane(1,2-DCA)	ND	
	5.0	1,1-Dichloroethylene	ND	
	5.0	cis-1,2-Dichloroethylene	ND	
	5.0	trans-1,2-Dichloroethylene	ND	
	20	Methylene Chloride	ND	
	5.0	1,2-Dichloropropane	ND	
	5.0	Total 1,3-Dichloropropene	ND	
	5.0	Ethyl Benzene	25	
	5.0	Ethylene dibromide (EDB)	ND	
	5.0	Chlorobenzene	ND	
	5.0	Styrene	ND	
	5.0	1,1,2,2-Tetrachloroethane	ND	
	5.0	Tetrachloroethylene (PCE)	ND	
	5.0	Toluene	ND	
	5.0	1,2,4-Trichlorobenzene	ND	
	5.0	1,1,1-Trichloroethane	ND	
	5.0	1,1,2-Trichloroethane	ND	
	5.0	Trichloroethylene	ND	
	5.0	Trichlorofluoromethane	ND	
	5.0	Trichlorotrifluoroethane	ND	
	5.0	Vinyl Chloride	ND	
	5.0	m,p-Xylene	ND	
	5.0	o-Xylene	ND	
	50	2-Butanone (MEK)	ND	
	50	4-Methyl-2-pentanone (MIBK)	ND	
	50	Acetone (dimethyl Ketone)	ND	

# CERTIFICATE OF ANALYSIS

8260B

Report # N036-04

Sample ID: SSC-26

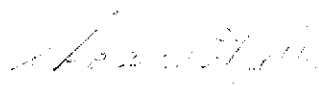
Lab ID: N200292

Method	RL	Analyte	Results	Units
8260B	5.0	Bromobenzene	ND	µg/Kg
	5.0	Bromochloromethane	ND	
	5.0	Bromomethane	ND	
	5.0	n-Butylbenzene	77	
	5.0	sec-Butylbenzene	18	
	5.0	tert-Butylbenzene	ND	
	5.0	Chloroethane	ND	
	10	2-Chloroethylvinyl Ether	ND	
	5.0	Chloromethane	ND	
	5.0	2-Chlorotoluene	ND	
	5.0	4-Chlorotoluene	ND	
	5.0	Dibromomethane	ND	
	5.0	1,3-Dichlorobenzene	ND	
	5.0	Dichlorodifluoromethane	ND	
	5.0	1,3-Dichloropropane	ND	
	5.0	2,2-Dichloropropane	ND	
	5.0	1,1-Dichloropropene	ND	
	5.0	Hexachlorobutadiene	ND	
	5.0	Isopropylbenzene	31	
	5.0	p-Isopropyltoluene	ND	
	5.0	Methyl tert-Butyl Ether (MTBE)	ND	
	5.0	n-Propylbenzene	110	
	5.0	1,1,1,2-Tetrachloroethane	ND	
	5.0	1,2,3-Trichlorobenzene	ND	
	5.0	1,2,3-Trichloropropane	ND	
	5.0	1,2,4-Trimethylbenzene	ND	
	5.0	1,3,5-Trimethylbenzene	ND	
	5.0	1,2-Dibromo-3-chloropropane(DBCP)	ND	

Surrogate	Amnt Spiked	Amnt Recovered	% Recovery	QC Limit %
1,2-Dichloroethane-d <sub>4</sub>	100	117	117.00	66-133
2-Bromo-1-chloropropane	100	106	106.00	63-139
4-Bromofluorobenzene	100	103	103.00	64-136

  
 Mario D'Onofrio  
 Chemist

Certification # 1157

  
 Donna Keller  
 Laboratory Director

# GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351

Phone (209) 572-0900

Fax (209) 572-0916

## CERTIFICATE OF ANALYSIS

Report # N036-04

8260B

Date: 2/06/02

STL San Francisco  
1220 Quarry Lane  
Pleasanton

Project: 2002-02-0044

Date Rec'd: 2/05/02  
Date Started: 2/05/02  
Date Completed: 2/06/02

CA 94566-4756 PO#

Date Sampled: 2/04/02  
Time:  
Sampler:

Sample ID: SSC-27  
Lab ID: N200293

Method	RL	Analyte	Results	Units
8260B	200	Bromodichloromethane	ND	µg/Kg
	200	Bromoform	ND	
	200	Chloroform	ND	
	200	Dibromochloromethane	ND	
	200	Benzene	ND	
	200	Carbon Tetrachloride	ND	
	200	1,2-Dichlorobenzene	ND	
	200	1,4-Dichlorobenzene	ND	
	200	1,1-Dichloroethane	ND	
	200	1,2-Dichloroethane(1,2-DCA)	ND	
	200	1,1-Dichloroethylene	ND	
	200	cis-1,2-Dichloroethylene	ND	
	200	trans-1,2-Dichloroethylene	ND	
	800	Methylene Chloride	ND	
	200	1,2-Dichloropropane	ND	
	200	Total 1,3-Dichloropropene	3890	
	200	Ethyl Benzene	ND	
	200	Ethylene dibromide (EDB)	ND	
	200	Chlorobenzene	ND	
	200	Styrene	ND	
	200	1,1,2,2-Tetrachloroethane	ND	
	200	Tetrachloroethylene (PCE)	ND	
	200	Toluene	ND	
	200	1,2,4-Trichlorobenzene	ND	
	200	1,1,1-Trichloroethane	ND	
	200	1,1,2-Trichloroethane	ND	
	200	Trichloroethylene	ND	
	200	Trichlorofluoromethane	ND	
	200	Trichlorotrifluoroethane	ND	
	200	Vinyl Chloride	ND	
	200	m,p-Xylene	667	
	200	o-Xylene	ND	
	2000	2-Butanone (MEK)	ND	
	2000	4-Methyl-2-pentanone (MIBK)	ND	
	2000	Acetone (dimethyl Ketone)	ND	



**CERTIFICATE OF ANALYSIS**

8260B

Report # N036-04

Sample ID: SSC-27

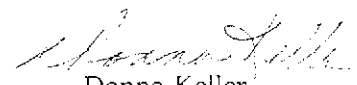
Lab ID: N200293

Method	RL	Analyte	Results	Units
8260B	200	Bromobenzene	ND	µg/Kg
	200	Bromochloromethane	ND	
	200	Bromomethane	ND	
	200	n-Butylbenzene	2990	
	200	sec-Butylbenzene	983	
	200	tert-Butylbenzene	ND	
	200	Chloroethane	ND	
	400	2-Chloroethylvinyl Ether	ND	
	200	Chloromethane	ND	
	200	2-Chlorotoluene	ND	
	200	4-Chlorotoluene	ND	
	200	Dibromomethane	ND	
	200	1,3-Dichlorobenzene	ND	
	200	Dichlorodifluoromethane	ND	
	200	1,3-Dichloropropane	ND	
	200	2,2-Dichloropropane	ND	
	200	1,1-Dichloropropene	ND	
	200	Hexachlorobutadiene	ND	
	200	Isopropylbenzene	1370	
	200	p-Isopropyltoluene	1110	
	200	Methyl tert-Butyl Ether (MTBE)	ND	
	200	n-Propylbenzene	4060	
	200	1,1,1,2-Tetrachloroethane	ND	
	200	1,2,3-Trichlorobenzene	ND	
	200	1,2,3-Trichloropropane	ND	
	200	1,2,4-Trimethylbenzene	ND	
	200	1,3,5-Trimethylbenzene	2440	
	200	1,2-Dibromo-3-chloropropane(DBCP)	ND	

Surrogate	Amnt Spiked	Amnt Recovered	% Recovery	QC Limit %
1,2-Dichloroethane-d <sub>4</sub>	4000	4102	102.55	66-133
2-Bromo-1-chloropropane	4000	3907	97.68	63-139
4-Bromofluorobenzene	4000	4690	117.25	64-136

  
 Mario D'Onofrio  
 Chemist

Certification # 1157

  
 Donna Keller  
 Laboratory Director

# GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Report# N036-04

## QC REPORT

STL San Francisco  
1220 Quarry Lane  
Pleasanton

CA 94566-4756

Dates Analyzed 02/05/02-02/06/02

Analyte	Batch #	Method	LCS %Recovery	MS % Recovery	MSD % Recovery	RPD	Blank
MTBE	V00051	8260B	118.5	119.5	119.0	0.4	ND
1,1-Dichloroethane			104.5	105.5	105.5	0.0	ND
Benzene			101.0	102.5	101.5	1.0	ND
Trichloroethene			98.0	96.0	96.5	0.5	ND
Toluene			97.5	98.0	90.0	8.5	ND
Chlorobenzene			103.5	101.5	100.0	1.5	ND

Comments:

  
Mario D'Onofrio  
Chemist

Certification # 1157

  
Donna Keller  
Laboratory Director

From:  
**STL San Francisco (CL)**  
 1220 Quarry Lane  
 Pleasanton, CA 94566-4756

To:  
 GeoAnalytical Labs - SUB CONTRACT ONLY  
 1405 Kansas Avenue  
 Modesto, CA 95351

*N036-04*

Project Manager: Vincent Vancil  
 Phone: (925) 484-1919  
 Fax: (925) 484-1096  
 Email: vvancil@chromalab.com

Phone: (209) 572-0900  
 Fax: (209) 572-0916  
 Contact: Donna Keller  
 Phone: (209) 572-0900

CL Submission #: **2002-02-0044**

Project #: 1424-4B

CL PO #:

Project Name: 1274 65th St. & 1269 66th St.

Client Sample ID	CL#	Sampled	Matrix	Analysis	Method	Due
SP1-2	001	02/04/2002 13:00	Soil	Halogenated Volatile Organics by 8021B/ 8260B	8021B/8260B	N200288 02/05/2002 17:00
SP1-3	002	02/04/2002 13:00	Soil	Halogenated Volatile Organics by 8021B/ 8260B	8021B/8260B	N200289 02/05/2002 17:00
SSC-29A	003	02/04/2002 13:00	Soil	Halogenated Volatile Organics by 8021B/ 8260B	8021B/8260B	N200290 02/05/2002 17:00
SSC-25	004	02/04/2002 14:30	Soil	Halogenated Volatile Organics by 8021B/ 8260B	8021B/8260B	N200291 02/05/2002 17:00
SSC-26	005	02/04/2002 15:00	Soil	Halogenated Volatile Organics by 8021B/ 8260B	8021B/8260B	N200292 02/05/2002 17:00
SSC-27	006	02/04/2002 15:30	Soil	Halogenated Volatile Organics by 8021B/ 8260B	8021B/8260B	N200293 02/05/2002 17:00

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

*Rush per Vincent*

RELINQUISHED BY: 1. <i>N. Khammavet</i> 10:00 Signature Time <i>N. Khammavet</i> 2/5/02 Printed Name Date STL SF. Company	RELINQUISHED BY: 2. <i>U. Anbarge</i> Signature Time 11:30 <i>MEDIAN ANALYSIS</i> Printed Name Date <i>MEDIAN</i> 2-5-02 Company	RELINQUISHED BY: 3. Signature Time Printed Name Date Company
RECEIVED BY: 1. <i>U. Anbarge</i> Signature Time 10:00 <i>MEDIAN ANALYSIS</i> Printed Name Date <i>World Center</i> 2-5-02 Company	RECEIVED BY: 2. <i>Priva Sahota</i> 11:20 Signature Time <i>Priva Sahota</i> 2/5/02 Printed Name Date Geo Company	RECEIVED BY: 3. Signature Time Printed Name Date Company

**Lowney & Associates Oakland**

167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-4B  
1269 66th St. & 1279 65th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mr. Arniola,

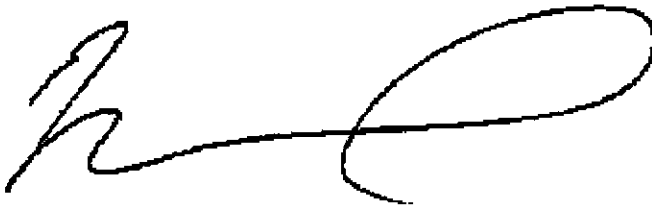
Attached is our report for your samples received on Monday January 28, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
March 14, 2002 unless you have requested otherwise.

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

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

Sincerely,



Vincent Vancil  
Project Manager



CAM W.E.T. (STLC) Lead

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 1269 66th St. & 1279 65th St.

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-4	Soil	01/25/2002 15:30	1
SS-2	Soil	01/10/2002 14:00	2
SSC-14	Soil	01/13/2002 11:10	3
SSC-12	Soil	01/13/2002 10:30	4
SSC-11	Soil	01/13/2002 10:30	5

CAM W.E.T. (STLC) Lead

**Lowney & Associates Oakland**

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3005A

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-4</b>	Lab Sample ID: 2002-02-0057-001
Project: 1424-4B 1269 66th St. & 1279 65th St.	Received: 01/28/2002
	Extracted: 02/08/2002 05:18
Sampled: 01/25/2002 15:30	QC-Batch: 2002/02/08-03.15
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	2.8	0.50	mg/L	1.00	02/08/2002 08:56	



CAM W.E.T. (STLC) Lead

Lowney & Associates Oakland

Test Method: 6010B

Attn: Mark Arniola

Prep Method: 3005A

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SS-2</b>	Lab Sample ID: 2002-02-0057-002
Project: 1424-4B 1269 66th St. & 1279 65th St.	Received: 01/28/2002
Sampled: 01/10/2002 14:00	Extracted: 02/08/2002 05:18
Matrix: Soil	QC-Batch: 2002/02/08-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	2.1	0.50	mg/L	1.00	02/08/2002 09:01	

CAM W.E.T. (STLC) Lead

**Lowney & Associates Oakland**

Test Method: 6010B

Attn: Mark Arniola

Prep Method: 3005A

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SSC-14</b>	Lab Sample ID: 2002-02-0057-003
Project: 1424-4B 1269 66th St. & 1279 65th St.	Received: 01/28/2002
Sampled: 01/13/2002 11:10	Extracted: 02/08/2002 05:18
Matrix: Soil	QC-Batch: 2002/02/08-03.15

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	0.80	0.50	mg/L	1.00	02/08/2002 09:23	





CAM W.E.T. (STLC) Lead

Lowney & Associates Oakland

Test Method: 6010B

Attn: Mark Arniola

Prep Method: 3005A

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-12</b>	Lab Sample ID: 2002-02-0057-004
Project: 1424-4B 1269 66th St. & 1279 65th St.	Received: 01/28/2002
Sampled: 01/13/2002 10:30	Extracted: 02/08/2002 05:18
Matrix: Soil	QC-Batch: 2002/02/08-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	22	0.50	mg/L	1.00	02/08/2002 09:28	

CAM W.E.T. (STLC) Lead

**Lowney & Associates Oakland**

Test Method: 6010B

Attn: Mark Arniola

Prep Method: 3005A

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SSC-11</b>	Lab Sample ID: 2002-02-0057-005
Project: 1424-4B 1269 66th St. & 1279 65th St.	Received: 01/28/2002
Sampled: 01/13/2002 10:30	Extracted: 02/08/2002 05:18
Matrix: Soil	QC-Batch: 2002/02/08-03.15

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	110	0.50	mg/L	1.00	02/08/2002 09:32	



CAM W.E.T. (STLC) Lead

Batch QC report

Test Method: 6010B

Prep Method: 3005A

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/02/08-03.15</b>
MB: 2002/02/08-03.15-028		Date Extracted: 02/08/2002 05:18

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Lead	ND	0.50	mg/L	02/08/2002 08:43	

CAM W.E.T. (STLC) Lead

Batch QC report

Test Method: 6010B

Prep Method: 3005A

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/08-03.15**  
 LCS: 2002/02/08-03.15-029 Extracted: 02/08/2002 05:18 Analyzed: 02/08/2002 08:47  
 LCSD: 2002/02/08-03.15-030 Extracted: 02/08/2002 05:18 Analyzed: 02/08/2002 08:52

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

CA DHS ELAP#1094

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Lead	4.83	4.58	5.00	5.00	96.6	91.6	5.3	80-120	20		



STL ChromaLab

ADD ON/CHANGE ORDER

2002-02-0057

New Submission No.:

Reference No.: 64495

ORIGINAL SUBMISSION INFORMATION

Client Name: Loungay - Oak

Project Mgr.: Mark Arnoldy

Project Name: 1269 GCM St S 1274 G5th St.

Name of Caller: Mark Call Date:

Add on Due Date: 3 day (2/8)

Comments:

Project No.: B 1424-415

PO#:

Date Received: 1-28-02

Submission No.: 2002-01-462 2002-01-517 2002-01-0175

ANALYSIS REQUEST

Sample ID	Date	Time	Mat rix	Prev. Spl. #	TPH (EPA 8015, 8020/8021) <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) <input type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	Fuel Oxygenates (8260B): <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Full Oxygenate List <input type="checkbox"/> MTBE <input type="checkbox"/> BTEX	Purgeable Halocarbons (HVOCs) (EPA 8010/8021)	Volatile Organics GC/MS (VOCs) (EPA 8260A/8260B)	Semivolatiles GC/MS (EPA 8270)	Oil & Grease <input type="checkbox"/> Petrol (EPA 1664) <input type="checkbox"/> Total	<input type="checkbox"/> Pesticides (EPA 8081) <input type="checkbox"/> PCBs (EPA 8082)	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM 17 Metals (EPA 8010/7470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other	<input checked="" type="checkbox"/> W.E.T. (STLC) <input type="checkbox"/> Pb <input type="checkbox"/> TCLP	<input type="checkbox"/> Hexavalent Chromium <input type="checkbox"/> pH (24 hr. hold time for H <sub>2</sub> O)	<input type="checkbox"/> Spec. Cond <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub> <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub>	NUMBER OF CONTAINERS
SSC-4	1-25-02	15:30	S	001													X				
SS-2	1-10-02	14:00	S	002													X				
SSC-14	1-13-02	11:00		009													X				
SSC-12		10:30		008													X				
SSC-11		10:30		007													X				
<b>RUSH</b>																					



**Lowney & Associates Oakland**

167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-4B  
1274 65th St. & 1269 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mr. Arniola,

Attached is our report for your samples received on Tuesday February 5, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
March 22, 2002 unless you have requested otherwise.

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

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

Sincerely,

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

Vincent Vancil  
Project Manager



Total Lead

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 1274 65th St. & 1269 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-28	Soil	02/05/2002 09:30	1
SSC-29	Soil	02/05/2002 09:30	2

Total Lead

**Lowney & Associates Oakland**

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-28</b>	Lab Sample ID: 2002-02-0067-001
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/05/2002 17:20
Sampled: 02/05/2002 09:30	Extracted: 02/05/2002 17:47
Matrix: Soil	QC-Batch: 2002/02/05-06.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	4.5	1.0	mg/Kg	1.00	02/06/2002 09:08	



Total Lead

**Lowney & Associates Oakland**

Test Method: 6010B

Attn: Mark Arniola

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-29</b>	Lab Sample ID: 2002-02-0067-002
Project: 1424-4B 1274 65th St. & 1269 66th St.	Received: 02/05/2002 17:20
Sampled: 02/05/2002 09:30	Extracted: 02/05/2002 17:47
Matrix: Soil	QC-Batch: 2002/02/05-06.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	400	1.0	mg/Kg	1.00	02/06/2002 09:12	





Total Lead  
Batch QC report

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/05-06.15**  
 LCS: 2002/02/05-06.15-012 Extracted: 02/05/2002 17:47 Analyzed: 02/06/2002 07:40  
 LCSD: 2002/02/05-06.15-013 Extracted: 02/05/2002 17:47 Analyzed: 02/06/2002 07:44

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Lead	90.4	90.2	100.0	100.0	90.4	90.2	0.2	80-120	20		

**CHAIN OF CUSTODY RECORD**

**2002-02-0067**

Project Name:  
127465th St & 269 66th St

Job No.:  
1424-4B

Report To:  
Mark Anniola

Sampler (print):  
Veronica Tiglar

Sampler (signature):  
*[Signature]*

QC Requirement:  Level A (standard)

**Tumaround Requirements**

5 Working Days

48 Hours

24 Hours

2-3 Hours RUSH

\_\_\_\_\_

**ANALYSES REQUESTED** 64506

Sample I.D.	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	TPH as gas/BTEX/MIBE (8015/8020)	TPH as diesel (8015M) silica gel column	TRPH (418.1) silica gel column	Halogenated VOCs (8010) (8021 or 8260)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M (Purgeable and Extractable)	LEAD (6010)	Remarks	
SSC-28	02/05/02	9:30		Soil	1													
SSC-29	02/05/02	9:30		Soil	1													

**RUSH**

Relinquished By: *Mark Anniola* Date: 2/5/02 Time: 16:15 Received By: *Mark Anniola* Date: 2/5/02 Time: 9:10 PM Initial:

Relinquished By: *[Signature]* Date: 2-5-02 Time: 5:15 Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Lab of Record: STL-SF Temp: \_\_\_\_\_

Received by Lab: *Denise Harrington* Date: 2/5/02 Time: 1725 9.4°C

**Lowney & Associates Oakland**

167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-4B  
1279 65th St. & 1269 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mr. Arniola,

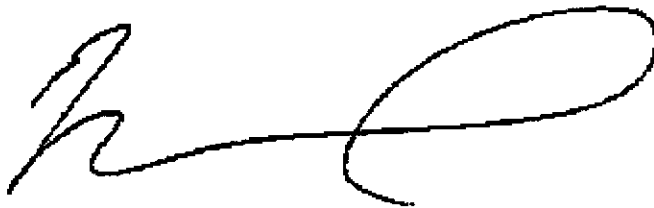
Attached is our report for your samples received on Wednesday February 6, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
March 23, 2002 unless you have requested otherwise.

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

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

Sincerely,



Vincent Vancil  
Project Manager



Halogenated Volatile Organic Compounds by 8021B/8260B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 1279 65th St. & 1269 66th St.

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-24B	Soil	02/05/2002 16:00	1
SSC-30	Soil	02/05/2002 16:00	2

## Halogenated Volatile Organic Compounds by 8021B/8260B

Lowney &amp; Associates Oakland

Test Method: 8260B

Attn: Mark Arniola

Prep Method: 5030B/5035

 STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

Sample ID: <b>SSC-24B</b>	Lab Sample ID: 2002-02-0080-001
Project: 1424-4B 1279 65th St. & 1269 66th St.	Received: 02/06/2002 12:10
Sampled: 02/05/2002 16:00	Extracted: 02/08/2002 12:03
Matrix: Soil	QC-Batch: 2002/02/08-01.09

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	02/08/2002 12:03	
Vinyl chloride	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
Chloroethane	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
Methylene chloride	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
Chloroform	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
Trichloroethene	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
Chlorobenzene	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
Bromoform	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
Chloromethane	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
Bromomethane	ND	5.0	ug/Kg	1.00	02/08/2002 12:03	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	106.7	74-121	%	1.00	02/08/2002 12:03	
1,2-Dichloroethane-d4	101.2	70-121	%	1.00	02/08/2002 12:03	
Toluene-d8	110.1	81-117	%	1.00	02/08/2002 12:03	

## Halogenated Volatile Organic Compounds by 8021B/8260B

Lowney &amp; Associates Oakland

Test Method: 8260B

Attn: Mark Arniola

Prep Method: 5030B/5035

 STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-30</b>	Lab Sample ID: 2002-02-0080-002
Project: 1424-4B 1279 65th St. & 1269 66th St.	Received: 02/06/2002 12:10
Sampled: 02/05/2002 16:00	Extracted: 02/07/2002 14:09
Matrix: Soil	QC-Batch: 2002/02/07-01.09

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	02/07/2002 14:09	
Vinyl chloride	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
Chloroethane	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
Methylene chloride	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
Chloroform	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
Trichloroethene	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
Chlorobenzene	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
Bromoform	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
Chloromethane	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
Bromomethane	ND	5.0	ug/Kg	1.00	02/07/2002 14:09	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	109.7	74-121	%	1.00	02/07/2002 14:09	
1,2-Dichloroethane-d4	114.5	70-121	%	1.00	02/07/2002 14:09	
Toluene-d8	113.1	81-117	%	1.00	02/07/2002 14:09	



Halogenated Volatile Organic Compounds by 8021B/8260B

## Batch QC report

Test Method: 8260B

Prep Method: 5035

 STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

Method Blank

Soil

QC Batch # 2002/02/07-01.09

MB: 2002/02/07-01.09-004

Date Extracted: 02/07/2002 10:40

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Bromodichloromethane	ND	5.0	ug/Kg	02/07/2002 10:40	
Bromoform	ND	5.0	ug/Kg	02/07/2002 10:40	
Bromomethane	ND	10	ug/Kg	02/07/2002 10:40	
Carbon tetrachloride	ND	5.0	ug/Kg	02/07/2002 10:40	
Chlorobenzene	ND	5.0	ug/Kg	02/07/2002 10:40	
Chloroethane	ND	10	ug/Kg	02/07/2002 10:40	
2-Chloroethylvinyl ether	ND	50	ug/Kg	02/07/2002 10:40	
Chloroform	ND	5.0	ug/Kg	02/07/2002 10:40	
Chloromethane	ND	10	ug/Kg	02/07/2002 10:40	
Dibromochloromethane	ND	5.0	ug/Kg	02/07/2002 10:40	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	02/07/2002 10:40	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	02/07/2002 10:40	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	02/07/2002 10:40	
Dichlorodifluoromethane	ND	10	ug/Kg	02/07/2002 10:40	
1,1-Dichloroethane	ND	5.0	ug/Kg	02/07/2002 10:40	
1,2-Dichloroethane	ND	5.0	ug/Kg	02/07/2002 10:40	
1,1-Dichloroethene	ND	5.0	ug/Kg	02/07/2002 10:40	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	02/07/2002 10:40	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	02/07/2002 10:40	
1,2-Dichloropropane	ND	5.0	ug/Kg	02/07/2002 10:40	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	02/07/2002 10:40	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	02/07/2002 10:40	
Methylene chloride	ND	5.0	ug/Kg	02/07/2002 10:40	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	02/07/2002 10:40	
Tetrachloroethene	ND	5.0	ug/Kg	02/07/2002 10:40	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	02/07/2002 10:40	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	02/07/2002 10:40	
Trichloroethene	ND	5.0	ug/Kg	02/07/2002 10:40	
Trichlorofluoromethane	ND	5.0	ug/Kg	02/07/2002 10:40	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	02/07/2002 10:40	
Vinyl chloride	ND	5.0	ug/Kg	02/07/2002 10:40	
<b>Surrogate(s)</b>					
4-Bromofluorobenzene	116.0	74-121	%	02/07/2002 10:40	
1,2-Dichloroethane-d4	105.5	70-121	%	02/07/2002 10:40	
Toluene-d8	109.2	81-117	%	02/07/2002 10:40	

Halogenated Volatile Organic Compounds by 8021B/8260B

## Batch QC report

Test Method: 8260B

Prep Method: 5030B/503E

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#1094

## Method Blank

Soil

QC Batch # 2002/02/07-01.09

MB: 2002/02/07-01.09-014

Date Extracted: 02/07/2002 10:40

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Dichlorodifluoromethane	ND	10.0	ug/Kg	02/07/2002 10:40	
Vinyl chloride	ND	5.0	ug/Kg	02/07/2002 10:40	
Chloroethane	ND	5.0	ug/Kg	02/07/2002 10:40	
Trichlorofluoromethane	ND	5.0	ug/Kg	02/07/2002 10:40	
1,1-Dichloroethene	ND	5.0	ug/Kg	02/07/2002 10:40	
Methylene chloride	ND	5.0	ug/Kg	02/07/2002 10:40	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	02/07/2002 10:40	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	02/07/2002 10:40	
1,1-Dichloroethane	ND	5.0	ug/Kg	02/07/2002 10:40	
Chloroform	ND	5.0	ug/Kg	02/07/2002 10:40	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	02/07/2002 10:40	
Carbon tetrachloride	ND	5.0	ug/Kg	02/07/2002 10:40	
1,2-Dichloroethane	ND	5.0	ug/Kg	02/07/2002 10:40	
Trichloroethene	ND	5.0	ug/Kg	02/07/2002 10:40	
1,2-Dichloropropane	ND	5.0	ug/Kg	02/07/2002 10:40	
Bromodichloromethane	ND	5.0	ug/Kg	02/07/2002 10:40	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	02/07/2002 10:40	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	02/07/2002 10:40	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	02/07/2002 10:40	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	02/07/2002 10:40	
Tetrachloroethene	ND	5.0	ug/Kg	02/07/2002 10:40	
Dibromochloromethane	ND	5.0	ug/Kg	02/07/2002 10:40	
Chlorobenzene	ND	5.0	ug/Kg	02/07/2002 10:40	
Bromoform	ND	5.0	ug/Kg	02/07/2002 10:40	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	02/07/2002 10:40	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	02/07/2002 10:40	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	02/07/2002 10:40	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	02/07/2002 10:40	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	02/07/2002 10:40	
Chloromethane	ND	5.0	ug/Kg	02/07/2002 10:40	
Bromomethane	ND	5.0	ug/Kg	02/07/2002 10:40	
<b>Surrogate(s)</b>					
4-Bromofluorobenzene	116.0	74-121	%	02/07/2002 10:40	
1,2-Dichloroethane-d4	105.6	70-121	%	02/07/2002 10:40	
Toluene-d8	109.2	81-117	%	02/07/2002 10:40	

Halogenated Volatile Organic Compounds by 8021B/8260B

**Batch QC report**

Test Method: 8260B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/02/08-01.09</b>
MB: 2002/02/08-01.09-004		Date Extracted: 02/08/2002 10:53

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Bromodichloromethane	ND	5.0	ug/Kg	02/08/2002 10:53	
Bromoform	ND	5.0	ug/Kg	02/08/2002 10:53	
Bromomethane	ND	10	ug/Kg	02/08/2002 10:53	
Carbon tetrachloride	ND	5.0	ug/Kg	02/08/2002 10:53	
Chlorobenzene	ND	5.0	ug/Kg	02/08/2002 10:53	
Chloroethane	ND	10	ug/Kg	02/08/2002 10:53	
2-Chloroethylvinyl ether	ND	50	ug/Kg	02/08/2002 10:53	
Chloroform	ND	5.0	ug/Kg	02/08/2002 10:53	
Chloromethane	ND	10	ug/Kg	02/08/2002 10:53	
Dibromochloromethane	ND	5.0	ug/Kg	02/08/2002 10:53	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	02/08/2002 10:53	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	02/08/2002 10:53	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	02/08/2002 10:53	
Dichlorodifluoromethane	ND	10	ug/Kg	02/08/2002 10:53	
1,1-Dichloroethane	ND	5.0	ug/Kg	02/08/2002 10:53	
1,2-Dichloroethane	ND	5.0	ug/Kg	02/08/2002 10:53	
1,1-Dichloroethene	ND	5.0	ug/Kg	02/08/2002 10:53	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	02/08/2002 10:53	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	02/08/2002 10:53	
1,2-Dichloropropane	ND	5.0	ug/Kg	02/08/2002 10:53	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	02/08/2002 10:53	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	02/08/2002 10:53	
Methylene chloride	ND	5.0	ug/Kg	02/08/2002 10:53	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	02/08/2002 10:53	
Tetrachloroethene	ND	5.0	ug/Kg	02/08/2002 10:53	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	02/08/2002 10:53	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	02/08/2002 10:53	
Trichloroethene	ND	5.0	ug/Kg	02/08/2002 10:53	
Trichlorofluoromethane	ND	5.0	ug/Kg	02/08/2002 10:53	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	02/08/2002 10:53	
Vinyl chloride	ND	5.0	ug/Kg	02/08/2002 10:53	
<b>Surrogate(s)</b>					
4-Bromofluorobenzene	116.1	74-121	%	02/08/2002 10:53	
1,2-Dichloroethane-d4	113.7	70-121	%	02/08/2002 10:53	
Toluene-d8	112.1	81-117	%	02/08/2002 10:53	

Halogenated Volatile Organic Compounds by 8021B/8260B

**Batch QC report**

Test Method: 8260B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/02/07-01.09**  
 LCS: 2002/02/07-01.09-005 Extracted: 02/07/2002 11:06 Analyzed: 02/07/2002 11:06  
 LCSD: 2002/02/07-01.09-003 Extracted: 02/07/2002 10:14 Analyzed: 02/07/2002 10:14

