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Alameda County

JAN 22 2003

January 14, 2003

Environmental Health

Mr. Scott Seery
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Subject: Site Investigation Report for Sunol Pump Station, 505 Paloma Way,
Sunol, California

Dear Mr. Seery:

Enclosed is Weiss Associates' report detailing the soil and groundwater investigation at SF-PUC Sunol Pump Station, 505 Paloma Way, Sunol. The field work was conducted on August 22 and 23, 2002.

As requested in your letter (July 10, 2002) approving the investigation workplan, two additional sample points were added (PS-4 and PS-5), as well as laboratory analyses for MtBE (by EPA Method 8260), Semi-Volatile Organic Compounds, and Oil & Grease.

Based on the limited number of samples reporting detectable constituents of concern in soil and groundwater, and the localized nature of the contamination, Weiss has recommended that the Alameda County Department of Environmental Health consider closure for the subject site.

Please call me (415-695-7386) if you have any questions.

Sincerely,

Randall D. Smith
Regulatory Specialist

Cc: Chuck Headlee, RWQCB
Gary Williams, SFPUC

Alameda County

JAN 22 2003

Environmental Health



Weiss Associates

Environmental Science, Engineering and Management

5801 Christie Avenue, Suite 600, Emeryville, CA 94608-1939 Fax: 510-547-5043 Phone: 510-450-6000

SITE INVESTIGATION REPORT

for

**Sunol Pump Station
505 Paloma Way
Sunol, California**

RO 340

prepared for

San Francisco Public Utilities Commission
3801 Third Street, Suite 600
San Francisco, California
Task # Weiss-03&04, Contract #BPUC2000129

January 7, 2003

PHASE II SITE ASSESSMENT REPORT

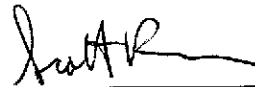
for

**Sunol Pump Station
505 Paloma Way
Sunol, California**

prepared by

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5801 Christie Avenue, Suite 600
Emeryville, CA 94608


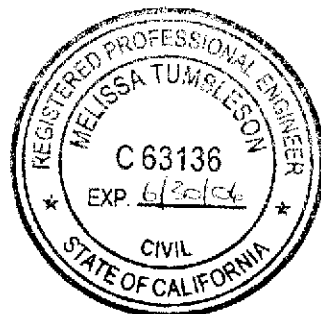
WA Job #268-1573-3-1



1/7/03

Scott Bourne
Senior Staff Engineer

Weiss Associates work for the soil sampling at the Sunol Pump Station was conducted under my supervision. To the best of my knowledge, the data contained herein are true and accurate and satisfy the scope of work prescribed by the client for this project. The data, findings, recommendations, specifications or professional opinions were prepared solely for the use of the San Francisco Public Utilities Commission in accordance with generally accepted professional engineering and geologic practice.



1/7/03

Melissa Tumbleson, P.E.
Project Engineer
Civil Registration No. C63136

Date

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Appendix B—Analytical Results and Chain-of-Custody Forms
Appendix C—Boring Logs

ACRONYMS AND ABBREVIATIONS

ACDEH	Alameda County Department of Environmental Health
ACFCWCD	Alameda County Flood Control and Water Conservation District
BTEX	Benzene, toluene, ethyl benzene, and total xylenes
Cal/OSHA	California Occupational Safety and Health Administration
COC	constituent of concern
ft bgs	feet below ground surface
mg/kg	Milligrams per kilogram
MTBE	Methyl Tertiary Butyl Ether
ND	non-detect at or above the laboratory reporting limit
RBSL	Risk-Based Screening Level based on RWQCB's Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater, Volume 1 Table D, Interim Final—December 2001
RWQCB	Regional Water Quality Control Board
STLC	Soluble threshold limit concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons , -D (diesel range), -G (gasoline range)
TRPH	Total Recoverable Petroleum Hydrocarbon
USEPA	United States Environmental Protection Agency
Weiss	Weiss Associates
WET	Waste Extraction Test for STLC

EXECUTIVE SUMMARY

This Executive Summary serves as a complement to the entire report and should not be treated as a stand-alone document. The reader is referred to the detailed information provided within this report for additional data not contained in this Executive Summary.

Sunol Pump Station (the Site) is located at 505 Paloma Way, Sunol, California (Figure 1). The site is located in the City of Sunol at the intersection of Paloma Way and Pleasanton-Sunol Road approximately 10 miles east of the Pacific Ocean.

Weiss Associates (Weiss) was contracted by the San Francisco Public Utilities Commission to conduct the August 22 and 23, 2002 soil and groundwater sampling at the Site (Site Investigation.) The objective of the Site investigation were to fill in data gaps for the purpose of determining the effectiveness of historic remedial activities and the need for any future remedial activities. Weiss performed the following activities to accomplish the objective:

- Conducted soil and groundwater sampling activities through the use of Hydropunch and hollow-stem auger drilling technologies; and,
- Prepared this report detailing the findings of the Site investigation.

Three underground storage tanks were removed from the Site in November 1993. One of the tanks was a 10,000-gallon diesel tank. The other two tanks were 400-gallon waste oil tanks. Approximately 125 cubic yards of soil were excavated during the tank removal, 75 cubic yards of which were contaminated with petroleum hydrocarbons. An additional 65 cubic yards of soil was excavated in July/August 1995. Confirmation soil samples were analyzed for the following: total petroleum hydrocarbons as diesel (TPH-D), benzene, toluene, ethyl benzene, and total xylenes (BTEX); and, CAM 17 metals. The area was back-filled after confirmation of contaminated soil removal.

After soil excavation activities, petroleum hydrocarbon contamination remained in the area adjacent to the western side of the Pump Station building. The sampling activities presented in this report describe subsurface borings both in the area of past contamination and areas surrounding the past contamination.

Subsurface sample locations are as shown in Figure 2, and soil and groundwater sample results are summarized in Tables 1 through 4. A total of five subsurface borings were installed to an approximate depth of twenty feet or until groundwater was encountered. Soil and ground water samples were collected from each boring at 5 ft bgs and then in five foot intervals to a maximum depth of 20 ft bgs.

The following conclusions are based on the findings listed and discussed above:

- Groundwater samples evidence no contaminants above the respective detection limits for borings PS-1, PS-2, PS-3, and PS-5.
- Groundwater samples evidence detectable levels of TPH-D, BTEX and SVOCs at PS-4.
- Groundwater concentrations of TPH-D, fluorene, phenol, phenanthrene, and anthracene at PS-4 were above the respective RBSLs .
- Soil samples evidence detectable concentrations of TPH-D at all boring locations in levels below applicable RBSLs.

Based on the limited number of samples reporting detectable COCs in soil or groundwater and the localized nature of the contamination, Weiss suggests that the ACDEH consider closure for the Sunol Pump Station.

1. INTRODUCTION AND BACKGROUND INFORMATION

Sunol Pump Station (the Site) is located at 505 Paloma Way, Sunol, California (Figure 1). The site is located in the City of Sunol at the intersection of Paloma Way and Pleasanton-Sunol Road approximately 10 miles east of the Pacific Ocean.

Weiss Associates (Weiss) was contracted by the San Francisco Public Utilities Commission to conduct the August 22 and 23, 2002 soil and groundwater sampling at the Site. The objective of the Site investigation was to fill in data gaps for the purpose of determining the effectiveness of historic remedial activities and the need for any future remedial activities. Weiss performed the following activities to accomplish the objective:

- Conducted soil and groundwater sampling activities through the use of Hydropunch and hollow-stem auger drilling technologies; and,
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Three underground storage tanks were removed from the Site in November 1993. One of the tanks was a 10,000-gallon diesel tank. The other two tanks were 400-gallon waste oil tanks. Approximately 125 cubic yards of soil were excavated during the tank removal, 75 cubic yards of which were contaminated with petroleum hydrocarbons. An additional 65 cubic yards of soil was excavated in July/August 1995. Confirmation soil samples were analyzed for the following: total petroleum hydrocarbons as diesel (TPH-D), benzene, toluene, ethyl benzene, and total xylenes (BTEX); and, CAM 17 metals. The area was back-filled after confirmation of contaminated soil removal.

After soil excavation activities, petroleum hydrocarbon contamination remained in the area adjacent to the western side of the Pump Station building. The sampling activities presented in this report describe subsurface borings both in the area of past contamination and areas surrounding the past contamination.

The required drilling permits were obtained from the Alameda County Flood Control and Water Conservation District (ACFCWCD). Underground Service Alert (USA) was contacted to ascertain the presence and location of underground utilities, prior to conducting any boring or sampling activities.

2. SITE SAMPLING ACTIVITIES

Weiss Associates conducted soil sampling on August 22-23, 2002. Gregg Drilling was subcontracted to complete subsurface drilling services for the project and Severin Trent Laboratory was subcontracted to provide analytical services.

The areas sampled and the constituents of concern (COCs) analyzed were based on the Workplan for Soil and Groundwater Sampling prepared by Weiss Associates, dated March 13, 2002,

and the clarifications presented in the Alameda County Department of Environmental Health (ACDEH) Workplan approval, dated July 10, 2002 (Appendix A). A total of five subsurface borings were installed to an approximate depth of twenty feet or until groundwater was encountered. Soil and ground water samples were collected from each boring at 5 ft bgs and then in five foot intervals to a maximum depth of 20 ft bgs. Subsurface sample locations are as shown on Figure 2 and were installed:

- To a depth of 20 feet below grade surface (ft bgs) in the area previously suspected to contain subsurface contamination along the western wall of the pump building (PS-1.)
- To a depth of 20 ft bgs in four borings surrounding the area previously suspected to contain subsurface contamination (PS-2 to PS-5.) PS-2 and PS-3 were hydrologically downgradient of the suspected contamination and PS-4 and PS-5 were hydrologically upgradient of the suspected contamination. Direction of ground water was assumed based on hydrologic activity in the area.

The soil samples were collected in new brass or stainless steel tubes. The tubes were immediately capped with Teflon tape and plastic end caps. The samples were placed in an iced cooler for transport to the laboratory under chain-of-custody procedures. The samples were analyzed for one or more of the following:

- Total petroleum hydrocarbons as diesel (TPH-D) by USEPA Method 8015;
- Benzene, toluene, ethyl benzene, and total xylenes (BTEX) by USEPA Method 8020;
- Methyl tertiary-butyl ether (MTBE) by USEPA Method 8260
- Oil and Grease (O&G) by USEPA Method 1664A; and
- Semi-volatile organic compounds (SVOC) by USEPA Method 8270C.

The analytical data sheets and chain-of-custody records are presented in Appendix B. Soil boring logs are included as Appendix C.

3. FINDINGS

Subsurface sample locations are as shown in Figure 2, and soil and groundwater sample results are summarized in Tables 1 through 4. All soil samples were reported as non-detect at all depths for BTEX and MTBE. All soil borings exhibited detectable levels of TPH-D at some depth at or above 20 ft bgs. Soil boring PS-1 exhibited detectable levels of O&G and SVOCs at depths above 20 ft bgs.

Groundwater samples at PS-1, PS-2, PS-3 and PS-5 were reported as non-detect for all analytes. Groundwater samples at PS-4 evidenced detectable levels of TPH-D, benzene, xylenes and SVOCs.

All soil and groundwater samples were compared to December 2001 Risk Based Screening Levels (RBSLs) published by the San Francisco Regional Water Quality Control Board (RWQCB) for residential and commercial land use where groundwater is a potential drinking water source (Tables A and C; RWQCB, 2001). All soil sample results evidenced concentrations below the pertinent RBSLs. Generally, groundwater sample results evidenced concentrations below the applicable RBSLs. However, groundwater at PS-4 evidenced concentrations of TPH-D, fluorene, phenanthrene and anthracene above the pertinent RBSLs.

4. CONCLUSIONS

The following conclusions are based on the findings listed and discussed above:

- Groundwater samples evidence no contaminants above the respective detection limits for borings PS-1, PS-2, PS-3, and PS-5.
- Groundwater samples evidence detectable levels of TPH-D, BTEX and SVOCs at PS-4.
- Groundwater concentrations of TPH-D, fluorene, phenol, phenanthrene, and anthracene at PS-4 were above the respective RBSLs .
- Soil samples evidence detectable concentrations of TPH-D at all boring locations in levels below applicable RBSLs.
- Soil samples evidence the highest concentrations of TPH-D, O&G and SVOCs in the PS-1 area, all of which were below the applicable RBSLs.

5. DISCUSSION

Soil samples evidenced detectable levels of TPH-D, O&G and SVOCs in the PS-1 area. The Soil Remedial Activities Report (CDM, 1995) indicated the eastern wall of the excavation area evidenced total recoverable petroleum hydrocarbon (TRPH) at a concentration of 120 mg/kg, which exceeded the soil cleanup level of 100 mg/kg approved by the ACDEH. The 1995 excavation in the PS-1 area was terminated at that time as to not undermine the pump station building foundation. Further soil excavation in the PS-1 area does not appear necessary at this time as groundwater sample results at PS-1 did not evidence concentrations above the laboratory detection limit.

Since the Sunol Pump Station is located in close proximity to the Sunol groundwater basin, a potential or future drinking water resource, the groundwater concentrations from samples at the site were compared to the RBSLs published by the San Francisco RWQCB for subsurface contamination where groundwater is a current or potential drinking water source (Table C; RWQCB, 2001). PS-4 groundwater samples evidenced TPH-D at 340 ug/L which is above the 100 ug/L RBSL, however this RBSL is a no-adverse-response-level which is very conservative.