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Chlorobenzene	99.7	102	100.0	100.0	99.7	102.0	2.3	61-121	20		
1,1-Dichloroethene	80.2	82.5	100.0	100.0	80.2	82.5	2.8	65-125	20		
Trichloroethene	101	101	100.0	100.0	101.0	101.0	0.0	74-134	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	596	600	500	500	119.2	120.0		74-121			
1,2-Dichloroethane-d4	510	536	500	500	102.0	107.2		70-121			
Toluene-d8	565	570	500	500	113.0	114.0		81-117			

Halogenated Volatile Organic Compounds by 8021B/8260B

**Batch QC report**

Test Method: 8260B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/08-01.09**  
 LCS: 2002/02/08-01.09-005    Extracted: 02/08/2002 11:19    Analyzed: 02/08/2002 11:19  
 LCSD: 2002/02/08-01.09-003    Extracted: 02/08/2002 10:28    Analyzed: 02/08/2002 10:28

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

CA DHS ELAP#1094

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Chlorobenzene	103	101	100.0	100.0	103.0	101.0	2.0	61-121	20		
1,1-Dichloroethene	86.8	82.3	100.0	100.0	86.8	82.3	5.3	65-125	20		
Trichloroethene	105	123	100.0	100.0	105.0	123.0	15.8	74-134	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	569	561	500	500	113.8	112.2		74-121			
1,2-Dichloroethane-d4	492	574	500	500	98.4	114.8		70-121			
Toluene-d8	564	573	500	500	112.8	114.6		81-117			

Halogenated Volatile Organic Compounds by 8021B/8260B

**Batch QC Report**

Test Method: 8260B

Prep Method: 5030B/5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2002/02/07-01.09</b>
Sample ID: <b>SSC-30 &gt;&gt; MS</b>		Lab ID: 2002-02-0080-002
MS: 2002/02/07-01.09-012	Extracted: 02/07/2002 14:34	Analyzed: 02/07/2002 14:34
		Dilution: 1
MSD: 2002/02/07-01.09-013	Extracted: 02/07/2002 15:00	Analyzed: 02/07/2002 15:00
		Dilution: 1

Compound	Conc. [ug/Kg]			Exp. Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
1,1-Dichloroethen	68.2	85.3	ND	97.7	100.0	69.8	85.3	20.0	65-125	20		
Trichloroethene	102	108	ND	97.7	100.0	104.	108.0	3.4	74-134	20		
Chlorobenzene	105	107	ND	97.7	100.0	107.	107.0	0.5	61-121	20		
<b>Surrogate(s)</b>												
4-Bromofluoroben	599	571		500	500	119.	114.2		74-121			
1,2-Dichloroethan	573	574		500	500	114.	114.8		70-121			
Toluene-d8	560	567		500	500	112.	113.4		81-117			

Gas/BTEX Compounds by 8015M/8021

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 1279 65th St. & 1269 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-24B	Soil	02/05/2002 16:00	1
SSC-30	Soil	02/05/2002 16:00	2

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Test Method: 8021B  
8015M

Attn: Mark Arniola

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-24B</b>	Lab Sample ID: 2002-02-0080-001
Project: 1424-4B 1279 65th St. & 1269 66th St.	Received: 02/06/2002 12:10
Sampled: 02/05/2002 16:00	Extracted: 02/07/2002 11:29
Matrix: Soil	QC-Batch: 2002/02/07-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1.5	1.0	mg/Kg	1.00	02/07/2002 11:29	g
Benzene	0.015	0.0050	mg/Kg	1.00	02/07/2002 11:29	
Toluene	ND	0.0050	mg/Kg	1.00	02/07/2002 11:29	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	02/07/2002 11:29	
Xylene(s)	ND	0.0050	mg/Kg	1.00	02/07/2002 11:29	
MTBE	ND	0.0050	mg/Kg	1.00	02/07/2002 11:29	
<b>Surrogate(s)</b>						
Trifluorotoluene	127.9	53-125	%	1.00	02/07/2002 11:29	sh
4-Bromofluorobenzene-FID	97.9	58-124	%	1.00	02/07/2002 11:29	



Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Test Method: 8021B  
8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Attn: Mark Arniola

Prep Method: 5035

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

CA DHS ELAP#1094

Sample ID: <b>SSC-30</b>	Lab Sample ID: 2002-02-0080-002
Project: 1424-4B 1279 65th St. & 1269 66th St.	Received: 02/06/2002 12:10
Sampled: 02/05/2002 16:00	Extracted: 02/06/2002 22:50
Matrix: Soil	QC-Batch: 2002/02/06-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	02/06/2002 22:50	
Benzene	ND	0.0050	mg/Kg	1.00	02/06/2002 22:50	
Toluene	ND	0.0050	mg/Kg	1.00	02/06/2002 22:50	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	02/06/2002 22:50	
Xylene(s)	ND	0.0050	mg/Kg	1.00	02/06/2002 22:50	
MTBE	ND	0.0050	mg/Kg	1.00	02/06/2002 22:50	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	72.4	58-124	%	1.00	02/06/2002 22:50	
4-Bromofluorobenzene-FID	71.2	58-124	%	1.00	02/06/2002 22:50	





Gas/BTEX Compounds by 8015M/8021

**Batch QC report**

Test Method: 8021B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/06-01.03**  
 LCS: 2002/02/06-01.03-006 Extracted: 02/06/2002 11:37 Analyzed: 02/06/2002 11:37  
 LCSD: 2002/02/06-01.03-007 Extracted: 02/06/2002 12:07 Analyzed: 02/06/2002 12:07

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.103	0.0983	0.1000	0.1000	103.0	98.3	4.7	77-123	35		
Toluene	0.103	0.0985	0.1000	0.1000	103.0	98.5	4.5	78-122	35		
Ethyl benzene	0.102	0.0985	0.1000	0.1000	102.0	98.5	3.5	70-130	35		
Xylene(s)	0.300	0.293	0.300	0.300	100.0	97.7	2.3	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	549	513	500	500	109.8	102.6		53-125			

Gas/BTEX Compounds by 8015M/8021

**Batch QC report**

Test Method: 8015M

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/06-01.03**  
 LCS: 2002/02/06-01.03-008    Extracted: 02/06/2002 12:38    Analyzed: 02/06/2002 12:38  
 LCSD: 2002/02/06-01.03-009    Extracted: 02/06/2002 13:09    Analyzed: 02/06/2002 13:09

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline <i>Surrogate(s)</i>	0.443	0.458	0.500	0.500	88.6	91.6	3.3	75-125	35		
4-Bromofluorobenzene	416	416	500	500	83.2	83.2		58-124			

Gas/BTEX Compounds by 8015M/8021

**Batch QC report**

Test Method: 8021B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/07-01.03**  
 LCS: 2002/02/07-01.03-004    Extracted: 02/07/2002 09:06    Analyzed: 02/07/2002 09:06  
 LCSD: 2002/02/07-01.03-005    Extracted: 02/07/2002 09:37    Analyzed: 02/07/2002 09:37

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.108	0.101	0.1000	0.1000	108.0	101.0	6.7	77-123	35		
Toluene	0.108	0.101	0.1000	0.1000	108.0	101.0	6.7	78-122	35		
Ethyl benzene	0.108	0.101	0.1000	0.1000	108.0	101.0	6.7	70-130	35		
Xylene(s)	0.316	0.299	0.300	0.300	105.3	99.7	5.5	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	572	537	500	500	114.4	107.4		53-125			

Gas/BTEX Compounds by 8015M/8021

**Batch QC report**

Test Method: 8015M

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/02/07-01.03**  
 LCS: 2002/02/07-01.03-006 Extracted: 02/07/2002 10:07 Analyzed: 02/07/2002 10:07  
 LCSD: 2002/02/07-01.03-007 Extracted: 02/07/2002 10:38 Analyzed: 02/07/2002 10:38

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline <b>Surrogate(s)</b>	0.476	0.448	0.500	0.500	95.2	89.6	6.1	75-125	35		
4-Bromofluorobenzene	471	442	500	500	94.2	88.4		58-124			

Gas/BTEX Compounds by 8015M/8021

**Legend & Notes**

Test Method: 8021B  
8015M

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Analyte Flags**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard

**Analyte Flags**

sh

Surrogate recovery was higher than QC limit due to matrix interference.



Total Lead

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 1279 65th St. & 1269 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-24B	Soil	02/05/2002 16:00	1
SSC-30	Soil	02/05/2002 16:00	2

Total Lead

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-24B</b>	Lab Sample ID: 2002-02-0080-001
Project: 1424-4B 1279 65th St. & 1269 66th St.	Received: 02/06/2002 12:10
	Extracted: 02/06/2002 17:07
Sampled: 02/05/2002 16:00	QC-Batch: 2002/02/06-04.15
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	12	1.0	mg/Kg	1.00	02/07/2002 07:25	

Total Lead

**Lowney & Associates Oakland**  
Attn: Mark Arniola

Test Method: 6010B  
Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-30</b>	Lab Sample ID: 2002-02-0080-002
Project: 1424-4B 1279 65th St. & 1269 66th St.	Received: 02/06/2002 12:10
Sampled: 02/05/2002 16:00	Extracted: 02/06/2002 17:07
Matrix: Soil	QC-Batch: 2002/02/06-04.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	14	1.0	mg/Kg	1.00	02/07/2002 07:36	

Submission #: 2002-02-0080



Total Lead

Batch QC report

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/02/06-04.15</b>
MB: 2002/02/06-04.15-011		Date Extracted: 02/06/2002 17:07

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	02/07/2002 07:09	

Total Lead  
Batch QC report

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/02/06-04.15**  
 LCS: 2002/02/06-04.15-012 Extracted: 02/06/2002 17:07 Analyzed: 02/07/2002 07:14  
 LCSD: 2002/02/06-04.15-013 Extracted: 02/06/2002 17:07 Analyzed: 02/07/2002 07:17

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Lead	94.7	93.6	100.0	100.0	94.7	93.6	1.2	80-120	20		

Total Lead

**Batch QC Report**

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Matrix Spike ( MS / MSD )	Soil	QC Batch # 2002/02/06-04.15
Sample ID: <b>SSC-24B &gt;&gt; MS</b>		Lab ID: 2002-02-0080-001
MS: 2002/02/06-04.15-016	Extracted: 02/06/2002 17:07	Analyzed: 02/07/2002 07:29
		Dilution: 1
MSD: 2002/02/06-04.15-017	Extracted: 02/06/2002 17:07	Analyzed: 02/07/2002 07:33
		Dilution: 1

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Lead	99.2	94.3	12.2	100	100	87.0	82.1	5.8	80-120	20		

TEPH w/ Silica Gel Clean-up

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 1279 65th St. & 1269 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-24B	Soil	02/05/2002 16:00	1
SSC-30	Soil	02/05/2002 16:00	2



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SSC-24B</b>	Lab Sample ID: 2002-02-0080-001
Project: 1424-4B 1279 65th St. & 1269 66th St.	Received: 02/06/2002 12:10
Sampled: 02/05/2002 16:00	Extracted: 02/06/2002 13:13
Matrix: Soil	QC-Batch: 2002/02/06-04.10

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	02/07/2002 03:54	
Motor Oil	ND	50	mg/Kg	1.00	02/07/2002 03:54	
<i>Surrogate(s)</i>						
o-Terphenyl	79.6	60-130	%	1.00	02/07/2002 03:54	



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SSC-30</b>	Lab Sample ID: 2002-02-0080-002
Project: 1424-4B 1279 65th St. & 1269 66th St.	Received: 02/06/2002 12:10
Sampled: 02/05/2002 16:00	Extracted: 02/06/2002 13:13
Matrix: Soil	QC-Batch: 2002/02/06-04.10

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	02/07/2002 04:42	
Motor Oil	ND	50	mg/Kg	1.00	02/07/2002 04:42	
<b>Surrogate(s)</b>						
o-Terphenyl	95.3	60-130	%	1.00	02/07/2002 04:42	



TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3550/8015  
M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/02/06-04.10</b>
MB: 2002/02/06-04.10-001		Date Extracted: 02/06/2002 13:13

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	02/07/2002 05:20	
Motor Oil	ND	50	mg/Kg	02/07/2002 05:20	
<b>Surrogate(s)</b>					
o-Terphenyl	81.5	60-130	%	02/07/2002 05:20	

TEPH w/ Silica Gel Clean-up

**Batch QC report**

Test Method: 8015M

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/06-04.10**  
 LCS: 2002/02/06-04.10-002 Extracted: 02/06/2002 13:13 Analyzed: 02/07/2002 03:54  
 LCSD: 2002/02/06-04.10-003 Extracted: 02/06/2002 13:13 Analyzed: 02/07/2002 04:42

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrf.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel <i>Surrogate(s)</i>	37.8	36.3	41.7	41.7	90.6	87.1	3.9	60-130	25		
o-Terphenyl	20.5	20.1	20.0	20.0	102.6	100.5		60-130	0		

**CHAIN OF CUSTODY RECORD**

**2002-02-0080**

Project Name:  
1274 65th St ; 1269 66th St

Job No.:  
1424-4B

Report To:  
Mark Annala

Sampler (print):  
Veronica Tigbao

Sampler (signature):  
*[Signature]*

QC Requirement:  Level A (standard)

**Turnaround Requirements**

5 Working Days

48 Hours

24 Hours

2-3 Hours RUSH

\_\_\_\_\_

**ANALYSES REQUESTED** 64521

Sample I.D.	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	TPH as gas/BTEX/MIBE (8015/8020)	TPH as diesel (8015M) (water or silica gel column)	TRPH (418.1) silica gel column	Halogenated VOCs (8010)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M (Purgeable and Extractable)	LEAD (6010)	Remarks
SSC-24B	02/05/02	16:00		Soil	1	X	X		X							X	
SSC-30	02/05/02	16:00		Soil	1	X	X		X							X	
<b>RUSH</b>																	

Relinquished By: <i>[Signature]</i>	Date: 02/06/02	Time: 11:30	Received By: <i>[Signature]</i>	Date: 2/6/02	Time: 11:30	PM Initial:
Relinquished By: <i>[Signature]</i>	Date: 2/6/02	Time: 12:07	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Lab of Record:			
			Received by Lab: <i>C. Rowley</i>	Date: 02/06/02	Time: 12:10	Temp: 3.0°C

**Lowney & Associates Oakland**

167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-4B  
1294 65th St. & 1269 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mr. Arniola,

Attached is our report for your samples received on Wednesday February 6, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
March 23, 2002 unless you have requested otherwise.

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

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

Sincerely,



Vincent Vancil  
Project Manager



Total Lead

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 1294 65th St. & 1269 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-31	Soil	02/06/2002 16:00	1

Total Lead

**Lowney & Associates Oakland**

Test Method: 6010B

Attn: Mark Arniola

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SSC-31</b>	Lab Sample ID: 2002-02-0099-001
Project: 1424-4B 1294 65th St. & 1269 66th St.	Received: 02/06/2002 18:50
Sampled: 02/06/2002 16:00	Extracted: 02/06/2002 17:07
Matrix: Soil	QC-Batch: 2002/02/06-04.15

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	76	1.0	mg/Kg	1.00	02/07/2002 09:12	





Total Lead  
Batch QC report

Test Method: 6010B

Prep Method: 3050B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/02/06-04.15**  
 LCS: 2002/02/06-04.15-012 Extracted: 02/06/2002 17:07 Analyzed: 02/07/2002 07:14  
 LCSD: 2002/02/06-04.15-013 Extracted: 02/06/2002 17:07 Analyzed: 02/07/2002 07:17

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Lead	94.7	93.6	100.0	100.0	94.7	93.6	1.2	80-120	20		

**CHAIN OF CUSTODY RECORD**

2002-02-0099

Project Name: 1274 65th St; 1269 66th St			<b>Turnaround Requirements</b> <input type="checkbox"/> 5 Working Days <input type="checkbox"/> 48 Hours <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 2-3 Hours RUSH <input type="checkbox"/> _____			<b>ANALYSES REQUESTED</b> 64544											
Job No.: 1424-4B						TPH as gas/BTEX/MTBE (8015/8020)	TPH as diesel (8015M) silica gel column	TRPH (418.1) silica gel column	Halogenated VOCs (8010) (8021 or 8260)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M (Purgeable and Extractable)	LEAD (6010)	Remarks
Report To: Mark Amida																	
Sampler (print): Veronica Tigrao																	
Sampler (signature): 																	
QC Requirement: <input checked="" type="checkbox"/> Level A (standard)			Sample I.D.	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.									
			SSC-31	02/06/02	16:00		Soil	1									
Relinquished By:			Date: 2-6-02	Time: 17:35	Received By: JM 5209			Date: 2/6/02	Time: 17:35	PM Initial:							
Relinquished By: JM 5209			Date: 2-6-02	Time: 18:50	Received By:			Date:	Time:								
Relinquished By:			Date:	Time:	Lab of Record: STL-SF			Temp:									
						Received by Lab: Denise			Date: 2/6/02	Time: 18:50	9.8°C						

**RUSH**

Harmon

Submission #: 2002-02-0174

Date: February 15, 2002



**Lowney & Associates Oakland**  
167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-4B  
65 th and 66 th Street

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mr. Arniola,

Attached is our report for your samples received on Monday February 11, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
March 28, 2002 unless you have requested otherwise.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "V. Vancil", with a large, sweeping flourish extending to the right.

Vincent Vancil  
Project Manager

**RECEIVED**  
FEB 21 2002  
LOWNEY, CA

Submission #: 2002-02-0174

Gas/BTEX Compounds by 8015M/8021



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	<input checked="" type="checkbox"/> 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 65 th and 66 th Street

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB-6	Water	02/11/2002	1
EB-10	Water	02/11/2002	6
EB-11	Water	02/11/2002	8
EB-12@7-7 1/2'	Soil	02/11/2002	10

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Test Method: 8015M  
8021B

Attn: Mark Arniola

Prep Method: 5030  
5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>EB-6</b>	Lab Sample ID: 2002-02-0174-001
Project: 1424-4B 65 th and 66 th Street	Received: 02/11/2002 13:33
Sampled: 02/11/2002	Extracted: 02/12/2002 11:33
Matrix: Water	QC-Batch: 2002/02/12-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	510	50	ug/L	1.00	02/12/2002 11:33	
Benzene	18	0.50	ug/L	1.00	02/12/2002 11:33	
Toluene	3.1	0.50	ug/L	1.00	02/12/2002 11:33	
Ethyl benzene	14	0.50	ug/L	1.00	02/12/2002 11:33	
Xylene(s)	13	0.50	ug/L	1.00	02/12/2002 11:33	
MTBE	ND	5.0	ug/L	1.00	02/12/2002 11:33	
<b>Surrogate(s)</b>						
Trifluorotoluene	114.1	58-124	%	5.00	02/12/2002 11:33	
4-Bromofluorobenzene-FID	87.0	50-150	%	5.00	02/12/2002 11:33	

Submission #: 2002-02-0174



Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Test Method: 8015M  
8021B

Attn: Mark Amiola

Prep Method: 5030  
5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>EB-10</b>	Lab Sample ID: 2002-02-0174-006
Project: 1424-4B 65 th and 66 th Street	Received: 02/11/2002 13:33
Sampled: 02/11/2002	Extracted: 02/12/2002 12:02
Matrix: Water	QC-Batch: 2002/02/12-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	90	50	ug/L	1.00	02/12/2002 12:02	
Benzene	ND	0.50	ug/L	1.00	02/12/2002 12:02	
Toluene	1.5	0.50	ug/L	1.00	02/12/2002 12:02	
Ethyl benzene	1.3	0.50	ug/L	1.00	02/12/2002 12:02	
Xylene(s)	2.8	0.50	ug/L	1.00	02/12/2002 12:02	
MTBE	ND	5.0	ug/L	1.00	02/12/2002 12:02	
<b>Surrogate(s)</b>						
Trifluorotoluene	105.4	58-124	%	1.00	02/12/2002 12:02	
4-Bromofluorobenzene-FID	75.4	50-150	%	1.00	02/12/2002 12:02	

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Test Method: 8015M  
8021B

Attn: Mark Arniola

Prep Method: 5030  
5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: EB-11	Lab Sample ID: 2002-02-0174-008
Project: 1424-4B 65 th and 66 th Street	Received: 02/11/2002 13:33
Sampled: 02/11/2002	Extracted: 02/13/2002 01:39
Matrix: Water	QC-Batch: 2002/02/12-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1100	250	ug/L	5.00	02/13/2002 01:39	g
Benzene	ND	2.5	ug/L	5.00	02/13/2002 01:39	
Toluene	ND	2.5	ug/L	5.00	02/13/2002 01:39	
Ethyl benzene	ND	2.5	ug/L	5.00	02/13/2002 01:39	
Xylene(s)	ND	2.5	ug/L	5.00	02/13/2002 01:39	
MTBE	ND	25	ug/L	5.00	02/13/2002 01:39	
<b>Surrogate(s)</b>						
Trifluorotoluene	69.5	58-124	%	50.00	02/13/2002 01:39	
4-Bromofluorobenzene-FID	75.6	50-150	%	50.00	02/13/2002 01:39	

Submission #: 2002-02-0174



Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Test Method: 8015M  
8021B

Attn: Mark Arniola

Prep Method: 5030  
5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: EB-12@7-7 1/2'	Lab Sample ID: 2002-02-0174-010
Project: 1424-4B 65 th and 66 th Street	Received: 02/11/2002 13:33
Sampled: 02/11/2002	Extracted: 02/13/2002 21:44
Matrix: Soil	QC-Batch: 2002/02/13-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1.0	1.0	mg/Kg	1.00	02/13/2002 21:44	g
Benzene	ND	0.0050	mg/Kg	1.00	02/13/2002 21:44	
Toluene	ND	0.0050	mg/Kg	1.00	02/13/2002 21:44	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	02/13/2002 21:44	
Xylene(s)	ND	0.0050	mg/Kg	1.00	02/13/2002 21:44	
MTBE	ND	0.0050	mg/Kg	1.00	02/13/2002 21:44	
<b>Surrogate(s)</b>						
Trifluorotoluene	114.2	53-125	%	1.00	02/13/2002 21:44	
4-Bromofluorobenzene-FID	103.4	58-124	%	1.00	02/13/2002 21:44	



Gas/BTEX Compounds by 8015M/8021

**Batch QC report**

Test Method: 8015M  
8021B

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2002/02/12-01.01</b>
MB: 2002/02/12-01.01-008		Date Extracted: 02/12/2002 10:27

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	02/12/2002 10:27	
Benzene	ND	0.5	ug/L	02/12/2002 10:27	
Toluene	ND	0.5	ug/L	02/12/2002 10:27	
Ethyl benzene	ND	0.5	ug/L	02/12/2002 10:27	
Xylene(s)	ND	0.5	ug/L	02/12/2002 10:27	
MTBE	ND	5.0	ug/L	02/12/2002 10:27	
<b>Surrogate(s)</b>					
Trifluorotoluene	92.9	58-124	%	02/12/2002 10:27	
4-Bromofluorobenzene-FID	77.3	50-150	%	02/12/2002 10:27	



Submission #: 2002-02-0174



Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/02/12-01.01  
LCS: 2002/02/12-01.01-006 Extracted: 02/12/2002 09:25 Analyzed: 02/12/2002 09:25  
LCSD: 2002/02/12-01.01-007 Extracted: 02/12/2002 09:55 Analyzed: 02/12/2002 09:55

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

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	439	426	500	500	87.8	85.2	3.0	75-125	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	343	338	500	500	68.6	67.6		50-150			

Submission #: 2002-02-0174



Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/02/12-01.01**  
 LCS: 2002/02/12-01.01-009 Extracted: 02/12/2002 10:56 Analyzed: 02/12/2002 10:56  
 LCSD: 2002/02/12-01.01-005 Extracted: 02/12/2002 08:56 Analyzed: 02/12/2002 08:56

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

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	99.5	99.0	100.0	100.0	99.5	99.0	0.5	77-123	20		
Toluene	105	104	100.0	100.0	105.0	104.0	1.0	78-122	20		
Ethyl benzene	103	103	100.0	100.0	103.0	103.0	0.0	70-130	20		
Xylene(s)	311	307	300	300	103.7	102.3	1.4	75-125	20		
<b>Surrogate(s)</b>											
Trifluorotoluene	499	497	500	500	99.8	99.4		58-124			

Gas/BTEX Compounds by 8015M/8021

**Batch QC report**

Test Method: 8021B

Prep Method: 5035

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

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/02/13-01.03**  
 LCS: 2002/02/13-01.03-004 Extracted: 02/13/2002 09:59 Analyzed: 02/13/2002 09:59  
 LCSD: 2002/02/13-01.03-005 Extracted: 02/13/2002 10:30 Analyzed: 02/13/2002 10:30

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]			Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD	
Benzene	0.0943	0.0883	0.1000	0.1000	94.3	88.3	6.6	77-123	35			
Toluene	0.0933	0.0871	0.1000	0.1000	93.3	87.1	6.9	78-122	35			
Ethyl benzene	0.0916	0.0865	0.1000	0.1000	91.6	86.5	5.7	70-130	35			
Xylene(s)	0.275	0.260	0.300	0.300	91.7	86.7	5.6	75-125	35			
<b>Surrogate(s)</b>												
Trifluorotoluene	485	446	500	500	97.0	89.2		53-125				

Submission #: 2002-02-0174



Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Laboratory Control Spike (LCS/LCSD)</b>	<b>Soil</b>	<b>QC Batch # 2002/02/13-01.03</b>
LCS: 2002/02/13-01.03-006	Extracted: 02/13/2002 11:00	Analyzed: 02/13/2002 11:00
LCSD: 2002/02/13-01.03-007	Extracted: 02/13/2002 11:31	Analyzed: 02/13/2002 11:31

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Gasoline	0.470	0.466	0.500	0.500	94.0	93.2	0.9	75-125	35		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	433	454	500	500	86.6	90.8		58-124			

Submission #: 2002-02-0174



Gas/BTEX Compounds by 8015M/8021

**Legend & Notes**

Test Method: 8015M  
8021B

Prep Method: 5030  
5035

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)  
[www.chromalab.com](http://www.chromalab.com)

CA DHS ELAP#1094

**Analyte Flags**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard

Submission #: 2002-02-0174

TEPH w/ Silica Gel Clean-up



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 65 th and 66 th Street

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB-6	Water	02/11/2002	1
EB-8@10-10 1/2'	Soil	02/11/2002	3
EB-10	Water	02/11/2002	6
EB-11	Water	02/11/2002	8
EB-12@7-7 1/2'	Soil	02/11/2002	10



Submission #: 2002-02-0174



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M

Prep Method: 3510/8015M  
3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>EB-6</b>	Lab Sample ID: 2002-02-0174-001
Project: 1424-4B 65 th and 66 th Street	Received: 02/11/2002 13:33
Sampled: 02/11/2002	Extracted: 02/11/2002 17:12
Matrix: Water	QC-Batch: 2002/02/11-05.10
Sample/Analysis Flag: rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	240	63	ug/L	1.25	02/12/2002 11:07	ndp
Motor Oil	ND	630	ug/L	1.25	02/12/2002 11:07	
<b>Surrogate(s)</b>						
o-Terphenyl	106.4	60-130	%	1.25	02/12/2002 11:07	

Submission #: 2002-02-0174



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland  
Attn: Mark Arniola

Test Method: 8015M  
Prep Method: 3510/8015M  
3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: EB-3@10-10 1/2`	Lab Sample ID: 2002-02-0174-003
Project: 1424-4B 65 th and 66 th Street	Received: 02/11/2002 13:33
Sampled: 02/11/2002	Extracted: 02/11/2002 09:15
Matrix: Soil	QC-Batch: 2002/02/11-01.10

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	63	1.0	mg/Kg	1.00	02/12/2002 11:19	ndp
Motor Oil	ND	50	mg/Kg	1.00	02/12/2002 11:19	
<i>Surrogate(s)</i>						
o-Terphenyl	84.9	60-130	%	1.00	02/12/2002 11:19	

Submission #: 2002-02-0174



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland  
Attn: Mark Arniola

Test Method: 8015M  
Prep Method: 3510/8015M  
3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>EB-10</b>	Lab Sample ID: 2002-02-0174-006
Project: 1424-4B 65 th and 66 th Street	Received: 02/11/2002 13:33
Sampled: 02/11/2002	Extracted: 02/11/2002 17:12
Matrix: Water	QC-Batch: 2002/02/11-05.10
Sample/Analysis Flag: rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	110	ug/L	2.17	02/12/2002 11:46	
Motor Oil	ND	1100	ug/L	2.17	02/12/2002 11:46	
<b>Surrogate(s)</b>						
o-Terphenyl	98.8	60-130	%	2.17	02/12/2002 11:46	

Submission #: 2002-02-0174



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M

Prep Method: 3510/8015M  
3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: EB-11	Lab Sample ID: 2002-02-0174-008
Project: 1424-4B 65 th and 66 th Street	Received: 02/11/2002 13:33
Sampled: 02/11/2002	Extracted: 02/11/2002 17:12
Matrix: Water	QC-Batch: 2002/02/11-05.10
Sample/Analysis Flag: rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	220	ug/L	4.35	02/12/2002 11:19	
Motor Oil	ND	2200	ug/L	4.35	02/12/2002 11:19	
<b>Surrogate(s)</b>						
o-Terphenyl	103.1	60-130	%	4.35	02/12/2002 11:19	

Submission #: 2002-02-0174



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland  
Attn: Mark Arniola

Test Method: 8015M  
Prep Method: 3510/8015M  
3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: EB-12@7-7 1/2'	Lab Sample ID: 2002-02-0174-010
Project: 1424-4B 65 th and 66 th Street	Received: 02/11/2002 13:33
Sampled: 02/11/2002	Extracted: 02/11/2002 09:15
Matrix: Soil	QC-Batch: 2002/02/11-01.10

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	02/12/2002 13:54	
Motor Oil	ND	50	mg/Kg	1.00	02/12/2002 13:54	
<b>Surrogate(s)</b>						
o-Terphenyl	92.2	60-130	%	1.00	02/12/2002 13:54	





Submission #: 2002-02-0174



TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/02/11-01.10  
LCS: 2002/02/11-01.10-002 Extracted: 02/11/2002 09:15 Analyzed: 02/12/2002 13:33  
LCSD: 2002/02/11-01.10-003 Extracted: 02/11/2002 09:15 Analyzed: 02/12/2002 14:11

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD [%]	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recover	RPD	LCS	LCSD
Diesel	31.5	32.6	41.5	41.4	75.9	78.7	3.6	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	18.2	18.6	20.0	20.0	91.0	93.2		60-130	0		



Submission #: 2002-02-0174



TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/02/11-05.10  
LCS: 2002/02/11-05.10-004    Extracted: 02/11/2002 17:12    Analyzed: 02/13/2002 10:40  
LCSD: 2002/02/11-05.10-005    Extracted: 02/11/2002 17:12    Analyzed: 02/13/2002 11:20

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	763	882	1250	1250	61.0	70.6	14.6	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	19.1	20.0	20.0	20.0	95.4	100.0		60-130	0		

Submission #: 2002-02-0174



TEPH w/ Silica Gel Clean-up

**Legend & Notes**

Test Method: 8015M

Prep Method: 3510/8015M  
3550/8015M

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)  
[www.chromalab.com](http://www.chromalab.com)

CA DHS ELAP#1094

**Analysis Flags**

rl

Reporting limits raised due to reduced sample size.

**Analyte Flags**

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Submission #: 2002-02-0174



Gas/BTEX Compounds (High Level)

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 65 th and 66 th Street

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB-8@10-10 1/2`	Soil	02/11/2002	3

Submission #: 2002-02-0174



Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Test Method: 8021B  
8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Attn: Mark Arniola

Prep Method: 5030

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

CA DHS ELAP#1094

Sample ID: <b>EB-8@10-10 1/2</b>	Lab Sample ID: 2002-02-0174-003
Project: 1424-4B 65 th and 66 th Street	Received: 02/11/2002 13:33
Sampled: 02/11/2002	Extracted: 02/12/2002 13:19
Matrix: Soil	QC-Batch: 2002/02/12-05.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	620	50	mg/Kg	5.00	02/13/2002 13:19	g
Benzene	ND	3.1	mg/Kg	5.00	02/13/2002 13:19	
Toluene	ND	3.1	mg/Kg	5.00	02/13/2002 13:19	
Ethyl benzene	ND	3.1	mg/Kg	5.00	02/13/2002 13:19	
Xylene(s)	ND	3.1	mg/Kg	5.00	02/13/2002 13:19	
MTBE	ND	3.1	mg/Kg	5.00	02/13/2002 13:19	
<b>Surrogate(s)</b>						
Trifluorotoluene	NA	53-125	%	1.00	02/13/2002 13:19	sd
4-Bromofluorobenzene-FID	NA	58-124	%	1.00	02/13/2002 13:19	sd

Gas/BTEX Compounds (High Level)

Batch QC report

Test Method: 8015M  
8021B

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/02/12-05.02</b>
MB: 2002/02/12-05.02-001		Date Extracted: 02/12/2002 11:38

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	10	mg/Kg	02/13/2002 11:38	
Benzene	ND	0.62	mg/Kg	02/13/2002 11:38	
Toluene	ND	0.62	mg/Kg	02/13/2002 11:38	
Ethyl benzene	ND	0.62	mg/Kg	02/13/2002 11:38	
Xylene(s)	ND	0.62	mg/Kg	02/13/2002 11:38	
MTBE	ND	0.62	mg/Kg	02/13/2002 11:38	
<b>Surrogate(s)</b>					
Trifluorotoluene	84.2	53-125	%	02/13/2002 11:38	
4-Bromofluorobenzene-FID	111.0	58-124	%	02/13/2002 11:38	

Submission #: 2002-02-0174



Gas/BTEX Compounds (High Level)

Batch QC report

Test Method: 8015M  
8021B

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/12-05.02**  
 LCS: 2002/02/12-05.02-002    Extracted: 02/12/2002 09:21    Analyzed: 02/13/2002 09:21  
 LCSD: 2002/02/12-05.02-003    Extracted: 02/12/2002 09:51    Analyzed: 02/13/2002 09:51

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD [%]	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recover	RPD	LCS	LCSD
Gasoline	0.643	0.676	0.625	0.625	102.9	108.2	5.0	75-125	35		
Benzene	0.129	0.128	0.125	0.125	103.2	102.4	0.8	77-123	35		
Toluene	0.142	0.139	0.125	0.125	113.6	111.2	2.1	78-122	35		
Ethyl benzene	0.143	0.140	0.125	0.125	114.4	112.0	2.1	70-130	35		
Xylene(s)	0.449	0.427	0.375	0.375	119.7	113.9	5.0	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	95.4	95.5	100	100	95.4	95.5		53-125	0		
4-Bromofluorobenzene	86.6	89.7	100	100	86.6	89.7		58-124	0		

Submission #: 2002-02-0174



Gas/BTEX Compounds (High Level)

**Legend & Notes**

Test Method: 8015M  
8021B

Prep Method: 5030

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)  
[www.chromalab.com](http://www.chromalab.com)

CA DHS ELAP#1094

**Analyte Flags**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard

**Analyte Flags**

sd

Surrogate recovery not reportable due to required dilution.

**CHAIN OF CUSTODY RECORD**

2002-02-0174

Project Name: 65th & 66th Street  
Job No.: 1124-4B  
Report To: Mark Arniola  
Sampler (print): Veronica Tigloa; Charles Mettler  
Sampler (signature): *[Signature]*  
QC Requirement:  Level A (standard)

**Turnaround Requirements**

- 5 Working Days
- 48 Hours
- 24 Hours
- 2-3 Hours RUSH
- \_\_\_\_\_

**ANALYSES REQUESTED**

64612

Sample I.D.	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	TPH as gas/BTEX/MTBE (8015/8020)	TPH as diesel (8015M); motor oil silica gel column	TRPH (418.1) silica gel column	Halogenated VOCs (8010) (8021 or 8260)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M (Purgeable and Extractable)	Remarks
EB-6	02/11/02			Water	8	X	X									
EB-7 @ 24-24 1/2'				Soil	1	X	X									Hold *
EB-8 @ 10-10 1/2'				↓	↓	X	X									HOLD
EB-8 @ 20-20 1/2'				↓	↓	X	X									Hold *
EB-9 @ 22 1/2-23'				↓	↓	X	X									
EB-10				Water	8	X	X									
EB-11 @ 11 1/2-20'				Soil	1	X	X									Hold *
EB-11				Water	8	X	X									
EB-12 @ 20-20 1/2'				Soil	1	X	X									HOLD
EB-12 @ 7-7 1/2'				Soil	1	X	X									

**RUSH**

Relinquished By: <i>[Signature]</i>	Date: 2/11/02	Time: 1238	Received By: <i>[Signature]</i>	Date: 2/11/02	Time: 1238	PM Initial:
Relinquished By: <i>[Signature]</i>	Date: 2/11/02	Time: 1333	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Lab of Record: STL-SF	Received by Lab: Demie	Date: 2/11/02	Time: 1333
						Temp: 4.9°C

*Harrington*



Submission #: 2002-02-0179

Date: February 15, 2002

**SEVERN  
TRENT  
SERVICES**

**Lowney & Associates Oakland**

167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-4B  
65th to 66th Street

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mr. Arniola,

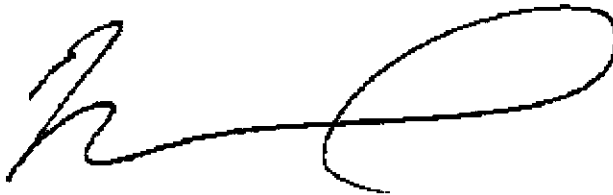
Attached is our report for your samples received on Monday February 11, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
March 28, 2002 unless you have requested otherwise.

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

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

Sincerely,



Vincent Vancil  
Project Manager

**RECEIVED**

FEB 21 2002

LOWNEY, OK

Submission #: 2002-02-0179

Gas/BTEX Compounds by 8015M/8021



<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 65th to 66th Street

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

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB-15	Water	02/11/2002	13

Submission #: 2002-02-0179



Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Test Method: 8021B  
8015M

Attn: Mark Arniola

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>EB-15</b>	Lab Sample ID: 2002-02-0179-013
Project: 1424-4B 65th to 66th Street	Received: 02/11/2002 17:10
Sampled: 02/11/2002	Extracted: 02/12/2002 14:19
Matrix: Water	QC-Batch: 2002/02/12-01.01

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	3600	250	ug/L	5.00	02/12/2002 14:19	
Benzene	140	2.5	ug/L	5.00	02/12/2002 14:19	
Toluene	75	2.5	ug/L	5.00	02/12/2002 14:19	
Ethyl benzene	150	2.5	ug/L	5.00	02/12/2002 14:19	
Xylene(s)	450	2.5	ug/L	5.00	02/12/2002 14:19	
MTBE	ND	25	ug/L	5.00	02/12/2002 14:19	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	104.3	50-150	%	5.00	02/12/2002 14:19	
4-Bromofluorobenzene-FID	80.1	50-150	%	5.00	02/12/2002 14:19	



Submission #: 2002-02-0179



Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/02/12-01.01  
LCS: 2002/02/12-01.01-006    Extracted: 02/12/2002 09:25    Analyzed: 02/12/2002 09:25  
LCSD: 2002/02/12-01.01-007    Extracted: 02/12/2002 09:55    Analyzed: 02/12/2002 09:55

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	439	426	500	500	87.8	85.2	3.0	75-125	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	343	338	500	500	68.6	67.6		50-150			

Gas/BTEX Compounds by 8015M/8021

**Batch QC report**

Test Method: 8021B

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/02/12-01.01**  
 LCS: 2002/02/12-01.01-009 Extracted: 02/12/2002 10:56 Analyzed: 02/12/2002 10:56  
 LCSD: 2002/02/12-01.01-005 Extracted: 02/12/2002 08:56 Analyzed: 02/12/2002 08:56

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

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrf.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	99.5	99.0	100.0	100.0	99.5	99.0	0.5	77-123	20		
Toluene	105	104	100.0	100.0	105.0	104.0	1.0	78-122	20		
Ethyl benzene	103	103	100.0	100.0	103.0	103.0	0.0	70-130	20		
Xylene(s)	311	307	300	300	103.7	102.3	1.4	75-125	20		
<b>Surrogate(s)</b>											
Trifluorotoluene	499	497	500	500	99.8	99.4		58-124			

Submission #: 2002-02-0179

Gas/BTEX Compounds (High Level)



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	<input checked="" type="checkbox"/> 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 65th to 66th Street

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB-14 @ 10-10.5	Soil	02/11/2002	1
EB-15 @ 10-10.5	Soil	02/11/2002	3
EB-13 @ 10-10.5	Soil	02/11/2002	4
EB-16 @ 7-7.5	Soil	02/11/2002	6
EB-17 @ 9.5-10	Soil	02/11/2002	9
EB-9 @ 8.5-9	Soil	02/11/2002	11
EB-7 @ 8.5-9	Soil	02/11/2002	12



Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Test Method: 8021B  
8015M

Attn: Mark Arniola

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>EB-14 @ 10-10.5</b>	Lab Sample ID: 2002-02-0179-001
Project: 1424-4B 65th to 66th Street	Received: 02/11/2002 17:10
Sampled: 02/11/2002	Extracted: 02/12/2002 12:15
Matrix: Soil	QC-Batch: 2002/02/12-05.02

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	94	10	mg/Kg	1.00	02/12/2002 12:15	g
Benzene	ND	0.62	mg/Kg	1.00	02/12/2002 12:15	
Toluene	ND	0.62	mg/Kg	1.00	02/12/2002 12:15	
Ethyl benzene	ND	0.62	mg/Kg	1.00	02/12/2002 12:15	
Xylene(s)	ND	0.62	mg/Kg	1.00	02/12/2002 12:15	
MTBE	ND	0.62	mg/Kg	1.00	02/12/2002 12:15	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	104.4	58-124	%	1.00	02/12/2002 12:15	
4-Bromofluorobenzene-FID	142.0	58-124	%	1.00	02/12/2002 12:15	sh



Submission #: 2002-02-0179



Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Test Method: 8021B  
8015M

Attn: Mark Arniola

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>EB-15 @ 10-10.5</b>	Lab Sample ID: 2002-02-0179-003
Project: 1424-4B 65th to 66th Street	Received: 02/11/2002 17:10
Sampled: 02/11/2002	Extracted: 02/12/2002 21:20
Matrix: Soil	QC-Batch: 2002/02/12-05.02

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

Compound	Result	Rep. Limit	Units	Dilution	Analyzed	Flag
Gasoline	980	50	mg/Kg	5.00	02/14/2002 13:27	g
Benzene	ND	3.1	mg/Kg	5.00	02/14/2002 13:27	
Toluene	ND	3.1	mg/Kg	5.00	02/14/2002 13:27	
Ethyl benzene	11	3.1	mg/Kg	5.00	02/14/2002 13:27	
Xylene(s)	ND	3.1	mg/Kg	5.00	02/14/2002 13:27	
MTBE	ND	3.1	mg/Kg	5.00	02/14/2002 13:27	
<b>Surrogate(s)</b>						
Trifluorotoluene	NA	53-125	%	1.00	02/14/2002 13:27	sd
4-Bromofluorobenzene-FID	NA	58-124	%	1.00	02/14/2002 13:27	sd

Submission #: 2002-02-0179



Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Test Method: 8021B  
8015M

Attn: Mark Arniola

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: EB-13 @ 10-10.5  
Project: 1424-4B  
65th to 66th Street  
Sampled: 02/11/2002  
Matrix: Soil

Lab Sample ID: 2002-02-0179-004  
Received: 02/11/2002 17:10  
Extracted: 02/12/2002 19:48  
QC-Batch: 2002/02/12-05.02

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1700	100	mg/Kg	10.00	02/14/2002 13:58	g
Benzene	ND	6.2	mg/Kg	10.00	02/14/2002 13:58	
Toluene	ND	6.2	mg/Kg	10.00	02/14/2002 13:58	
Ethyl benzene	ND	6.2	mg/Kg	10.00	02/14/2002 13:58	
Xylene(s)	ND	6.2	mg/Kg	10.00	02/14/2002 13:58	
MTBE	ND	6.2	mg/Kg	10.00	02/14/2002 13:58	
<b>Surrogate(s)</b>						
Trifluorotoluene	NA	53-125	%	1.00	02/14/2002 13:58	sd
4-Bromofluorobenzene-FID	NA	58-124	%	1.00	02/14/2002 13:58	sd

Submission #: 2002-02-0179



Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Test Method: 8021B  
8015M

Attn: Mark Arniola

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: EB-16 @ 7-7.5	Lab Sample ID: 2002-02-0179-006
Project: 1424-4B 65th to 66th Street	Received: 02/11/2002 17:10
Sampled: 02/11/2002	Extracted: 02/12/2002 20:12
Matrix: Soil	QC-Batch: 2002/02/12-05.02

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	670	50	mg/Kg	5.00	02/13/2002 20:12	g
Benzene	ND	3.1	mg/Kg	5.00	02/13/2002 20:12	
Toluene	ND	3.1	mg/Kg	5.00	02/13/2002 20:12	
Ethyl benzene	6.8	3.1	mg/Kg	5.00	02/13/2002 20:12	
Xylene(s)	ND	3.1	mg/Kg	5.00	02/13/2002 20:12	
MTBE	ND	3.1	mg/Kg	5.00	02/13/2002 20:12	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	NA	58-124	%	1.00	02/13/2002 20:12	sd
4-Bromofluorobenzene-FID	NA	58-124	%	1.00	02/13/2002 20:12	sd



Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Test Method: 8021B  
8015M

Attn: Mark Arniola

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>EB-17 @ 9.5-10</b>	Lab Sample ID: 2002-02-0179-009
Project: 1424-4B 65th to 66th Street	Received: 02/11/2002 17:10
Sampled: 02/11/2002	Extracted: 02/12/2002 14:18
Matrix: Soil	QC-Batch: 2002/02/12-05.02

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	92	10	mg/Kg	1.00	02/13/2002 14:18	g
Benzene	ND	0.62	mg/Kg	1.00	02/13/2002 14:18	
Toluene	ND	0.62	mg/Kg	1.00	02/13/2002 14:18	
Ethyl benzene	1.4	0.62	mg/Kg	1.00	02/13/2002 14:18	
Xylene(s)	ND	0.62	mg/Kg	1.00	02/13/2002 14:18	
MTBE	ND	0.62	mg/Kg	1.00	02/13/2002 14:18	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	91.0	58-124	%	1.00	02/13/2002 14:18	
4-Bromofluorobenzene-FID	133.0	58-124	%	1.00	02/13/2002 14:18	sh



Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Test Method: 8021B  
8015M

Attn: Mark Arniola

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>EB-9 @ 8.5-9</b>	Lab Sample ID: 2002-02-0179-011
Project: 1424-4B 65th to 66th Street	Received: 02/11/2002 17:10
Sampled: 02/11/2002	Extracted: 02/12/2002 23:23
Matrix: Soil	QC-Batch: 2002/02/12-05.02

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	620	50	mg/Kg	5.00	02/13/2002 23:23	g
Benzene	ND	3.1	mg/Kg	5.00	02/13/2002 23:23	
Toluene	ND	3.1	mg/Kg	5.00	02/13/2002 23:23	
Ethyl benzene	8.7	3.1	mg/Kg	5.00	02/13/2002 23:23	
Xylene(s)	ND	3.1	mg/Kg	5.00	02/13/2002 23:23	
MTBE	ND	3.1	mg/Kg	5.00	02/13/2002 23:23	
<b>Surrogate(s)</b>						
Trifluorotoluene	NA	53-125	%	1.00	02/13/2002 23:23	sd
4-Bromofluorobenzene-FID	NA	58-124	%	1.00	02/13/2002 23:23	sd

Submission #: 2002-02-0179



Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Test Method: 8021B  
8015M

Attn: Mark Arniola

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: EB-7 @ 8.5-9	Lab Sample ID: 2002-02-0179-012
Project: 1424-4B 65th to 66th Street	Received: 02/11/2002 17:10
Sampled: 02/11/2002	Extracted: 02/12/2002 23:55
Matrix: Soil	QC-Batch: 2002/02/12-05.02

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	220	50	mg/Kg	5.00	02/13/2002 23:55	g
Benzene	ND	3.1	mg/Kg	5.00	02/13/2002 23:55	
Toluene	ND	3.1	mg/Kg	5.00	02/13/2002 23:55	
Ethyl benzene	ND	3.1	mg/Kg	5.00	02/13/2002 23:55	
Xylene(s)	ND	3.1	mg/Kg	5.00	02/13/2002 23:55	
MTBE	ND	3.1	mg/Kg	5.00	02/13/2002 23:55	
<b>Surrogate(s)</b>						
Trifluorotoluene	NA	53-125	%	1.00	02/13/2002 23:55	sd
4-Bromofluorobenzene-FID	NA	58-124	%	1.00	02/13/2002 23:55	sd



Gas/BTEX Compounds (High Level)

Batch QC report

Test Method: 8015M  
8021B

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/12-05.02**  
 LCS: 2002/02/12-05.02-002    Extracted: 02/12/2002 09:21    Analyzed: 02/13/2002 09:21  
 LCSD: 2002/02/12-05.02-003    Extracted: 02/12/2002 09:51    Analyzed: 02/13/2002 09:51

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

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.643	0.676	0.625	0.625	102.9	108.2	5.0	75-125	35		
Benzene	0.129	0.128	0.125	0.125	103.2	102.4	0.8	77-123	35		
Toluene	0.142	0.139	0.125	0.125	113.6	111.2	2.1	78-122	35		
Ethyl benzene	0.143	0.140	0.125	0.125	114.4	112.0	2.1	70-130	35		
Xylene(s)	0.449	0.427	0.375	0.375	119.7	113.9	5.0	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	95.4	95.5	100	100	95.4	95.5		53-125	0		
4-Bromofluorobenzene	86.6	89.7	100	100	86.6	89.7		58-124	0		





Gas/BTEX Compounds (High Level)

Legend & Notes

Test Method: 8021B  
8015M

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Analyte Flags**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard

**Analyte Flags**

sd

Surrogate recovery not reportable due to required dilution.

**Analyte Flags**

sh

Surrogate recovery was higher than QC limit due to matrix interference.

Submission #: 2002-02-0179

TEPH w/ Silica Gel Clean-up



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 65th to 66th Street

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB-15	Water	02/11/2002	13

Submission #: 2002-02-0179



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>EB-15</b>	Lab Sample ID: 2002-02-0179-013
Project: 1424-4B 65th to 66th Street	Received: 02/11/2002 17:10
	Extracted: 02/13/2002 18:12
Sampled: 02/11/2002	QC-Batch: 2002/02/13-06.10
Matrix: Water	
Sample/Analysis Flag: rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	2500	63	ug/L	1.25	02/14/2002 14:26	ndp
Motor Oil	ND	630	ug/L	1.25	02/14/2002 14:26	
<b>Surrogate(s)</b> o-Terphenyl	96.2	60-130	%	1.25	02/14/2002 14:26	



Submission #: 2002-02-0179



TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/02/13-06.10**  
 LCS: 2002/02/13-06.10-001 Extracted: 02/13/2002 18:12 Analyzed: 02/14/2002 12:34  
 LCSD: 2002/02/13-06.10-002 Extracted: 02/13/2002 18:12 Analyzed: 02/14/2002 13:11

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Diesel	1200	1300	1250	1250	96.0	104.0	8.0	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	18.1	19.6	20.0	20.0	90.5	98.2		60-130	0		

Submission #: 2002-02-0179



TEPH w/ Silica Gel Clean-up

**Legend & Notes**

Test Method: 8015M

Prep Method: 3510/8015M

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)  
[www.chromalab.com](http://www.chromalab.com)

CA DHS ELAP#1094

**Analysis Flags**

rl

Reporting limits raised due to reduced sample size.

**Analyte Flags**

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Submission #: 2002-02-0179

TEPH w/ Silica Gel Clean-up



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 65th to 66th Street

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB-14 @ 10-10.5	Soil	02/11/2002	1
EB-15 @ 10-10.5	Soil	02/11/2002	3
EB-13 @ 10-10.5	Soil	02/11/2002	4
EB-16 @ 7-7.5	Soil	02/11/2002	6
EB-17 @ 9.5-10	Soil	02/11/2002	9
EB-9 @ 8.5-9	Soil	02/11/2002	11
EB-7 @ 8.5-9	Soil	02/11/2002	12

Submission #: 2002-02-0179



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland  
Attn: Mark Arniola

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

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: EB-14 @ 10-10.5	Lab Sample ID: 2002-02-0179-001
Project: 1424-4B 65th to 66th Street	Received: 02/11/2002 17:10
Sampled: 02/11/2002	Extracted: 02/12/2002 09:27
Matrix: Soil	QC-Batch: 2002/02/12-05.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	49	1.0	mg/Kg	1.00	02/12/2002 21:07	ndp
Motor Oil	ND	50	mg/Kg	1.00	02/12/2002 21:07	
<b>Surrogate(s)</b>						
o-Terphenyl	98.4	60-130	%	1.00	02/12/2002 21:07	



Submission #: 2002-02-0179



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>EB-15 @ 10-10.5</b>	Lab Sample ID: 2002-02-0179-003
Project: 1424-4B 65th to 66th Street	Received: 02/11/2002 17:10
Sampled: 02/11/2002	Extracted: 02/12/2002 09:27
Matrix: Soil	QC-Batch: 2002/02/12-05.10

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	470	2.0	mg/Kg	2.00	02/13/2002 10:27	ndp
Motor Oil	ND	100	mg/Kg	2.00	02/13/2002 10:27	
<b>Surrogate(s)</b>						
o-Terphenyl	107.6	60-130	%	2.00	02/13/2002 10:27	

Submission #: 2002-02-0179



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: EB-13 @ 10-10.5	Lab Sample ID: 2002-02-0179-004
Project: 1424-4B 65th to 66th Street	Received: 02/11/2002 17:10
Sampled: 02/11/2002	Extracted: 02/12/2002 09:27
Matrix: Soil	QC-Batch: 2002/02/12-05.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	860	5.0	mg/Kg	5.00	02/13/2002 11:05	ndp
Motor Oil	ND	250	mg/Kg	5.00	02/13/2002 11:05	
<b>Surrogate(s)</b>						
o-Terphenyl	NA	60-130	%	5.00	02/13/2002 11:05	sd

Submission #: 2002-02-0179

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M

Prep Method: 3550/8015M



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Sample ID: EB-16 @ 7-7.5	Lab Sample ID: 2002-02-0179-006
Project: 1424-4B 65th to 66th Street	Received: 02/11/2002 17:10
Sampled: 02/11/2002	Extracted: 02/12/2002 09:27
Matrix: Soil	QC-Batch: 2002/02/12-05.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	130	2.0	mg/Kg	2.00	02/13/2002 11:51	ndp
Motor Oil	ND	100	mg/Kg	2.00	02/13/2002 11:51	
<b>Surrogate(s)</b>						
o-Terphenyl	104.3	60-130	%	2.00	02/13/2002 11:51	

Submission #: 2002-02-0179



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Sample ID: <b>EB-17 @ 9.5-10</b>	Lab Sample ID: 2002-02-0179-009
Project: 1424-4B 65th to 66th Street	Received: 02/11/2002 17:10
Sampled: 02/11/2002	Extracted: 02/12/2002 09:27
Matrix: Soil	QC-Batch: 2002/02/12-05.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	950	5.0	mg/Kg	5.00	02/13/2002 12:29	ndp
Motor Oil	ND	250	mg/Kg	5.00	02/13/2002 12:29	
<b>Surrogate(s)</b>						
o-Terphenyl	NA	60-130	%	5.00	02/13/2002 12:29	sd

Submission #: 2002-02-0179

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M

Prep Method: 3550/8015M



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>EB-9 @ 8.5-9</b>	Lab Sample ID: 2002-02-0179-011
Project: 1424-4B 65th to 66th Street	Received: 02/11/2002 17:10
Sampled: 02/11/2002	Extracted: 02/12/2002 09:27
Matrix: Soil	QC-Batch: 2002/02/12-05.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	150	1.0	mg/Kg	1.00	02/13/2002 13:07	ndp
Motor Oil	ND	50	mg/Kg	1.00	02/13/2002 13:07	
<b>Surrogate(s)</b>						
o-Terphenyl	102.9	60-130	%	1.00	02/13/2002 13:07	

Submission #: 2002-02-0179



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: EB-7 @ 8.5-9	Lab Sample ID: 2002-02-0179-012
Project: 1424-4B 65th to 66th Street	Received: 02/11/2002 17:10
Sampled: 02/11/2002	Extracted: 02/12/2002 09:27
Matrix: Soil	QC-Batch: 2002/02/12-05.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	640	5.0	mg/Kg	5.00	02/13/2002 13:45	ndp
Motor Oil	ND	250	mg/Kg	5.00	02/13/2002 13:45	
<b>Surrogate(s)</b>						
o-Terphenyl	NA	60-130	%	5.00	02/13/2002 13:45	sd



TEPH w/ Silica Gel Clean-up

**Batch QC report**

Test Method: 8015M

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/02/12-05.10**  
 LCS: 2002/02/12-05.10-002 Extracted: 02/12/2002 09:27 Analyzed: 02/12/2002 18:16  
 LCSD: 2002/02/12-05.10-003 Extracted: 02/12/2002 09:27 Analyzed: 02/12/2002 18:53

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	29.1	28.5	41.6	41.5	70.0	68.7	1.9	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	19.3	19.7	20.0	20.0	96.3	98.4		60-130	0		



Submission #: 2002-02-0179



TEPH w/ Silica Gel Clean-up

**Legend & Notes**

Test Method: 8015M

Prep Method: 3550/8015M

**Analyte Flags**

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

**Analyte Flags**

sd

Surrogate recovery not reportable due to required dilution.

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)  
[www.chromalab.com](http://www.chromalab.com)

CA DHS ELAP#1094





Submission #: 2002-02-0224

Date: February 14, 2002

**SEVERN  
TRENT  
SERVICES**

**Lowney & Associates Oakland**

167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-4B  
1269 66TH ST & 1274 65TH ST

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mr. Arniola,

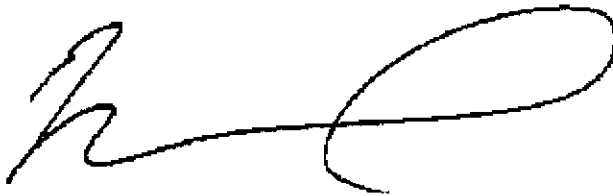
Attached is our report for your samples received on Monday January 28, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
March 14, 2002 unless you have requested otherwise.

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

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

Sincerely,



Vincent Vancil  
Project Manager

**RECEIVED**  
FEB 21 2002  
LOWNEY, OK

Submission #: 2002-02-0224



TCLP Lead

<b>Lowney &amp; Associates Oakland</b>	<input checked="" type="checkbox"/> 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 1269 66TH ST & 1274 65TH ST

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SSC-12	Soil	01/13/2002 10:30	1
SSC-11	Soil	01/13/2002 10:30	2

Submission #: 2002-02-0224

TCLP Lead



Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 6010B

Prep Method: 3010A

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>SSC-12</b>	Lab Sample ID: 2002-02-0224-001
Project: 1424-4B 1269 66TH ST & 1274 65TH ST	Received: 01/28/2002
Sampled: 01/13/2002 10:30	Extracted: 02/14/2002 05:08
Matrix: Soil	QC-Batch: 2002/02/14-04.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	0.83	0.50	mg/L	1.00	02/14/2002 14:50	

Submission #: 2002-02-0224



TCLP Lead

Lowney & Associates Oakland

Test Method: 6010B

Attn: Mark Arniola

Prep Method: 3010A

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>SSC-11</b>	Lab Sample ID: 2002-02-0224-002
Project: 1424-4B 1269 66TH ST & 1274 65TH ST	Received: 01/28/2002
Sampled: 01/13/2002 10:30	Extracted: 02/14/2002 05:08
Matrix: Soil	QC-Batch: 2002/02/14-04.15

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	1.8	0.50	mg/L	1.00	02/14/2002 14:54	





Submission #: 2002-02-0224



TCLP Lead  
Batch QC report

Test Method: 6010B

Prep Method: 3010A

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/14-04.15  
LCS: 2002/02/14-04.15-084    Extracted: 02/14/2002 05:08    Analyzed: 02/14/2002 14:19  
LCSD: 2002/02/14-04.15-085    Extracted: 02/14/2002 05:08    Analyzed: 02/14/2002 14:23

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

CA DHS ELAP#1094

Compound	Conc. [mg/L]		Exp. Conc. [mg/L]		Recovery		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Lead	4.65	4.54	5.00	5.00	93.0	90.8	2.4	80-120	20		



STL ChromaLab

ADD ON/CHANGE ORDER

2002-02-0224

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

Reference No.: 64670

ORIGINAL SUBMISSION INFORMATION

Name of Caller: Mark

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

Client Name: Lorrey - Oak

Add on Due Date: 2-15-02

Project Mgr.: Mark Arnold

Comments: 2 day TAT

Project Name: 1269 Galt St & 1274 65th

Project No.: 1424-4B

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

Date Received: 1-28-02

Submission No.: 2002-020057

ANALYSIS REQUEST

Sample ID	Date	Time	Mat rix	Prev. Spl. #	TPH (EPA 8015, 8020/8021) <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) <input type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other _____	Fuel Oxygenates (8260B): <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Full Oxygenate List <input type="checkbox"/> MTBE <input type="checkbox"/> BTEX	Purgeable Halocarbons (HVOCS) (EPA 8010/8021)	Volatile Organics GC/MS (VOCs) (EPA 8260A/8260B)	Semivolatiles GC/MS (EPA 8270)	Oil & Grease <input type="checkbox"/> Petrol (EPA 1664) <input type="checkbox"/> Total	<input type="checkbox"/> Pesticides (EPA 8081) <input type="checkbox"/> PCBs (EPA 8082)	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM 17 Metals (EPA 8010/7470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other _____	<input type="checkbox"/> W.E.T. (STLC) <u>pb</u> <input checked="" type="checkbox"/> TCLP	<input type="checkbox"/> Hexavalent Chromium <input type="checkbox"/> pH (24 hr. hold time for H <sub>2</sub> O)	<input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub> <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub>	NUMBER OF CONTAINERS	
SSC-12	1/30/02	10:30	S	004																		
SSS-11	↓	10:30	↓	005																		

**RUSH**

Submission #: 2002-02-0344

Date: February 22, 2002



**Lowney & Associates Oakland**

167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-413  
65 th and 66 th Street

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mr. Arniola,

Attached is our report for your samples received on Wednesday February 20, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
April 6, 2002 unless you have requested otherwise.