Ground water samples from PS-4 also reported fluorene, phenol, phenanthrene, and anthracene at concentrations above the respective RBSLs. However, none of the RBSLs for these compounds is based on human health risk associated with drinking water (Table F-1). The RBSL for

phenol is a ceiling level based on odor and other nuisance concerns (Table F-1). The RBSLs for fluorene, phenanthrene and anthracene are based on aquatic life protection (Table F-1) which is not a concern at this Site since surface water bodies in the area are located a sufficient distance away to allow for attenuation of contaminants prior to ground water reaching the surface water. Additionally, the drinking water screening levels for protecting human health for these compounds are all at least an order of magnitude higher than the concentrations detected in PS-4 (Table F-1).

Four groundwater samples to the south of PS-4 evidence no concentrations above the laboratory detection limits. Therefore, it appears that the groundwater contamination is localized and has not migrated to the south of PS-4.

6. RECOMMENDATIONS

Based on the limited number of samples reporting detectable COCs in soil or groundwater and the localized nature of the contamination, Weiss suggests that the ACDEH consider closure for the Sunol Pump Station.

7. REFERENCES

- Regional Water Quality Control Board, 2001. Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater, Volume 1: Summary Tier 1 Lookup Tables. Interim Final, December 2001.
- Regional Water Quality Control Board, 2001. Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater, Volume 2: Background Documentation for the Development of Tier 1 Soil and Groundwater Screening Levels. Interim Final, December 2001.
- Weiss Associates, 2001. Proposal for Site Investigation Services at the Sunol Pump Station, Sunol, California, December 7, 2001.
- Camp Dresser & McKee, 1995. Soil Remedial Activities Report. Sunol Pump Station, Sunol California.

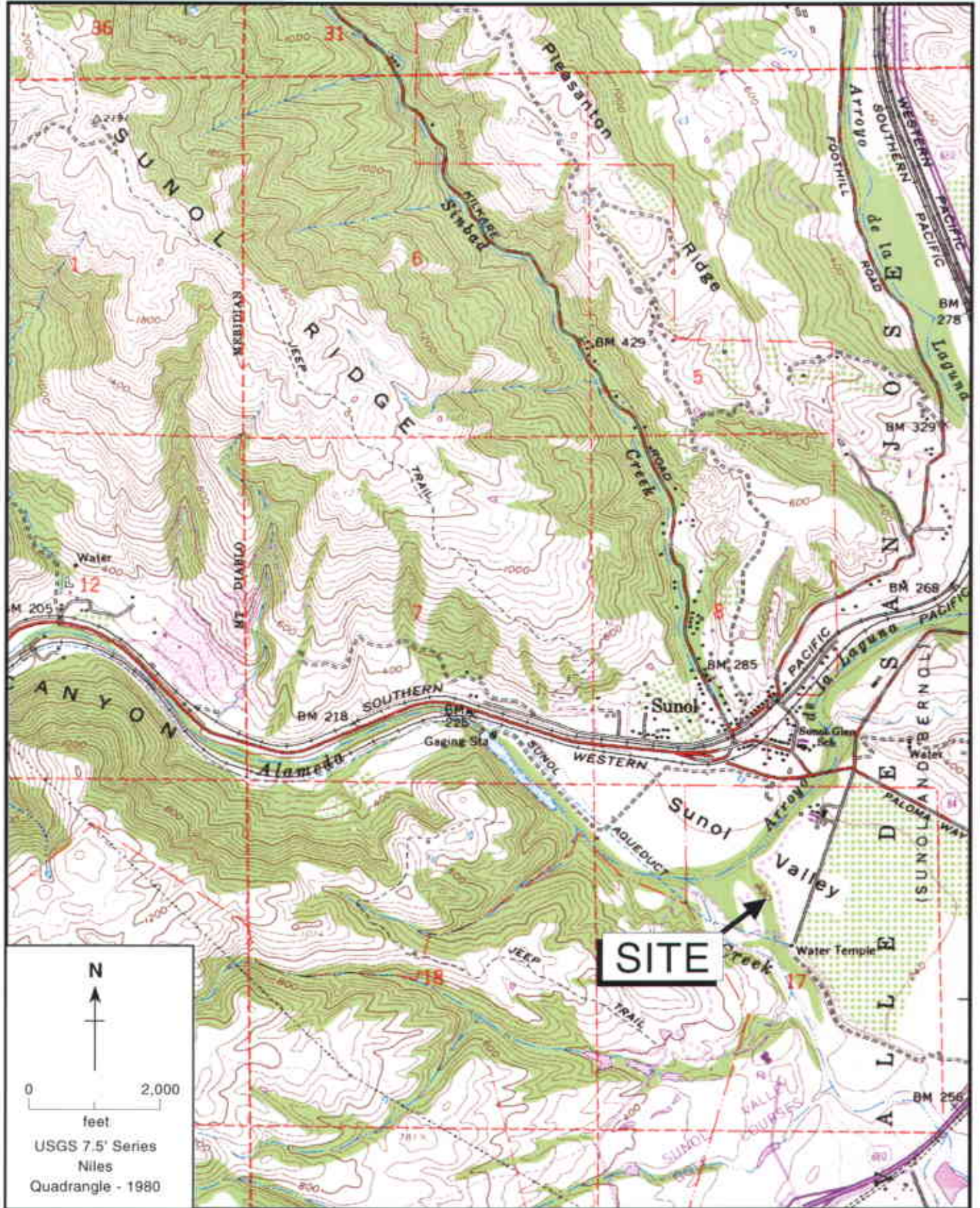


Figure 1. Site Vicinity Map, Sunol Pump Station

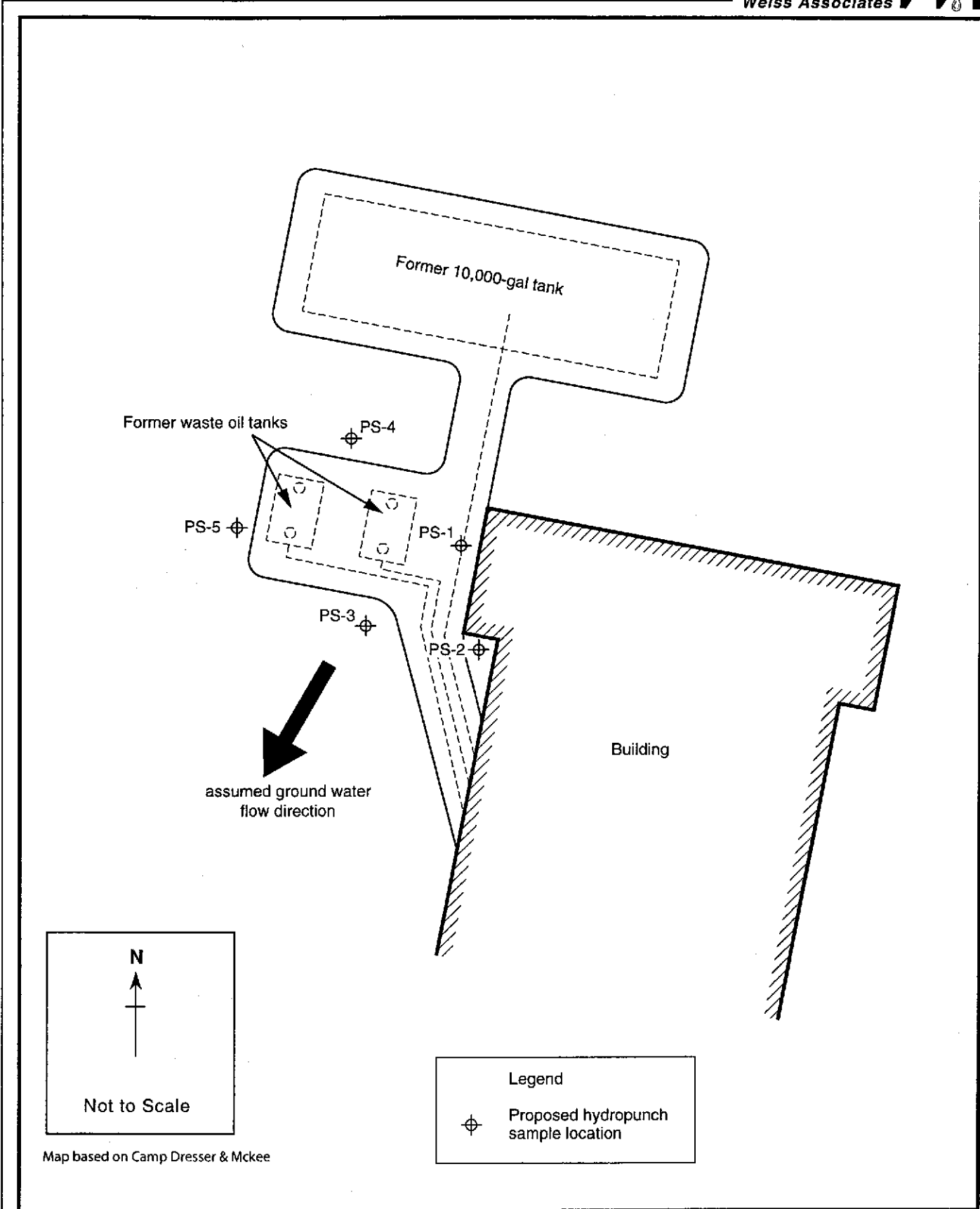


Figure 2. Site Plan, Sunol Pump Station

Table 1. Soil Sample Results from Hydropunch Borings, Sunol Pump Station, August 22-23, 2002

Sample Number	TPH-D	O&G	BTEX	MTBE	SVOCs
	mg/kg				
PS-1-S-5	48	1400	ND	ND	See Table 4
PS-1-S-10	2.3	ND	ND	ND	NA
PS-1-S-15	7.0	78	ND	ND	See Table 4
PS-1-S-20	ND	ND	ND	ND	NA
PS-2-S-5	ND	ND	ND	ND	NA
PS-2-S-10	ND	ND	ND	ND	NA
PS-2-S-15	ND	ND	ND	ND	NA
PS-2-S-20	1.1	ND	ND	ND	NA
PS-3-S-5	ND	ND	ND	ND	NA
PS-3-S-10	1.2	ND	ND	ND	NA
PS-3-S-15	2.0	ND	ND	ND	NA
PS-3-S-20	ND	ND	ND	ND	NA
PS-4-S-5	ND	ND	ND	ND	NA
PS-4-S-10	3.8/4.0*	ND	ND	ND	NA
PS-4-S-15	ND	ND	ND	ND	NA
PS-4-S-20	ND	ND	ND	ND	NA
PS-5-S-5	ND	ND	ND	ND	NA
PS-5-S-10	ND	ND	ND	ND	NA
PS-5-S-15	1.2	ND	ND	ND	NA
PS-5-S-20	ND	ND	ND	ND	NA
Reporting Limit	1.0	50	0.005	0.005	--
Regulatory Limit**	100/ 100	--	B-0.045/0.045 T-2.6/2.6 E-2.5/2.5 X-1.0/1.0	0.028/0.028	--

*The second result is after silica gel cleanup.

**Per RWQCB, Risk Based Screening Levels, Interim Final December 2001, Table C. Subsurface Soil and Groundwater RBSLs where groundwater IS a potential drinking water source. (Residential / Industrial)

NA - Not analyzed

ND - Not detected above the laboratory reporting limit.

Table 2. Ground Water Results from Hydropunch Borings, Sunol Pump Station, August 22-23, 2002

Sample Number	TPH-D	O&G	BTEX	MTBE	SVOCs
	µg/L (unless otherwise noted)				
PS-1-GW	ND	ND	ND	ND	NA
PS-2-GW	ND	ND	ND	ND	NA
PS-3-GW	ND	ND	ND	ND	NA
PS-4-GW	340	ND	B-0.70 T-ND E-ND X-1.4	ND	See Table 3
PS-5-GW	ND	ND	ND	ND	NA
Reporting Limit	50	1.0-1.9 mg/L	0.5	5.0	--
Regulatory Limit*	100	--	B-1.0 T-40 E-30 X-13	5.0	Various

*Per RWQCB, Risk Based Screening Levels, Interim Final December 2001, Table C. Subsurface Soil and Groundwater RBSLs where groundwater IS a potential drinking water source. (Residential / Industrial)

NA – Not analyzed

ND – Not detected above the laboratory reporting limit.

Table 3. SVOC Results in Ground Water from Hydropunch Borings, Sunol Pump Station, August 22-23, 2002

Analyte	PS-4-GW	Reporting Limit	Regulatory Limit*
	μg/L		
Phenol	11	3.5	5.0
4-Methylphenol	13	3.5	--
Napthalene	6.5	3.5	21
Acenaphthene	14	3.5	20
Dibenzofuran	5.2	3.5	--
Fluorene	10	3.5	3.9
Phenanthrene	13	3.5	4.6
Anthracene	4	3.5	0.73
Benzoic acid	32	17	--

*Per RWQCB, Risk Based Screening Levels, Interim Final December 2001, Table C. Subsurface Soil and Groundwater RBSLs where groundwater IS a potential drinking water source.

Note: All other 8270 compounds were report as non-detect.

Table 4. SVOC Results in Soil from Hydropunch Borings, Sunol Pump Station, August 22-23, 2002

	PS-1-S-5	PS-1-S-15	Reporting Limit	Regulatory Limit**
Analyte	mg/kg			
Phenol	ND	0.070	1.7/0.067*	0.076/0.076

*The first reporting limit is for PS-1-S-5, the second is for PS-1-S-15.

** Per RWQCB, Risk Based Screening Levels, Interim Final December 2001, Table C. Subsurface Soil and Groundwater RBSLs where groundwater IS a potential drinking water source. (Residential / Industrial)

Note: All other 8270 compounds were report as non-detect.

ND – Not detected above the laboratory reporting limit.