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

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

Sincerely,

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

Vincent Vancil  
Project Manager

Submission #: 2002-02-0344

Fuel Oxygenates by 8260B (High Level)



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Amiola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-413	Project: 65 th and 66 th Street

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB-20@9.5-10'	Soil	02/20/2002 15:30	10

Fuel Oxygenates by 8260B (High Level)

**Lowney & Associates Oakland**  
Attn: Mark Arniola

Test Method: 8260B  
Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>EB-20@9.5-10`</b>	Lab Sample ID: 2002-02-0344-010
Project: 1424-413 65 th and 66 th Street	Received: 02/20/2002 17:40
Sampled: 02/20/2002 15:30	Extracted: 02/21/2002 14:01
Matrix: Soil	QC-Batch: 2002/02/21-03.27

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	140000	20000	ug/Kg	1.00	02/21/2002 14:01	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	1.00	02/21/2002 14:01	
Benzene	ND	500	ug/Kg	1.00	02/21/2002 14:01	
Toluene	ND	500	ug/Kg	1.00	02/21/2002 14:01	
Ethyl benzene	ND	500	ug/Kg	1.00	02/21/2002 14:01	
Total xylenes	ND	1000	ug/Kg	1.00	02/21/2002 14:01	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	106.7	76-114	%	200.00	02/21/2002 14:01	
Toluene-d8	104.5	88-110	%	200.00	02/21/2002 14:01	



Fuel Oxygenates by 8260B (High Level)

**Batch QC report**

Test Method: 8260B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/21-03.27**  
 LCS: 2002/02/21-03.27-010    Extracted: 02/21/2002 14:42    Analyzed: 02/21/2002 14:42  
 LCSD: 2002/02/21-03.27-011    Extracted: 02/21/2002 15:09    Analyzed: 02/21/2002 15:09

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

CA DHS ELAP#1094

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Methyl tert-butyl ether	9300	10200	10000.0	10000.0	93.0	102.0	9.2	65-165	20		
Benzene	8420	8860	10000	10000	84.2	88.6	5.1	65-165	20		
Toluene	8660	8990	10000	10000	86.6	89.9	3.7	65-165	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	276	281	250	250	110.4	112.4		76-114			
Toluene-d8	258	254	250	250	103.2	101.6		88-110			

Submission #: 2002-02-0344

Fuel Oxygenates by 8260B (High Level)



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-413	Project: 65 th and 66 th Street

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB-20@9.5-10'	Soil	02/20/2002 15:30	10



Fuel Oxygenates by 8260B (High Level)

Lowney & Associates Oakland

Test Method: 8260B

Attn: Mark Arniola

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: EB-20@9.5-10	Lab Sample ID: 2002-02-0344-010
Project: 1424-413 65 th and 66 th Street	Received: 02/20/2002 17:40
Sampled: 02/20/2002 15:30	Extracted: 02/21/2002 14:01
Matrix: Soil	QC-Batch: 2002/02/21-03.27

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
tert-Butyl alcohol (TBA)	ND	5000	ug/Kg	1.00	02/21/2002 14:01	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	1.00	02/21/2002 14:01	
Di-isopropyl Ether (DIPE)	ND	1000	ug/Kg	1.00	02/21/2002 14:01	
Ethyl tert-butyl ether (ETBE)	ND	500	ug/Kg	1.00	02/21/2002 14:01	
tert-Amyl methyl ether (TAME)	ND	500	ug/Kg	1.00	02/21/2002 14:01	
1,2-DCA	ND	500	ug/Kg	1.00	02/21/2002 14:01	
EDB	ND	500	ug/Kg	1.00	02/21/2002 14:01	
Benzene	ND	500	ug/Kg	1.00	02/21/2002 14:01	
Toluene	ND	500	ug/Kg	1.00	02/21/2002 14:01	
Ethyl benzene	ND	500	ug/Kg	1.00	02/21/2002 14:01	
Total xylenes	ND	1000	ug/Kg	1.00	02/21/2002 14:01	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	106.7	76-114	%	200.00	02/21/2002 14:01	
Toluene-d8	104.5	88-110	%	200.00	02/21/2002 14:01	
Gasoline	140000	20000	ug/Kg	1.00	02/21/2002 14:01	



Fuel Oxygenates by 8260B (High Level)

Batch QC report

Test Method: 8260B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/02/21-03.27</b>
MB: 2002/02/21-03.27-012		Date Extracted: 02/21/2002 15:33

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
tert-Butyl alcohol (TBA)	ND	5000	ug/Kg	02/21/2002 15:33	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	02/21/2002 15:33	
Di-isopropyl Ether (DIPE)	ND	1000	ug/Kg	02/21/2002 15:33	
Ethyl tert-butyl ether (ETBE)	ND	500	ug/Kg	02/21/2002 15:33	
tert-Amyl methyl ether (TAME)	ND	500	ug/Kg	02/21/2002 15:33	
1,2-DCA	ND	500	ug/Kg	02/21/2002 15:33	
EDB	ND	500	ug/Kg	02/21/2002 15:33	
Benzene	ND	500	ug/Kg	02/21/2002 15:33	
Toluene	ND	500	ug/Kg	02/21/2002 15:33	
Ethyl benzene	ND	500	ug/Kg	02/21/2002 15:33	
Total xylenes	ND	1000	ug/Kg	02/21/2002 15:33	
<b>Surrogate(s)</b>					
1,2-Dichloroethane-d4	110.4	76-114	%	02/21/2002 15:33	
Toluene-d8	100.4	88-110	%	02/21/2002 15:33	
Gasoline	ND	20000	ug/Kg	02/21/2002 15:33	



Fuel Oxygenates by 8260B (High Level)

Batch QC report

Test Method: 8260B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/02/21-03.27**  
 LCS: 2002/02/21-03.27-010 Extracted: 02/21/2002 14:42 Analyzed: 02/21/2002 14:42  
 LCSD: 2002/02/21-03.27-011 Extracted: 02/21/2002 15:09 Analyzed: 02/21/2002 15:09

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

CA DHS ELAP#1094

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Methyl tert-butyl ether	9300	10200	10000.0	10000.0	93.0	102.0	9.2	65-165	20		
Benzene	8420	8860	10000	10000	84.2	88.6	5.1	65-165	20		
Toluene	8660	8990	10000	10000	86.6	89.9	3.7	65-165	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	276	281	250	250	110.4	112.4		76-114			
Toluene-d8	258	254	250	250	103.2	101.6		88-110			

Submission #: 2002-02-0344

Gas/BTEXFuel Oxygenates by 8260B



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-413	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 65 th and 66 th Street

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB-18	Water	02/20/2002 12:30	1
EB-19	Water	02/20/2002 14:30	4
EB-21	Water	02/20/2002 13:00	7
EB-22	Water	02/20/2002 15:00	8
EB-20	Water	02/20/2002 15:30	9

Gas/BTEXFuel Oxygenates by 8260B

Lowney & Associates Oakland

Test Method: 8260FAB

Attn: Mark Arniola

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>EB-18</b>	Lab Sample ID: 2002-02-0344-001
Project: 1424-413 65 th and 66 th Street	Received: 02/20/2002 17:40
Sampled: 02/20/2002 12:30	Extracted: 02/20/2002 19:11
Matrix: Water	QC-Batch: 2002/02/20-01.27

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	140	50	ug/L	1.00	02/20/2002 19:11	
Benzene	ND	0.50	ug/L	1.00	02/20/2002 19:11	
Toluene	ND	0.50	ug/L	1.00	02/20/2002 19:11	
Ethylbenzene	ND	0.50	ug/L	1.00	02/20/2002 19:11	
Total xylenes	ND	1.0	ug/L	1.00	02/20/2002 19:11	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	02/20/2002 19:11	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	02/20/2002 19:11	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	02/20/2002 19:11	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	02/20/2002 19:11	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	02/20/2002 19:11	
1,2-DCA	ND	0.50	ug/L	1.00	02/20/2002 19:11	
EDB	ND	0.50	ug/L	1.00	02/20/2002 19:11	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	108.2	76-114	%	1.00	02/20/2002 19:11	
Toluene-d8	101.1	88-110	%	1.00	02/20/2002 19:11	

Submission #: 2002-02-0344



Gas/BTEXFuel Oxygenates by 8260B

Lowney & Associates Oakland

Test Method: 8260FAB

Attn: Mark Arniola

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>EB-19</b>	Lab Sample ID: 2002-02-0344-004
Project: 1424-413 65 th and 66 th Street	Received: 02/20/2002 17:40
Sampled: 02/20/2002 14:30	Extracted: 02/20/2002 20:53
Matrix: Water	QC-Batch: 2002/02/20-01.27

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1500	50	ug/L	1.00	02/20/2002 20:53	
Benzene	6.9	0.50	ug/L	1.00	02/20/2002 20:53	
Toluene	1.2	0.50	ug/L	1.00	02/20/2002 20:53	
Ethylbenzene	31	0.50	ug/L	1.00	02/20/2002 20:53	
Total xylenes	17	1.0	ug/L	1.00	02/20/2002 20:53	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	02/20/2002 20:53	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	02/20/2002 20:53	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	02/20/2002 20:53	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	02/20/2002 20:53	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	02/20/2002 20:53	
1,2-DCA	ND	0.50	ug/L	1.00	02/20/2002 20:53	
EDB	ND	0.50	ug/L	1.00	02/20/2002 20:53	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	102.6	76-114	%	1.00	02/20/2002 20:53	
Toluene-d8	100.7	88-110	%	1.00	02/20/2002 20:53	

Submission #: 2002-02-0344



Gas/BTEXFuel Oxygenates by 8260B

Lowney & Associates Oakland

Test Method: 8260FAB

Attn: Mark Arniola

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>EB-21</b>	Lab Sample ID: 2002-02-0344-007
Project: 1424-413 65 th and 66 th Street	Received: 02/20/2002 17:40
Sampled: 02/20/2002 13:00	Extracted: 02/20/2002 20:05
Matrix: Water	QC-Batch: 2002/02/20-01.27

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1600	50	ug/L	1.00	02/20/2002 20:05	
Benzene	6.1	0.50	ug/L	1.00	02/20/2002 20:05	
Toluene	ND	0.50	ug/L	1.00	02/20/2002 20:05	
Ethylbenzene	14	0.50	ug/L	1.00	02/20/2002 20:05	
Total xylenes	5.1	1.0	ug/L	1.00	02/20/2002 20:05	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	02/20/2002 20:05	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	02/20/2002 20:05	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	02/20/2002 20:05	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	02/20/2002 20:05	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	02/20/2002 20:05	
1,2-DCA	ND	0.50	ug/L	1.00	02/20/2002 20:05	
EDB	ND	0.50	ug/L	1.00	02/20/2002 20:05	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	105.4	76-114	%	1.00	02/20/2002 20:05	
Toluene-d8	101.9	88-110	%	1.00	02/20/2002 20:05	

Submission #: 2002-02-0344

Gas/BTEX Fuel Oxygenates by 8260B



Lowney & Associates Oakland

Test Method: 8260FAB

Attn: Mark Arniola

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>EB-22</b>	Lab Sample ID: 2002-02-0344-008
Project: 1424-413 65 th and 66 th Street	Received: 02/20/2002 17:40
Sampled: 02/20/2002 15:00	Extracted: 02/20/2002 19:41
Matrix: Water	QC-Batch: 2002/02/20-01.27

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	110	50	ug/L	1.00	02/20/2002 19:41	
Benzene	7.4	0.50	ug/L	1.00	02/20/2002 19:41	
Toluene	ND	0.50	ug/L	1.00	02/20/2002 19:41	
Ethylbenzene	1.6	0.50	ug/L	1.00	02/20/2002 19:41	
Total xylenes	ND	1.0	ug/L	1.00	02/20/2002 19:41	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	02/20/2002 19:41	
Methyl tert-butyl ether (MTBE)	0.54	0.50	ug/L	1.00	02/20/2002 19:41	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	02/20/2002 19:41	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	02/20/2002 19:41	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	02/20/2002 19:41	
1,2-DCA	ND	0.50	ug/L	1.00	02/20/2002 19:41	
EDB	ND	0.50	ug/L	1.00	02/20/2002 19:41	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	107.7	76-114	%	1.00	02/20/2002 19:41	
Toluene-d8	101.7	88-110	%	1.00	02/20/2002 19:41	



Submission #: 2002-02-0344



Gas/BTEXFuel Oxygenates by 8260B

Lowney & Associates Oakland

Test Method: 8260FAB

Attn: Mark Arniola

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: EB-20	Lab Sample ID: 2002-02-0344-009
Project: 1424-413 65 th and 66 th Street	Received: 02/20/2002 17:40
Sampled: 02/20/2002 15:30	Extracted: 02/20/2002 20:29
Matrix: Water	QC-Batch: 2002/02/20-01.27

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/20/2002 20:29	
Benzene	2.5	0.50	ug/L	1.00	02/20/2002 20:29	
Toluene	ND	0.50	ug/L	1.00	02/20/2002 20:29	
Ethylbenzene	ND	0.50	ug/L	1.00	02/20/2002 20:29	
Total xylenes	ND	1.0	ug/L	1.00	02/20/2002 20:29	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	02/20/2002 20:29	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	02/20/2002 20:29	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	02/20/2002 20:29	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	02/20/2002 20:29	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	02/20/2002 20:29	
1,2-DCA	ND	0.50	ug/L	1.00	02/20/2002 20:29	
EDB	ND	0.50	ug/L	1.00	02/20/2002 20:29	
<i>Surrogate(s)</i>						
1,2-Dichloroethane-d4	109.2	76-114	%	1.00	02/20/2002 20:29	
Toluene-d8	96.2	88-110	%	1.00	02/20/2002 20:29	



Gas/BTEXFuel Oxygenates by 8260B

Batch QC report

Test Method: 8260FAB

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2002/02/20-01.27</b>
MB: 2002/02/20-01.27-004		Date Extracted: 02/20/2002 10:11

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Benzene	ND	0.5	ug/L	02/20/2002 10:11	
Toluene	ND	0.5	ug/L	02/20/2002 10:11	
Ethylbenzene	ND	0.5	ug/L	02/20/2002 10:11	
Total xylenes	ND	1.0	ug/L	02/20/2002 10:11	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	02/20/2002 10:11	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	02/20/2002 10:11	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	02/20/2002 10:11	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	02/20/2002 10:11	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	02/20/2002 10:11	
1,2-DCA	ND	0.5	ug/L	02/20/2002 10:11	
EDB	ND	0.5	ug/L	02/20/2002 10:11	
<b>Surrogate(s)</b>					
1,2-Dichloroethane-d4	105.7	76-114	%	02/20/2002 10:11	
Toluene-d8	98.4	88-110	%	02/20/2002 10:11	

Gas/BTEXFuel Oxygenates by 8260B

Batch QC report

Test Method: 8260FAB

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/02/20-01.27**  
 LCS: 2002/02/20-01.27-002 Extracted: 02/20/2002 09:22 Analyzed: 02/20/2002 09:22  
 LCSD: 2002/02/20-01.27-003 Extracted: 02/20/2002 09:47 Analyzed: 02/20/2002 09:47

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

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Benzene	21.3	22.3	25.0	25.0	85.2	89.2	4.6	69-129	20		
Toluene	21.6	23.2	25.0	25.0	86.4	92.8	7.1	70-130	20		
Methyl tert-butyl ether	25.0	25.0	25.0	25.0	100.0	100.0	0.0	65-165	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	546	533	500	500	109.2	106.6		76-114			
Toluene-d8	492	496	500	500	98.4	99.2		88-110			

Submission #: 2002-02-0344

TEPH w/ Silica Gel Clean-up



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-413	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 65 th and 66 th Street

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB-18	Water	02/20/2002 12:30	1
EB-21	Water	02/20/2002 13:00	7
EB-22	Water	02/20/2002 15:00	8
EB-20	Water	02/20/2002 15:30	9
EB-20@9.5-10'	Soil	02/20/2002 15:30	10
EB-19	Soil	02/20/2002 14:30	12

Submission #: 2002-02-0344



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland  
Attn: Mark Arniola

Test Method: 8015M  
Prep Method: 3510/8015M  
3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>EB-18</b>	Lab Sample ID: 2002-02-0344-001
Project: 1424-413 65 th and 66 th Street	Received: 02/20/2002 17:40
Sampled: 02/20/2002 12:30	Extracted: 02/20/2002 16:24
Matrix: Water	QC-Batch: 2002/02/20-07.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	110	50	ug/L	1.00	02/21/2002 11:27	ndp
Motor Oil	ND	500	ug/L	1.00	02/21/2002 11:27	
<b>Surrogate(s)</b>						
o-Terphenyl	98.6	60-130	%	1.00	02/21/2002 11:27	

Submission #: 2002-02-0344



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M

Prep Method: 3510/8015M  
3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>EB-21</b>	Lab Sample ID: 2002-02-0344-007
Project: 1424-413 65 th and 66 th Street	Received: 02/20/2002 17:40
Sampled: 02/20/2002 13:00	Extracted: 02/20/2002 16:24
Matrix: Water	QC-Batch: 2002/02/20-07.10
Sample/Analysis Flag: rt ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	110	93	ug/L	1.90	02/21/2002 12:04	ndp
Motor Oil	ND	930	ug/L	1.90	02/21/2002 12:04	
<b>Surrogate(s)</b>						
o-Terphenyl	95.6	60-130	%	1.90	02/21/2002 12:04	

Submission #: 2002-02-0344



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland  
Attn: Mark Arniola

Test Method: 8015M  
Prep Method: 3510/8015M  
3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Sample ID: <b>EB-22</b>	Lab Sample ID: 2002-02-0344-008
Project: 1424-413 65 th and 66 th Street	Received: 02/20/2002 17:40
Sampled: 02/20/2002 15:00	Extracted: 02/20/2002 16:24
Matrix: Water	QC-Batch: 2002/02/20-07.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	51	50	ug/L	1.00	02/21/2002 11:03	ndp
Motor Oil	ND	500	ug/L	1.00	02/21/2002 11:03	
<b>Surrogate(s)</b>						
o-Terphenyl	100.4	60-130	%	1.00	02/21/2002 11:03	

Submission #: 2002-02-0344



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland  
Attn: Mark Arniola

Test Method: 8015M  
Prep Method: 3510/8015M  
3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>EB-20</b>	Lab Sample ID: 2002-02-0344-009
Project: 1424-413 65 th and 66 th Street	Received: 02/20/2002 17:40
Sampled: 02/20/2002 15:30	Extracted: 02/20/2002 16:24
Matrix: Water	QC-Batch: 2002/02/20-07.10
Sample/Analysis Flag: rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	150	ug/L	2.90	02/21/2002 11:43	
Motor Oil	ND	1500	ug/L	2.90	02/21/2002 11:43	
<b>Surrogate(s)</b>						
o-Terphenyl	94.1	60-130	%	2.90	02/21/2002 11:43	



Submission #: 2002-02-0344



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M

Prep Method: 3510/8015M  
3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>EB-20@9.5-10'</b>	Lab Sample ID: 2002-02-0344-010
Project: 1424-413 65 th and 66 th Street	Received: 02/20/2002 17:40
Sampled: 02/20/2002 15:30	Extracted: 02/20/2002 12:44
Matrix: Soil	QC-Batch: 2002/02/20-02.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	810	10	mg/Kg	10.00	02/21/2002 18:20	ndp
Motor Oil	ND	500	mg/Kg	10.00	02/21/2002 18:20	
<b>Surrogate(s)</b>						
o-Terphenyl	NA	60-130	%	10.00	02/21/2002 18:20	sd

Submission #: 2002-02-0344



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland  
Attn: Mark Arniola

Test Method: 8015M  
Prep Method: 3510/8015M  
3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>EB-19</b>	Lab Sample ID: 2002-02-0344-012
Project: 1424-413 65 th and 66 th Street	Received: 02/20/2002 17:40
Sampled: 02/20/2002 14:30	Extracted: 02/20/2002 12:44
Matrix: Soil	QC-Batch: 2002/02/20-02.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1.8	1.0	mg/Kg	1.00	02/21/2002 10:23	ndp
Motor Oil	ND	50	mg/Kg	1.00	02/21/2002 10:23	
<b>Surrogate(s)</b>						
o-Terphenyl	75.5	60-130	%	1.00	02/21/2002 10:23	





TEPH w/ Silica Gel Clean-up

**Batch QC report**

Test Method: 8015M

Prep Method: 3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/02/20-07.10**  
 LCS: 2002/02/20-07.10-002 Extracted: 02/20/2002 16:24 Analyzed: 02/21/2002 09:44  
 LCSD: 2002/02/20-07.10-003 Extracted: 02/20/2002 16:24 Analyzed: 02/21/2002 10:23

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

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	1130	1080	1250	1250	90.4	86.4	4.5	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	21.6	21.5	20.0	20.0	107.9	107.4		60-130	0		

Submission #: 2002-02-0344



TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/02/20-02.10  
LCS: 2002/02/20-02.10-002 Extracted: 02/20/2002 12:44 Analyzed: 02/21/2002 19:00  
LCSD: 2002/02/20-02.10-003 Extracted: 02/20/2002 12:44 Analyzed: 02/21/2002 19:40

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recover	RPD	LCS	LCSD
Diesel	37.0	36.9	41.7	41.7	88.7	88.5	0.2	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	20.1	20.2	20.0	20.0	100.5	101.0		60-130	0		

TEPH w/ Silica Gel Clean-up

**Legend & Notes**

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94586

Tel 925 484 1919  
Fax 925 484 1096  
[www.stl-inc.com](http://www.stl-inc.com)  
[www.chromalab.com](http://www.chromalab.com)

CA DHS ELAP#1094

**Analysis Flags**

rl

Reporting limits raised due to reduced sample size.

**Analyte Flags**

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

**Analyte Flags**

sd

Surrogate recovery not reportable due to required dilution.

**CHAIN OF CUSTODY RECORD**

Middletown view 54045  
Tel: 650.967.2365  
Fax: 650.967.2785

Tel: 510.267.1970  
Fax: 510.267.1972

Tel: 626.396.1490  
Fax: 626.396.1491

Tel: 925.275.2555  
Fax: 925.275.2555

**2002-02-0344**

Project Name: 65th & 66th Street

Job No.: 1424-4B

Report To: Mark Amiola

Sampler (print): Veronica Tiglao

Sampler (signature): [Signature]

QC Requirement:  Level A (standard)

**Turnaround Requirements**

5 Working Days

48 Hours

24 Hours

2-3 Hours RUSH

\_\_\_\_\_

**ANALYSES REQUESTED 64788**

Sample I.D.	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	TPH as gas/BTEX/MTBE (8015/8020)	TPH as diesel (8015M) (note oil silica gel column)	TRPH (418.1) silica gel column	Halogenated VOCs (8010) (8021 or 8260)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M (Purgeable and Extractable)	Remarks
EB-18	02/20/02	12:30		Water	8	X	X									Filter
EB-18@9 1/2'-10'		12:30		Soil	1											HOLD
EB-18@24 1/2'-25'		12:30		Soil	1											HOLD
EB-19		14:30		Water	8	X	X									Filter
EB-19@12-12 1/2'		14:30		Soil	1											HOLD
EB-19@24-24 1/2'		14:30		Soil	1											HOLD
EB-21		13:00		Water	8	X	X									Filter
EB-22		15:00		Water	8	X	X									Filter
EB-20		15:30		Water	8	X	X									Filter
EB-20@9 1/2'-10'		15:30		Soil	1	X	X									HOLD
EB-20@21 1/2'-22'		15:30		Soil	1											HOLD

**RUSH**

Relinquished By: [Signature] Date: 02/20/02 Time: 1640

Relinquished By: SAS MIKE - WORLD COURIER Date: 02/20/02 Time: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By: SAS MIKE Date: 02/20/02 Time: 1640

Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Lab of Record: STL-SF

Received by Lab: Devisia Date: 2/20/02 Time: 1740

Temp: 16.7°C

*Hamilton*



Submission #: 2002-02-0375

Date: February 26, 2002



**Lowney & Associates Oakland**

167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-4B  
65th & 66th Street

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mr. Arniola,

Attached is our report for your samples received on Thursday February 21, 2002. This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after April 7, 2002 unless you have requested otherwise. We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919. You can also contact me via email. My email address is: [vvancil@chromalab.com](mailto:vvancil@chromalab.com)

Sincerely,

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

Vincent Vancil  
Project Manager

Submission #: 2002-02-0375

Fuel Oxygenates by 8260B (High Level)



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 65th & 66th Street

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB23@9-9.5'	Soil	02/21/2002 11:00	2

Submission #: 2002-02-0375



Fuel Oxygenates by 8260B (High Level)

Lowney & Associates Oakland

Test Method: 8260B

Attn: Mark Arniola

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>EB23@9-9.5'</b>	Lab Sample ID: 2002-02-0375-002
Project: 1424-4B 65th & 66th Street	Received: 02/21/2002 18:00
Sampled: 02/21/2002 11:00	Extracted: 02/25/2002 15:52
Matrix: Soil	QC-Batch: 2002/02/25-02.27

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	650000	20000	ug/Kg	1.00	02/25/2002 15:52	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	1.00	02/25/2002 15:52	
Benzene	ND	500	ug/Kg	1.00	02/25/2002 15:52	
Toluene	ND	500	ug/Kg	1.00	02/25/2002 15:52	
Ethyl benzene	2800	500	ug/Kg	1.00	02/25/2002 15:52	
Total xylenes	2200	1000	ug/Kg	1.00	02/25/2002 15:52	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	104.9	76-114	%	1.00	02/25/2002 15:52	
Toluene-d8	100.2	88-110	%	1.00	02/25/2002 15:52	

Submission #: 2002-02-0375



Fuel Oxygenates by 8260B (High Level)

Batch QC report

Test Method: 8260B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Method Blank

Soil

QC Batch # 2002/02/25-02.27

MB: 2002/02/25-02.27-014

Date Extracted: 02/25/2002 15:19

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	20000	ug/Kg	02/25/2002 15:19	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	02/25/2002 15:19	
Benzene	ND	500	ug/Kg	02/25/2002 15:19	
Toluene	ND	500	ug/Kg	02/25/2002 15:19	
Ethyl benzene	ND	500	ug/Kg	02/25/2002 15:19	
Total xylenes	ND	1000	ug/Kg	02/25/2002 15:19	
<b>Surrogate(s)</b>					
1,2-Dichloroethane-d4	108.0	76-114	%	02/25/2002 15:19	
Toluene-d8	97.0	88-110	ug/Kg	02/25/2002 15:19	

Submission #: 2002-02-0375



Fuel Oxygenates by 8260B (High Level)

Batch QC report

Test Method: 8260B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/02/25-02.27  
 LCS: 2002/02/25-02.27-012 Extracted: 02/25/2002 14:30 Analyzed: 02/25/2002 14:30  
 LCSD: 2002/02/25-02.27-013 Extracted: 02/25/2002 14:54 Analyzed: 02/25/2002 14:54

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

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Methyl tert-butyl ether	9510	8800	10000.0	10000	95.1	88.0	7.8	65-165	20		
Benzene	9100	8060	10000	10000	91.0	80.6	12.1	65-165	20		
Toluene	9300	8540	10000	10000	93.0	85.4	8.5	65-165	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	277	271	250	250	110.8	108.4		76-114			
Toluene-d8	273	262	250	250	109.2	104.8		88-110			

Submission #: 2002-02-0375

Gas/BTEXFuel Oxygenates by 8260B



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 65th & 66th Street

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB23	Water	02/21/2002 12:30	1
EB24	Water	02/21/2002 14:30	4



Submission #: 2002-02-0375



Gas/BTEXFuel Oxygenates by 8260B

Lowney & Associates Oakland

Test Method: 8260FAB

Attn: Mark Amiola

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>EB24</b>	Lab Sample ID: 2002-02-0375-004
Project: 1424-4B 65th & 66th Street	Received: 02/21/2002 18:00
Sampled: 02/21/2002 14:30	Extracted: 02/22/2002 17:18
Matrix: Water	QC-Batch: 2002/02/22-02.27

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	820	50	ug/L	1.00	02/22/2002 17:18	
Benzene	ND	0.50	ug/L	1.00	02/22/2002 17:18	
Toluene	ND	0.50	ug/L	1.00	02/22/2002 17:18	
Ethylbenzene	1.3	0.50	ug/L	1.00	02/22/2002 17:18	
Total xylenes	ND	1.0	ug/L	1.00	02/22/2002 17:18	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	02/22/2002 17:18	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	102.2	76-114	%	1.00	02/22/2002 17:18	
Toluene-d8	100.8	88-110	%	1.00	02/22/2002 17:18	





Gas/BTEXFuel Oxygenates by 8260B

Batch QC report

Test Method: 8260FAB

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2002/02/22-02.27</b>
MB: 2002/02/22-02.27-012		Date Extracted: 02/22/2002 14:52

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	02/22/2002 14:52	
Benzene	ND	0.5	ug/L	02/22/2002 14:52	
Toluene	ND	0.5	ug/L	02/22/2002 14:52	
Ethylbenzene	ND	0.5	ug/L	02/22/2002 14:52	
Total xylenes	ND	1.0	ug/L	02/22/2002 14:52	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	02/22/2002 14:52	
<b>Surrogate(s)</b>					
1,2-Dichloroethane-d4	105.4	76-114	%	02/22/2002 14:52	
Toluene-d8	100.3	88-110	%	02/22/2002 14:52	

Gas/BTEXFuel Oxygenates by 8260B

**Batch QC report**

Test Method: 8260FAB

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/02/22-02.27**  
 LCS: 2002/02/22-02.27-010 Extracted: 02/22/2002 14:04 Analyzed: 02/22/2002 14:04  
 LCSD: 2002/02/22-02.27-011 Extracted: 02/22/2002 14:30 Analyzed: 02/22/2002 14:30

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

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Cirt.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	23.3	23.7	25.0	25.0	93.2	94.8	1.7	69-129	20		
Toluene	24.2	25.3	25.0	25.0	96.8	101.2	4.4	70-130	20		
Methyl tert-butyl ether	25.3	25.9	25.0	25.0	101.2	103.6	2.3	65-165	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	537	527	500	500	107.4	105.4		76-114			
Toluene-d8	507	503	500	500	101.4	100.6		88-110			

Submission #: 2002-02-0375



Gas/BTEXFuel Oxygenates by 8260B

**Legend & Notes**

Test Method: 8260FAB

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

**Analysis Flags**

o

Reporting limits were raised due to high level of analyte present in the sample. CA DHS ELAP#1094

Submission #: 2002-02-0375

TEPH w/ Silica Gel Clean-up



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 65th & 66th Street

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB23	Water	02/21/2002 12:30	1
EB23@9-9.5'	Soil	02/21/2002 11:00	2
EB24	Water	02/21/2002 14:30	4

Submission #: 2002-02-0375



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>EB23</b>	Lab Sample ID: 2002-02-0375-001
Project: 1424-4B 65th & 66th Street	Received: 02/21/2002 18:00
Sampled: 02/21/2002 12:30	Extracted: 02/21/2002 18:14
Matrix: Water	QC-Batch: 2002/02/21-05.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	02/22/2002 10:09	
Motor Oil	ND	500	ug/L	1.00	02/22/2002 10:09	
<b>Surrogate(s)</b>						
o-Terphenyl	89.6	60-130	%	1.00	02/22/2002 10:09	

Submission #: 2002-02-0375



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M  
3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>EB23@9-9.5</b>	Lab Sample ID: 2002-02-0375-002
Project: 1424-4B 65th & 66th Street	Received: 02/21/2002 18:00
Sampled: 02/21/2002 11:00	Extracted: 02/21/2002 06:47
Matrix: Soil	QC-Batch: 2002/02/21-01.10

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	270	10	mg/Kg	10.00	02/25/2002 05:23	ndp
Motor Oil	ND	500	mg/Kg	10.00	02/25/2002 05:23	
<b>Surrogate(s)</b>						
o-Terphenyl	NA	60-130	%	10.00	02/25/2002 05:23	sd

Submission #: 2002-02-0375



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>EB24</b>	Lab Sample ID: 2002-02-0375-004
Project: 1424-4B 65th & 66th Street	Received: 02/21/2002 18:00
Sampled: 02/21/2002 14:30	Extracted: 02/21/2002 18:14
Matrix: Water	QC-Batch: 2002/02/21-05.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	63	50	ug/L	1.00	02/22/2002 10:46	ndp
Motor Oil	ND	500	ug/L	1.00	02/22/2002 10:46	
<b>Surrogate(s)</b>						
o-Terphenyl	99.4	60-130	%	1.00	02/22/2002 10:46	







TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Laboratory Control Spike (LCS/LCSD)</b>	<b>Soil</b>	<b>QC Batch # 2002/02/21-01.10</b>
LCS: 2002/02/21-01.10-002	Extracted: 02/21/2002 06:47	Analyzed: 02/22/2002 11:56
LCSD: 2002/02/21-01.10-003	Extracted: 02/21/2002 06:47	Analyzed: 02/22/2002 12:35

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	35.5	36.1	41.7	41.7	85.1	86.6	1.7	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	19.6	20.1	20.0	20.0	97.8	100.7		60-130	0		

Submission #: 2002-02-0375



TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/02/21-05.10**  
 LCS: 2002/02/21-05.10-001 Extracted: 02/21/2002 18:14 Analyzed: 02/22/2002 10:36  
 LCSD: 2002/02/21-05.10-002 Extracted: 02/21/2002 18:14 Analyzed: 02/22/2002 11:16

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	1230	1270	1250	1250	98.4	101.6	3.2	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	23.8	24.4	20.0	20.0	119.1	122.2		60-130	0		



TEPH w/ Silica Gel Clean-up

**Legend & Notes**

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

**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)  
[www.chromalab.com](http://www.chromalab.com)

CA DHS ELAP#1094

**Analyte Flags**

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

**Analyte Flags**

sd

Surrogate recovery not reportable due to required dilution.

**CHAIN OF CUSTODY RECORD**

**2002-02-0375**

Project Name: 65th & 66th St  
 Job No.: 1424-4B  
 Report To: Mark Arniola  
 Sampler (print): Veronica Tigloo  
 Sampler (signature): [Signature]  
 QC Requirement:  Level A (standard)

**Turnaround Requirements**

5 Working Days  
 48 Hours  
 24 Hours  
 2-3 Hours RUSH  
 \_\_\_\_\_

**ANALYSES REQUESTED**

64831

Sample I.D.	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	TPH as gas/BTEX/MTBE (8015/8020)	TPH as diesel (8015M) silica gel column <u>yes</u>	TRPH (418.1) silica gel column	Halogenated VOCs (8010) (8021 or 8260)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M (Purgeable and Extractable)	Remarks
EB23	2/21/02	12:30		Water	8	X	X									SILVER
EB23@9-9 1/2'		11:00		Soil	1	X	X									HOLD
EB23@21 1/2-22'		12:00		Soil	1											SILVER
EB24		14:30		Water	8	X	X									<del>SILVER</del> HOLD
EB24@10-10 1/2'		12:30		Soil	1											HOLD
EB24@27-27 1/2'		14:30		Soil	1											<del>SILVER</del> HOLD
<del>EB24@27-27 1/2'</del>		<del>14:30</del>		<del>Soil</del>	<del>1</del>											<del>SILVER</del> HOLD
EB-25@9 1/2-10'		16:00		Soil	1											HOLD

5 SILVER WATER SAMPLES  
100% UNPROCESSED

**RUSH**

Relinquished By: <u>[Signature]</u>	Date: <u>2/21/02</u> Time: <u>17:05</u>	Received By: <u>[Signature]</u>	Date: <u>2/21/02</u> Time: <u>1708</u>	PM Initial:
Relinquished By: <u>[Signature]</u>	Date: <u>2/21/02</u> Time: <u>1800</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Lab of Record: <u>STL-SF</u>	Temp:
			Received by Lab: <u>Denise</u>	Date: <u>2/21/02</u> Time: <u>1800</u> <u>20.2°C</u>

Submission #: 2002-02-0385

Date: February 26, 2002

**SEVERN**  
**TRENT**  
**SERVICES**

**Lowney & Associates Oakland**

167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-4B  
65th & 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mr. Arniola,

Attached is our report for your samples received on Thursday February 21, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
April 7, 2002 unless you have requested otherwise.

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

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

Sincerely,



Vincent Vancil  
Project Manager

Submission #: 2002-02-0385



Halogenated Volatile Organic Compounds by 8021

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 65th & 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
GW-2	Water	02/21/2002 15:00	1



Halogenated Volatile Organic Compounds by 8021

Lowney & Associates Oakland  
 Attn: Mark Arniola

Test Method: 8021B  
 Prep Method: 5030B

STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

Sample ID: <b>GW-2</b>	Lab Sample ID: 2002-02-0385-001
Project: 1424-4B 65th & 66th St.	Received: 02/21/2002 18:00
Sampled: 02/21/2002 15:00	Extracted: 02/22/2002 13:41
Matrix: Water	QC-Batch: 2002/02/22-01.26

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	02/22/2002 13:41	
Vinyl chloride	ND	0.50	ug/L	1.00	02/22/2002 13:41	
Chloroethane	ND	0.50	ug/L	1.00	02/22/2002 13:41	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	02/22/2002 13:41	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	02/22/2002 13:41	
Methylene chloride	ND	5.0	ug/L	1.00	02/22/2002 13:41	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	02/22/2002 13:41	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	02/22/2002 13:41	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	02/22/2002 13:41	
Chloroform	ND	0.50	ug/L	1.00	02/22/2002 13:41	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	02/22/2002 13:41	
Carbon tetrachloride	ND	0.50	ug/L	1.00	02/22/2002 13:41	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	02/22/2002 13:41	
Trichloroethene	ND	0.50	ug/L	1.00	02/22/2002 13:41	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	02/22/2002 13:41	
Bromodichloromethane	ND	0.50	ug/L	1.00	02/22/2002 13:41	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	02/22/2002 13:41	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	02/22/2002 13:41	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	02/22/2002 13:41	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	02/22/2002 13:41	
Tetrachloroethene	ND	0.50	ug/L	1.00	02/22/2002 13:41	
Dibromochloromethane	ND	0.50	ug/L	1.00	02/22/2002 13:41	
Chlorobenzene	ND	0.50	ug/L	1.00	02/22/2002 13:41	
Bromoform	ND	2.0	ug/L	1.00	02/22/2002 13:41	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	02/22/2002 13:41	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	02/22/2002 13:41	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	02/22/2002 13:41	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	02/22/2002 13:41	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	02/22/2002 13:41	
Chloromethane	ND	1.0	ug/L	1.00	02/22/2002 13:41	
Bromomethane	ND	1.0	ug/L	1.00	02/22/2002 13:41	
<b>Surrogate(s)</b>						
1-Chloro-2-fluorobenzene	90.6	70-130	%	1.00	02/22/2002 13:41	



## Halogenated Volatile Organic Compounds by 8021

## Batch QC report

Test Method: 8021B

Prep Method: 5030B

 STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

Method Blank

Water

QC Batch # 2002/02/22-01.26

MB: 2002/02/22-01.26-004

Date Extracted: 02/22/2002 12:58

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	02/22/2002 12:58	
Vinyl chloride	ND	0.5	ug/L	02/22/2002 12:58	
Chloroethane	ND	0.5	ug/L	02/22/2002 12:58	
Trichlorofluoromethane	ND	0.5	ug/L	02/22/2002 12:58	
1,1-Dichloroethene	ND	0.5	ug/L	02/22/2002 12:58	
Methylene chloride	ND	5.0	ug/L	02/22/2002 12:58	
trans-1,2-Dichloroethene	ND	0.5	ug/L	02/22/2002 12:58	
cis-1,2-Dichloroethene	ND	0.5	ug/L	02/22/2002 12:58	
1,1-Dichloroethane	ND	0.5	ug/L	02/22/2002 12:58	
Chloroform	ND	0.5	ug/L	02/22/2002 12:58	
1,1,1-Trichloroethane	ND	0.5	ug/L	02/22/2002 12:58	
Carbon tetrachloride	ND	0.5	ug/L	02/22/2002 12:58	
1,2-Dichloroethane	ND	0.5	ug/L	02/22/2002 12:58	
Trichloroethene	ND	0.5	ug/L	02/22/2002 12:58	
1,2-Dichloropropane	ND	0.5	ug/L	02/22/2002 12:58	
Bromodichloromethane	ND	0.5	ug/L	02/22/2002 12:58	
2-Chloroethylvinyl ether	ND	0.5	ug/L	02/22/2002 12:58	
trans-1,3-Dichloropropene	ND	0.5	ug/L	02/22/2002 12:58	
cis-1,3-Dichloropropene	ND	0.5	ug/L	02/22/2002 12:58	
1,1,2-Trichloroethane	ND	0.5	ug/L	02/22/2002 12:58	
Tetrachloroethene	ND	0.5	ug/L	02/22/2002 12:58	
Dibromochloromethane	ND	0.5	ug/L	02/22/2002 12:58	
Chlorobenzene	ND	0.5	ug/L	02/22/2002 12:58	
Bromoform	ND	2.0	ug/L	02/22/2002 12:58	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	02/22/2002 12:58	
1,3-Dichlorobenzene	ND	0.5	ug/L	02/22/2002 12:58	
1,4-Dichlorobenzene	ND	0.5	ug/L	02/22/2002 12:58	
1,2-Dichlorobenzene	ND	0.5	ug/L	02/22/2002 12:58	
Trichlorotrifluoroethane	ND	0.5	ug/L	02/22/2002 12:58	
Chloromethane	ND	1.0	ug/L	02/22/2002 12:58	
Bromomethane	ND	1.0	ug/L	02/22/2002 12:58	
<b>Surrogate(s)</b>					
1-Chloro-2-fluorobenzene	106.1	70-130	%	02/22/2002 12:58	

Submission #: 2002-02-0385



Halogenated Volatile Organic Compounds by 8021

Batch QC report

Test Method: 8021B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/02/22-01.26**  
 LCS: 2002/02/22-01.26-002    Extracted: 02/22/2002 11:32    Analyzed: 02/22/2002 11:32  
 LCSD: 2002/02/22-01.26-003    Extracted: 02/22/2002 12:15    Analyzed: 02/22/2002 12:15

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

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
1,1-Dichloroethene	18.1	20.4	20.0	20.0	90.5	102.0	11.9	70-130	20		
Trichloroethene	18.8	21.5	20.0	20.0	94.0	107.5	13.4	70-130	20		
Chlorobenzene	20.3	20.1	20.0	20.0	101.5	100.5	1.0	70-130	20		
<b>Surrogate(s)</b>											
1-Chloro-2-fluorobenz	22.0	24.5	20	20	110.0	122.5		70-130			

Submission #: 2002-02-0385

SEVERN

TRENT

SERVICES

Gas/BTEXFuel Oxygenates by 8260B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 65th & 66th St.

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
GW-2	Water	02/21/2002 15:00	1

Submission #: 2002-02-0385

Gas/BTEXFuel Oxygenates by 8260B



Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8260FAB

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>GW-2</b>	Lab Sample ID: 2002-02-0385-001
Project: 1424-4B 65th & 66th St.	Received: 02/21/2002 18:00
Sampled: 02/21/2002 15:00	Extracted: 02/22/2002 16:31
Matrix: Water	QC-Batch: 2002/02/22-02.27

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/22/2002 16:31	
Benzene	1.1	0.50	ug/L	1.00	02/22/2002 16:31	
Toluene	ND	0.50	ug/L	1.00	02/22/2002 16:31	
Ethylbenzene	ND	0.50	ug/L	1.00	02/22/2002 16:31	
Total xylenes	ND	1.0	ug/L	1.00	02/22/2002 16:31	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	02/22/2002 16:31	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	102.2	76-114	%	1.00	02/22/2002 16:31	
Toluene-d8	98.0	88-110	%	1.00	02/22/2002 16:31	



Submission #: 2002-02-0385



Gas/BTEXFuel Oxygenates by 8260B

Batch QC report

Test Method: 8260FAB

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/02/22-02.27**  
 LCS: 2002/02/22-02.27-010 Extracted: 02/22/2002 14:04 Analyzed: 02/22/2002 14:04  
 LCSD: 2002/02/22-02.27-011 Extracted: 02/22/2002 14:30 Analyzed: 02/22/2002 14:30

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

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Benzene	23.3	23.7	25.0	25.0	93.2	94.8	1.7	69-129	20		
Toluene	24.2	25.3	25.0	25.0	96.8	101.2	4.4	70-130	20		
Methyl tert-butyl ether	25.3	25.9	25.0	25.0	101.2	103.6	2.3	65-165	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	537	527	500	500	107.4	105.4		76-114			
Toluene-d8	507	503	500	500	101.4	100.6		88-110			

Submission #: 2002-02-0385



Total Lead

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 65th & 66th St.

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

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
GW-2	Water	02/21/2002 15:00	1

Submission #: 2002-02-0385



Total Lead

Lowney & Associates Oakland  
Attn: Mark Arniola

Test Method: 6010B  
Prep Method: 3010A

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>GW-2</b>	Lab Sample ID: 2002-02-0385-001
Project: 1424-4B 65th & 66th St.	Received: 02/21/2002 18:00
Sampled: 02/21/2002 15:00	Extracted: 02/22/2002 05:57
Matrix: Water	QC-Batch: 2002/02/22-05.15

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	0.021	0.0063	mg/L	1.00	02/22/2002 15:09	





Submission #: 2002-02-0385



Total Lead  
Batch QC report

Test Method: 6010B

Prep Method: 3010A

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/02/22-05.15  
LCS: 2002/02/22-05.15-061    Extracted: 02/22/2002 05:57    Analyzed: 02/22/2002 15:00  
LCSD: 2002/02/22-05.15-062    Extracted: 02/22/2002 05:57    Analyzed: 02/22/2002 15:04

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

CA DHS ELAP#1094

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Lead	0.481	0.477	0.500	0.500	96.2	95.4	0.8	80-120	20		

Submission #: 2002-02-0385



TEPH w/ Silica Gel Clean-up

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 65th & 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
GW-2	Water	02/21/2002 15:00	1

Submission #: 2002-02-0385



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>GW-2</b>	Lab Sample ID: 2002-02-0385-001
Project: 1424-4B 65th & 66th St.	Received: 02/21/2002 18:00
Sampled: 02/21/2002 15:00	Extracted: 02/22/2002 11:45
Matrix: Water	QC-Batch: 2002/02/22-03.10
Sample/Analysis Flag: rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	63	ug/L	1.30	02/22/2002 14:06	
Motor Oil	ND	630	ug/L	1.30	02/22/2002 14:06	
<b>Surrogate(s)</b>						
o-Terphenyl	100.9	60-130	%	1.30	02/22/2002 14:06	



Submission #: 2002-02-0385



TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/02/22-03.10  
LCS: 2002/02/22-03.10-002    Extracted: 02/22/2002 11:45    Analyzed: 02/22/2002 17:52  
LCSD: 2002/02/22-03.10-003    Extracted: 02/22/2002 11:45    Analyzed: 02/22/2002 18:29

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrt.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recover	RPD	LCS	LCSD
Diesel	1040	1010	1250	1250	83.2	80.8	2.9	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	20.5	19.9	20.0	20.0	102.6	99.4		60-130	0		

Submission #: 2002-02-0385



TEPH w/ Silica Gel Clean-up

**Legend & Notes**

Test Method: 8015M

Prep Method: 3510/8015M

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)  
[www.chromalab.com](http://www.chromalab.com)

**Analysis Flags**

rl

Reporting limits raised due to reduced sample size.

CA DHS ELAP#1094

**CHAIN OF CUSTODY RECORD**

**2002-02-0385**

Project Name: <b>65th/66th St</b>				<b>Turnaround Requirements</b> <input checked="" type="checkbox"/> Working Days <input type="checkbox"/> 48 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> 2-3 Hours RUSH <input type="checkbox"/> _____		<b>ANALYSES REQUESTED</b>							<b>64832</b>																							
Job No.: <b>1424-4B</b>						<table border="1"> <tr> <td>TPH as gas/BTEX/MIBE (8015/8020)</td> <td>TPH as diesel (8015M) silica gel column</td> <td>TRPH (418.1) silica gel column</td> <td>Halogenated VOCs (8010) (8021 eP260)</td> <td>Organochlorine Pesticides (8081)</td> <td>Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)</td> <td>Fuel Oxygenates (8260B)</td> <td>PAHs (8310)</td> <td>PCBs (8082)</td> <td>Fuel Scan 8020/8015M (Purgeable and Extractable)</td> <td>Lead</td> <td>Remarks</td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>Filter; VOA's Unpreserved</td> </tr> </table>							TPH as gas/BTEX/MIBE (8015/8020)	TPH as diesel (8015M) silica gel column	TRPH (418.1) silica gel column	Halogenated VOCs (8010) (8021 eP260)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M (Purgeable and Extractable)	Lead	Remarks	X	X		X							X	Filter; VOA's Unpreserved
TPH as gas/BTEX/MIBE (8015/8020)	TPH as diesel (8015M) silica gel column	TRPH (418.1) silica gel column	Halogenated VOCs (8010) (8021 eP260)			Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M (Purgeable and Extractable)	Lead	Remarks																							
X	X		X									X	Filter; VOA's Unpreserved																							
Report To: <b>Mark Arminda</b>																																				
Sampler (print): <b>Veronica Tiglao</b>																																				
Sampler (signature): 																																				
QC Requirement: <input checked="" type="checkbox"/> Level A (standard)																																				
Sample I.D.	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	TPH as gas/BTEX/MIBE (8015/8020)	TPH as diesel (8015M) silica gel column	TRPH (418.1) silica gel column	Halogenated VOCs (8010) (8021 eP260)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M (Purgeable and Extractable)	Lead	Remarks																			
GW-2	02/21/02	15:00		Water	1	X	X		X								X	Filter																		
<b>RUSH</b>																																				
Relinquished By:				Date: 02/21/02 Time: 7:05		Received By:				Date: 2/21/02 Time: 1:00				PM Initial:																						
Relinquished By:				Date: 2/21/02 Time: 18:00		Received By:				Date:				Time:																						
Relinquished By:				Date:		Time:		Lab of Record: STL-SF				Received by Lab: Denise				Date: 2/21/02 Time: 1800																				
Temp: 20.2°C																																				



Submission #: 2002-02-0395

Date: February 26, 2002

**SEVERN  
TRENT  
SERVICES**

**Lowney & Associates Oakland**

167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-4B  
65th & 66th

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mr. Arniola,

Attached is our report for your samples received on Friday February 22, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
April 8, 2002 unless you have requested otherwise.

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

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

Sincerely,



Vincent Vancil  
Project Manager

Submission #: 2002-02-0395

Gas/BTEXFuel Oxygenates by 8260B



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 65th & 66th

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB-25	Water	02/21/2002 17:00	2

Submission #: 2002-02-0395

Gas/BTEX Fuel Oxygenates by 8260B



Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8260FAB

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>EB-25</b>	Lab Sample ID: 2002-02-0395-002
Project: 1424-4B 65th & 66th	Received: 02/22/2002 14:10
	Extracted: 02/25/2002 13:18
Sampled: 02/21/2002 17:00	QC-Batch: 2002/02/25-01.27
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	57	50	ug/L	1.00	02/25/2002 13:18	
Benzene	ND	0.50	ug/L	1.00	02/25/2002 13:18	
Toluene	ND	0.50	ug/L	1.00	02/25/2002 13:18	
Ethylbenzene	3.3	0.50	ug/L	1.00	02/25/2002 13:18	
Total xylenes	ND	1.0	ug/L	1.00	02/25/2002 13:18	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	02/25/2002 13:18	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	105.9	76-114	%	1.00	02/25/2002 13:18	
Toluene-d8	99.4	88-110	%	1.00	02/25/2002 13:18	



Submission #: 2002-02-0395



Gas/BTEX Fuel Oxygenates by 8260B

Batch QC report

Test Method: 8260FAB

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/02/25-01.27**  
 LCS: 2002/02/25-01.27-004    Extracted: 02/25/2002 11:17    Analyzed: 02/25/2002 11:17  
 LCSD: 2002/02/25-01.27-005    Extracted: 02/25/2002 11:44    Analyzed: 02/25/2002 11:44

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	21.2	21.2	25.0	25.0	84.8	84.8	0.0	69-129	20		
Toluene	22.6	22.9	25.0	25.0	90.4	91.6	1.3	70-130	20		
Methyl tert-butyl ether	23.6	21.9	25.0	25.0	94.4	87.6	7.5	65-165	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	522	497	500	500	104.4	99.4		76-114			
Toluene-d8	506	507	500	500	101.2	101.4		88-110			

Submission #: 2002-02-0395

TEPH w/ Silica Gel Clean-up



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 65th & 66th

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB-25	Water	02/21/2002 17:00	2

Submission #: 2002-02-0395



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>EB-25</b>	Lab Sample ID: 2002-02-0395-002
Project: 1424-4B 65th & 66th	Received: 02/22/2002 14:10
Sampled: 02/21/2002 17:00	Extracted: 02/22/2002 11:45
Matrix: Water	QC-Batch: 2002/02/22-03.10
Sample/Analysis Flag: rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	69	ug/L	1.39	02/25/2002 04:44	
Motor Oil	ND	690	ug/L	1.39	02/25/2002 04:44	
<b>Surrogate(s)</b>						
o-Terphenyl	102.0	60-130	%	1.39	02/25/2002 04:44	





Submission #: 2002-02-0395



TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/02/22-03.10  
LCS: 2002/02/22-03.10-002    Extracted: 02/22/2002 11:45    Analyzed: 02/22/2002 17:52  
LCSD: 2002/02/22-03.10-003    Extracted: 02/22/2002 11:45    Analyzed: 02/22/2002 18:29

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Diesel	1040	1010	1250	1250	83.2	80.8	2.9	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	20.5	19.9	20.0	20.0	102.6	99.4		60-130	0		

Submission #: 2002-02-0395



TEPH w/ Silica Gel Clean-up

**Legend & Notes**

Test Method: 8015M

Prep Method: 3510/8015M

**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)  
[www.chromalab.com](http://www.chromalab.com)

**Analysis Flags**

n

Reporting limits raised due to reduced sample size.

CA DHS ELAP#1094

Table 1 Bid Costing  
BNSF Request For Bid

MATRIX	METHOD	DESCRIPTION	RATE
--------	--------	-------------	------

**Petroleum Hydrocarbons**

Aq/Solid	SW 8015	Total Volatile Hydrocarbons (Gasoline), Method 8015 Modified, Normal Turnaround	
Aq/Solid	SW 8015	Total Extractable Hydrocarbons (Kero. and Diesel), Method 8015 Modified, Normal Turnaround	
Aq/Solid	SW 8015/8020	Turnaround	
Aq/Solid	SW 8015/8020	TPH as Gasoline and BTEX and MTBE, Modified SW8015/8020, Normal Turnaround	
Aq/Solid	SW 8015	Total Petroleum Hydrocarbons, with silica gel cleanup, Modified SW8015, Normal Turnaround	
Aq/Solid	EPA 418.1	Turnaround	
Aq/Solid	SM 5520	Turnaround	
Aq/Solid	EPA 413.1	Oil & Grease, Method EPA 413.1, Normal Turnaround	
Aq/Solid	SW 8015 Arizona Modified	Total Petroleum Hydrocarbons, Method SW8015 Arizona Modified, Normal Turnaround	
Aq/Solid	NWTPH-Gx	Volatile TPH products - North West purgeable TPH	
Aq/Solid		Fractionization of Volatile TPH - Aromatic & aliphatic boiling ranges for volatile hydrocarbons, Washington State Method	
Aq/Solid		Volatile TPH with targeted VOC's by GC/MS - Aromatic/aliphatic boiling ranges with GC/MS identification, Washington State Method	
Aq/Solid	NWTPH-Dx	Semivolatile TPH - extended analysis for semivolatile TPH/silica gel cleanup via NWTPH-Dx	
Aq/Solid		Extractable TPH with targeted SVOC's by GC/MS - boiling ranges with GC/MS identification, Washington State	
Aq/Solid		Extractable TPH with targeted SVOC's by GC/MS - SIM (low concentration) identification, Washington State, EPH/GCMS SIM2	
Aq/Solid		Volatile & Semivolatile TPH with targeted compounds by GC/MS - SIM - Boiling ranges with GC/MS SIM (low concentration) identification, Washington State VPH/8260/EPH/GCMS SIM2	
Aq/Solid	SW 9071 A	Total Recoverable Petroleum Hydrocarbons - Oil & Grease analysis via chemical drying and soxhlet extraction	
Aq/Solid	ORTHP - 418.1	Hexane extractable material - TPH material extract using hexane	
Aq/Solid	NWTPH-HCID	Hydrocarbon screen - Northwest method NWTPH-HCID	
Aq/Solid	TX 1005	Total Petroleum Hydrocarbons extractable analysis for gasoline and diesel based on State of Texas requirements	
Aq/Solid	SW 8015	Fuel fingerprint, EPA Method SW8015 Modified	
Aq/Solid	ASTM D1796	Fuel oil by centrifuge method for water in sediments	
Aq/Solid	EPA 8260	Oxygenates - TBA, MTBE, DIPE, ETBE, TAME	
Aq/Solid	TX 1006	Total Petroleum Hydrocarbons extractable analysis, microextraction to fractionate aliphatics and aromatics by GC/FID based on State of Texas requirements	
Aq/Solid	E1664	Oil & Grease - Oil & Grease (TPH) analysis via Method E1664	
Aq/Solid	ASTM D287	Recovered Oil Analysis - API Specific Gravity (ASTM D-287)	
Aq/Solid	ASTM D96	Recovered Oil Analysis - Bottom Sediment & Water (ASTM D-96)	
Aq/Solid	ASTM D1298	Recovered Oil Analysis - Specific Gravity (ASTM D-1298)	
Aq/Solid	ASTM D95	Recovered Oil Analysis - Total Percent Water (ASTM D-95)	
Aq/Solid		TPH Extractable Hydrocarbon (Carbon Chain Speciation) with Silica gel Clean up	
Aq/Solid	40CFR136	Oil & Grease, Total, 40CFR136, Normal Turnaround	
Aq/Solid	ASTM D445	Viscosity in Oil	
Aq/Solid	ASTM D1475	Density in Oil	

**Table 1 Bid Costing  
BNSF Request For Bid**

MATRIX	METHOD	DESCRIPTION	RATE
<b>Volatile Organic Compunds</b>			
Aq/Solid	SW 8260/8240/E624	Volatile Organics, Method 8260/8240/E624, Normal Turnaround	
Aq/Solid	SW 8010/8021/E601	Purgeable Halogenated Volatiles, Method SW8010/8021/E601, Normal Turnaround	
Aq/Solid	SW 8015	Turnaround	
Aq/Solid	SW 8020/8021/E602	Turnaround	
Aq/Solid	SW 8021/ SW 8010/8020/ E601/E602	Purgeable Organics, (Method SW8010/8020, SW8021, E601/602, Normal Turnaround	
Aq/Solid	SW 3820	Turnaround	
Aq/Solid	MDH 465C	Volatile Organics, Method 456C Minnesota Department of Health, Normal Turnaround	
Aq/Solid	SW 8260	1,4 Dioxane, Method SW8260, Normal Turnaround	
Aq/Solid	RSK 175	GC-FID for methane, ethane, and propane on water samples	
Aq/Solid	SW 8015	Organics - Glycol, (Method 8015 Modified)	
Aq/Solid	SW 8015	Organics - Methanol (Method 8015 Modified)	
Aq/Solid		Laboratory Analysis - Methane, Ethane, Ethene (Kerr Method)	

**Semivolatile Organic Compounds**

Aq/Solid	SW 8270/E625	Turnaround	
Aq/Solid	SW 8270	Polynuclear Aromatic Hydrocarbons, Method SW8270, Normal Turnaround	
Aq/Solid	SW 8270SIM	Polynuclear Aromatic Hydrocarbons with Selective ion monitoring, Method SW8270SIM, Normal Turnaround	
Aq/Solid	SW 8270 modified	Low level 1,4 Dioxane, modified Method SW8270, Normal Turnaround	
Aq/Solid	SW 8030/8031/8032/8033	Organics - Acrolein, Acrylonitrile, Acetonitrile - Soil/Waste (Method 8030/8031/8032/8033), Normal Turnaround	
Aq/Solid	SW 8040/8041/E604	Phenols, Method 8040/8041/E604, Normal Turnaround	
Aq/Solid	SW 8060/8061/E606	Phthalate Esters, Method SW 8060/8061/E606, Normal Turnaround	
Aq/Solid	SW 8090/8091/E609	Nitro-Aromatic and Cyclic Ketones, Method SW8090/8091/E609, Normal Turnaround	
Aq/Solid	SW 8100/E610	Polynuclear Aromatic Hydrocarbons, Method 8100/E610, Normal Turnaround	
Aq/Solid	SW 8310	Turnaround	
Aq/Solid	SW 8110/8111/E611	Haloethers, Method SW8110/8111/E611, Normal Turnaround	
Aq/Solid	SW 8120/8121/E612	Turnaround	
Aq/Solid	SW 8280	Dioxins & Furans, Method 8280, Normal Turnaround	
Aq/Solid	SW 9065	Phenols, Method SW9065, Normal Turnaround	
Aq/Solid	E 420.2	Phenols, Method E420.2, Normal Turnaround	
Aq/Solid	GPC Cleanup	GPC, Method GPC cleanup, Normal Turnaround	
Aq/Solid	SW 8290	Dioxins & Furans, Method 8290, Normal Turnaround	
Aq/Solid	SW 8290	Low Mass Solids - 2,3,7,8-Substituted PCDD/PCDF by SW-8290	
Aq/Solid	E 1668	Low Mass Solids, Coplanar Polychlorinated Biphenyls by Modified EPA Method 1668	
Aq/Solid	SW 8270C	Organics - Semivolatile - "extended list" test (Method 8270C)	
Aq/Solid		Diamine	
Aq/Solid		Organics-Disodium Iminodiacetate, Normal Turnaround (10 days) - Method STL SOP	

**Table 1 Bid Costing  
BNSF Request For Bid**

MATRIX	METHOD	DESCRIPTION	RATE
--------	--------	-------------	------

**Metals**

Aq/Solid	SW 6010	Metals, ICP/ICP Trace, Preparation and analysis of one metal, Method SW6010, Normal Turnaround	
Aq/Solid	SW 6010	Metals, ICP/ICP Trace, Unit cost for preparation and analysis of each additional metal, Method SW6010, Normal Turnaround	
Aq/Solid	SW 6020	Metals, ICP/MS, Preparation and analysis of one metal, Method SW6020, Normal Turnaround	
Aq/Solid	SW 6020	Metals, ICP/MS, Unit cost for preparation and analysis of each additional metal, Method SW6020, Normal Turnaround	
Aq/Solid	SW 7000	Metals, AA, Furnace Technique, Preparation and analysis of one metal, Method SW7000, Normal Turnaround	
Aq/Solid	SW 7000	Metals, AA, Direct Aspiration, Preparation and analysis of one metal, Method SW7000, Normal Turnaround	
Aq/Solid	SW 7000	Metals, AA, Gaseous Hydride, Preparation and analysis of one metal, Method SW7000, Normal Turnaround	
Aq/Solid	SW 7195/7196/7197	Chromium VI, Preparation and analysis of one metal, Method SW7195/7196/7197, Normal Turnaround	
Aq/Solid	SW 7470/7471	Mercury, Preparation and analysis of one metal, Method SW7470/7471, Normal Turnaround	
Aq/Solid	ASTM D-3237	Lead, Organo, Normal Turnaround	
Aq/Solid	SW 6010	Metals, California Title 22, Method W6010/SW7000 series, Normal Turnaround	
Aq/Solid	SW 6010	Turnaround	
Aq/Solid	SW 6010	Metals, Priority Pollutant, Method W6010/SW7000 series, Normal Turnaround	

**Pesticide/Herbicide**

Aq/Solid	SW 8080/8081/E608	Organochlorine Pesticides and PCB's, Method SW8080/8081/E608, Normal Turnaround	
Aq/Solid	SW 8140/8141/E614	Organophosphorous Pesticides, Method SW8140/8141/E614, Normal Turnaround	
Aq/Solid	SW 8150/8151	Chlorinated Herbicides, Method SW8150/8151, Normal Turnaround	
Aq/Solid	E 619	Triazine Pesticides, Method 619, Normal Turnaround	
Aq/Solid	E 622	Organophosphorous Pesticides, Method 622, Normal Turnaround	
Aq/Solid	SW 8082	PCB's Method SW8082, Normal Turnaround	

**Haz Waste Characteristic Tests**

Aq/Solid	SW1010/1020/40CFR261.21	Ignitability, RCRA / CERCLA, 40CFR261.21, Method 1010 or 1020, Normal Turnaround	
Aq/Solid	SW 9040/ 40CFR261.22	Corrosivity (pH), RCRA / CERCLA, 40CFR261.22, Method 9040, Normal Turnaround	
Aq/Solid	SW 1110/ 40CFR261.22	Corrosivity(Steel), RCRA / CERCLA, 40CFR261.22, Method 1110, Normal Turnaround	
Aq/Solid	SW 9010/ 40CFR261.23	Reactivity(Cyanides), RCRA / CERCLA, 40CFR261.23, Method 9010, Normal Turnaround	
Aq/Solid	SW 9030/ 40CFR261.23	Reactivity(Sulfides), RCRA / CERCLA, 40CFR261.23, Method 9030, Normal Turnaround	
Aq/Solid	RCRA	RCRA Waste Characterization, Total RCRA Characterization, Methods SW8240, 8270, 8080, 8150, 6010/7000, Normal Turnaround	

**Table 1 Bid Costing  
BNSF Request For Bid**

MATRIX	METHOD	DESCRIPTION	RATE
Aq/Solid	Title 26 STLC	California Toxicity Characterization, Waste Extraction Test for analysis of metals, semivol., pest., and herb., leaching procedure only, Method California Title 26, Normal Turnaround	
Aq/Solid	Title 26 DI STLC	California Toxicity Characterization, Deionized Waste Water Extraction Test for analysis of metals, semivol., pest., and herb., leaching procedure only, Method California Title 26, Normal Turnaround	
Aq/Solid	SW 1311	<b>TCLP only for analysis of metal, semivol., pest., and herb. Compounds.</b>	
Aq/Solid	SW 1311	<b>TCLP only by zero headspace extraction for analysis of volatile compounds.</b>	
Aq/Solid	SW 1312	Procedure	