APPENDIX A

**WORKPLAN FOR SOIL AND GROUND WATER SAMPLING AND
ACDEH WORKPLAN APPROVAL**



Weiss Associates *Environmental Science and Engineering Services*

5801 Christie Avenue, Suite 600, Emeryville, CA 94608

Phone: 510-450-6000

**WORKPLAN FOR SOIL AND GROUND WATER
SAMPLING**

for

**Sunol Pump Station
Sunol, California**

prepared for

San Francisco Public Utilities Commission
3801 Third Street, Suite 600
San Francisco, California 94124

March 13, 2002

WORKPLAN FOR SOIL AND GROUND WATER SAMPLING

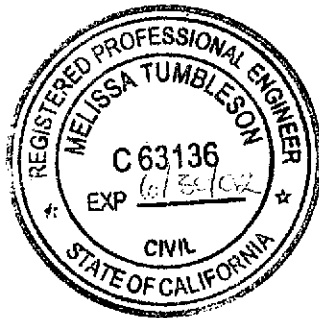
for

**Sunol Pump Station
Sunol, California**

prepared by

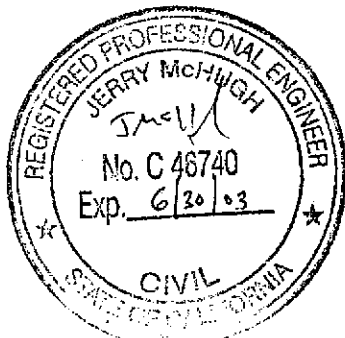
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5801 Christie Avenue, Suite 600
Emeryville, CA 94608

Weiss Job # 268-1573-3



Melissa Tumbleson, P.E.
Civil Engineer No. C63136
Project Manager

Weiss Associates' work for the San Francisco Public Utilities Commission, was conducted under my supervision. To the best of my knowledge, the data contained herein are true and accurate and satisfy the scope of work prescribed by the client for this project. The data, findings, recommendations, specifications or professional opinions were prepared solely for the use of the San Francisco Public Utilities Commission in accordance with generally accepted professional engineering and geologic practice. We make no other warranty, either expressed or implied, and are not responsible for the interpretation by others of the contents herein.



3/13/02

Jerry McHugh, P.E.
Civil Engineer No. C46740
Principal

Date

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FIGURES

Figure 1. Site Vicinity Map

Figure 2. Site Plan

1. INTRODUCTION

1.1 Objective

Weiss Associates (Weiss) was contracted by the San Francisco Public Utilities Commission (SFPUC) to conduct soil and ground water sampling at the Sunol Pump Station. The objectives of the sampling activities presented in this workplan are to fill in data gaps for the purpose of requesting site closure from the Alameda County Environmental Health Department (ACEHD).

1.2 Site Background

The Site is located in Sunol, California (Figure 1). Three underground storage tanks were removed from the Site in November 1993. One of the tanks was a 10,000-gallon diesel tank. The other two tanks were 400-gallon waste oil tanks. Approximately 125 cubic yards of soil were excavated during the tank removal, 75 cubic yards of which were contaminated with petroleum hydrocarbons. An additional 65 cubic yards of soil was excavated in July/August 1995. Confirmation soil samples were analyzed for the following: total petroleum hydrocarbons as diesel (TPH-D), benzene, toluene, ethyl benzene, and total xylenes (BTEX); and, CAM 17 metals. The area was backfilled after confirmation of contaminated soil removal.

After soil excavation activities, petroleum hydrocarbon contamination remained in the area adjacent to the west side of the Pump Station building. The sampling activities presented in this workplan include hydropunch borings both in the area of past contamination and downgradient of it (Figure 2).

2. SAMPLING DETAILS

2.1 Soil Sampling Procedures

Three hydropunch borings to a depth of approximately 20 ft bgs (or until ground water is encountered), are planned for the area around the Pump Station as shown in Figure 2. Soil samples from each boring will be collected every five feet and at the estimated soil/ground water interface. Three soil samples will be analyzed from each of the hydropunch borings. The interface sample and two additional samples with either the highest photo-ionization detector (PID) reading, or the most obvious contamination based on visual inspection (i.e., soil staining), will be analyzed. Remaining soil samples will be held by the analytical laboratory. Samples will be transported to the selected laboratory in iced coolers under a signed Chain of Custody.

The minimal soil cuttings generated from the direct-push drilling will be stored on-site in 5-gallon buckets, approximately one bucket per boring, until receipt of analytical results, at which time the soil cuttings will be properly disposed of by SFPUC.

Table 1 summarizes planned sample collection activities.

2.2 Ground Water Sampling Procedures

Ground water samples will be collected from the three hydropunch borings shown in Figure 2 at first encountered ground water. Samples will be transported to the selected laboratory in iced coolers under a signed Chain of Custody.

Purged ground water generated from sampling activities will be stored on-site in a 5-gallon bucket until receipt of analytical results, at which time the purged ground water will be properly disposed of by SFPUC.

Table 1 summarizes planned sample collection activities.

Table 1. Sample Collection Summary, Pump Station, Sunol, California

Sample Location	# Soil Samples	# Ground Water Samples	# Trip Blanks/Rinsate	Analyze for:
New Soil Borings (3)	3 per boring	1 per boring	2 (1 trip blank, 1 rinsate sample if not using disposable equipment)	TPH-D, BTEX, MTBE
TOTAL	9	3	2	

2.3 Quality Control Samples

A trip blank sample will be included in one of the coolers transporting the sample containers. Equipment rinsate samples will be collected on a daily basis as necessary if sample collection equipment is being reused between sample points. A summary of quality control sample collection to be performed during this investigation is included in Table 2.

Table 2. Field Quality Control Samples

Sampling Activity	Frequency of Occurrence
Trip Blank	Daily
Equipment Rinsate	Daily (as necessary)

2.4 Sample Identification

The identification numbers for the samples collected for this project will be represented by the following:

1. WW-W: 2 character designation of the sampling site followed by the boring number (e.g., PS-2 for the second boring at the Pump Station)
2. XX: 1-2 character designation for the sample matrix (e.g., GW-ground water, S-soil)
3. YY: 1-2 character designation of the sample depth (for soil samples only)

The identification number for the soil sample collected at 10 ft bgs from the second boring would be PS-2-S-10.

2.5 Decontamination Procedures

Disposable sampling equipment will be utilized as much as possible to avoid the need for decontamination. Non-disposable sampling equipment will be decontaminated between borings by cleaning with non-phosphate laboratory detergent and rinsing with water.

2.6 Laboratory Analysis Procedures

Weiss will procure the services of STL San Francisco (STL) for laboratory analysis of soil and ground water samples. STL is a state-certified lab located at 1220 Quarry Road in Pleasanton, California. Their certification number is I-2496. Analytical laboratory procedures will include calibration of instruments, analysis of samples, preventative maintenance, corrective action, data

reduction, validation and reporting. Analytical methods will be conducted in accordance with *EPA SW-846 Manual for Test Methods for Evaluating Solid Waste Final Update II*, September 1994.

Based on suspected contaminants, soil and ground water samples will be analyzed for the following:

- TPH-D;
- Benzene, toluene, ethyl benzene and xylenes (BTEX);
- Methyl tertiary-butyl ether (MTBE);

2.7 Testing Methods

Table 3 provides additional details on the testing to be performed.

Analyte	Analysis	Soil Practical Quantitation Limit (mg/kg)	Ground Water Practical Quantitation Limit (mg/L)
TPH-D	EPA 8015 modified	1.0	0.05
BTEX	EPA 8020	0.005	0.0005
MTBE	EPA 8020 or 8260	0.005	0.005

2.8 Reporting

Upon receipt of laboratory results, Weiss will prepare a report detailing the results of the sampling activities.

FIGURES

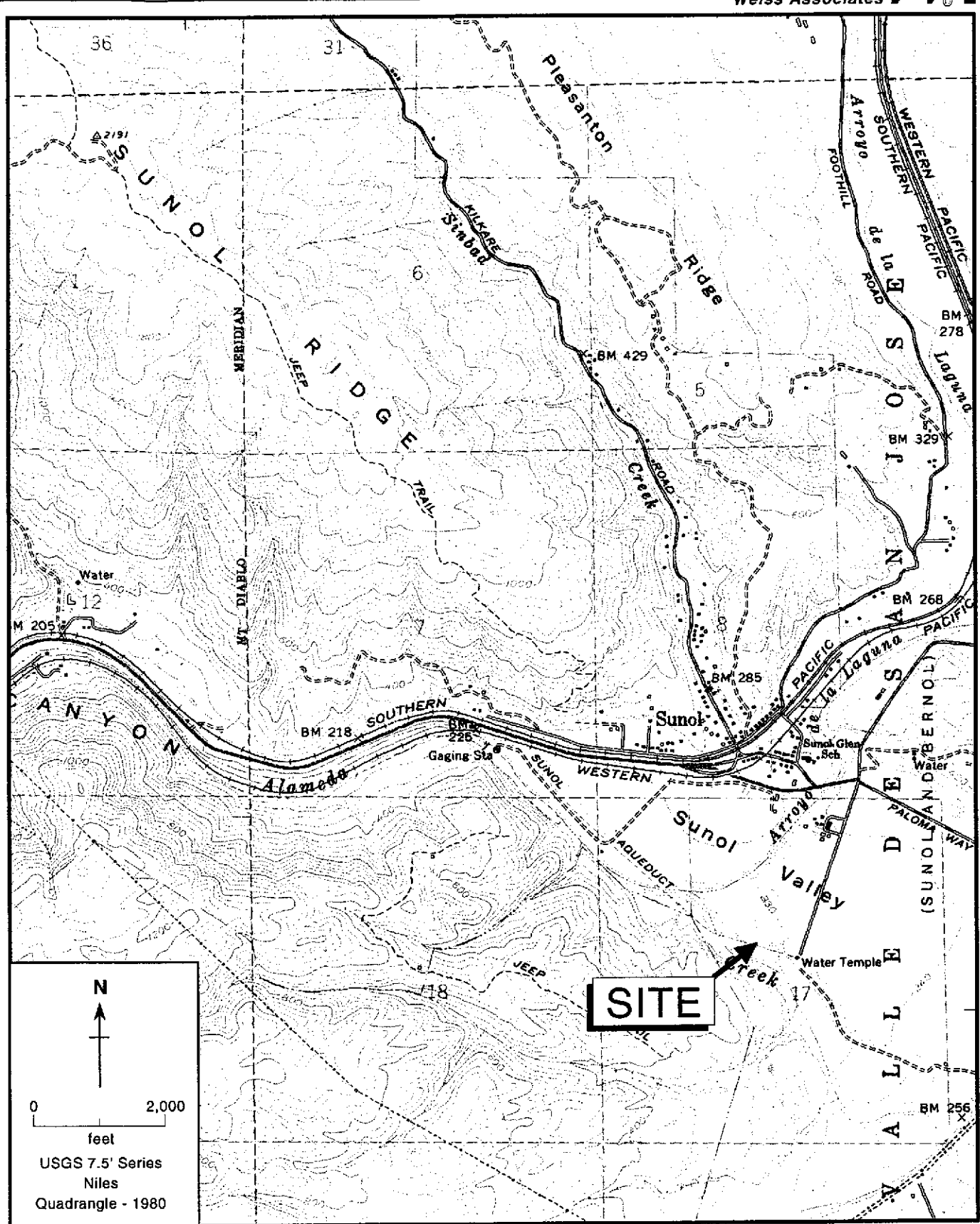


Figure 1. Site Vicinity Map, Sunol Pump Station

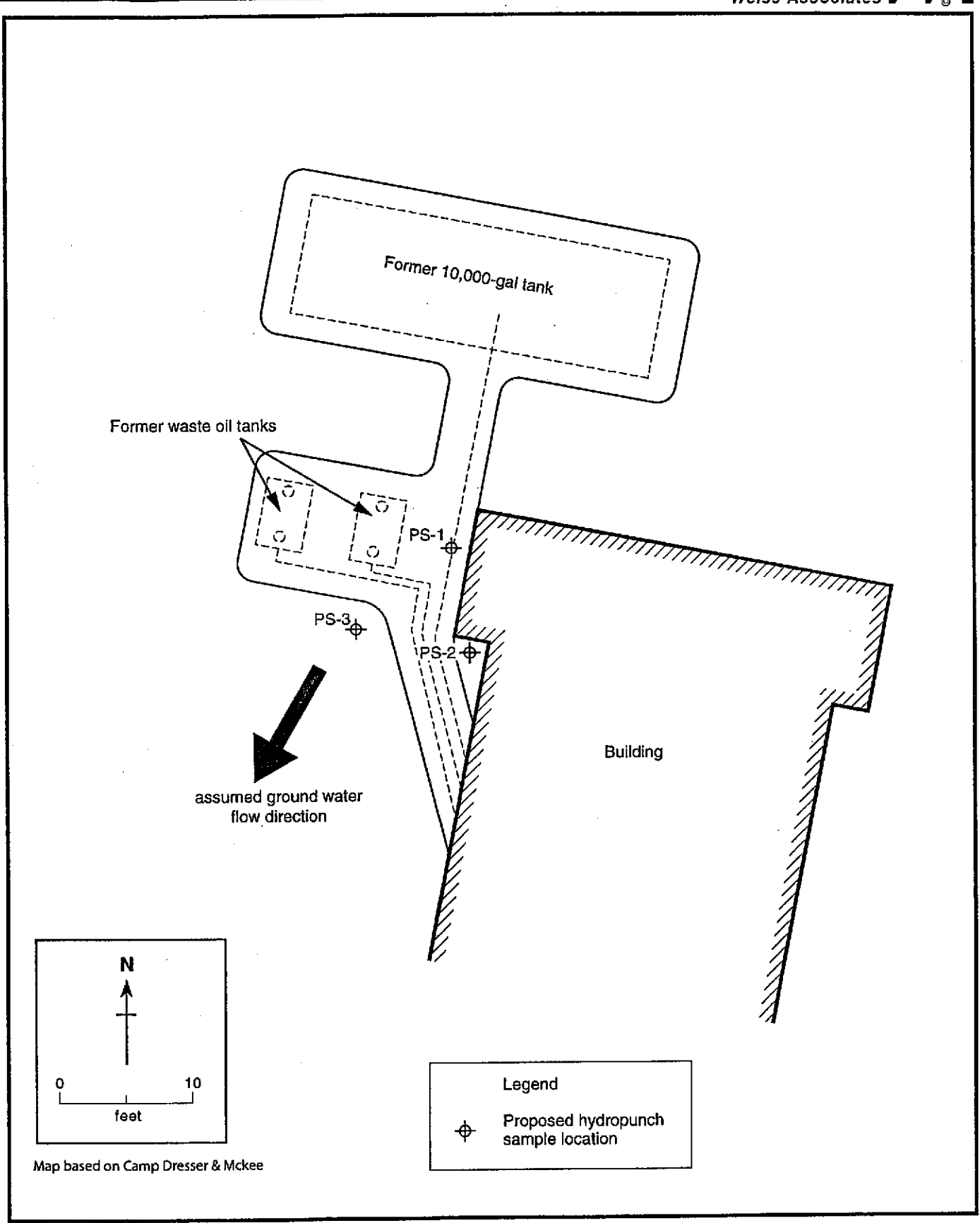


Figure 2. Site Plan, Sunol Pump Station

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

July 10, 2002

RO0000340

Mr. Paul Mazza
San Francisco Public Utilities Commission
1000 El Camino Real
Millbrae, CA 94030