**General Chemistry**

Aq/Solid	SM 2710-F	Soil density test	
Aq/Solid	40CFR136/405.1	<b>Biochemical Oxygen Demand-5 Day, 40CFR136/405.1, Normal Turnaround</b>	
Aq/Solid	40CFR136/EPA 410	<b>Chemical Oxygen Demand, 40CFR136/E 410, Normal Turnaround</b>	
Aq/Solid	40CFR136/415.1/415.2/SW 9060	Total Organic Carbon, Method 40CFR136/415.1/415.2/SW 9060, Normal Turnaround	
Aq/Solid	40CFR136/160.3	Total Solids, 40CFR136/160.3, Normal Turnaround	
Aq/Solid	40CFR136/160.2	Total Suspended Solids, 40CFR136/160.2, Normal Turnaround	
Aq/Solid	40CFR136/160.1	Total Dissolved Solids, 40CFR136/160.1, Normal Turnaround	
Aq/Solid	40CFR136/160.5	Total Fixed Solids, 40CFR136/160.5, Normal Turnaround	
Aq/Solid	40CFR136/160.4	Total Volatile Solids, 40CFR136/160.4, Normal Turnaround	
Aq/Solid	40CFR136/335.2/SW 9010	<b>Cyanide, Total, 40CFR136/335.2/SW 9010, Normal Turnaround</b>	
Aq/Solid	40CFR136/340.1	Fluoride, Total, 40CFR136/340.1, Normal Turnaround	
Aq/Solid	40CFR136/365.1	<b>Phosphorus, Total, 40CFR136/365.1, Normal Turnaround</b>	
Aq/Solid	SM 2710-F	Specific Gravity, Sludge, SM 2710-F, Normal Turnaround	
Aq/Solid	SW 9020	Organic Halides (TOX), Total, Method 9020, Normal Turnaround	
Aq/Solid	SW 9095	TCLP Free Liquids (paint filter), Method 9095, Normal Turnaround	
Aq/Solid	SM 4500	Nitrogen, Organic	
Aq/Solid	Moisture	Percent Moisture, Karl Fisher, Normal Turnaround	
Aq/Solid	EPA 150.1/150.2 SW 9040/9050	<b>pH, Method EPA 150.1/150.2/ SW 9040/9050, Normal Turnaround</b>	
Aq/Solid	SW 9200/E353.2	Nitrate Nitrite, Method SW9200/E353.2, Normal Turnaround	
Aq/Solid	EPA 351.3	<b>Kjeldahl Nitrogen, Method EPA 351.3, Normal Turnaround</b>	
Aq/Solid	EPA 350.1/350.2	Nitrogen & Ammonia, Method EPA 350.1/350.2, Normal Turnaround	
Aq/Solid	EPA 375.1/SW 9035	Sulfate, Method EPA 375.1/SW 9035, Normal Turnaround	
Aq/Solid	EPA 310.1	Alkalinity, Total, Method EPA 310.1, Normal Turnaround	
Aq/Solid	EPA 310.2	Carbonate/Bicarbonate, Method EPA 310.2, Normal Turnaround	
Aq/Solid	EPA 110.1/110.2	Color, Method EPA 110.1/110.2, Normal Turnaround	
Aq/Solid	EPA 120.1/SW 9050	Conductivity, Method EPA 120.1/SW 9050, Normal Turnaround	
Aq/Solid	EPA 130.2	Hardness, Method EPA 130.2, Normal Turnaround	
Aq/Solid	EPA 300/SW 9056	<b>Anions, Chloride, Sulfate, etc., Method EPA 300.0/SW 9056, Normal Turnaround</b>	
Aq/Solid	EPA 600	Turnaround	
Aq/Solid	EPA 600	Turnaround	
Aq/Solid	EPA 376.2/SW 9035	Sulfide, Total	
Aq/Solid	Moisture Content	Moisture Content Measurements	

**Table 1 Bid Costing  
BNSF Request For Bid**

MATRIX	METHOD	DESCRIPTION	RATE
Aq/Solid		Water and Wastewater Analysis - Bottoms, Solids and water	
Aq/Solid	SM 2540 F	Settleable Matter - Settleable solids in water	
Aq/Solid	SM 2340/E 200.7	Hardness - determination by adding Ca & Mg concentrations by method SM 2340 / E 200.7	
Aq/Solid	SM 3500	Ferrous Iron, Method SM 3500-Fe D	
Aq/Solid	EPA 325.2/SW 9251	Chloride, Colorimetric Automated Ferricyanide AAII, using Technicon Autoanalyzer E 32.2/SW 9251	
Aq/Solid	ASTM	BTU, measure of heat of combustion in calories	
Aq/Solid	SM 4500C	Analytical Testing - Aqueous - Carbon Dioxide - Method SM 4500C	
Aq/Solid	E300/SW 9056	Laboratory Analysis - Chloride (Method EPA 300/SW 9056)	
Aq/Solid	SM 9012A	Low Mass Solids Amenable Cyanide by Method No. 9012A	

**Bioassay/Bacteriological**

Aqueous	EPA 600	Ceriodaphnia, Acute, EPA 600/4-85/013, Normal Turnaround	
Aqueous	EPA 600	Ceriodaphnia, Toxic, EPA 600/4-85/013, Normal Turnaround	
Aqueous	EPA 600	Pimephales Promelus, Acute, EPA 600/4-85/013, Normal Turnaround	
Aqueous	EPA 600	Pimephales Promelus, Toxic, EPA 600/4-85/013, Normal Turnaround	
Aqueous	EPA 600	Ceriodaphnia, Sing. Dilution, EPA 600/4-85/013, Normal Turnaround	
Aqueous	EPA 600	Turnaround	
Aqueous		Heterotrophic Plate Count - non specific	
Aqueous	SM 9215	Heterotrophic Plate Count, Method SM9215, Total Bacterial and Fungal Growth	
Aqueous	SM 9222D	Fecal Coliforms, membrane filter procedure	
Aqueous	SM 9221E	Fecal Coliforms procedure	

**Air Analysis**

Vapor	TO-14	Turnaround	
Vapor	E 18	Volatile Organic Compounds by GC, Method E18, Normal Turnaround	
Vapor	NIOSH 7903	Hydrochloric Acid, Method NIOSH 7903, Normal Turnaround	
Vapor	Service	Summa Cannister Rental for Method TO-14 or E18	
Vapor	Service	Tedlar Bag for Method TO-14 or E18	
Vapor	NIOSH 7300	Vapor Lead Analysis by NIOSH Method 7300	

**Radiation**

Aq/Solid	Method 900	Analytical Testing - Aqueous - Method 900 - gross beta radiation	
Aq/Solid	Method 900/EERF	Analytical Testing - Aqueous - Method 900 or EERF 00.02 - gross alpha radiation	
Aq/Solid	Method 903/904	Analytical Testing - Aqueous - Method 903 or EPA 904 - Total radium, isotopes 226 & 228	
Aq/Solid	Method 913/SM 4500	Analytical Testing - Aqueous - Method 913 or SM 4500-RN,B - radon	

Table 1 Bid Costing  
BNSF Request For Bid

MATRIX	METHOD	DESCRIPTION	RATE
<b>Miscellaneous</b>			
Services		Markup, Subcontract work or equipment, Contractor's markup to be applied to Service Item No. 5631230	
Services		Subcontracted work or equipment, Contractor's actual cost, Markup to be applied to Service Item No. 5630194	
All	Rush	Expedited Handling Charge - 5 working day turnaround	20%
All	Rush	Expedited Handling Charge - 72 hour turnaround	60%
All	Rush	Expedited Handling Charge - 24 to 48 hour RUSH turnaround	75%
All	Rush	Expedited Handling Charge - Less than 24 hours Rush turnaround	100%
All	CLP	Deliverable	20%
All	Service	8270	
All	5035	Encore Sampling Kit Method 5035	
All	5035	Powertop Sampling Kit Method 5035	

**Bolding** indicates a Core Analysis.



**CHAIN OF CUSTODY RECORD**

**2002-02-0395**

Project Name: <i>65th &amp; 66th</i>				<b>Turnaround Requirements</b> <input type="checkbox"/> 5 Working Days <input type="checkbox"/> 48 Hours <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 2-3 Hours RUSH <input type="checkbox"/> _____ <i>3.6°</i>		<b>ANALYSES REQUESTED</b> <i>64843</i>										
Job No.: <i>1424-4B</i>						TPH as gas/BTEX/MTBE (8015/8020)	TPH as diesel (8015M) silica gel column	TRPH (418.1) silica gel column	Halogenated VOCs (8010) (8021 or 8260)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M (Purgeable and Extractable)	Remarks
Report To: <i>Mark Arriola</i>																
Sampler (print): <i>Veronica Tiglao</i>																
Sampler (signature): <i>[Signature]</i>																
QC Requirement: <input checked="" type="checkbox"/> Level A (standard)																
Sample I.D.	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.											
<del>FB-25</del> <i>FB-25</i>	<del>02/21/02</del> <i>02/21/02</i>	<del>17:00</del> <i>17:00</i>		<i>Soil</i>	<i>1</i>									<i>HOLD</i>		
<del>FB-25</del> <i>FB-25</i>	<del>02/21/02</del> <i>02/21/02</i>	<del>17:00</del> <i>17:00</i>		<del>Water</del> <i>Water</i>	<i>8</i>	<i>XX</i>								<i>FILTER</i>		
<b>RUSH</b>																
Relinquished By: <i>[Signature]</i>				Date: <i>2/22/02</i> Time: <i>1302</i>		Received By: <i>[Signature]</i>				Date: <i>2/22/02</i> Time: <i>1301</i>		PM Initial:				
Relinquished By: <i>[Signature]</i>				Date: <i>2/22/02</i> Time: <i>1401</i>		Received By:				Date: Time:		Temp:				
Relinquished By:				Date: Time:		Lab of Record:				Received by Lab: <i>[Signature]</i>		Date: <i>02/22/02</i> Time: <i>1410</i>				

Submission #: 2002-02-0396

Date: February 27, 2002



**Lowney & Associates Oakland**

167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-4B  
65th & 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mr. Arniola,

Attached is our report for your samples received on Friday February 22, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
April 8, 2002 unless you have requested otherwise.

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

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

Sincerely,

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

Vincent Vancil  
Project Manager

Submission #: 2002-02-0396

Gas/BTEXFuel Oxygenates by 8260B



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 65th & 66th St.

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB-26@7'-7.5'	Soil	02/22/2002 09:00	2
EB-27@18.5-19'	Soil	02/22/2002 10:30	6

Submission #: 2002-02-0396



Gas/BTEXFuel Oxygenates by 8260B

Lowney & Associates Oakland

Test Method: 8260FAB

Attn: Mark Arniola

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: **EB-26@7-7.5'** Lab Sample ID: 2002-02-0396-002  
Project: 1424-4B Received: 02/22/2002 14:10  
65th & 66th St.  
Extracted: 02/26/2002 15:41  
Sampled: 02/22/2002 09:00 QC-Batch: 2002/02/26-02.27  
Matrix: Soil  
Sample/Analysis Flag: o ( See Legend & Note section )

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	2800	1000	ug/Kg	2.33	02/26/2002 15:41	
Benzene	ND	12	ug/Kg	2.33	02/26/2002 15:41	
Toluene	ND	12	ug/Kg	2.33	02/26/2002 15:41	
Ethyl benzene	ND	12	ug/Kg	2.33	02/26/2002 15:41	
Total xylenes	ND	12	ug/Kg	2.33	02/26/2002 15:41	
Methyl tert-butyl ether (MTBE)	ND	12	ug/Kg	2.33	02/26/2002 15:41	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	109.4	70-121	%	2.33	02/26/2002 15:41	
Toluene-d8	105.3	81-117	%	2.33	02/26/2002 15:41	

Submission #: 2002-02-0396



Gas/BTEXFuel Oxygenates by 8260B

Lowney & Associates Oakland

Test Method: 8260FAB

Attn: Mark Amiola

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: EB-27@18.5-19'	Lab Sample ID: 2002-02-0396-006
Project: 1424-4B 65th & 66th St.	Received: 02/22/2002 14:10
Sampled: 02/22/2002 10:30	Extracted: 02/26/2002 16:06
Matrix: Soil	QC-Batch: 2002/02/26-02.27

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	02/26/2002 16:06	
Benzene	ND	5.0	ug/Kg	1.00	02/26/2002 16:06	
Toluene	ND	5.0	ug/Kg	1.00	02/26/2002 16:06	
Ethyl benzene	ND	5.0	ug/Kg	1.00	02/26/2002 16:06	
Total xylenes	ND	5.0	ug/Kg	1.00	02/26/2002 16:06	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	02/26/2002 16:06	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	110.8	70-121	%	1.00	02/26/2002 16:06	
Toluene-d8	103.7	81-117	%	1.00	02/26/2002 16:06	





Gas/BTEXFuel Oxygenates by 8260B

Batch QC report

Test Method: 8260FAB

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/02/26-02.27**  
 LCS: 2002/02/26-02.27-010 Extracted: 02/26/2002 13:57 Analyzed: 02/26/2002 13:57  
 LCSD: 2002/02/26-02.27-011 Extracted: 02/26/2002 14:21 Analyzed: 02/26/2002 14:21

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

CA DHS ELAP#1094

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery		RPD	Ctrl.Limits [%]			Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS	LCSD
Benzene	43.8	44.2	50.0	50.0	87.6	88.4	0.9	69-129	20			
Toluene	45.2	46.7	50.0	50.0	90.4	93.4	3.3	70-130	20			
Methyl tert-butyl ether	47.5	43.0	50.0	50.0	95.0	86.0	9.9	65-165	20			
<b>Surrogate(s)</b>												
1,2-Dichloroethane-d4	531	496	500	500	106.2	99.2		70-121				
Toluene-d8	511	515	500	500	102.2	103.0		81-117				

Submission #: 2002-02-0396



Gas/BTEXFuel Oxygenates by 8260B

**Legend & Notes**

Test Method: 8260FAB

Prep Method: 5030B

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)  
[www.chromalab.com](http://www.chromalab.com)

**Analysis Flags**

o

Reporting limits were raised due to high level of analyte present in the sample.

CA DHS ELAP#1094



Submission #: 2002-02-0396



Gas/BTEXFuel Oxygenates by 8260B

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 65th & 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB-26	Water	02/22/2002 09:30	1
EB-27	Water	02/22/2002 10:30	4



Submission #: 2002-02-0396



Gas/BTEXFuel Oxygenates by 8260B

Lowney & Associates Oakland

Test Method: 8260FAB

Attn: Mark Arniola

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Sample ID: <b>EB-27</b>	Lab Sample ID: 2002-02-0396-004
Project: 1424-4B 65th & 66th St.	Received: 02/22/2002 14:10
Sampled: 02/22/2002 10:30	Extracted: 02/25/2002 14:06
Matrix: Water	QC-Batch: 2002/02/25-01.27

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/25/2002 14:06	
Benzene	ND	0.50	ug/L	1.00	02/25/2002 14:06	
Toluene	ND	0.50	ug/L	1.00	02/25/2002 14:06	
Ethylbenzene	ND	0.50	ug/L	1.00	02/25/2002 14:06	
Total xylenes	ND	1.0	ug/L	1.00	02/25/2002 14:06	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	02/25/2002 14:06	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	101.2	76-114	%	1.00	02/25/2002 14:06	
Toluene-d8	100.1	88-110	%	1.00	02/25/2002 14:06	



Gas/BTEXFuel Oxygenates by 8260B

**Batch QC report**

Test Method: 8260FAB

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/02/25-01.27**  
 LCS: 2002/02/25-01.27-004 Extracted: 02/25/2002 11:17 Analyzed: 02/25/2002 11:17  
 LCSD: 2002/02/25-01.27-005 Extracted: 02/25/2002 11:44 Analyzed: 02/25/2002 11:44

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

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]			Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD	
Benzene	21.2	21.2	25.0	25.0	84.8	84.8	0.0	69-129	20			
Toluene	22.6	22.9	25.0	25.0	90.4	91.6	1.3	70-130	20			
Methyl tert-butyl ether	23.6	21.9	25.0	25.0	94.4	87.6	7.5	65-165	20			
<b>Surrogate(s)</b>												
1,2-Dichloroethane-d4	522	497	500	500	104.4	99.4		76-114				
Toluene-d8	506	507	500	500	101.2	101.4		88-110				

Submission #: 2002-02-0396

Gas/BTEXFuel Oxygenates by 8260B

**Legend & Notes**

Test Method: 8260FAB

Prep Method: 5030B

**Analysis Flags**

rl

Reporting limits raised due to reduced sample size.



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)  
[www.chromalab.com](http://www.chromalab.com)

CA DHS ELAP#1094



TEPH w/ Silica Gel Clean-up

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 65th & 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB-26	Water	02/22/2002 09:30	1
EB-26@7'-7.5'	Soil	02/22/2002 09:00	2
EB-27	Water	02/22/2002 10:30	4
EB-27@18.5-19'	Soil	02/22/2002 10:30	6

Submission #: 2002-02-0396



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: <b>EB-26</b>	Lab Sample ID: 2002-02-0396-001
Project: 1424-4B 65th & 66th St.	Received: 02/22/2002 14:10
Sampled: 02/22/2002 09:30	Extracted: 02/22/2002 11:45
Matrix: Water	QC-Batch: 2002/02/22-03.10
Sample/Analysis Flag: rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	250	ug/L	5.00	02/25/2002 08:42	ndp
Motor Oil	ND	2500	ug/L	5.00	02/25/2002 08:42	
<b>Surrogate(s)</b>						
o-Terphenyl	141.7	60-130	%	5.00	02/25/2002 08:42	sh



Submission #: 2002-02-0396



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M  
3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: EB-26@7'-7.5'	Lab Sample ID: 2002-02-0396-002
Project: 1424-4B 65th & 66th St.	Received: 02/22/2002 14:10
Sampled: 02/22/2002 09:00	Extracted: 02/22/2002 13:48
Matrix: Soil	QC-Batch: 2002/02/22-04.10

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	3.9	1.0	mg/Kg	1.00	02/25/2002 04:21	ndp
Motor Oil	ND	50	mg/Kg	1.00	02/25/2002 04:21	
<b>Surrogate(s)</b>						
o-Terphenyl	71.9	60-130	%	1.00	02/25/2002 04:21	

Submission #: 2002-02-0396



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>EB-27</b>	Lab Sample ID: 2002-02-0396-004
Project: 1424-4B 65th & 66th St.	Received: 02/22/2002 14:10
Sampled: 02/22/2002 10:30	Extracted: 02/22/2002 11:45
Matrix: Water	QC-Batch: 2002/02/22-03.10
Sample/Analysis Flag: ri ( See Legend & Note section )	

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	91	ug/L	1.82	02/25/2002 09:21	
Motor Oil	ND	910	ug/L	1.82	02/25/2002 09:21	
<b>Surrogate(s)</b> o-Terphenyl	37.4	60-130	%	1.82	02/25/2002 09:21	sl

Submission #: 2002-02-0396



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3550/8015M  
3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>EB-27@18.5-19</b>	Lab Sample ID: 2002-02-0396-006
Project: 1424-4B 65th & 66th St.	Received: 02/22/2002 14:10
Sampled: 02/22/2002 10:30	Extracted: 02/22/2002 13:48
Matrix: Soil	QC-Batch: 2002/02/22-04.10

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	02/25/2002 03:43	
Motor Oil	ND	50	mg/Kg	1.00	02/25/2002 03:43	
<b>Surrogate(s)</b>						
o-Terphenyl	89.4	60-130	%	1.00	02/25/2002 03:43	





Submission #: 2002-02-0396



TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/02/22-03.10**  
 LCS: 2002/02/22-03.10-002    Extracted: 02/22/2002 11:45    Analyzed: 02/22/2002 17:52  
 LCSD: 2002/02/22-03.10-003    Extracted: 02/22/2002 11:45    Analyzed: 02/22/2002 18:29

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

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Diesel <b>Surrogate(s)</b>	1040	1010	1250	1250	83.2	80.8	2.9	60-130	25		
o-Terphenyl	20.5	19.9	20.0	20.0	102.6	99.4		60-130	0		

Submission #: 2002-02-0396



TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/02/22-04.10  
LCS: 2002/02/22-04.10-002 Extracted: 02/22/2002 13:48 Analyzed: 02/25/2002 04:04  
LCSD: 2002/02/22-04.10-003 Extracted: 02/22/2002 13:48 Analyzed: 02/25/2002 04:44

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

CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recover	RPD	LCS	LCSD
Diesel	35.9	34.5	41.7	41.7	86.1	82.7	4.0	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	19.6	19.6	20.0	20.0	98.2	98.2		60-130	0		



TEPH w/ Silica Gel Clean-up

**Legend & Notes**

Test Method: 8015M

Prep Method: 3510/8015M  
3550/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Analysis Flags**

rl

Reporting limits raised due to reduced sample size.

**Analyte Flags**

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

**Analyte Flags**

sh

Surrogate recovery was higher than QC limit due to matrix interference.

**Analyte Flags**

sl

Surrogate recoveries were lower than QC limit due to matrix interference, confirmed by reanalysis.



**2002-02-0370**

64860

**CHAIN OF CUSTODY RECORD**

Project Name: 65th & 66th St

Job No.: 1424-4B

Report To: Mark Arnida

Sampler (print): Veronica Tidao

Sampler (signature): [Signature]

QC Requirement:  Level A (standard)

**Turnaround Requirements**

- 5 Working Days
- 48 Hours
- 24 Hours
- 2-3 Hours RUSH

3.6°

**ANALYSES REQUESTED**

64843

Sample I.D.	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	TPH as gas/BTEX/MTBE (8015/8020)	TPH as diesel (8015M) in water or silica gel column	TRPH (418.1) silica gel column	Halogenated VOCs (8010) (8021 or 8260)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M (Purgeable and Extractable)	Remarks
EB-26	02/22/02	9:30		Water	8	X	X									Filter
EB-26 @ 7'-7 1/2'		9:00		Soil	1	X	X									HOLD
EB-26 @ 20'-22 1/2'		9:30		Soil	1											HOLD
EB-27		10:30		Water	8	X	X									Filter
EB-27 @ 15'-15 1/2'		10:30		Soil	1											HOLD
EB-27 @ 18 1/2'-19'		10:30		Soil	1	X	X									HOLD
EB-19		11:30		Water	2	X	X									filter

**RUSH**

Filter water samples, VOCs unpreserved

Relinquished By: <u>[Signature]</u>	Date: <u>2/22/02</u> Time: <u>1302</u>	Received By: <u>[Signature]</u>	Date: <u>2/22/02</u> Time: <u>1302</u>	PM Initial:
Relinquished By: <u>[Signature]</u>	Date: <u>2/22/02</u> Time: <u>1401</u>	Received By:	Date: <u>2/22/02</u> Time:	Temp:
Relinquished By:	Date: Time:	Lab of Record:	Received by Lab: <u>[Signature]</u> Date: <u>02/22/02</u> Time: <u>1410</u>	

Vince & Sample Control

Mark Amiola called howney

Sample we picked up today Two samples were placed

on "hold" Need to Run for TPH gas / BTEX, Diesel/mo

{ EB-26 @ 7-7.5' }  
{ EB-27 @ 15-15.5' } were placed on hold on  
COC

But please Run for 24hrs Rush

also on those two samples

Thanky  
Shiden

**RUSH**

02-02-0395

Submission #: 2002-03-0005

Date: March 8, 2002



**Lowney & Associates Oakland**

167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-4B  
65th & 66th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mr. Arniola,

Attached is our report for your samples received on Thursday February 28, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
April 14, 2002 unless you have requested otherwise.  
We appreciate the opportunity to be of service to you. If you have any questions,  
please call me at (925) 484-1919.  
You can also contact me via email. My email address is: [vvancil@chromalab.com](mailto:vvancil@chromalab.com)

Sincerely,

A handwritten signature in black ink, appearing to read "V. Vancil", with a large, sweeping flourish extending to the right.

Vincent Vancil  
Project Manager

**RECEIVED**

MAR 14 2002

**LOWNEY, OK**

Submission #: 2002-03-0005

Halogenated Volatile Organic Compounds by 8021



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 65th & 66th St.

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
T-1	Water	02/28/2002 15:30	1

## Halogenated Volatile Organic Compounds by 8021

Lowney &amp; Associates Oakland

Test Method: 8021B

Attn: Mark Arniola

Prep Method: 5030B

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

Sample ID: T-1	Lab Sample ID: 2002-03-0005-001
Project: 1424-4B 65th & 66th St.	Received: 02/28/2002 17:10
Sampled: 02/28/2002 15:30	Extracted: 03/05/2002 15:54
Matrix: Water	QC-Batch: 2002/03/05-01.26

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	03/05/2002 15:54	
Vinyl chloride	ND	0.50	ug/L	1.00	03/05/2002 15:54	
Chloroethane	ND	0.50	ug/L	1.00	03/05/2002 15:54	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	03/05/2002 15:54	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	03/05/2002 15:54	
Methylene chloride	ND	5.0	ug/L	1.00	03/05/2002 15:54	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/05/2002 15:54	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/05/2002 15:54	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	03/05/2002 15:54	
Chloroform	ND	0.50	ug/L	1.00	03/05/2002 15:54	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	03/05/2002 15:54	
Carbon tetrachloride	ND	0.50	ug/L	1.00	03/05/2002 15:54	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	03/05/2002 15:54	
Trichloroethene	ND	0.50	ug/L	1.00	03/05/2002 15:54	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	03/05/2002 15:54	
Bromodichloromethane	ND	0.50	ug/L	1.00	03/05/2002 15:54	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	03/05/2002 15:54	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/05/2002 15:54	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/05/2002 15:54	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	03/05/2002 15:54	
Tetrachloroethene	ND	0.50	ug/L	1.00	03/05/2002 15:54	
Dibromochloromethane	ND	0.50	ug/L	1.00	03/05/2002 15:54	
Chlorobenzene	ND	0.50	ug/L	1.00	03/05/2002 15:54	
Bromoform	ND	2.0	ug/L	1.00	03/05/2002 15:54	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/05/2002 15:54	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	03/05/2002 15:54	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	03/05/2002 15:54	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	03/05/2002 15:54	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	03/05/2002 15:54	
Chloromethane	ND	1.0	ug/L	1.00	03/05/2002 15:54	
Bromomethane	ND	1.0	ug/L	1.00	03/05/2002 15:54	
<b>Surrogate(s)</b>						
1-Chloro-2-fluorobenzene	100.6	70-130	%	1.00	03/05/2002 15:54	



Halogenated Volatile Organic Compounds by 8021

Batch QC report

Test Method: 8021B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2002/03/05-01.26</b>
MB: 2002/03/05-01.26-004		Date Extracted: 03/05/2002 12:14

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	03/05/2002 12:14	
Vinyl chloride	ND	0.5	ug/L	03/05/2002 12:14	
Chloroethane	ND	0.5	ug/L	03/05/2002 12:14	
Trichlorofluoromethane	ND	0.5	ug/L	03/05/2002 12:14	
1,1-Dichloroethene	ND	0.5	ug/L	03/05/2002 12:14	
Methylene chloride	ND	5.0	ug/L	03/05/2002 12:14	
trans-1,2-Dichloroethene	ND	0.5	ug/L	03/05/2002 12:14	
cis-1,2-Dichloroethene	ND	0.5	ug/L	03/05/2002 12:14	
1,1-Dichloroethane	ND	0.5	ug/L	03/05/2002 12:14	
Chloroform	ND	0.5	ug/L	03/05/2002 12:14	
1,1,1-Trichloroethane	ND	0.5	ug/L	03/05/2002 12:14	
Carbon tetrachloride	ND	0.5	ug/L	03/05/2002 12:14	
1,2-Dichloroethane	ND	0.5	ug/L	03/05/2002 12:14	
Trichloroethene	ND	0.5	ug/L	03/05/2002 12:14	
1,2-Dichloropropane	ND	0.5	ug/L	03/05/2002 12:14	
Bromodichloromethane	ND	0.5	ug/L	03/05/2002 12:14	
2-Chloroethylvinyl ether	ND	0.5	ug/L	03/05/2002 12:14	
trans-1,3-Dichloropropene	ND	0.5	ug/L	03/05/2002 12:14	
cis-1,3-Dichloropropene	ND	0.5	ug/L	03/05/2002 12:14	
1,1,2-Trichloroethane	ND	0.5	ug/L	03/05/2002 12:14	
Tetrachloroethene	ND	0.5	ug/L	03/05/2002 12:14	
Dibromochloromethane	ND	0.5	ug/L	03/05/2002 12:14	
Chlorobenzene	ND	0.5	ug/L	03/05/2002 12:14	
Bromoform	ND	2.0	ug/L	03/05/2002 12:14	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	03/05/2002 12:14	
1,3-Dichlorobenzene	ND	0.5	ug/L	03/05/2002 12:14	
1,4-Dichlorobenzene	ND	0.5	ug/L	03/05/2002 12:14	
1,2-Dichlorobenzene	ND	0.5	ug/L	03/05/2002 12:14	
Trichlorotrifluoroethane	ND	0.5	ug/L	03/05/2002 12:14	
Chloromethane	ND	1.0	ug/L	03/05/2002 12:14	
Bromomethane	ND	1.0	ug/L	03/05/2002 12:14	
<b>Surrogate(s)</b>					
1-Chloro-2-fluorobenzene	102.8	70-130	%	03/05/2002 12:14	

Halogenated Volatile Organic Compounds by 8021

Batch QC report

Test Method: 8021B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/03/05-01.26**  
 LCS: 2002/03/05-01.26-002 Extracted: 03/05/2002 10:46 Analyzed: 03/05/2002 10:46  
 LCSD: 2002/03/05-01.26-003 Extracted: 03/05/2002 11:30 Analyzed: 03/05/2002 11:30

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

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
1,1-Dichloroethene	20.6	21.4	20.0	20.0	103.0	107.0	3.8	70-130	20		
Trichloroethene	21.8	22.9	20.0	20.0	109.0	114.5	4.9	70-130	20		
Chlorobenzene	20.9	22.2	20.0	20.0	104.5	111.0	6.0	70-130	20		
<b>Surrogate(s)</b>											
1-Chloro-2-fluorobenz	22.3	22.9	20	20	111.5	114.5		70-130			

Submission #: 2002-03-0005



Halogenated Volatile Organic Compounds by 8021

Batch QC Report

Test Method: 8021B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

<b>Matrix Spike ( MS / MSD )</b>	<b>Water</b>	<b>QC Batch # 2002/03/05-01.26</b>
Sample ID: T-1 >> MS		Lab ID: 2002-03-0005-001
MS: 2002/03/05-01.26-010	Extracted: 03/05/2002 16:38	Analyzed: 03/05/2002 16:38
		Dilution: 1
MSD: 2002/03/05-01.26-011	Extracted: 03/05/2002 17:22	Analyzed: 03/05/2002 17:22
		Dilution: 1

Compound	Conc. [ug/L]			Exp. Conc. [ug/L] Recovery [%]				RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		[%]	Recovery	RPD	MS
1,1-Dichloroethen	20.8	19.8	ND	20.0	20.0	104.	99.0	4.9	70-130	20		
Trichloroethene	23.6	22.7	ND	20.0	20.0	118.	113.5	3.9	70-130	20		
Chlorobenzene	21.8	20.9	ND	20.0	20.0	109.	104.5	4.2	70-130	20		
<b>Surrogate(s)</b>												
1-Chloro-2-fluoro	23.0	22.1		20	20	115.	110.4		70-130			



Submission #: 2002-03-0005

Gas/BTEX Compounds by 8015M/8021



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 65th & 66th St.

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
T-1	Water	02/28/2002 15:30	1

Submission #: 2002-03-0005



Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Test Method: 8015M  
8021B

Attn: Mark Arniola

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: T-1	Lab Sample ID: 2002-03-0005-001
Project: 1424-4B 65th & 66th St.	Received: 02/28/2002 17:10
Sampled: 02/28/2002 15:30	Extracted: 03/04/2002 11:56
Matrix: Water	QC-Batch: 2002/03/04-01.02

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	03/04/2002 11:56	
Benzene	ND	0.50	ug/L	1.00	03/04/2002 11:56	
Toluene	ND	0.50	ug/L	1.00	03/04/2002 11:56	
Ethyl benzene	ND	0.50	ug/L	1.00	03/04/2002 11:56	
Xylene(s)	ND	0.50	ug/L	1.00	03/04/2002 11:56	
MTBE	ND	5.0	ug/L	1.00	03/04/2002 11:56	
<b>Surrogate(s)</b>						
Trifluorotoluene	102.9	58-124	%	1.00	03/04/2002 11:56	
4-Bromofluorobenzene-FID	89.8	50-150	%	1.00	03/04/2002 11:56	

Gas/BTEX Compounds by 8015M/8021

**Batch QC report**

Test Method: 8015M  
8021B

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2002/03/04-01.02</b>
MB: 2002/03/04-01.02-003		Date Extracted: 03/04/2002 08:37

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	03/04/2002 08:37	
Benzene	ND	0.5	ug/L	03/04/2002 08:37	
Toluene	ND	0.5	ug/L	03/04/2002 08:37	
Ethyl benzene	ND	0.5	ug/L	03/04/2002 08:37	
Xylene(s)	ND	0.5	ug/L	03/04/2002 08:37	
MTBE	ND	5.0	ug/L	03/04/2002 08:37	
<b>Surrogate(s)</b>					
Trifluorotoluene	100.5	58-124	%	03/04/2002 08:37	
4-Bromofluorobenzene-FID	103.6	50-150	%	03/04/2002 08:37	

Submission #: 2002-03-0005



Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/03/04-01.02**  
 LCS: 2002/03/04-01.02-004    Extracted: 03/04/2002 09:08    Analyzed: 03/04/2002 09:08  
 LCSD: 2002/03/04-01.02-005    Extracted: 03/04/2002 09:40    Analyzed: 03/04/2002 09:40

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

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	97.4	96.5	100.0	100.0	97.4	96.5	0.9	77-123	20		
Toluene	98.2	96.6	100.0	100.0	98.2	96.6	1.6	78-122	20		
Ethyl benzene	101	100	100.0	100.0	101.0	100.0	1.0	70-130	20		
Xylene(s)	298	296	300	300	99.3	98.7	0.6	75-125	20		
<b>Surrogate(s)</b>											
Trifluorotoluene	485	473	500	500	97.0	94.6		58-124			

Submission #: 2002-03-0005



Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/03/04-01.02**  
LCS: 2002/03/04-01.02-006 Extracted: 03/04/2002 10:12 Analyzed: 03/04/2002 10:12  
LCSD: 2002/03/04-01.02-007 Extracted: 03/04/2002 10:43 Analyzed: 03/04/2002 10:43

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

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	512	513	500	500	102.4	102.6	0.2	75-125	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	542	539	500	500	108.4	107.8		50-150			

Submission #: 2002-03-0005

TEPH w/ Silica Gel Clean-up



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 65th & 66th St.

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
T-1	Water	02/28/2002 15:30	1

Submission #: 2002-03-0005



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: T-1	Lab Sample ID: 2002-03-0005-001
Project: 1424-4B 65th & 66th St.	Received: 02/28/2002 17:10
Sampled: 02/28/2002 15:30	Extracted: 03/01/2002 13:12
Matrix: Water	QC-Batch: 2002/03/01-05.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	03/04/2002 08:03	
Motor Oil	ND	500	ug/L	1.00	03/04/2002 08:03	
<b>Surrogate(s)</b>						
o-Terphenyl	89.8	60-130	%	1.00	03/04/2002 08:03	





Submission #: 2002-03-0005



TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/03/01-05.10**  
LCS: 2002/03/01-05.10-002 Extracted: 03/01/2002 13:12 Analyzed: 03/04/2002 06:11  
LCSD: 2002/03/01-05.10-003 Extracted: 03/01/2002 13:12 Analyzed: 03/04/2002 06:49

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	901	954	1250	1250	72.1	76.3	5.7	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	18.6	19.2	20.0	20.0	93.2	96.1		60-130	0		

Submission #: 2002-03-0005



Total Lead

<b>Lowney &amp; Associates Oakland</b>	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 65th & 66th St.

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

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
T-1	Water	02/28/2002 15:30	1

Submission #: 2002-03-0005



Total Lead

Lowney & Associates Oakland  
Attn: Mark Arniola

Test Method: 6010B  
Prep Method: 3010A

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: T-1	Lab Sample ID: 2002-03-0005-001
Project: 1424-4B 65th & 66th St.	Received: 02/28/2002 17:10
Sampled: 02/28/2002 15:30	Extracted: 03/07/2002 07:55
Matrix: Water	QC-Batch: 2002/03/07-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	0.0066	0.0050	mg/L	1.00	03/07/2002 15:08	

Submission #: 2002-03-0005



Total Lead

Batch QC report

Test Method: 6010B

Prep Method: 3010A

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2002/03/07-03.15</b>
MB: 2002/03/07-03.15-071		Date Extracted: 03/07/2002 07:55

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Lead	ND	0.0050	mg/L	03/07/2002 14:55	

Submission #: 2002-03-0005



Total Lead  
Batch QC report

Test Method: 6010B

Prep Method: 3010A

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/03/07-03.15  
LCS: 2002/03/07-03.15-072 Extracted: 03/07/2002 07:55 Analyzed: 03/07/2002 15:00  
LCSD: 2002/03/07-03.15-073 Extracted: 03/07/2002 07:55 Analyzed: 03/07/2002 15:04

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

CA DHS ELAP#1094

Compound	Conc. [mg/L]		Exp. Conc. [mg/L]		Recovery		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recover	RPD	LCS	LCSD
Lead	0.461	0.462	0.500	0.500	92.2	92.4	0.2	80-120	20		



Submission #: 2002-03-0385

Date: March 27, 2002



**Lowney & Associates Oakland**

167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-4B  
65th & 66th St

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mr. Arniola,

Attached is our report for your samples received on Tuesday March 19, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
May 3, 2002 unless you have requested otherwise.

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

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

Sincerely,

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

Vincent Vancil  
Project Manager

Submission #: 2002-03-0385

Halogenated Volatile Organic Compounds by 8021



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 65th & 66th St

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
T-2	Water	03/18/2002 14:00	1
T-3	Water	03/18/2002 14:00	2



## Halogenated Volatile Organic Compounds by 8021

Lowney &amp; Associates Oakland

Test Method: 8021B

Attn: Mark Arniola

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: T-2	Lab Sample ID: 2002-03-0385-001
Project: 1424-4B 65th & 66th St	Received: 03/19/2002 16:35
Sampled: 03/18/2002 14:00	Extracted: 03/22/2002 15:11
Matrix: Water	QC-Batch: 2002/03/22-01.25

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	03/22/2002 15:11	
Vinyl chloride	ND	0.50	ug/L	1.00	03/22/2002 15:11	
Chloroethane	ND	0.50	ug/L	1.00	03/22/2002 15:11	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	03/22/2002 15:11	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	03/22/2002 15:11	
Methylene chloride	ND	5.0	ug/L	1.00	03/22/2002 15:11	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/22/2002 15:11	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/22/2002 15:11	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	03/22/2002 15:11	
Chloroform	ND	0.50	ug/L	1.00	03/22/2002 15:11	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	03/22/2002 15:11	
Carbon tetrachloride	ND	0.50	ug/L	1.00	03/22/2002 15:11	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	03/22/2002 15:11	
Trichloroethene	ND	0.50	ug/L	1.00	03/22/2002 15:11	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	03/22/2002 15:11	
Bromodichloromethane	ND	0.50	ug/L	1.00	03/22/2002 15:11	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	03/22/2002 15:11	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/22/2002 15:11	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/22/2002 15:11	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	03/22/2002 15:11	
Tetrachloroethene	ND	0.50	ug/L	1.00	03/22/2002 15:11	
Dibromochloromethane	ND	0.50	ug/L	1.00	03/22/2002 15:11	
Chlorobenzene	ND	0.50	ug/L	1.00	03/22/2002 15:11	
Bromoform	ND	2.0	ug/L	1.00	03/22/2002 15:11	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/22/2002 15:11	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	03/22/2002 15:11	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	03/22/2002 15:11	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	03/22/2002 15:11	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	03/22/2002 15:11	
Chloromethane	ND	1.0	ug/L	1.00	03/22/2002 15:11	
Bromomethane	ND	1.0	ug/L	1.00	03/22/2002 15:11	
<b>Surrogate(s)</b>						
1-Chloro-2-fluorobenzene	78.5	70-130	%	1.00	03/22/2002 15:11	

## Halogenated Volatile Organic Compounds by 8021

Lowney &amp; Associates Oakland

Test Method: 8021B

Attn: Mark Arniola

Prep Method: 5030B

 STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: T-3	Lab Sample ID: 2002-03-0385-002
Project: 1424-4B 65th & 66th St	Received: 03/19/2002 16:35
Sampled: 03/18/2002 14:00	Extracted: 03/22/2002 17:39
Matrix: Water	QC-Batch: 2002/03/22-01.25

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	03/22/2002 17:39	
Vinyl chloride	ND	0.50	ug/L	1.00	03/22/2002 17:39	
Chloroethane	ND	0.50	ug/L	1.00	03/22/2002 17:39	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	03/22/2002 17:39	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	03/22/2002 17:39	
Methylene chloride	ND	5.0	ug/L	1.00	03/22/2002 17:39	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/22/2002 17:39	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/22/2002 17:39	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	03/22/2002 17:39	
Chloroform	ND	0.50	ug/L	1.00	03/22/2002 17:39	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	03/22/2002 17:39	
Carbon tetrachloride	ND	0.50	ug/L	1.00	03/22/2002 17:39	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	03/22/2002 17:39	
Trichloroethene	ND	0.50	ug/L	1.00	03/22/2002 17:39	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	03/22/2002 17:39	
Bromodichloromethane	ND	0.50	ug/L	1.00	03/22/2002 17:39	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	03/22/2002 17:39	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/22/2002 17:39	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/22/2002 17:39	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	03/22/2002 17:39	
Tetrachloroethene	ND	0.50	ug/L	1.00	03/22/2002 17:39	
Dibromochloromethane	ND	0.50	ug/L	1.00	03/22/2002 17:39	
Chlorobenzene	ND	0.50	ug/L	1.00	03/22/2002 17:39	
Bromoform	ND	2.0	ug/L	1.00	03/22/2002 17:39	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/22/2002 17:39	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	03/22/2002 17:39	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	03/22/2002 17:39	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	03/22/2002 17:39	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	03/22/2002 17:39	
Chloromethane	ND	1.0	ug/L	1.00	03/22/2002 17:39	
Bromomethane	ND	1.0	ug/L	1.00	03/22/2002 17:39	
<b>Surrogate(s)</b>						
1-Chloro-2-fluorobenzene	91.2	70-130	%	1.00	03/22/2002 17:39	

## Halogenated Volatile Organic Compounds by 8021

## Batch QC report

Test Method: 8021B

Prep Method: 5030B

 STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

Method Blank

Water

QC Batch # 2002/03/22-01.25

MB: 2002/03/22-01.25-004

Date Extracted: 03/22/2002 11:13

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	03/22/2002 11:13	
Vinyl chloride	ND	0.5	ug/L	03/22/2002 11:13	
Chloroethane	ND	0.5	ug/L	03/22/2002 11:13	
Trichlorofluoromethane	ND	0.5	ug/L	03/22/2002 11:13	
1,1-Dichloroethene	ND	0.5	ug/L	03/22/2002 11:13	
Methylene chloride	ND	5.0	ug/L	03/22/2002 11:13	
trans-1,2-Dichloroethene	ND	0.5	ug/L	03/22/2002 11:13	
cis-1,2-Dichloroethene	ND	0.5	ug/L	03/22/2002 11:13	
1,1-Dichloroethane	ND	0.5	ug/L	03/22/2002 11:13	
Chloroform	ND	0.5	ug/L	03/22/2002 11:13	
1,1,1-Trichloroethane	ND	0.5	ug/L	03/22/2002 11:13	
Carbon tetrachloride	ND	0.5	ug/L	03/22/2002 11:13	
1,2-Dichloroethane	ND	0.5	ug/L	03/22/2002 11:13	
Trichloroethene	ND	0.5	ug/L	03/22/2002 11:13	
1,2-Dichloropropane	ND	0.5	ug/L	03/22/2002 11:13	
Bromodichloromethane	ND	0.5	ug/L	03/22/2002 11:13	
2-Chloroethylvinyl ether	ND	0.5	ug/L	03/22/2002 11:13	
trans-1,3-Dichloropropene	ND	0.5	ug/L	03/22/2002 11:13	
cis-1,3-Dichloropropene	ND	0.5	ug/L	03/22/2002 11:13	
1,1,2-Trichloroethane	ND	0.5	ug/L	03/22/2002 11:13	
Tetrachloroethene	ND	0.5	ug/L	03/22/2002 11:13	
Dibromochloromethane	ND	0.5	ug/L	03/22/2002 11:13	
Chlorobenzene	ND	0.5	ug/L	03/22/2002 11:13	
Bromoform	ND	2.0	ug/L	03/22/2002 11:13	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	03/22/2002 11:13	
1,3-Dichlorobenzene	ND	0.5	ug/L	03/22/2002 11:13	
1,4-Dichlorobenzene	ND	0.5	ug/L	03/22/2002 11:13	
1,2-Dichlorobenzene	ND	0.5	ug/L	03/22/2002 11:13	
Trichlorotrifluoroethane	ND	0.5	ug/L	03/22/2002 11:13	
Chloromethane	ND	1.0	ug/L	03/22/2002 11:13	
Bromomethane	ND	1.0	ug/L	03/22/2002 11:13	
<b>Surrogate(s)</b>					
1-Chloro-2-fluorobenzene	80.9	70-130	%	03/22/2002 11:13	



Halogenated Volatile Organic Compounds by 8021

Batch QC report

Test Method: 8021B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/03/22-01.25  
 LCS: 2002/03/22-01.25-002    Extracted: 03/22/2002 09:38    Analyzed: 03/22/2002 09:38  
 LCSD: 2002/03/22-01.25-003    Extracted: 03/22/2002 10:25    Analyzed: 03/22/2002 10:25

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

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
1,1-Dichloroethene	18.3	18.9	20.0	20.0	91.5	94.5	3.2	70-130	20		
Trichloroethene	19.0	19.8	20.0	20.0	95.0	99.0	4.1	70-130	20		
Chlorobenzene	20.7	20.5	20.0	20.0	103.5	102.5	1.0	70-130	20		
<b>Surrogate(s)</b>											
1-Chloro-2-fluorobenz	23.3	22.9	20	20	116.5	114.5		70-130			

Halogenated Volatile Organic Compounds by 8021

**Batch QC Report**

Test Method: 8021B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Matrix Spike ( MS / MSD )</b>	<b>Water</b>	<b>QC Batch # 2002/03/22-01.25</b>
Sample ID: T-2 >> MS		Lab ID: 2002-03-0385-001
MS: 2002/03/22-01.25-008	Extracted: 03/22/2002 16:07	Analyzed: 03/22/2002 16:07
		Dilution: 1
MSD: 2002/03/22-01.25-009	Extracted: 03/22/2002 16:51	Analyzed: 03/22/2002 16:51
		Dilution: 1

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

CA DHS ELAP#1094

Compound	Conc. [ug/L]			Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
1,1-Dichloroethen	16.6	16.2	ND	20.0	20.0	83.0	81.0	2.4	70-130	20		
Trichloroethene	17.2	18.6	ND	20.0	20.0	86.0	93.0	7.8	70-130	20		
Chlorobenzene	19.2	19.6	ND	20.0	20.0	96.0	98.0	2.1	70-130	20		
<b>Surrogate(s)</b>												
1-Chloro-2-fluoro	21.0	21.5		20	20	105.	107.3		70-130			

Submission #: 2002-03-0385

Gas/BTEX Compounds by 8015M/8021



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 65th & 66th St

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
T-2	Water	03/18/2002 14:00	1
T-3	Water	03/18/2002 14:00	2

Submission #: 2002-03-0385



Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Test Method: 8021B  
8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Attn: Mark Arniola

Prep Method: 5030

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

CA DHS ELAP#1094

Sample ID: T-2	Lab Sample ID: 2002-03-0385-001
Project: 1424-4B 65th & 66th St	Received: 03/19/2002 16:35
Sampled: 03/18/2002 14:00	Extracted: 03/26/2002 14:01
Matrix: Water	QC-Batch: 2002/03/26-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	68	50	ug/L	1.00	03/26/2002 14:01	g
Benzene	ND	0.50	ug/L	1.00	03/26/2002 14:01	
Toluene	ND	0.50	ug/L	1.00	03/26/2002 14:01	
Ethyl benzene	ND	0.50	ug/L	1.00	03/26/2002 14:01	
Xylene(s)	0.97	0.50	ug/L	1.00	03/26/2002 14:01	
MTBE	ND	5.0	ug/L	1.00	03/26/2002 14:01	
<b>Surrogate(s)</b>						
Trifluorotoluene	96.3	58-124	%	1.00	03/26/2002 14:01	
4-Bromofluorobenzene-FID	103.0	50-150	%	1.00	03/26/2002 14:01	

Submission #: 2002-03-0385



Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Test Method: 8021B  
8015M

Attn: Mark Arniola

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: T-3	Lab Sample ID: 2002-03-0385-002
Project: 1424-4B 65th & 66th St	Received: 03/19/2002 16:35
Sampled: 03/18/2002 14:00	Extracted: 03/26/2002 14:33
Matrix: Water	QC-Batch: 2002/03/26-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	03/26/2002 14:33	
Benzene	ND	0.50	ug/L	1.00	03/26/2002 14:33	
Toluene	ND	0.50	ug/L	1.00	03/26/2002 14:33	
Ethyl benzene	ND	0.50	ug/L	1.00	03/26/2002 14:33	
Xylene(s)	ND	0.50	ug/L	1.00	03/26/2002 14:33	
MTBE	ND	5.0	ug/L	1.00	03/26/2002 14:33	
<b>Surrogate(s)</b>						
Trifluorotoluene	100.3	58-124	%	1.00	03/26/2002 14:33	
4-Bromofluorobenzene-FID	104.1	50-150	%	1.00	03/26/2002 14:33	



Gas/BTEX Compounds by 8015M/8021

**Batch QC report**

Test Method: 8015M  
8021B

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2002/03/26-01.02</b>
MB: 2002/03/26-01.02-003		Date Extracted: 03/26/2002 08:14

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	03/26/2002 08:14	
Benzene	ND	0.5	ug/L	03/26/2002 08:14	
Toluene	ND	0.5	ug/L	03/26/2002 08:14	
Ethyl benzene	ND	0.5	ug/L	03/26/2002 08:14	
Xylene(s)	ND	0.5	ug/L	03/26/2002 08:14	
MTBE	ND	5.0	ug/L	03/26/2002 08:14	
<b>Surrogate(s)</b>					
Trifluorotoluene	96.9	58-124	%	03/26/2002 08:14	
4-Bromofluorobenzene-FID	108.6	50-150	%	03/26/2002 08:14	

Submission #: 2002-03-0385

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5030



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/03/26-01.02  
LCS: 2002/03/26-01.02-006    Extracted: 03/26/2002 09:49    Analyzed: 03/26/2002 09:49  
LCSD: 2002/03/26-01.02-007    Extracted: 03/26/2002 10:21    Analyzed: 03/26/2002 10:21

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	533	538	500	500	106.6	107.6	0.9	75-125	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	553	554	500	500	110.6	110.8		50-150			

Gas/BTEX Compounds by 8015M/8021

**Batch QC report**

Test Method: 8021B

Prep Method: 5030

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/03/26-01.02**  
 LCS: 2002/03/26-01.02-004 Extracted: 03/26/2002 08:46 Analyzed: 03/26/2002 08:46  
 LCSD: 2002/03/26-01.02-005 Extracted: 03/26/2002 09:17 Analyzed: 03/26/2002 09:17

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

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Benzene	98.9	95.1	100.0	100.0	98.9	95.1	3.9	77-123	20		
Toluene	97.5	93.7	100.0	100.0	97.5	93.7	4.0	78-122	20		
Ethyl benzene	104	100	100.0	100.0	104.0	100.0	3.9	70-130	20		
Xylene(s)	307	292	300	300	102.3	97.3	5.0	75-125	20		
<b>Surrogate(s)</b>											
Trifluorotoluene	496	476	500	500	99.2	95.2		58-124			

Submission #: 2002-03-0385



Gas/BTEX Compounds by 8015M/8021

**Legend & Notes**

Test Method: 8021B  
8015M

Prep Method: 5030

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)  
[www.chromalab.com](http://www.chromalab.com)

CA DHS ELAP#1094

**Analyte Flags**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard

Submission #: 2002-03-0385

TEPH w/ Silica Gel Clean-up



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 65th & 66th St

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
T-2	Water	03/18/2002 14:00	1
T-3	Water	03/18/2002 14:00	2

Submission #: 2002-03-0385



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland

Test Method: 8015M

Attn: Mark Arniola

Prep Method: 3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: T-2	Lab Sample ID: 2002-03-0385-001
Project: 1424-4B 65th & 66th St	Received: 03/19/2002 16:35
	Extracted: 03/21/2002 11:55
Sampled: 03/18/2002 14:00	QC-Batch: 2002/03/21-01.10
Matrix: Water	
Sample/Analysis Flag: rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	78	69	ug/L	1.39	03/25/2002 07:13	ndp
Motor Oil	ND	690	ug/L	1.39	03/25/2002 07:13	
<b>Surrogate(s)</b>						
o-Terphenyl	85.5	60-130	%	1.39	03/25/2002 07:13	

Submission #: 2002-03-0385



TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland  
Attn: Mark Arniola

Test Method: 8015M  
Prep Method: 3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Sample ID: T-3	Lab Sample ID: 2002-03-0385-002
Project: 1424-4B 65th & 66th St	Received: 03/19/2002 16:35
Sampled: 03/18/2002 14:00	Extracted: 03/21/2002 11:55
Matrix: Water	QC-Batch: 2002/03/21-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	57	50	ug/L	1.00	03/25/2002 08:15	ndp
Motor Oil	ND	500	ug/L	1.00	03/25/2002 08:15	
<b>Surrogate(s)</b>						
o-Terphenyl	72.6	60-130	%	1.00	03/25/2002 08:15	







TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/03/21-01.10  
 LCS: 2002/03/21-01.10-002    Extracted: 03/21/2002 11:55    Analyzed: 03/22/2002 06:02  
 LCSD: 2002/03/21-01.10-003    Extracted: 03/21/2002 11:55    Analyzed: 03/22/2002 06:39

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

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	1010	961	1250	1250	80.8	76.9	4.9	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	16.2	16.4	20.0	20.0	81.1	82.2		60-130	0		

Submission #: 2002-03-0385



TEPH w/ Silica Gel Clean-up

**Legend & Notes**

Test Method: 8015M

Prep Method: 3510/8015M

**Analysis Flags**

rl

Reporting limits raised due to reduced sample size.

**Analyte Flags**

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

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)  
[www.chromalab.com](http://www.chromalab.com)

CA DHS ELAP#1094



Metals

<b>Lowney &amp; Associates Oakland</b>	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-4B	Project: 65th & 66th St

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

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

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
T-2	Water	03/18/2002 14:00	1
T-3	Water	03/18/2002 14:00	2

Submission #: 2002-03-0385



Metals

Lowney & Associates Oakland

Test Method: 6010B

Attn: Mark Arniola

Prep Method: 3010A

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

Sample ID: T-2	Lab Sample ID: 2002-03-0385-001
Project: 1424-4B 65th & 66th St	Received: 03/19/2002 16:35
Sampled: 03/18/2002 14:00	Extracted: 03/26/2002 05:39
Matrix: Water	QC-Batch: 2002/03/26-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Cadmium	ND	0.0020	mg/L	1.00	03/26/2002 14:03	
Chromium	0.014	0.0050	mg/L	1.00	03/26/2002 14:03	
Copper	0.10	0.0050	mg/L	1.00	03/26/2002 14:03	
Lead	0.015	0.0050	mg/L	1.00	03/26/2002 14:03	
Nickel	0.033	0.0050	mg/L	1.00	03/26/2002 14:03	
Zinc	0.039	0.010	mg/L	1.00	03/26/2002 14:03	

Submission #: 2002-03-0385



Metals

Lowney & Associates Oakland  
Attn: Mark Arniola

Test Method: 6010B  
Prep Method: 3010A

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Sample ID: T-3	Lab Sample ID: 2002-03-0385-002
Project: 1424-4B 65th & 66th St	Received: 03/19/2002 16:35
Sampled: 03/18/2002 14:00	Extracted: 03/26/2002 05:39
Matrix: Water	QC-Batch: 2002/03/26-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Cadmium	ND	0.0020	mg/L	1.00	03/26/2002 14:08	
Chromium	0.017	0.0050	mg/L	1.00	03/26/2002 14:08	
Copper	0.031	0.0050	mg/L	1.00	03/26/2002 14:08	
Lead	0.019	0.0050	mg/L	1.00	03/26/2002 14:08	
Nickel	0.024	0.0050	mg/L	1.00	03/26/2002 14:08	
Zinc	0.053	0.010	mg/L	1.00	03/26/2002 14:08	



Metals  
Batch QC report

Test Method: 6010B

Prep Method: 3010A

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/03/26-02.15**  
 LCS: 2002/03/26-02.15-080 Extracted: 03/26/2002 05:39 Analyzed: 03/26/2002 13:36  
 LCSD: 2002/03/26-02.15-083 Extracted: 03/26/2002 05:39 Analyzed: 03/26/2002 13:59

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

CA DHS ELAP#1094

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Cadmium	0.529	0.526	0.500	0.500	105.8	105.2	0.6	80-120	20		
Chromium	0.518	0.518	0.500	0.500	103.6	103.6	0.0	80-120	20		
Copper	0.520	0.522	0.500	0.500	104.0	104.4	0.4	80-120	20		
Lead	0.518	0.517	0.500	0.500	103.6	103.4	0.2	80-120	20		
Nickel	0.508	0.508	0.500	0.500	101.6	101.6	0.0	80-120	20		
Zinc	0.527	0.520	0.500	0.500	105.4	104.0	1.3	80-120	20		





Submission #: 2002-04-0022

Date: April 8, 2002

SEVERN

TRENT

SERVICES

**Lowney & Associates Oakland**

167 Filbert Street  
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-4B  
65th, 66 th St.

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

Dear Mr. Arniola,

Attached is our report for your samples received on Monday April 1, 2002  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
May 16, 2002 unless you have requested otherwise.

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

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

Sincerely,



Vincent Vancil  
Project Manager

**RECEIVED**

APR 11 2002

LOWNEY, OK

Submission #: 2002-04-0022

Oil & Grease (Petroleum) by EPA 1664



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP#1094

<b>Lowney &amp; Associates Oakland</b>	☐ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola 1424-4B	Phone: (510) 267-1970 Fax: (510) 267-1972 Project: 65th, 66 th St.

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
T-2A	Water	04/01/2002 10:00	1
T-3A	Water	04/01/2002 10:00	2

Submission #: 2002-04-0022

Oil & Grease (Petroleum) by EPA 1664



Lowney & Associates Oakland  
Attn: Mark Arniola

Test Method: 1664  
Prep Method: 1664

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: T-2A	Lab Sample ID: 2002-04-0022-001
Project: 1424-4B 65th, 66 th St.	Received: 04/01/2002 11:50
Sampled: 04/01/2002 10:00	Extracted: 04/05/2002
Matrix: Water	QC-Batch: 2002/04/05-02.23

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil and Grease (Petroleum)	ND	1.0	mg/L	1.00	04/05/2002	

Submission #: 2002-04-0022



Oil & Grease (Petroleum) by EPA 1664

Lowney & Associates Oakland

Test Method: 1664

Attn: Mark Arniola

Prep Method: 1664

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: T-3A	Lab Sample ID: 2002-04-0022-002
Project: 1424-4B 65th, 66 th St.	Received: 04/01/2002 11:50
	Extracted: 04/05/2002
Sampled: 04/01/2002 10:00	QC-Batch: 2002/04/05-02.23
Matrix: Water	

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

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil and Grease (Petroleum)	ND	1.0	mg/L	1.00	04/05/2002	



Submission #: 2002-04-0022



Oil & Grease (Petroleum) by EPA 1664

Batch QC report

Test Method: 1664

Prep Method: 1664

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Laboratory Control Spike (LCS/LCSD)</b>	<b>Water</b>	<b>QC Batch # 2002/04/05-02.23</b>
LCS: 2002/04/05-02.23-002	Extracted: 04/05/2002	Analyzed: 04/05/2002
LCSD: 2002/04/05-02.23-003	Extracted: 04/05/2002	Analyzed: 04/05/2002

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

CA DHS ELAP#1094

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Oil and Grease	19.1	18.9	20.0	20.0	95.5	94.5	1.1	66-114	24		



State of California—Environmental Protection Agency  
Form Approved OMB No. 2050-0039 (Expires 9-30-99)  
Please print or type. Form designed for use on a 12-pitch typewriter.

See instructions on back of page 6.

Department of Toxic Substances Control  
Sacramento, California

CHHF

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8602; WITHIN CALIFORNIA, CALL 1-800-852-7550

21305313

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. CA10002529991	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address PULTE HOME CORP 1269 66TH ST EMERYVILLE CA 94608-1416 Generator's Phone 510 782-3774				A. State Manifest Document Number <b>21305313</b>		
5. Transporter 1 Company Name Cross Trucking				B. State Generator's ID		
6. US EPA ID Number CA100001133926				C. State Transporter's ID (Reserved)		
7. Transporter 2 Company Name				D. Transporter's Phone 707-923-1423		
8. US EPA ID Number				E. State Transporter's ID (Reserved)		
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 35251 OLD SKYLINE ROAD KETTLEMAN CITY CA 93239				G. State Facility's ID KAT0001646117		
10. US EPA ID Number CA10000646117				H. Facility's Phone (559)386-9711		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste Number	
NON RCRA HAZARDOUS WASTE SOLID, (SOIL WITH TRACE LEAD)		001 DTU0018	Y		State 611 EPA/Other	
b.					State EPA/Other	
c.					State EPA/Other	
d.					State EPA/Other	
J. Additional Descriptions for Materials Listed Above a. EB1272				K. Handling Codes for Wastes Listed Above b. OS		
15. Special Handling Instructions and Additional Information CHEMTREC Emergency Response Number: (800)424-9300 WMT Contract YRON124 CT2008 T109						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name Mike Kim		Signature <i>Mike Kim</i>		Month Day Year 03/01/02		
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name JOSEPH O. VIVEIROS		Signature <i>Joseph O. Viveiros</i>		Month Day Year 03/01/02		
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year		
19. Discrepancy Indication Space						
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name M. Kim		Signature <i>M. Kim</i>		Month Day Year 03/01/02		

DO NOT WRITE BELOW THIS LINE.

Yellow: DTSC SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS.  
(Generators who submit hazardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days.)