RE: San Francisco Water Department, Sunol Pump Station, 505 Paloma Way, Sunol, Alameda County – Soil and Water Investigation Workplan

Dear Mr. Mazza:

I have completed review of the March 13, 2002 Weiss Associates (WA) soil and water investigation (SWI) workplan for the subject San Francisco Water Department (SFWD), Sunol Pump Station. The WA workplan calls for the installation of three (3) temporary sampling points at the site, and the collection of both soil and groundwater samples from each.

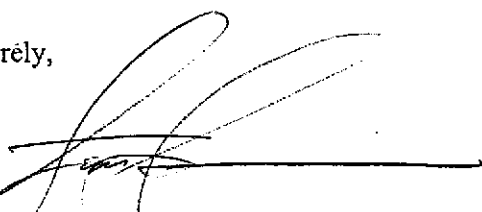
The cited WA workplan is accepted as submitted with the following clarifications:

1. Semi-Volatile Organic Compounds (SVOC), and Oil & Grease, are to be added to the proposed suite of sample analyses.
2. EPA Method 8260 is to be used for methyl tert-butyl ether (MtBE) confirmation.
3. An additional sample point is to be added just West of the former waste and lube oil tanks (in the area of former CDM boring BH-6), in addition to another sample point to be added midway between the former waste and lube oil tanks cluster, and the former 10,000 fuel tank (in the area of CDM boring BH-4).

This workplan is to be implemented within 60 days of the date of this letter.

Please call me at (510) 567-6783 to advise when field work has been scheduled.

Sincerely,


Scott O. Seery, CHMM
Hazardous Materials Specialist

cc: Chuck Headlee, RWQCB
Mat Katen, Zone 7 Water Agency, 5997 Parkside Dr., Pleasanton, CA 94588-5127
Randall Smith, S.F. Public Utilities Commission, 3801 Third St., Ste. 600, S.F., CA 94124
Melissa Tumbleson, Weiss Assoc., 5801 Christie Ave., Ste. 600, Emeryville, CA 94608-1827

APPENDIX B

ANALYTICAL RESULTS AND CHAIN OF CUSTODY FORMS

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

Weiss Associates

Attn.: Melissa Tumbleson
5801 Christie Avenue, Suite 600
Emeryville, CA 94608-1827
Phone: (510) 450-6124 Fax: (510) 547-5043

Project: 268-1573
Sunol Maintenance Yard & Pump Station

Received: 08/23/2002 16:50

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TRENT
LABORATORY

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

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

CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MY-4-S-15	08/22/2002 11:55	Soil	1
MY-4-S-20	08/22/2002 12:20	Soil	2
MY-4-GW	08/23/2002 07:30	Water	3
PS-1-S-5	08/22/2002 14:45	Soil	5
PS-1-S-10	08/22/2002 14:50	Soil	6
PS-1-S-15	08/22/2002 15:05	Soil	7
PS-1-S-20	08/23/2002 08:15	Soil	8
PS-1-GW	08/23/2002 08:20	Water	9
PS-2-S-5	08/23/2002 13:00	Soil	10
PS-2-S-10	08/23/2002 13:05	Soil	11
PS-2-S-15	08/23/2002 13:15	Soil	12
PS-2-S-20	08/23/2002 13:40	Soil	13
PS-2-GW	08/23/2002 13:45	Water	14
PS-3-S-5	08/23/2002 11:20	Soil	15
PS-3-S-10	08/23/2002 11:25	Soil	16
PS-3-S-15	08/23/2002 11:30	Soil	17
PS-3-S-20	08/23/2002 11:50	Soil	18
PS-3-GW	08/23/2002 12:30	Water	19
PS-4-S-5	08/22/2002 15:30	Soil	20
PS-4-S-10	08/22/2002 15:40	Soil	21
PS-4-S-15	08/23/2002 09:10	Soil	22
PS-4-S-20	08/23/2002 09:20	Soil	23
PS-4-GW	08/23/2002 10:15	Water	24
PS-5-S-5	08/23/2002 10:25	Soil	25
PS-5-S-10	08/23/2002 10:30	Soil	26
PS-5-S-15	08/23/2002 10:35	Soil	27
PS-5-S-20	08/23/2002 10:40	Soil	28
PS-5-GW	08/23/2002 11:00	Water	29
PS-TB	08/23/2002 13:20	Water	30

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8015M
Sample ID: MY-4-S-15 Lab ID: 2002-08-0481 - 1
Sampled: 08/22/2002 11:55 Extracted: 8/27/2002 19:43
Matrix: Soil QC Batch#: 2002/08/27-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	08/27/2002 19:43	
<i>Surrogates(s)</i> 4-Bromofluorobenzene-FID	60.9	58-124	%	1.00	08/27/2002 19:43	

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8015M
Sample ID: MY-4-S-20 Lab ID: 2002-08-0481 - 2
Sampled: 08/22/2002 12:20 Extracted: 8/27/2002 20:15
Matrix: Soil QC Batch#: 2002/08/27-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	08/27/2002 20:15	
<i>Surrogates(s)</i>						
4-Bromofluorobenzene-FID	67.3	58-124	%	1.00	08/27/2002 20:15	

Submission #: 2002-08-0481

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www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 5030 Test(s): 8015M
Sample ID: MY-4-GW Lab ID: 2002-08-0481 - 3
Sampled: 08/23/2002 07:30 Extracted: 8/26/2002 11:18
Matrix: Water QC Batch#: 2002/08/26-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/26/2002 11:18	
<i>Surrogates(s)</i>						
4-Bromofluorobenzene-FID	89.1	50-150	%	1.00	08/26/2002 11:18	

Submission #: 2002-08-0481

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CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8021B
Sample ID: PS-1-S-5 Lab ID: 2002-08-0481 - 5
Sampled: 08/22/2002 14:45 Extracted: 8/27/2002 20:46
Matrix: Soil QC Batch#: 2002/08/27-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	08/27/2002 20:46	
Toluene	ND	0.0050	mg/Kg	1.00	08/27/2002 20:46	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/27/2002 20:46	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/27/2002 20:46	
MTBE	ND	0.0050	mg/Kg	1.00	08/27/2002 20:46	
Surrogates(s)						
Trifluorotoluene	87.4	53-125	%	1.00	08/27/2002 20:46	

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8021B
Sample ID: PS-1-S-10 Lab ID: 2002-08-0481 - 6
Sampled: 08/22/2002 14:50 Extracted: 8/27/2002 21:17
Matrix: Soil QC Batch#: 2002/08/27-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	08/27/2002 21:17	
Toluene	ND	0.0050	mg/Kg	1.00	08/27/2002 21:17	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/27/2002 21:17	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/27/2002 21:17	
MTBE	ND	0.0050	mg/Kg	1.00	08/27/2002 21:17	
Surrogates(s)						
Trifluorotoluene	104.9	53-125	%	1.00	08/27/2002 21:17	

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8021B
Sample ID: PS-1-S-15 Lab ID: 2002-08-0481 - 7
Sampled: 08/22/2002 15:05 Extracted: 8/27/2002 21:48
Matrix: Soil QC Batch#: 2002/08/27-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	08/27/2002 21:48	
Toluene	ND	0.0050	mg/Kg	1.00	08/27/2002 21:48	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/27/2002 21:48	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/27/2002 21:48	
MTBE	ND	0.0050	mg/Kg	1.00	08/27/2002 21:48	
Surrogates(s)						
Trifluorotoluene	90.6	53-125	%	1.00	08/27/2002 21:48	

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8021B
Sample ID: PS-1-S-20 Lab ID: 2002-08-0481 - 8
Sampled: 08/23/2002 08:15 Extracted: 8/27/2002 22:19
Matrix: Soil QC Batch#: 2002/08/27-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	08/27/2002 22:19	
Toluene	ND	0.0050	mg/Kg	1.00	08/27/2002 22:19	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/27/2002 22:19	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/27/2002 22:19	
MTBE	ND	0.0050	mg/Kg	1.00	08/27/2002 22:19	
Surrogates(s)						
Trifluorotoluene	100.9	53-125	%	1.00	08/27/2002 22:19	

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Prep(s): 5030 Test(s): 8021B
Sample ID: PS-1-GW Lab ID: 2002-08-0481 - 9
Sampled: 08/23/2002 08:20 Extracted: 8/26/2002 11:50
Matrix: Water QC Batch#: 2002/08/26-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.50	ug/L	1.00	08/26/2002 11:50	
Toluene	ND	0.50	ug/L	1.00	08/26/2002 11:50	
Ethyl benzene	ND	0.50	ug/L	1.00	08/26/2002 11:50	
Xylene(s)	ND	0.50	ug/L	1.00	08/26/2002 11:50	
MTBE	ND	5.0	ug/L	1.00	08/26/2002 11:50	mtbe
Surrogates(s)						
Trifluorotoluene	92.6	58-124	%	1.00	08/26/2002 11:50	

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8021B
Sample ID: PS-2-S-5 Lab ID: 2002-08-0481 - 10
Sampled: 08/23/2002 13:00 Extracted: 8/27/2002 22:50
Matrix: Soil QC Batch#: 2002/08/27-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	08/27/2002 22:50	
Toluene	ND	0.0050	mg/Kg	1.00	08/27/2002 22:50	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/27/2002 22:50	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/27/2002 22:50	
MTBE	ND	0.0050	mg/Kg	1.00	08/27/2002 22:50	
Surrogates(s)						
Trifluorotoluene	102.0	53-125	%	1.00	08/27/2002 22:50	

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8021B
Sample ID: PS-2-S-10 Lab ID: 2002-08-0481 - 11
Sampled: 08/23/2002 13:05 Extracted: 8/26/2002 20:20
Matrix: Soil QC Batch#: 2002/08/26-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	08/26/2002 20:20	
Toluene	ND	0.0050	mg/Kg	1.00	08/26/2002 20:20	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/26/2002 20:20	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/26/2002 20:20	
MTBE	ND	0.0050	mg/Kg	1.00	08/26/2002 20:20	
Surrogates(s)						
Trifluorotoluene	93.0	53-125	%	1.00	08/26/2002 20:20	

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8021B
Sample ID: PS-2-S-15 Lab ID: 2002-08-0481 - 12
Sampled: 08/23/2002 13:15 Extracted: 8/26/2002 19:18
Matrix: Soil QC Batch#: 2002/08/26-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	08/26/2002 19:18	
Toluene	ND	0.0050	mg/Kg	1.00	08/26/2002 19:18	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/26/2002 19:18	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/26/2002 19:18	
MTBE	ND	0.0050	mg/Kg	1.00	08/26/2002 19:18	
Surrogates(s)						
Trifluorotoluene	91.3	53-125	%	1.00	08/26/2002 19:18	

Submission #: 2002-08-0481

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CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8021B
Sample ID: PS-2-S-20 Lab ID: 2002-08-0481 - 13
Sampled: 08/23/2002 13:40 Extracted: 8/26/2002 20:52
Matrix: Soil QC Batch#: 2002/08/26-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	08/26/2002 20:52	
Toluene	ND	0.0050	mg/Kg	1.00	08/26/2002 20:52	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/26/2002 20:52	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/26/2002 20:52	
MTBE	ND	0.0050	mg/Kg	1.00	08/26/2002 20:52	
Surrogates(s)						
Trifluorotoluene	89.2	53-125	%	1.00	08/26/2002 20:52	

Submission #: 2002-08-0481

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CA DHS ELAP# 2496

Prep(s): 5030 Test(s): 8021B
Sample ID: PS-2-GW Lab ID: 2002-08-0481 - 14
Sampled: 08/23/2002 13:45 Extracted: 8/26/2002 12:22
Matrix: Water QC Batch#: 2002/08/26-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.50	ug/L	1.00	08/26/2002 12:22	
Toluene	ND	0.50	ug/L	1.00	08/26/2002 12:22	
Ethyl benzene	ND	0.50	ug/L	1.00	08/26/2002 12:22	
Xylene(s)	ND	0.50	ug/L	1.00	08/26/2002 12:22	
MTBE	ND	5.0	ug/L	1.00	08/26/2002 12:22	mtbe
Surrogates(s)						
Trifluorotoluene	99.5	58-124	%	1.00	08/26/2002 12:22	