## Customer / Profile Report

Date: f

custprof.rpt

03/01/2002 thru 05/31/2002

<u>Date</u>	<u>Ticket</u>	<u>Waste</u>	<u>Tons</u>	<u>Yards</u>	<u>Units</u>
<b>Customer: R &amp; B / R &amp; B EQUIPMENT, INC.</b>					
<b>Profile: 03296 / PULTE HOMES</b>					
3/20/2002	249086	SOIL BURIAL	20.95	0.00	0.00
3/20/2002	249094	SOIL BURIAL	17.57	0.00	0.00
3/20/2002	249115	SOIL BURIAL	19.99	0.00	0.00
3/20/2002	249123	SOIL BURIAL	19.34	0.00	0.00
3/20/2002	249210	SOIL BURIAL	18.62	0.00	0.00
3/20/2002	249216	SOIL BURIAL	18.98	0.00	0.00
3/20/2002	249221	SOIL BURIAL	18.98	0.00	0.00
3/20/2002	249257	SOIL BURIAL	19.38	0.00	0.00
3/20/2002	249309	SOIL BURIAL	18.57	0.00	0.00
3/20/2002	249312	SOIL BURIAL	21.43	0.00	0.00
3/20/2002	249320	SOIL BURIAL	20.53	0.00	0.00
3/20/2002	249340	SOIL BURIAL	21.86	0.00	0.00
3/20/2002	249389	SOIL BURIAL	19.59	0.00	0.00
3/20/2002	249397	SOIL BURIAL	22.90	0.00	0.00
3/21/2002	249413	SOIL BURIAL	24.18	0.00	0.00
<b>Profile Totals for: PULTE HOMES</b>			<b>302.87</b>	<b>0.00</b>	<b>0.00</b>

<b>Profile: 03391 / PULTE HOMES</b>					
4/11/2002	256678	SOIL - ADC	28.13	0.00	0.00
4/11/2002	256684	SOIL - ADC	26.02	0.00	0.00
4/11/2002	256692	SOIL - ADC	25.05	0.00	0.00
4/11/2002	256695	SOIL - ADC	26.70	0.00	0.00
4/11/2002	256721	SOIL - ADC	24.64	0.00	0.00
4/11/2002	256735	SOIL - ADC	32.79	0.00	0.00
4/11/2002	256747	SOIL - ADC	25.51	0.00	0.00
4/11/2002	256776	SOIL - ADC	28.85	0.00	0.00
4/11/2002	256800	SOIL - ADC	25.42	0.00	0.00
4/11/2002	256815	SOIL - ADC	25.81	0.00	0.00
4/11/2002	256821	SOIL - ADC	20.57	0.00	0.00
4/11/2002	256828	SOIL - ADC	26.28	0.00	0.00
4/11/2002	256859	SOIL - ADC	21.81	0.00	0.00
4/11/2002	256876	SOIL - ADC	24.91	0.00	0.00
4/11/2002	256891	SOIL - ADC	27.37	0.00	0.00
4/11/2002	256894	SOIL - ADC	25.28	0.00	0.00
4/11/2002	256919	SOIL - ADC	26.51	0.00	0.00
4/11/2002	256923	SOIL - ADC	17.81	0.00	0.00
4/11/2002	256927	SOIL - ADC	26.50	0.00	0.00
4/11/2002	256935	SOIL - ADC	19.18	0.00	0.00
4/11/2002	256942	SOIL - ADC	28.36	0.00	0.00
4/11/2002	256944	SOIL - ADC	26.55	0.00	0.00
4/11/2002	256949	SOIL - ADC	27.77	0.00	0.00

T = Tons

Y = Yards

U = Units/Drums/Loads

Page: 1

## Customer / Profile Report

Date: 6/6

custprofil.rpt

03/01/2002 thru 05/31/2002

<u>Date</u>	<u>Ticket</u>	<u>Waste</u>	<u>Tons</u>	<u>Yards</u>	<u>Units</u>
4/11/2002	256962	SOIL - ADC	24.76	0.00	0.00
4/11/2002	256963	SOIL - ADC	30.93	0.00	0.00
4/11/2002	256970	SOIL - ADC	23.84	0.00	0.00
4/11/2002	256977	SOIL - ADC	15.38	0.00	0.00
4/11/2002	256996	SOIL - ADC	28.42	0.00	0.00
4/11/2002	257005	SOIL - ADC	25.94	0.00	0.00
4/11/2002	257010	SOIL - ADC	25.56	0.00	0.00
4/11/2002	257014	SOIL - ADC	17.81	0.00	0.00
4/11/2002	257016	SOIL - ADC	19.06	0.00	0.00
4/11/2002	257019	SOIL - ADC	17.36	0.00	0.00
4/11/2002	257037	SOIL - ADC	19.33	0.00	0.00
4/12/2002	257051	SOIL - ADC	29.34	0.00	0.00
4/12/2002	257053	SOIL - ADC	28.02	0.00	0.00
4/12/2002	257055	SOIL - ADC	21.05	0.00	0.00
4/12/2002	257071	SOIL - ADC	25.70	0.00	0.00
4/12/2002	257072	SOIL - ADC	26.42	0.00	0.00
4/12/2002	257075	SOIL - ADC	28.52	0.00	0.00
4/12/2002	257077	SOIL - ADC	18.61	0.00	0.00
4/12/2002	257083	SOIL - ADC	27.20	0.00	0.00
4/15/2002	258220	SOIL - ADC	19.93	0.00	0.00
4/16/2002	258375	SOIL - ADC	30.36	0.00	0.00
4/16/2002	258381	SOIL - ADC	19.94	0.00	0.00
4/16/2002	258490	SOIL - ADC	29.21	0.00	0.00
4/16/2002	258492	SOIL - ADC	18.77	0.00	0.00
4/16/2002	258525	SOIL - ADC	20.18	0.00	0.00
4/16/2002	258594	SOIL - ADC	19.64	0.00	0.00
4/16/2002	258627	SOIL - ADC	22.02	0.00	0.00
4/16/2002	258667	SOIL - ADC	29.45	0.00	0.00
4/17/2002	258764	SOIL - ADC	26.57	0.00	0.00
4/17/2002	258772	SOIL - ADC	23.47	0.00	0.00
4/17/2002	258776	SOIL - ADC	24.37	0.00	0.00
4/17/2002	258896	SOIL - ADC	22.67	0.00	0.00
4/17/2002	258900	SOIL - ADC	28.33	0.00	0.00
4/17/2002	258910	SOIL - ADC	26.24	0.00	0.00
4/17/2002	259019	SOIL - ADC	26.27	0.00	0.00
4/17/2002	259073	SOIL - ADC	24.81	0.00	0.00
4/25/2002	262223	SOIL - ADC	33.24	0.00	0.00
4/25/2002	262227	SOIL - ADC	38.15	0.00	0.00
4/25/2002	262233	SOIL - ADC	38.14	0.00	0.00
4/25/2002	262241	SOIL - ADC	23.81	0.00	0.00
4/25/2002	262268	SOIL - ADC	20.38	0.00	0.00
4/25/2002	262464	SOIL - ADC	28.70	0.00	0.00
5/8/2002	266801	SOIL - ADC	22.54	0.00	0.00

T = Tons

Y = Yards

U = Units/Drums/Loads

Page: 2

**Customer / Profile Report**

Date: 6

custprof.rpt

03/01/2002 thru 05/31/2002

<u>Date</u>	<u>Ticket</u>	<u>Waste</u>	<u>Tons</u>	<u>Yards</u>	<u>Units</u>
5/8/2002	266822	SOIL - ADC	36.12	0.00	0.00
5/8/2002	266845	SOIL - ADC	35.00	0.00	0.00
5/8/2002	266846	SOIL - ADC	38.53	0.00	0.00
5/8/2002	266895	SOIL - ADC	26.98	0.00	0.00
5/8/2002	266949	SOIL - ADC	27.38	0.00	0.00
5/16/2002	269725	SOIL - ADC	19.38	0.00	0.00
5/16/2002	269751	SOIL - ADC	27.18	0.00	0.00
5/16/2002	269884	SOIL - ADC	25.46	0.00	0.00
5/16/2002	269899	SOIL - ADC	27.70	0.00	0.00

Profile Totals for: **PULTE HOMES**

<b>1,921.99</b>	<b>0.00</b>	<b>0.00</b>
-----------------	-------------	-------------

Customer Totals for: **R & B EQUIPMENT, INC.**

<b>2,224.86</b>	<b>0.00</b>	<b>0.00</b>
-----------------	-------------	-------------

**Grand Total:**

<b>2,224.86</b>	<b>0.00</b>	<b>0.00</b>
-----------------	-------------	-------------

T = Tons

Y = Yards

U = Units/Drums/Loads

# Customer Ticket Report

02/01/2002 to 02/28/2002

Ticket	Date	Time In/Out	Waste	# of Tickets	Units	Yards	Adjusted Tons	Weight Tons
<b>R &amp; B / R &amp; B EQUIPMENT, INC.</b>				<b>Pay Type: Account (50-11980)</b>				
233346	2/1/02	08:40 - 09:13	SOIL / SOIL - ADC		0.00	0.00	0.00	24.51
233348	2/1/02	08:41 - 09:15	SOIL / SOIL - ADC		0.00	0.00	0.00	23.81
233356	2/1/02	08:52 - 09:21	SOIL / SOIL - ADC		0.00	0.00	0.00	24.21
233364	2/1/02	09:03 - 09:28	SOIL / SOIL - ADC		0.00	0.00	0.00	21.31
233457	2/1/02	11:35 - 11:36	SOIL / SOIL - ADC		0.00	0.00	0.00	24.91
233458	2/1/02	11:36 - 11:36	SOIL / SOIL - ADC		0.00	0.00	0.00	24.31
233463	2/1/02	11:43 - 11:43	SOIL / SOIL - ADC		0.00	0.00	0.00	22.41
233472	2/1/02	11:50 - 11:51	SOIL / SOIL - ADC		0.00	0.00	0.00	25.11
233551	2/1/02	12:45 - 13:48	SOIL / SOIL - ADC		0.00	0.00	0.00	23.81
233627	2/1/02	16:03 - 16:03	SOIL / SOIL - ADC		0.00	0.00	0.00	29.31
233633	2/1/02	16:12 - 16:12	SOIL / SOIL - ADC		0.00	0.00	0.00	28.55
233637	2/1/02	16:27 - 16:27	SOIL / SOIL - ADC		0.00	0.00	0.00	24.29
233638	2/1/02	16:27 - 16:27	SOIL / SOIL - ADC		0.00	0.00	0.00	27.25
233647	2/1/02	16:44 - 16:44	SOIL / SOIL - ADC		0.00	0.00	0.00	29.32
233866	2/2/02	13:50 - 13:50	LDR / LOAD/DEMO/RECYCLE		1.00	0.00	12.00	0.00
233877	2/2/02	14:01 - 14:01	LDR / LOAD/DEMO/RECYCLE		1.00	0.00	12.00	0.00
234036	2/4/02	08:49 - 08:49	SOIL / SOIL - ADC		0.00	0.00	0.00	26.67
234055	2/4/02	09:14 - 09:14	SOIL / SOIL - ADC		0.00	0.00	0.00	23.73
234056	2/4/02	09:15 - 09:16	SOIL / SOIL - ADC		0.00	0.00	0.00	23.42
234066	2/4/02	08:58 - 09:27	SOIL / SOIL - ADC		0.00	0.00	0.00	26.10
234071	2/4/02	09:34 - 09:34	SOIL / SOIL - ADC		0.00	0.00	0.00	36.28
234203	2/4/02	11:40 - 11:40	SOIL / SOIL - ADC		0.00	0.00	0.00	35.48
234206	2/4/02	11:42 - 11:42	SOIL / SOIL - ADC		0.00	0.00	0.00	26.08
234215	2/4/02	11:54 - 11:54	SOIL / SOIL - ADC		0.00	0.00	0.00	23.82
234216	2/4/02	11:55 - 11:56	SOIL / SOIL - ADC		0.00	0.00	0.00	23.19
234253	2/4/02	12:39 - 12:39	SOIL / SOIL - ADC		0.00	0.00	0.00	29.46
234281	2/4/02	13:12 - 13:12	LDR / LOAD/DEMO/RECYCLE		1.00	0.00	12.00	0.00
234345	2/4/02	14:19 - 14:19	SOIL / SOIL - ADC		0.00	0.00	0.00	31.63
234356	2/4/02	14:30 - 14:31	SOIL / SOIL - ADC		0.00	0.00	0.00	24.98
234358	2/4/02	14:34 - 14:34	SOIL / SOIL - ADC		0.00	0.00	0.00	25.78
234379	2/4/02	15:00 - 15:01	SOIL / SOIL - ADC		0.00	0.00	0.00	24.31
234380	2/4/02	15:02 - 15:02	SOIL / SOIL - ADC		0.00	0.00	0.00	24.76
234395	2/4/02	15:45 - 15:45	SOIL / SOIL - ADC		0.00	0.00	0.00	31.61
234424	2/5/02	06:04 - 06:04	LDR / LOAD/DEMO/RECYCLE		1.00	0.00	12.00	0.00
234433	2/5/02	06:26 - 06:26	LDR / LOAD/DEMO/RECYCLE		1.00	0.00	12.00	0.00
234487	2/5/02	08:26 - 08:26	SOIL / SOIL - ADC		0.00	0.00	0.00	23.54

Sent By: HP LaserJet 3100;  
 925 44 / 0499;  
 Jun-7-02 10:06AM;  
 Page 5/6

02/01/2002 to 02/28/2002

<u>Ticket</u>	<u>Date</u>	<u>Time In/Out</u>	<u>Waste</u>	<u># of Tickets</u>	<u>Units</u>	<u>Yards</u>	<u>Adjusted Tons</u>	<u>Weight Ton</u>
234491	2/ 5/02	08:33 - 08:34	SOIL / SOIL - ADC		0.00	0.00	0.00	23.1
234512	2/ 5/02	08:40 - 08:56	SOIL / SOIL - ADC		0.00	0.00	0.00	24.1
234648	2/ 5/02	11:10 - 11:10	SOIL / SOIL - ADC		0.00	0.00	0.00	24.5
234654	2/ 5/02	11:16 - 11:16	SOIL / SOIL - ADC		0.00	0.00	0.00	26.8
234655	2/ 5/02	11:17 - 11:17	SOIL / SOIL - ADC		0.00	0.00	0.00	24.1
234807	2/ 5/02	14:11 - 14:11	SOIL / SOIL - ADC		0.00	0.00	0.00	25.1
234843	2/ 5/02	14:28 - 14:57	SOIL / SOIL - ADC		0.00	0.00	0.00	27.1
234961	2/ 6/02	08:24 - 08:24	SOIL / SOIL - ADC		0.00	0.00	0.00	23.8
234962	2/ 6/02	08:24 - 08:25	SOIL / SOIL - ADC		0.00	0.00	0.00	25.1
234968	2/ 6/02	08:16 - 08:36	SOIL / SOIL - ADC		0.00	0.00	0.00	25.6
234983	2/ 6/02	08:31 - 09:00	SOIL / SOIL - ADC		0.00	0.00	0.00	22.1
235027	2/ 6/02	09:19 - 09:48	SOIL / SOIL - ADC		0.00	0.00	0.00	21.4
235092	2/ 6/02	10:57 - 10:58	SOIL / SOIL - ADC		0.00	0.00	0.00	24.8
235095	2/ 6/02	11:00 - 11:00	SOIL / SOIL - ADC		0.00	0.00	0.00	24.1
235096	2/ 6/02	11:01 - 11:01	SOIL / SOIL - ADC		0.00	0.00	0.00	27.1
235107	2/ 6/02	11:10 - 11:10	SOIL / SOIL - ADC		0.00	0.00	0.00	23.6
235169	2/ 6/02	12:21 - 12:21	SOIL / SOIL - ADC		0.00	0.00	0.00	24.1
235211	2/ 6/02	13:18 - 13:18	SOIL / SOIL - ADC		0.00	0.00	0.00	27.3
235240	2/ 6/02	14:02 - 14:03	SOIL / SOIL - ADC		0.00	0.00	0.00	31.0
235241	2/ 6/02	14:03 - 14:03	SOIL / SOIL - ADC		0.00	0.00	0.00	29.3
235242	2/ 6/02	14:05 - 14:05	SOIL / SOIL - ADC		0.00	0.00	0.00	27.2
235331	2/ 6/02	16:29 - 16:29	SOIL / SOIL - ADC		0.00	0.00	0.00	0.00
235336	2/ 6/02	16:39 - 16:39	SOIL / SOIL - ADC		0.00	0.00	0.00	0.00
238063	2/15/02	06:05 - 06:05	LDR / LOAD/DEMO/RECYCLE		1.00	0.00	12.00	0.00
239030	2/19/02	06:07 - 06:07	LDR / LOAD/DEMO/RECYCLE		1.00	0.00	12.00	0.00
242578	2/28/02	10:26 - 10:26	LDR / LOAD/DEMO/RECYCLE		1.00	0.00	12.00	0.00
242629	2/28/02	11:19 - 11:19	LDR / LOAD/DEMO/RECYCLE		1.00	0.00	12.00	0.00
242800	2/28/02	15:27 - 15:27	LDR / LOAD/DEMO/RECYCLE		1.00	0.00	12.00	0.00

Customer Summary

64      10.00      0.00      120.00      1,398.80

Grand Total:

64      10.00      0.00      120.00      \$1,398.80

Sent BY: HP LaserJet 3100;  
925 44 / 0499;  
Jun-7-02 10:06AM;  
Page 6/6

MAR. 18. 2002 5:56PM LONEY ASSOC.

NO. 295 P. 2/2



# SPECIAL DISCHARGE PERMIT

Terms and Conditions  
APPLICANT INFORMATION

PERMIT NUMBER 50490601

APPLICANT BUSINESS NAME <u>Pulte Home Corporation</u>		SIC CODE <u>4950</u>
ADDRESS OF SITE DISCHARGING WASTEWATER <u>1275 65<sup>th</sup> St. &amp; 1269 66<sup>th</sup> St.</u> <small>STREET ADDRESS</small>		APPLICANT MAILING ADDRESS <u>7031 Kell Center Parkway, Suite 150</u> <small>STREET ADDRESS</small>
<u>Emeryville</u> <small>CITY</small>	<u>94566</u> <small>ZIP CODE</small>	<u>Pleasanton</u> <small>CITY</small>

**CONTACT PERSONS**

<b>APPLICANT</b> <u>Mike Kim</u> <small>NAME</small>	<u>Project Engineer</u> <small>TITLE</small>	<u>(925)-249-3200</u> <small>PHONE NUMBER</small> Fax # <u>925-485-0391</u>
<b>CONSULTANT</b> <u>Mark Amisala</u> <small>NAME</small>	<u>Project Geologist</u> <small>TITLE</small>	<u>(510) 267-1970 X208</u> <small>PHONE NUMBER</small> Fax # <u>510 267-1972</u>
<b>CONTRACTOR</b> <u>Rick Jeffery</u> <small>NAME</small>	<u>Construction Mgr.</u> <small>TITLE</small>	<u>(510) 792-3774</u> <small>PHONE NUMBER</small>

### CERTIFICATION

I understand that issuance of a Special Discharge Permit does not exempt or preclude the facility from being issued a Discharge Minimization or Pollution Prevention Permit.

I understand that I am legally responsible for discharge of wastewater from the facility and for complying with the Terms and Conditions of this Special Discharge Permit.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Mike Kim  
NAME

Project Engineer  
TITLE

[Signature]  
SIGNATURE (SEE CERTIFICATION REQUIREMENTS ON REVERSE)

3/18/2002  
DATE

PERMIT NUMBER 5049060 1

## SPECIAL DISCHARGE PERMIT Terms and Conditions

### GENERAL CONDITIONS

- I. Pulte Home Corporation shall comply with all items of the attached *Special Discharge Permit Standard Terms and Conditions*.
- II. Pulte Home Corporation shall discharge Special Discharge Wastewater only from the specific source described in the *Special Discharge Permit Terms & Conditions, Criteria and Fees* form. The site address discharging wastewater is 1275 - 65<sup>th</sup> Street and 1269 - 66<sup>th</sup> Street in Emeryville. The discharge of all wastewater must comply with EBMUD Ordinance No. 311.
- III. Pulte Home Corporation shall immediately cease discharge of treated or managed Special Discharge Wastewater if not in compliance with any of the terms and conditions of this Special Discharge Permit.
- IV. Pulte Home Corporation shall comply with EBMUD Ordinance No. 311, Title I, Section 5, which prohibits the discharge of storm water, drainage water, and groundwater to the community sewer.
  - ☑ This Special Discharge Permit is considered a waiver of the prohibition.
- V. Pulte Home Corporation shall comply with EBMUD Ordinance No. 311, Title II, Section 2d, which prohibits discharge of wastewater directly into a manhole or other opening into the community sewer system.
  - ☑ This Special Discharge Permit is considered a waiver of the prohibition.
- VI. Pulte Home Corporation shall not discharge Special Discharge Wastewater authorized by this Special Discharge Permit after the expiration date.

### COMPLIANCE REQUIREMENTS

- I. Pulte Home Corporation shall pretreat or manage all Special Discharge Wastewater before discharge to the side sewer. Pretreatment or management shall be sufficient to achieve compliance with the limits established in this Special Discharge Permit.
- II. Pulte Home Corporation shall post a sign in the work area stating "All Wastewater Discharge must comply with the Special Discharge Permit."
- III. Pulte Home Corporation shall not discharge wastewater within 24 hour of any storm events. A storm event is defined as "any precipitation heavier than a drizzle."
- IV. Pulte Home Corporation shall not exceed a discharge flow rate 100 gallons/minute.

### WASTEWATER DISCHARGE LIMITS

Pulte Home Corporation shall not discharge Special Discharge Wastewater into the community sewer if the strength of the wastewater exceeds:

- ☑ Limits derived from EBMUD Ordinance No. 311.

### MONITORING REQUIREMENTS

Pulte Home Corporation shall monitor wastewater discharge operations to ensure compliance with the terms and conditions of this Special Discharge Permit. Monitoring may include sampling and analysis of the discharge. The sampling location shall be as shown on the site diagram.

### INSPECTIONS

The District may conduct random, unannounced inspections to verify compliance with the terms and conditions of this Special Discharge Permit. Pulte Home Corporation shall grant District personnel access to the facility to conduct inspections and collect Special Discharge Wastewater samples.

### ENFORCEMENT AND PENALTIES

Failure to comply with the terms and conditions of this Special Discharge Permit and *Special Discharge Permit Standard Terms and Conditions* may result in enforcement actions, including violation follow-up fees, civil enforcement penalties, and administrative fines of up to \$5,000 per day.

### RATES AND CHARGES

This Special Discharge Permit may be amended to include changes to rates and charges that may be established by the District during the term of this Special Discharge Permit.

### AUTHORIZATION

Special Discharge Permit Holder is hereby authorized to discharge Special Discharge Wastewater to the community sewer, subject to compliance with EBMUD Ordinance No. 311, Special Discharge Permit Terms and Conditions, and billing conditions.

Effective: March 29, 2002Expiration: June 29, 2002

*David R Williams*  
Director, Wastewater Department

3/29/02  
Date



# SPECIAL DISCHARGE PERMIT

Terms and Conditions  
CRITERIA and FEES

PERMIT NUMBER 50490601

Purpose: This information demonstrates the wastewater meets established criteria for a Special Discharge Permit. Check each statement that applies and supply required information.

Reasonable and cost effective means of recycling and reuse of the wastewater are unavailable. Provide information describing what means were considered, and why they were not implemented.

on-site reuse for dust control considered, but volume of water too large for this alternative alone

The wastewater is unsuitable for discharge to the storm sewer. Provide explanation.

Historical data for site indicate waste water pumped from the site may have contamination above level acceptable for discharge to storm sewer

The wastewater is generated only within the SD-1 wastewater service area.

The wastewater meets source criteria. Describe the source and operations generating the wastewater. Include the Wastewater Source Category from Special Discharge Permit Standard Terms and Conditions, Section A, II

Construction dewatering (short term discharge) for standing groundwater generated during excavation

The wastewater is discharged during a limited period of time, not exceeding 90 days.

Maximum Discharge Duration: 90 days Start Date: 2/28/02 <sup>March 29, 2002</sup> Hours of Discharge: 9 a.m. - 5 p.m.

Wastewater volume and flow do not cause a capacity problem for the sanitary sewer system.

Total Discharge Volume: 100,000 gallons MAXIMUM, 60,000 gal initial

The side sewer through which the wastewater is discharged has been identified, and approved if required. Attach a site diagram. Show facility location, property lines, wastewater source, drainage plumbing, the side sewer, and sampling location.

Known and potential pollutants present in the wastewater are characterized.

Attach a summarized list of all pollutant concentrations present in the wastewater. Also include the complete certified laboratory analytical report.

Treatment technology or best management practices have been identified that will result in the wastewater meeting discharge limits.

1) For EBMUD metered sources, describe pretreatment or best management practices that will be used to ensure the wastewater discharge complies with Ordinance No. 311 wastewater discharge limits.

Provide EBMUD account number: \_\_\_\_\_

OR

For unmetered sources, including construction dewatering or groundwater, describe pretreatment or best management practices that will be used to ensure pollutant concentrations do not exceed SD-1 annual average influent concentrations. Water from the excavation dewatering will be pumped into holding tanks and sampled. If the water exceeds acceptable discharge concentrations, it will be pumped through an activated carbon drum prior to discharge.

2) Attach a schematic flow diagram of the pretreatment system. The diagram must accurately depict the pretreatment system as constructed. Field deviation from the diagram is not allowed, unless pretreatment system modifications are approved and the permit revised prior to the discharge.

This Section for EBMUD Use Only - All fees will be applied to the account established for this permit.

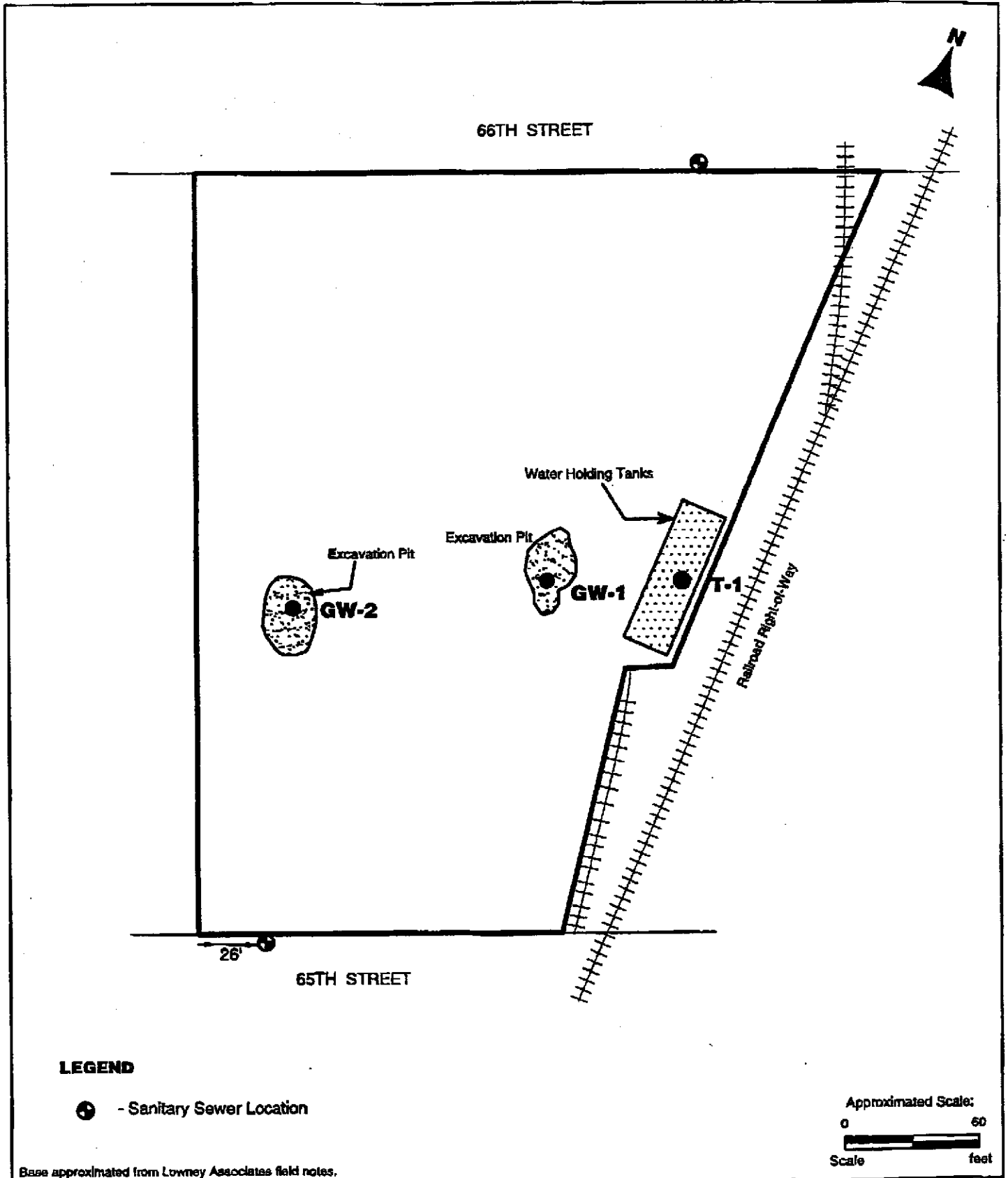
Permit application fee - \$650

Volatile Organics Testing - \$127  Heavy Metals Testing - \$115  Oil and Grease Testing - \$62  pH Testing - \$15

Additional Wastewater Treatment/Disposal Charges - \$50 @ \$0.05/gal x 60,000 gal initial = \$3,000 Initial

Total: \$ 3,650.00





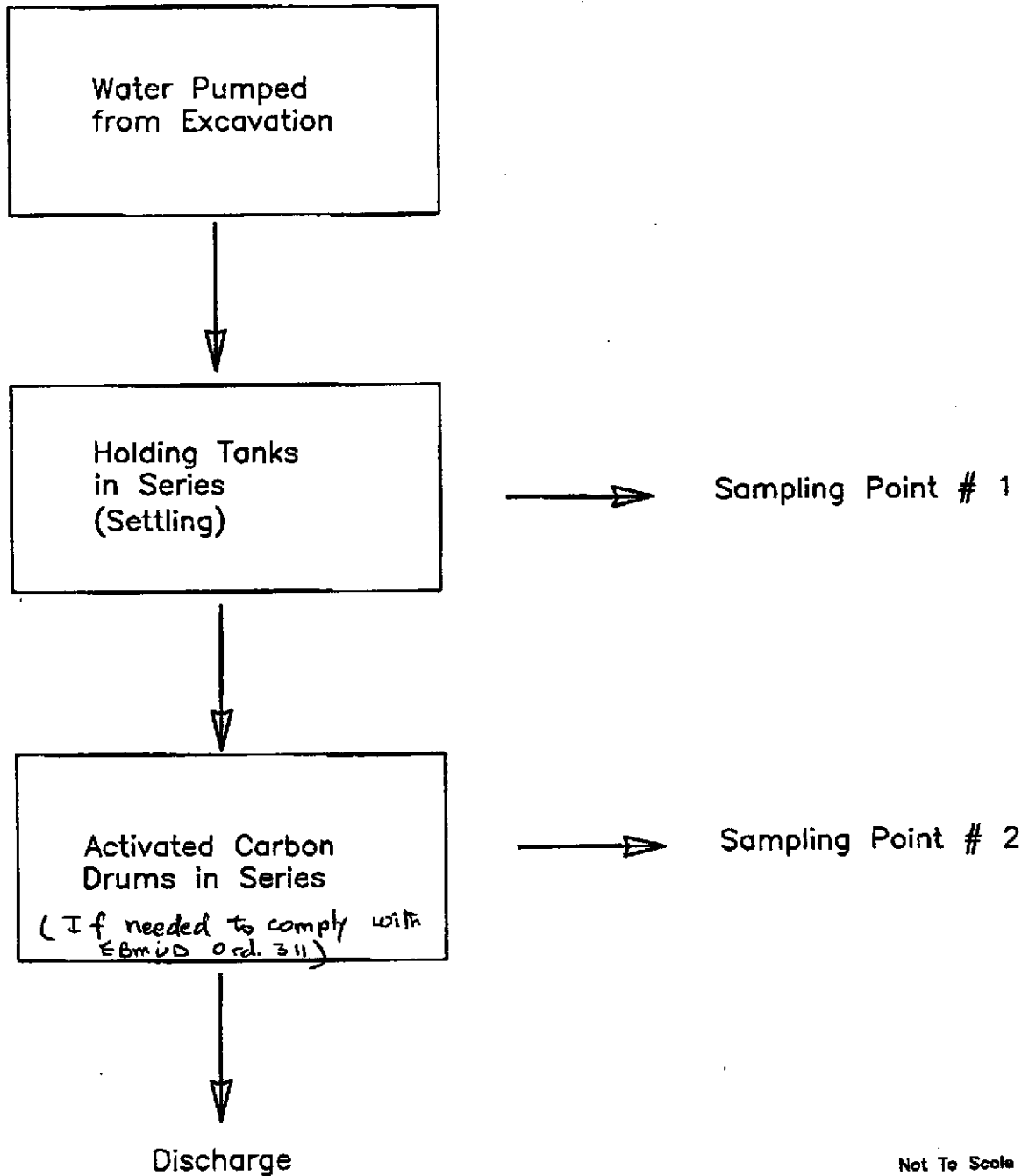
Base approximated from Lowney Associates field notes.

### SITE PLAN

1269 66TH STREET, 1274 65TH STREET  
Emeryville, California

Permit No. 50490601

Pretreatment System Schematic Flow Diagram  
Activity: Construction Dewatering



Not To Scale

3/02 CCM

Flow Diagram  
65th and 66th Street Properties  
Emeryville, California

**APPENDIX C  
MANIFEST FORMS AND DISCHARGE PERMIT**