Submission #: 2002-08-0481

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CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8021B
Sample ID: PS-3-S-5 Lab ID: 2002-08-0481 - 15
Sampled: 08/23/2002 11:20 Extracted: 8/26/2002 21:23
Matrix: Soil QC Batch#: 2002/08/26-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	08/26/2002 21:23	
Toluene	ND	0.0050	mg/Kg	1.00	08/26/2002 21:23	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/26/2002 21:23	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/26/2002 21:23	
MTBE	ND	0.0050	mg/Kg	1.00	08/26/2002 21:23	
<i>Surrogates(s)</i>						
Trifluorotoluene	92.7	53-125	%	1.00	08/26/2002 21:23	

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

Weiss Associates

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CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8021B
Sample ID: PS-3-S-10 Lab ID: 2002-08-0481 - 16
Sampled: 08/23/2002 11:25 Extracted: 8/26/2002 21:54
Matrix: Soil QC Batch#: 2002/08/26-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	08/26/2002 21:54	
Toluene	ND	0.0050	mg/Kg	1.00	08/26/2002 21:54	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/26/2002 21:54	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/26/2002 21:54	
MTBE	ND	0.0050	mg/Kg	1.00	08/26/2002 21:54	
<i>Surrogates(s)</i>						
Trifluorotoluene	81.7	53-125	%	1.00	08/26/2002 21:54	

Submission #: 2002-08-0481

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CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8021B
Sample ID: PS-3-S-15 Lab ID: 2002-08-0481 - 17
Sampled: 08/23/2002 11:30 Extracted: 8/30/2002 05:03
Matrix: Soil QC Batch#: 2002/08/29-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	08/30/2002 05:03	
Toluene	ND	0.0050	mg/Kg	1.00	08/30/2002 05:03	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/30/2002 05:03	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/30/2002 05:03	
MTBE	ND	0.0050	mg/Kg	1.00	08/30/2002 05:03	
Surrogates(s)						
Trifluorotoluene	100.2	53-125	%	1.00	08/30/2002 05:03	

Submission #: 2002-08-0481

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CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8021B
Sample ID: PS-3-S-20 Lab ID: 2002-08-0481 - 18
Sampled: 08/23/2002 11:50 Extracted: 8/26/2002 22:25
Matrix: Soil QC Batch#: 2002/08/26-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	08/26/2002 22:25	
Toluene	ND	0.0050	mg/Kg	1.00	08/26/2002 22:25	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/26/2002 22:25	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/26/2002 22:25	
MTBE	ND	0.0050	mg/Kg	1.00	08/26/2002 22:25	
Surrogates(s)						
Trifluorotoluene	92.2	53-125	%	1.00	08/26/2002 22:25	

Submission #: 2002-08-0481

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CA DHS ELAP# 2496

Prep(s): 5030 Test(s): 8021B
Sample ID: PS-3-GW Lab ID: 2002-08-0481 - 19
Sampled: 08/23/2002 12:30 Extracted: 8/26/2002 12:55
Matrix: Water QC Batch#: 2002/08/26-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.50	ug/L	1.00	08/26/2002 12:55	
Toluene	ND	0.50	ug/L	1.00	08/26/2002 12:55	
Ethyl benzene	ND	0.50	ug/L	1.00	08/26/2002 12:55	
Xylene(s)	ND	0.50	ug/L	1.00	08/26/2002 12:55	
MTBE	ND	5.0	ug/L	1.00	08/26/2002 12:55	
Surrogates(s)						
Trifluorotoluene	100.9	58-124	%	1.00	08/26/2002 12:55	

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8021B
Sample ID: PS-4-S-5 Lab ID: 2002-08-0481 - 20
Sampled: 08/22/2002 15:30 Extracted: 8/28/2002 01:24
Matrix: Soil QC Batch#: 2002/08/27-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	08/28/2002 01:24	
Toluene	ND	0.0050	mg/Kg	1.00	08/28/2002 01:24	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/28/2002 01:24	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/28/2002 01:24	
MTBE	ND	0.0050	mg/Kg	1.00	08/28/2002 01:24	
Surrogates(s)						
Trifluorotoluene	97.8	53-125	%	1.00	08/28/2002 01:24	

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8021B
Sample ID: PS-4-S-10 Lab ID: 2002-08-0481 - 21
Sampled: 08/22/2002 15:40 Extracted: 8/26/2002 23:26
Matrix: Soil QC Batch#: 2002/08/26-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	08/26/2002 23:26	
Toluene	ND	0.0050	mg/Kg	1.00	08/26/2002 23:26	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/26/2002 23:26	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/26/2002 23:26	
MTBE	ND	0.0050	mg/Kg	1.00	08/26/2002 23:26	
Surrogates(s)						
Trifluorotoluene	92.1	53-125	%	1.00	08/26/2002 23:26	

Submission #: 2002-08-0481

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CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8021B
Sample ID: PS-4-S-15 Lab ID: 2002-08-0481 - 22
Sampled: 08/23/2002 09:10 Extracted: 8/26/2002 23:57
Matrix: Soil QC Batch#: 2002/08/26-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	08/26/2002 23:57	
Toluene	ND	0.0050	mg/Kg	1.00	08/26/2002 23:57	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/26/2002 23:57	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/26/2002 23:57	
MTBE	ND	0.0050	mg/Kg	1.00	08/26/2002 23:57	
Surrogates(s)						
Trifluorotoluene	85.9	53-125	%	1.00	08/26/2002 23:57	

Submission #: 2002-08-0481

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CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8021B
Sample ID: PS-4-S-20 Lab ID: 2002-08-0481 - 23
Sampled: 08/23/2002 09:20 Extracted: 8/27/2002 00:28
Matrix: Soil QC Batch#: 2002/08/26-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	08/27/2002 00:28	
Toluene	ND	0.0050	mg/Kg	1.00	08/27/2002 00:28	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/27/2002 00:28	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/27/2002 00:28	
MTBE	ND	0.0050	mg/Kg	1.00	08/27/2002 00:28	
Surrogates(s)						
Trifluorotoluene	86.7	53-125	%	1.00	08/27/2002 00:28	

Submission #: 2002-08-0481

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CA DHS ELAP# 2496

Prep(s): 5030 Test(s): 8021B
Sample ID: PS-4-GW Lab ID: 2002-08-0481 - 24
Sampled: 08/23/2002 10:15 Extracted: 8/26/2002 13:27
Matrix: Water QC Batch#: 2002/08/26-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	0.70	0.50	ug/L	1.00	08/26/2002 13:27	
Toluene	ND	0.50	ug/L	1.00	08/26/2002 13:27	
Ethyl benzene	ND	0.50	ug/L	1.00	08/26/2002 13:27	
Xylene(s)	1.4	0.50	ug/L	1.00	08/26/2002 13:27	
MTBE	ND	5.0	ug/L	1.00	08/26/2002 13:27	
Surrogates(s)						
Trifluorotoluene	96.8	58-124	%	1.00	08/26/2002 13:27	

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8021B
Sample ID: PS-5-S-5 Lab ID: 2002-08-0481 - 25
Sampled: 08/23/2002 10:25 Extracted: 8/27/2002 06:37
Matrix: Soil QC Batch#: 2002/08/26-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	08/27/2002 06:37	
Toluene	ND	0.0050	mg/Kg	1.00	08/27/2002 06:37	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/27/2002 06:37	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/27/2002 06:37	
MTBE	ND	0.0050	mg/Kg	1.00	08/27/2002 06:37	
Surrogates(s)						
Trifluorotoluene	93.2	53-125	%	1.00	08/27/2002 06:37	

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8021B
Sample ID: PS-5-S-10 Lab ID: 2002-08-0481 - 26
Sampled: 08/23/2002 10:30 Extracted: 8/28/2002 01:55
Matrix: Soil QC Batch#: 2002/08/27-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	08/28/2002 01:55	
Toluene	ND	0.0050	mg/Kg	1.00	08/28/2002 01:55	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/28/2002 01:55	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/28/2002 01:55	
MTBE	ND	0.0050	mg/Kg	1.00	08/28/2002 01:55	
Surrogates(s)						
Trifluorotoluene	95.4	53-125	%	1.00	08/28/2002 01:55	

Submission #: 2002-08-0481

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CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8021B
Sample ID: PS-5-S-15 Lab ID: 2002-08-0481 - 27
Sampled: 08/23/2002 10:35 Extracted: 8/28/2002 02:26
Matrix: Soil QC Batch#: 2002/08/27-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	08/28/2002 02:26	
Toluene	ND	0.0050	mg/Kg	1.00	08/28/2002 02:26	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/28/2002 02:26	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/28/2002 02:26	
MTBE	ND	0.0050	mg/Kg	1.00	08/28/2002 02:26	
Surrogates(s)						
Trifluorotoluene	99.0	53-125	%	1.00	08/28/2002 02:26	

Submission #: 2002-08-0481

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CA DHS ELAP# 2496

Prep(s): 5035 Test(s): 8021B
Sample ID: PS-5-S-20 Lab ID: 2002-08-0481 - 28
Sampled: 08/23/2002 10:40 Extracted: 8/28/2002 03:58
Matrix: Soil QC Batch#: 2002/08/27-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	08/28/2002 03:58	
Toluene	ND	0.0050	mg/Kg	1.00	08/28/2002 03:58	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	08/28/2002 03:58	
Xylene(s)	ND	0.0050	mg/Kg	1.00	08/28/2002 03:58	
MTBE	ND	0.0050	mg/Kg	1.00	08/28/2002 03:58	
Surrogates(s)						
Trifluorotoluene	94.3	53-125	%	1.00	08/28/2002 03:58	

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CA DHS ELAP# 2496

Prep(s): 5030 Test(s): 8021B
Sample ID: PS-5-GW Lab ID: 2002-08-0481 - 29
Sampled: 08/23/2002 11:00 Extracted: 8/26/2002 13:59
Matrix: Water QC Batch#: 2002/08/26-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.50	ug/L	1.00	08/26/2002 13:59	
Toluene	ND	0.50	ug/L	1.00	08/26/2002 13:59	
Ethyl benzene	ND	0.50	ug/L	1.00	08/26/2002 13:59	
Xylene(s)	ND	0.50	ug/L	1.00	08/26/2002 13:59	
MTBE	ND	5.0	ug/L	1.00	08/26/2002 13:59	
Surrogates(s)						
Trifluorotoluene	94.3	58-124	%	1.00	08/26/2002 13:59	

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Prep(s): 5030 Test(s): 8021B
Sample ID: PS-TB Lab ID: 2002-08-0481 - 30
Sampled: 08/23/2002 13:20 Extracted: 8/26/2002 10:46
Matrix: Water QC Batch#: 2002/08/26-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.50	ug/L	1.00	08/26/2002 10:46	
Toluene	ND	0.50	ug/L	1.00	08/26/2002 10:46	
Ethyl benzene	ND	0.50	ug/L	1.00	08/26/2002 10:46	
Xylene(s)	ND	0.50	ug/L	1.00	08/26/2002 10:46	
Surrogates(s)						
Trifluorotoluene	101.8	58-124	%	1.00	08/26/2002 10:46	

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5035

Method Blank

MB: 2002/08/26-01.03-015

Soil

Test(s): 8015M

QC Batch # 2002/08/26-01.03

Date Extracted: 08/26/2002 16:41

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	08/26/2002 16:41	
Benzene	ND	0.0050	mg/Kg	08/26/2002 16:41	
Toluene	ND	0.0050	mg/Kg	08/26/2002 16:41	
Ethyl benzene	ND	0.0050	mg/Kg	08/26/2002 16:41	
Xylene(s)	ND	0.0050	mg/Kg	08/26/2002 16:41	
MTBE	ND	0.0050	mg/Kg	08/26/2002 16:41	
Surrogates(s)					
Trifluorotoluene	109.4	53-125	%	08/26/2002 16:41	
4-Bromofluorobenzene-FID	89.0	58-124	%	08/26/2002 16:41	

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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Attn.: Melissa Tumbleson

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Emeryville, CA 94608-1827

Phone: (510) 450-6124 Fax: (510) 547-5043

Project: 268-1573

Sunol Maintenance Yard & Pump Station

Received: 08/23/2002 16:50

**SEVERN
TRENT
LABORATORY**

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

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

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030

Method Blank

MB: 2002/08/26-01.05-003

Water

Test(s): 8015M

QC Batch # 2002/08/26-01.05

Date Extracted: 08/26/2002 08:05

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	08/26/2002 08:05	
Benzene	ND	0.5	ug/L	08/26/2002 08:05	
Toluene	ND	0.5	ug/L	08/26/2002 08:05	
Ethyl benzene	ND	0.5	ug/L	08/26/2002 08:05	
Xylene(s)	ND	0.5	ug/L	08/26/2002 08:05	
MTBE	ND	5.0	ug/L	08/26/2002 08:05	
Surrogates(s)					
Trifluorotoluene	96.0	58-124	%	08/26/2002 08:05	
4-Bromofluorobenzene-FID	84.2	50-150	%	08/26/2002 08:05	

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

Weiss Associates

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Project: 268-1573

Sunol Maintenance Yard & Pump Station

Received: 08/23/2002 16:50

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5035

Method Blank

MB: 2002/08/27-01.03-014

Soil

Test(s): 8015M

QC Batch # 2002/08/27-01.03

Date Extracted: 08/27/2002 17:06

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	08/27/2002 17:06	
Benzene	ND	0.0050	mg/Kg	08/27/2002 17:06	
Toluene	ND	0.0050	mg/Kg	08/27/2002 17:06	
Ethyl benzene	ND	0.0050	mg/Kg	08/27/2002 17:06	
Xylene(s)	ND	0.0050	mg/Kg	08/27/2002 17:06	
MTBE	ND	0.0050	mg/Kg	08/27/2002 17:06	
Surrogates(s)					
Trifluorotoluene	116.0	53-125	%	08/27/2002 17:06	
4-Bromofluorobenzene-FID	80.9	58-124	%	08/27/2002 17:06	

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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Sunol Maintenance Yard & Pump Station

Received: 08/23/2002 16:50

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5035

Method Blank

MB: 2002/08/29-01.03-013

Soil

Test(s): 8015M

QC Batch # 2002/08/29-01.03

Date Extracted: 08/29/2002 13:44

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	08/29/2002 13:44	
Benzene	ND	0.0050	mg/Kg	08/29/2002 13:44	
Toluene	ND	0.0050	mg/Kg	08/29/2002 13:44	
Ethyl benzene	ND	0.0050	mg/Kg	08/29/2002 13:44	
Xylene(s)	ND	0.0050	mg/Kg	08/29/2002 13:44	
MTBE	ND	0.0050	mg/Kg	08/29/2002 13:44	
Surrogates(s)					
Trifluorotoluene	104.9	53-125	%	08/29/2002 13:44	
4-Bromofluorobenzene-FID	103.2	58-124	%	08/29/2002 13:44	

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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Project: 268-1573
Sunol Maintenance Yard & Pump Station

Received: 08/23/2002 16:50



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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5035

Test(s): 8021B

Laboratory Control Spike

Soil

QC Batch # 2002/08/26-01.03

LCS 2002/08/26-01.03-016

Extracted: 08/26/2002

Analyzed: 08/26/2002 17:12

LCSD 2002/08/26-01.03-017

Extracted: 08/26/2002

Analyzed: 08/26/2002 17:44

Compound	Conc. mg/Kg		Exp. Conc.	Recovery		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	0.109	0.102	0.1000	109.0	102.0	6.6	77-123	35		
Toluene	0.106	0.101	0.1000	106.0	101.0	4.8	78-122	35		
Ethyl benzene	0.104	0.101	0.1000	104.0	101.0	2.9	70-130	35		
Xylene(s)	0.306	0.296	0.300	102.0	98.7	3.3	75-125	35		
Surrogates(s)										
Trifluorotoluene	548	495	500	109.6	99.0		53-125	0		

Submission #: 2002-08-0481

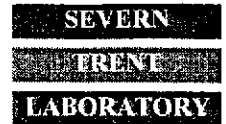
Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5035

Test(s): 8015M

Laboratory Control Spike

Soil

QC Batch # 2002/08/26-01.03

LCS 2002/08/26-01.03-018

Extracted: 08/26/2002

Analyzed: 08/26/2002 18:15

LCSD 2002/08/26-01.03-019

Extracted: 08/26/2002

Analyzed: 08/26/2002 18:47

Compound	Conc. mg/Kg		Exp. Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Gasoline	0.442	0.434	0.500	88.4	86.8	1.8	75-125	35		
Surrogates(s) 4-Bromofluorobenzene-FID	400	391	500	80.0	78.2		58-124			

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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Project: 268-1573
Sunol Maintenance Yard & Pump Station

Received: 08/23/2002 16:50

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030

Test(s): 8021B

Laboratory Control Spike

Water

QC Batch # 2002/08/26-01.05

LCS 2002/08/26-01.05-004

Extracted: 08/26/2002

Analyzed: 08/26/2002 08:37

LCSD 2002/08/26-01.05-005

Extracted: 08/26/2002

Analyzed: 08/26/2002 09:09

Compound	Conc. ug/L		Exp. Conc.	Recovery		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	87.9	89.4	100.0	87.9	89.4	1.7	77-123	20		
Toluene	88.8	89.6	100.0	88.8	89.6	0.9	78-122	20		
Ethyl benzene	89.6	89.9	100.0	89.6	89.9	0.3	70-130	20		
Xylene(s)	261	260	300	87.0	86.7	0.3	75-125	20		
Surrogates(s)										
Trifluorotoluene	469	474	500	93.8	94.8		58-124			

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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Project: 268-1573
Sunol Maintenance Yard & Pump Station

Received: 08/23/2002 16:50



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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2002/08/26-01.05

LCS 2002/08/26-01.05-006

Extracted: 08/26/2002

Analyzed: 08/26/2002 09:41

LCSD 2002/08/26-01.05-007

Extracted: 08/26/2002

Analyzed: 08/26/2002 10:13

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Gasoline	471	476	500	94.2	95.2	1.1	75-125	20		
Surrogates(s) 4-Bromofluorobenzene-FID	426	439	500	85.2	87.8		50-150			

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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Project: 268-1573
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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5035

Test(s): 8021B

Laboratory Control Spike

Soil

QC Batch # 2002/08/27-01.03

LCS 2002/08/27-01.03-015

Extracted: 08/27/2002

Analyzed: 08/27/2002 17:38

LCSD 2002/08/27-01.03-016

Extracted: 08/27/2002

Analyzed: 08/27/2002 18:09

Compound	Conc. mg/Kg		Exp. Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	0.106	0.0989	0.1000	106.0	98.9	6.9	77-123	35		
Toluene	0.105	0.0977	0.1000	105.0	97.7	7.2	78-122	35		
Ethyl benzene	0.104	0.0980	0.1000	104.0	98.0	5.9	70-130	35		
Xylene(s)	0.305	0.290	0.300	101.7	96.7	5.0	75-125	35		
Surrogates(s)										
Trifluorotoluene	560	522	500	112.0	104.4		53-125			

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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Project: 268-1573
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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5035

Test(s): 8015M

Laboratory Control Spike

Soil

QC Batch # 2002/08/27-01.03

LCS 2002/08/27-01.03-017

Extracted: 08/27/2002

Analyzed: 08/27/2002 18:41

LCSD 2002/08/27-01.03-018

Extracted: 08/27/2002

Analyzed: 08/27/2002 19:12

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Gasoline	0.462	0.488	0.500	92.4	97.6	5.5	75-125	35		
<i>Surrogates(s)</i> 4-Bromofluorobenzene-FID	420	413	500	84.0	82.6		58-124			

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5035

Test(s): 8021B

Laboratory Control Spike

Soil

QC Batch # 2002/08/29-01.03

LCS 2002/08/29-01.03-014

Extracted: 08/29/2002

Analyzed: 08/29/2002 14:15

LCSD 2002/08/29-01.03-015

Extracted: 08/29/2002

Analyzed: 08/29/2002 14:46

Compound	Conc. mg/Kg		Exp. Conc.	Recovery		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	0.103	0.0999	0.1000	103.0	99.9	3.1	77-123	35		
Toluene	0.100	0.0989	0.1000	100.0	98.9	1.1	78-122	35		
Ethyl benzene	0.0990	0.0990	0.1000	99.0	99.0	0.0	70-130	35		
Xylene(s)	0.291	0.289	0.300	97.0	96.3	0.7	75-125	35		
Surrogates(s)										
Trifluorotoluene	519	501	500	103.8	100.2		53-125			

Submission #: 2002-08-0481

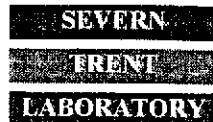
Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5035

Test(s): 8015M

Laboratory Control Spike

Soil

QC Batch # 2002/08/29-01.03

LCS 2002/08/29-01.03-018

Extracted: 08/29/2002

Analyzed: 08/29/2002 16:41

LCSD 2002/08/29-01.03-019

Extracted: 08/29/2002

Analyzed: 08/29/2002 17:13

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Gasoline	0.459	0.455	0.500	91.8	91.0	0.9	75-125	35		
Surrogates(s)										
4-Bromofluorobenzene-FID	378	377	500	75.6	75.4		58-124			

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5035

Test(s): 8021B

Matrix Spike (MS / MSD)

Soil

QC Batch # 2002/08/27-01.03

MY-4-S-15 >> MS

Lab ID: 2002-08-0481 - 001

MS: 2002/08/27-01.03-026

Extracted: 08/27/2002

Analyzed: 08/27/2002 23:20

Dilution: 1.00

MSD: 2002/08/27-01.03-027

Extracted: 08/27/2002

Analyzed: 08/27/2002 23:51

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level	Recovery			Limits %		Flags	
	MS	MSD	Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	0.100	0.0942	ND	0.0986	101.4	94.8	6.7	65-135	35		
Toluene	0.0971	0.0912	ND	0.0986	98.5	91.8	7.0	65-135	35		
Ethyl benzene	0.0916	0.0869	ND	0.0986	92.9	87.4	6.1	65-135	35		
Xylene(s)	0.266	0.255	ND	0.300	88.7	85.6	3.6	65-135	35		
Surrogate(s)											
Trifluorotoluene	518	479		500	103.6	95.8		53-125			

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

Weiss Associates

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5035

Test(s): 8015M

Matrix Spike (MS / MSD)

Soil

QC Batch # 2002/08/27-01.03

MY-4-S-15 >> MS

Lab ID: 2002-08-0481 - 001

MS: 2002/08/27-01.03-028

Extracted: 08/28/2002

Analyzed: 08/28/2002 00:22

Dilution: 1.00

MSD: 2002/08/27-01.03-029

Extracted: 08/28/2002

Analyzed: 08/28/2002 00:53

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Gasoline	0.393	0.372	ND	0.483	81.4	76.1	6.7	65-135	35		
<i>Surrogate(s)</i> 4-Bromofluorobenzene-FID	310			500	61.9			58-124			

Submission #: 2002-08-0481

Gas/BTEX Compounds by 8015M/8021

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Sunol Maintenance Yard & Pump Station

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CA DHS ELAP# 2496

Legend and Notes

Result Flag

mtbe

MTBE analyzed by GC/MS 8260

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MY-4-S-15	08/22/2002 11:55	Soil	1
MY-4-S-20	08/22/2002 12:20	Soil	2
MY-4-GW	08/23/2002 07:30	Water	3
PS-1-S-5	08/22/2002 14:45	Soil	5
PS-1-S-10	08/22/2002 14:50	Soil	6
PS-1-S-15	08/22/2002 15:05	Soil	7
PS-1-S-20	08/23/2002 08:15	Soil	8
PS-2-S-5	08/23/2002 13:00	Soil	10
PS-2-S-10	08/23/2002 13:05	Soil	11
PS-2-S-15	08/23/2002 13:15	Soil	12
PS-2-S-20	08/23/2002 13:40	Soil	13
PS-3-S-5	08/23/2002 11:20	Soil	15
PS-3-S-10	08/23/2002 11:25	Soil	16
PS-3-S-15	08/23/2002 11:30	Soil	17
PS-3-S-20	08/23/2002 11:50	Soil	18
PS-4-S-5	08/22/2002 15:30	Soil	20
PS-4-S-10	08/22/2002 15:40	Soil	21
PS-4-S-15	08/23/2002 09:10	Soil	22
PS-4-S-20	08/23/2002 09:20	Soil	23
PS-5-S-5	08/23/2002 10:25	Soil	25
PS-5-S-10	08/23/2002 10:30	Soil	26
PS-5-S-15	08/23/2002 10:35	Soil	27
PS-5-S-20	08/23/2002 10:40	Soil	28

Submission #: 2002-08-0481

Diesel

Weiss Associates

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Project: 268-1573
Sunol Maintenance Yard & Pump Station

Received: 08/23/2002 16:50

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CA DHS ELAP# 2496

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: **MY-4-S-15** Lab ID: 2002-08-0481 - 1
Sampled: 08/22/2002 11:55 Extracted: 8/26/2002 10:33
Matrix: Soil QC Batch#: 2002/08/26-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/26/2002 18:37	
Surrogates(s) o-Terphenyl	85.1	60-130	%	1.00	08/26/2002 18:37	

Submission #: 2002-08-0481

Diesel

Weiss Associates

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Emeryville, CA 94608-1827
Phone: (510) 450-6124 Fax: (510) 547-5043

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www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	MY-4-S-20	Lab ID:	2002-08-0481 - 2
Sampled:	08/22/2002 12:20	Extracted:	8/26/2002 10:33
Matrix:	Soil	QC Batch#:	2002/08/26-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/26/2002 19:14	
<i>Surrogates(s)</i> o-Terphenyl	86.5	60-130	%	1.00	08/26/2002 19:14	

Submission #: 2002-08-0481

Diesel

Weiss Associates

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CA DHS ELAP# 2496

Prep(s): 3510/8015M Test(s): 8015M
Sample ID: MY-4-GW Lab ID: 2002-08-0481 - 3
Sampled: 08/23/2002 07:30 Extracted: 8/23/2002 05:06
Matrix: Water QC Batch#: 2002/08/23-01.10
Analysis Flag: rl (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	130	96	ug/L	1.92	08/26/2002 09:37	ndp
Surrogates(s) o-Terphenyl	78.0	60-130	%	1.92	08/26/2002 09:37	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: **PS-1-S-5** Lab ID: 2002-08-0481 - 5
Sampled: 08/22/2002 14:45 Extracted: 8/26/2002 10:33
Matrix: Soil QC Batch#: 2002/08/26-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	48	20	mg/Kg	20.00	08/27/2002 10:54	ndp
<i>Surrogates(s)</i> o-Terphenyl	NA	60-130	%	20.00	08/27/2002 10:54	sd

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: PS-1-S-10 Lab ID: 2002-08-0481 - 6
Sampled: 08/22/2002 14:50 Extracted: 8/26/2002 10:33
Matrix: Soil QC Batch#: 2002/08/26-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	2.3	1.0	mg/Kg	1.00	08/26/2002 19:51	ndp
Surrogates(s)						
o-Terphenyl	90.9	60-130	%	1.00	08/26/2002 19:51	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: PS-1-S-15 Lab ID: 2002-08-0481 - 7
Sampled: 08/22/2002 15:05 Extracted: 8/26/2002 10:33
Matrix: Soil QC Batch#: 2002/08/26-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	7.0	1.0	mg/Kg	1.00	08/26/2002 20:59	ndp
<i>Surrogates(s)</i> o-Terphenyl	88.4	60-130	%	1.00	08/26/2002 20:59	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: PS-1-S-20 Lab ID: 2002-08-0481 - 8
Sampled: 08/23/2002 08:15 Extracted: 8/26/2002 10:33
Matrix: Soil QC Batch#: 2002/08/26-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/26/2002 20:29	
<i>Surrogates(s)</i> o-Terphenyl	82.7	60-130	%	1.00	08/26/2002 20:29	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: PS-2-S-5 Lab ID: 2002-08-0481 - 10
Sampled: 08/23/2002 13:00 Extracted: 8/26/2002 10:33
Matrix: Soil QC Batch#: 2002/08/26-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/26/2002 21:06	
<i>Surrogates(s)</i>						
o-Terphenyl	76.3	60-130	%	1.00	08/26/2002 21:06	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: PS-2-S-10 Lab ID: 2002-08-0481 - 11
Sampled: 08/23/2002 13:05 Extracted: 8/26/2002 10:33
Matrix: Soil QC Batch#: 2002/08/26-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/26/2002 21:06	
<i>Surrogates(s)</i> o-Terphenyl	82.3	60-130	%	1.00	08/26/2002 21:06	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: PS-2-S-15 Lab ID: 2002-08-0481 - 12
Sampled: 08/23/2002 13:15 Extracted: 8/26/2002 10:33
Matrix: Soil QC Batch#: 2002/08/26-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/26/2002 17:22	
<i>Surrogates(s)</i> o-Terphenyl	79.6	60-130	%	1.00	08/26/2002 17:22	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: PS-2-S-20 Lab ID: 2002-08-0481 - 13
Sampled: 08/23/2002 13:40 Extracted: 8/26/2002 10:33
Matrix: Soil QC Batch#: 2002/08/26-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1.1	1.0	mg/Kg	1.00	08/26/2002 17:59	ndp
<i>Surrogates(s)</i> o-Terphenyl	81.8	60-130	%	1.00	08/26/2002 17:59	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: **PS-3-S-5** Lab ID: 2002-08-0481 - 15
Sampled: 08/23/2002 11:20 Extracted: 8/26/2002 10:33
Matrix: Soil QC Batch#: 2002/08/26-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/26/2002 18:37	
<i>Surrogates(s)</i> o-Terphenyl	77.9	60-130	%	1.00	08/26/2002 18:37	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: **PS-3-S-10** Lab ID: 2002-08-0481 - 16
Sampled: 08/23/2002 11:25 Extracted: 8/26/2002 10:33
Matrix: Soil QC Batch#: 2002/08/26-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1.2	1.0	mg/Kg	1.00	08/26/2002 19:14	ndp
Surrogates(s) o-Terphenyl	74.0	60-130	%	1.00	08/26/2002 19:14	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: PS-3-S-15 Lab ID: 2002-08-0481 - 17
Sampled: 08/23/2002 11:30 Extracted: 8/26/2002 10:33
Matrix: Soil QC Batch#: 2002/08/26-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	2.0	1.0	mg/Kg	1.00	08/26/2002 19:51	ndp
<i>Surrogates(s)</i> o-Terphenyl	78.4	60-130	%	1.00	08/26/2002 19:51	

Submission #: 2002-08-0481

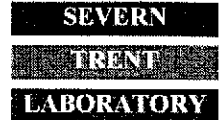
Diesel

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CA DHS ELAP# 2496

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: **PS-3-S-20** Lab ID: 2002-08-0481 - 18
Sampled: 08/23/2002 11:50 Extracted: 8/26/2002 10:33
Matrix: Soil QC Batch#: 2002/08/26-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/26/2002 20:29	
Surrogates(s) o-Terphenyl	79.1	60-130	%	1.00	08/26/2002 20:29	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	PS-4-S-5	Lab ID:	2002-08-0481 - 20
Sampled:	08/22/2002 15:30	Extracted:	8/26/2002 10:33
Matrix:	Soil	QC Batch#:	2002/08/26-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/26/2002 17:11	
<i>Surrogates(s)</i>						
o-Terphenyl	83.5	60-130	%	1.00	08/26/2002 17:11	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: PS-4-S-10	Lab ID: 2002-08-0481 - 21
Sampled: 08/22/2002 15:40	Extracted: 8/26/2002 10:33
Matrix: Soil	QC Batch#: 2002/08/26-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	3.8	1.0	mg/Kg	1.00	08/26/2002 17:49	ndp
<i>Surrogates(s)</i> o-Terphenyl	84.5	60-130	%	1.00	08/26/2002 17:49	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: **PS-4-S-15** Lab ID: 2002-08-0481 - 22
Sampled: 08/23/2002 09:10 Extracted: 8/26/2002 10:33
Matrix: Soil QC Batch#: 2002/08/26-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/26/2002 18:27	
<i>Surrogates(s)</i>						
o-Terphenyl	80.4	60-130	%	1.00	08/26/2002 18:27	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: PS-4-S-20	Lab ID: 2002-08-0481 - 23
Sampled: 08/23/2002 09:20	Extracted: 8/26/2002 10:33
Matrix: Soil	QC Batch#: 2002/08/26-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/26/2002 19:05	
Surrogates(s)						
o-Terphenyl	83.2	60-130	%	1.00	08/26/2002 19:05	

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Diesel

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CA DHS ELAP# 2496

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: PS-5-S-5 Lab ID: 2002-08-0481 - 25
Sampled: 08/23/2002 10:25 Extracted: 8/26/2002 10:33
Matrix: Soil QC Batch#: 2002/08/26-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/26/2002 19:43	
<i>Surrogates(s)</i> o-Terphenyl	83.5	60-130	%	1.00	08/26/2002 19:43	

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Diesel

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CA DHS ELAP# 2496

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: **PS-5-S-10** Lab ID: 2002-08-0481 - 26
Sampled: 08/23/2002 10:30 Extracted: 8/26/2002 10:33
Matrix: Soil QC Batch#: 2002/08/26-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/26/2002 20:21	
Surrogates(s)						
o-Terphenyl	79.2	60-130	%	1.00	08/26/2002 20:21	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: PS-5-S-15 Lab ID: 2002-08-0481 - 27
Sampled: 08/23/2002 10:35 Extracted: 8/26/2002 15:50
Matrix: Soil QC Batch#: 2002/08/26-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1.2	1.0	mg/Kg	1.00	08/27/2002 12:57	ndp
<i>Surrogates(s)</i>						
o-Terphenyl	78.1	60-130	%	1.00	08/27/2002 12:57	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: **PS-5-S-20** Lab ID: 2002-08-0481 - 28
Sampled: 08/23/2002 10:40 Extracted: 8/26/2002 15:50
Matrix: Soil QC Batch#: 2002/08/26-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/27/2002 13:35	
Surrogates(s)						
o-Terphenyl	67.6	60-130	%	1.00	08/27/2002 13:35	

Submission #: 2002-08-0481

Diesel

Weiss Associates

Attn.: Melissa Tumbleson
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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3510/8015M

Method Blank

MB: 2002/08/23-01.10-001

Water

Test(s): 8015M

QC Batch # 2002/08/23-01.10

Date Extracted: 08/23/2002 05:06

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	08/23/2002 12:53	
<i>Surrogates(s)</i> o-Terphenyl	95.6	60-130	%	08/23/2002 12:53	

Submission #: 2002-08-0481

Diesel

Weiss Associates

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3550/8015M
Method Blank

Soil

Test(s): 8015M
QC Batch # 2002/08/26-02.10

MB: 2002/08/26-02.10-001

Date Extracted: 08/26/2002 10:33

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	08/26/2002 16:33	
<i>Surrogates(s)</i> o-Terphenyl	75.2	60-130	%	08/26/2002 16:33	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3550/8015M

Method Blank

MB: 2002/08/26-05.10-001

Soil

Test(s): 8015M

QC Batch # 2002/08/26-05.10

Date Extracted: 08/26/2002 15:50

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	08/27/2002 04:04	
Surrogates(s)					
o-Terphenyl	80.9	60-130	%	08/27/2002 04:04	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3510/8015M

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2002/08/23-01.10

LCS 2002/08/23-01.10-002

Extracted: 08/23/2002

Analyzed: 08/23/2002 12:53

LCSD 2002/08/23-01.10-003

Extracted: 08/23/2002

Analyzed: 08/23/2002 13:33

Compound	Conc. ug/L		Exp. Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	879	882	1250	70.3	70.6	0.4	60-130	25		
Surrogates(s) o-Terphenyl	18.8	19.0	20.0	93.8	94.8		60-130	0		

Submission #: 2002-08-0481

SEVERN

Diesel

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3550/8015M

Test(s): 8015M

Laboratory Control Spike

Soil

QC Batch # 2002/08/26-02.10

LCS 2002/08/26-02.10-002

Extracted: 08/26/2002

Analyzed: 08/26/2002 15:17

LCSD 2002/08/26-02.10-003

Extracted: 08/26/2002

Analyzed: 08/26/2002 15:55

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	30.9	31.0	41.7	74.1	74.3	0.3	60-130	25		
Surrogates(s) o-Terphenyl	17.4	17.3	20.0	87.1	86.6		60-130	0		

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3550/8015M

Test(s): 8015M

Laboratory Control Spike

Soil

QC Batch # 2002/08/26-05.10

LCS 2002/08/26-05.10-002

Extracted: 08/26/2002

Analyzed: 08/27/2002 02:49

LCSD 2002/08/26-05.10-003

Extracted: 08/26/2002

Analyzed: 08/27/2002 03:26

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	33.1	33.0	41.7	79.4	79.1	0.4	60-130	25		
<i>Surrogates(s)</i> o-Terphenyl	17.1	17.5	20.0	85.7	87.3		60-130	0		

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3550/8015M

Test(s): 8015M

Matrix Spike (MS / MSD)

Soil

QC Batch # 2002/08/26-02.10

PS-1-S-5 >> MS

Lab ID: 2002-08-0481 - 005

MS: 2002/08/26-02.10-004

Extracted: 08/26/2002

Analyzed: 08/27/2002 11:34

Dilution: 20.00

MSD: 2002/08/26-02.10-005

Extracted: 08/26/2002

Analyzed: 08/27/2002 12:14

Dilution: 20.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Diesel	61.4	65.4	48.1	41.5	32.0	41.6	26.1	60-130	25	mso	mso.rpd
Surrogate(s) o-Terphenyl	NA	NA		20.0	0.0	0.0		60-130	0	sd	sd

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3550/8015M

Test(s): 8015M

Matrix Spike (MS / MSD)

Soil

QC Batch # 2002/08/26-05.10

PS-5-S-15 >> MS

Lab ID: 2002-08-0481 - 027

MS: 2002/08/26-05.10-004

Extracted: 08/26/2002

Analyzed: 08/27/2002 16:42

Dilution: 1.00

MSD: 2002/08/26-05.10-005

Extracted: 08/26/2002

Analyzed: 08/27/2002 17:20

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Diesel	35.3	33.5	1.18	41.5	82.2	77.7	5.6	60-130	25		
<i>Surrogate(s)</i> o-Terphenyl	16.9	17.0		20.0	84.7	85.0		60-130	0		

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Legend and Notes

Analysis Flag

ri

Reporting limits raised due to reduced sample size.

Result Flag

mso

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

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

rpd

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

sd

Surrogate recovery not reportable due to required dilution.

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
PS-1-GW	08/23/2002 08:20	Water	9
PS-2-GW	08/23/2002 13:45	Water	14
PS-3-GW	08/23/2002 12:30	Water	19
PS-4-GW	08/23/2002 10:15	Water	24
PS-5-GW	08/23/2002 11:00	Water	29

Submission #: 2002-08-0481



Diesel

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Project: 268-1573
Sunol Maintenance Yard & Pump Station

Received: 08/23/2002 16:50

CA DHS ELAP# 2496

Prep(s): 3510/8015M Test(s): 8015M
Sample ID: PS-1-GW Lab ID: 2002-08-0481 - 9
Sampled: 08/23/2002 08:20 Extracted: 8/23/2002 05:06
Matrix: Water QC Batch#: 2002/08/23-01.10
Analysis Flag: rl (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	100	ug/L	2.04	08/26/2002 07:14	
Surrogates(s)						
o-Terphenyl	78.0	60-130	%	2.04	08/26/2002 07:14	

Submission #: 2002-08-0481

Diesel

Weiss Associates

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Project: 268-1573
Sunol Maintenance Yard & Pump Station

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CA DHS ELAP# 2496

Prep(s): 3510/8015M Test(s): 8015M
Sample ID: **PS-2-GW** Lab ID: 2002-08-0481 - 14
Sampled: 08/23/2002 13:45 Extracted: 8/23/2002 05:06
Matrix: Water QC Batch#: 2002/08/23-01.10
Analysis Flag: rl (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	72	ug/L	1.45	08/26/2002 09:37	
Surrogates(s) o-Terphenyl	80.0	60-130	%	1.45	08/26/2002 09:37	

Submission #: 2002-08-0481

Diesel

Weiss Associates

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Project: 268-1573
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CA DHS ELAP# 2496

Prep(s): 3510/8015M Test(s): 8015M
Sample ID: PS-3-GW Lab ID: 2002-08-0481 - 19
Sampled: 08/23/2002 12:30 Extracted: 8/23/2002 05:06
Matrix: Water QC Batch#: 2002/08/23-01.10
Analysis Flag: rl (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	100	ug/L	2.00	08/26/2002 06:11	
Surrogates(s)						
o-Terphenyl	75.2	60-130	%	2.00	08/26/2002 06:11	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Prep(s): 3510/8015M Test(s): 8015M
Sample ID: **PS-4-GW** Lab ID: 2002-08-0481 - 24
Sampled: 08/23/2002 10:15 Extracted: 8/23/2002 05:06
Matrix: Water QC Batch#: 2002/08/23-01.10
Analysis Flag: rl (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	340	78	ug/L	1.56	08/26/2002 07:35	ndp
Surrogates(s)						
o-Terphenyl	84.9	60-130	%	1.56	08/26/2002 07:35	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Prep(s): 3510/8015M Test(s): 8015M
Sample ID: PS-5-GW Lab ID: 2002-08-0481 - 29
Sampled: 08/23/2002 11:00 Extracted: 8/23/2002 05:06
Matrix: Water QC Batch#: 2002/08/23-01.10
Analysis Flag: rl (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	76	ug/L	1.52	08/26/2002 06:51	
Surrogates(s) o-Terphenyl	80.5	60-130	%	1.52	08/26/2002 06:51	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3510/8015M

Method Blank

MB: 2002/08/23-01.10-001

Water

Test(s): 8015M

QC Batch # 2002/08/23-01.10

Date Extracted: 08/23/2002 05:06

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	08/23/2002 12:53	
<i>Surrogates(s)</i> o-Terphenyl	95.6	60-130	%	08/23/2002 12:53	

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3510/8015M

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2002/08/23-01.10

LCS 2002/08/23-01.10-002

Extracted: 08/23/2002

Analyzed: 08/23/2002 12:53

LCSD 2002/08/23-01.10-003

Extracted: 08/23/2002

Analyzed: 08/23/2002 13:33

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	879	882	1250	70.3	70.6	0.4	60-130	25		
Surrogates(s) o-Terphenyl	18.8	19.0	20.0	93.8	94.8		60-130	0		

Submission #: 2002-08-0481

Diesel

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CA DHS ELAP# 2496

Legend and Notes

Analysis Flag

rl

Reporting limits raised due to reduced sample size.

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

Weiss Associates

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Project: 268-1573

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CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MY-4-S-15	08/22/2002 11:55	Soil	1
MY-4-S-20	08/22/2002 12:20	Soil	2
PS-1-S-5	08/22/2002 14:45	Soil	5
PS-1-S-10	08/22/2002 14:50	Soil	6
PS-1-S-15	08/22/2002 15:05	Soil	7
PS-1-S-20	08/23/2002 08:15	Soil	8

Submission #: 2002-08-0481

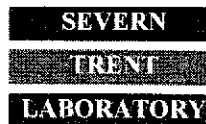
Oil & Grease (Total) by EPA 1664

Weiss Associates

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CA DHS ELAP# 2496

Prep(s):	1664	Test(s):	1664
Sample ID:	MY-4-S-15	Lab ID:	2002-08-0481 - 1
Sampled:	08/22/2002 11:55	Extracted:	8/27/2002 00:00
Matrix:	Soil	QC Batch#:	2002/08/27-02.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	08/27/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

Weiss Associates

Attn.: Melissa Tumbleson
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Project: 268-1573
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Received: 08/23/2002 16:50

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CA DHS ELAP# 2496

Prep(s): 1664 Test(s): 1664
Sample ID: MY-4-S-20 Lab ID: 2002-08-0481 - 2
Sampled: 08/22/2002 12:20 Extracted: 8/27/2002 00:00
Matrix: Soil QC Batch#: 2002/08/27-02.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	08/27/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

Weiss Associates

Attn.: Melissa Tumbleson
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Emeryville, CA 94608-1827
Phone: (510) 450-6124 Fax: (510) 547-5043

Project: 268-1573
Sunol Maintenance Yard & Pump Station

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CA DHS ELAP# 2496

Prep(s): 1664 Test(s): 1664
Sample ID: PS-1-S-5 Lab ID: 2002-08-0481 - 5
Sampled: 08/22/2002 14:45 Extracted: 8/27/2002 00:00
Matrix: Soil QC Batch#: 2002/08/27-02.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	1400	50	mg/Kg	1.00	08/27/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Prep(s):	1664	Test(s):	1664
Sample ID:	PS-1-S-10	Lab ID:	2002-08-0481 - 6
Sampled:	08/22/2002 14:50	Extracted:	8/27/2002 00:00
Matrix:	Soil	QC Batch#:	2002/08/27-02.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	08/27/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Prep(s): 1664	Test(s): 1664
Sample ID: PS-1-S-15	Lab ID: 2002-08-0481 - 7
Sampled: 08/22/2002 15:05	Extracted: 8/27/2002 00:00
Matrix: Soil	QC Batch#: 2002/08/27-02.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	78	50	mg/Kg	1.00	08/27/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Prep(s):	1664	Test(s):	1664
Sample ID:	PS-1-S-20	Lab ID:	2002-08-0481 - 8
Sampled:	08/23/2002 08:15	Extracted:	8/27/2002 00:00
Matrix:	Soil	QC Batch#:	2002/08/27-02.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	08/27/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 1664

Method Blank

MB: 2002/08/27-02.23-001

Soil

Test(s): 1664

QC Batch # 2002/08/27-02.23

Date Extracted: 08/27/2002

Compound	Conc.	RL	Unit	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	08/27/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 1664

Test(s): 1664

Laboratory Control Spike

Soil

QC Batch # 2002/08/27-02.23

LCS 2002/08/27-02.23-002

Extracted: 08/27/2002

Analyzed: 08/27/2002

LCSD 2002/08/27-02.23-003

Extracted: 08/27/2002

Analyzed: 08/27/2002

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Oil & Grease (total)	786	776	800	98.3	97.0	1.3	79-114	20		

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
PS-2-S-5	08/23/2002 13:00	Soil	10
PS-2-S-10	08/23/2002 13:05	Soil	11
PS-2-S-15	08/23/2002 13:15	Soil	12
PS-2-S-20	08/23/2002 13:40	Soil	13
PS-3-S-5	08/23/2002 11:20	Soil	15
PS-3-S-10	08/23/2002 11:25	Soil	16
PS-3-S-15	08/23/2002 11:30	Soil	17
PS-3-S-20	08/23/2002 11:50	Soil	18
PS-4-S-5	08/22/2002 15:30	Soil	20
PS-4-S-10	08/22/2002 15:40	Soil	21

Submission #: 2002-08-0481

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CA DHS ELAP# 2496

Prep(s): 1664 Test(s): 1664
Sample ID: PS-2-S-5 Lab ID: 2002-08-0481 - 10
Sampled: 08/23/2002 13:00 Extracted: 8/28/2002 00:00
Matrix: Soil QC Batch#: 2002/08/28-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	08/28/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Prep(s): 1664 Test(s): 1664
Sample ID: PS-2-S-10 Lab ID: 2002-08-0481 - 11
Sampled: 08/23/2002 13:05 Extracted: 8/28/2002 00:00
Matrix: Soil QC Batch#: 2002/08/28-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	08/28/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Prep(s):	1664	Test(s):	1664
Sample ID:	PS-2-S-15	Lab ID:	2002-08-0481 - 12
Sampled:	08/23/2002 13:15	Extracted:	8/28/2002 00:00
Matrix:	Soil	QC Batch#:	2002/08/28-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	08/28/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Prep(s): 1664 Test(s): 1664
Sample ID: PS-2-S-20 Lab ID: 2002-08-0481 - 13
Sampled: 08/23/2002 13:40 Extracted: 8/28/2002 00:00
Matrix: Soil QC Batch#: 2002/08/28-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	08/28/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Prep(s): 1664	Test(s): 1664
Sample ID: PS-3-S-5	Lab ID: 2002-08-0481 - 15
Sampled: 08/23/2002 11:20	Extracted: 8/28/2002 00:00
Matrix: Soil	QC Batch#: 2002/08/28-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	08/28/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Prep(s): 1664 Test(s): 1664
Sample ID: PS-3-S-10 Lab ID: 2002-08-0481 - 16
Sampled: 08/23/2002 11:25 Extracted: 8/28/2002 00:00
Matrix: Soil QC Batch#: 2002/08/28-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	08/28/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Prep(s): 1664	Test(s): 1664
Sample ID: PS-3-S-15	Lab ID: 2002-08-0481 - 17
Sampled: 08/23/2002 11:30	Extracted: 8/28/2002 00:00
Matrix: Soil	QC Batch#: 2002/08/28-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	08/28/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Prep(s):	1664	Test(s):	1664
Sample ID:	PS-3-S-20	Lab ID:	2002-08-0481 - 18
Sampled:	08/23/2002 11:50	Extracted:	8/28/2002 00:00
Matrix:	Soil	QC Batch#:	2002/08/28-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	08/28/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Prep(s): 1664 Test(s): 1664
Sample ID: PS-4-S-5 Lab ID: 2002-08-0481 - 20
Sampled: 08/22/2002 15:30 Extracted: 8/28/2002 00:00
Matrix: Soil QC Batch#: 2002/08/28-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	08/28/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Prep(s):	1664	Test(s):	1664
Sample ID:	PS-4-S-10	Lab ID:	2002-08-0481 - 21
Sampled:	08/22/2002 15:40	Extracted:	8/28/2002 00:00
Matrix:	Soil	QC Batch#:	2002/08/28-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	08/28/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 1664

Method Blank

MB: 2002/08/28-01.23-001

Soil

Test(s): 1664

QC Batch # 2002/08/28-01.23

Date Extracted: 08/28/2002

Compound	Conc.	RL	Unit	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	08/28/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 1664

Test(s): 1664

Laboratory Control Spike

Soil

QC Batch # 2002/08/28-01.23

LCS 2002/08/28-01.23-002

Extracted: 08/28/2002

Analyzed: 08/28/2002

LCSD 2002/08/28-01.23-003

Extracted: 08/28/2002

Analyzed: 08/28/2002

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Oil & Grease (total)	776	776	798	97.2	97.2	0.0	79-114	20		

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 1664

Test(s): 1664

Matrix Spike (MS / MSD)

Soil

QC Batch # 2002/08/28-01.23

PS-4-S-5 >> MS

Lab ID: 2002-08-0481 - 020

MS: 2002/08/28-01.23-004

Extracted: 08/28/2002

Analyzed: 08/28/2002

Dilution: 1.00

MSD: 2002/08/28-01.23-005

Extracted: 08/28/2002

Analyzed: 08/28/2002

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Oil & Grease (total)	757	701	ND	797	95.0	87.8	7.9	79-114	20		

Submission #: 2002-08-0481

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CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
PS-4-S-15	08/23/2002 09:10	Soil	22
PS-4-S-20	08/23/2002 09:20	Soil	23
PS-5-S-5	08/23/2002 10:25	Soil	25
PS-5-S-10	08/23/2002 10:30	Soil	26
PS-5-S-15	08/23/2002 10:35	Soil	27
PS-5-S-20	08/23/2002 10:40	Soil	28

Submission #: 2002-08-0481

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CA DHS ELAP# 2496

Prep(s):	1664	Test(s):	1664
Sample ID:	PS-4-S-15	Lab ID:	2002-08-0481 - 22
Sampled:	08/23/2002 09:10	Extracted:	8/29/2002 00:00
Matrix:	Soil	QC Batch#:	2002/08/29-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	08/29/2002	

Submission #: 2002-08-0481

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CA DHS ELAP# 2496

Prep(s):	1664	Test(s):	1664
Sample ID:	PS-4-S-20	Lab ID:	2002-08-0481 - 23
Sampled:	08/23/2002 09:20	Extracted:	8/29/2002 00:00
Matrix:	Soil	QC Batch#:	2002/08/29-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	08/29/2002	

Submission #: 2002-08-0481

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CA DHS ELAP# 2496

Prep(s): 1664 Test(s): 1664
Sample ID: PS-5-S-5 Lab ID: 2002-08-0481 - 25
Sampled: 08/23/2002 10:25 Extracted: 8/29/2002 00:00
Matrix: Soil QC Batch#: 2002/08/29-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	08/29/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

Weiss Associates

Attn.: Melissa Tumbleson
5801 Christie Avenue, Suite 600
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Project: 268-1573
Sunol Maintenance Yard & Pump Station

Received: 08/23/2002 16:50

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CA DHS ELAP# 2496

Prep(s):	1664	Test(s):	1664
Sample ID:	PS-5-S-10	Lab ID:	2002-08-0481 - 26
Sampled:	08/23/2002 10:30	Extracted:	8/29/2002 00:00
Matrix:	Soil	QC Batch#:	2002/08/29-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	08/29/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Prep(s): 1664 Test(s): 1664
Sample ID: PS-5-S-15 Lab ID: 2002-08-0481 - 27
Sampled: 08/23/2002 10:35 Extracted: 8/29/2002 00:00
Matrix: Soil QC Batch#: 2002/08/29-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	08/29/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Prep(s):	1664	Test(s):	1664
Sample ID:	PS-5-S-20	Lab ID:	2002-08-0481 - 28
Sampled:	08/23/2002 10:40	Extracted:	8/29/2002 00:00
Matrix:	Soil	QC Batch#:	2002/08/29-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	08/29/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 1664

Method Blank

MB: 2002/08/29-01.23-001

Soil

Test(s): 1664

QC Batch # 2002/08/29-01.23

Date Extracted: 08/29/2002

Compound	Conc.	RL	Unit	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	08/29/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 1664

Test(s): 1664

Laboratory Control Spike

Soil

QC Batch # 2002/08/29-01.23

LCS 2002/08/29-01.23-002

Extracted: 08/29/2002

Analyzed: 08/29/2002

LCSD 2002/08/29-01.23-003

Extracted: 08/29/2002

Analyzed: 08/29/2002

Compound	Conc. mg/Kg		Exp. Conc.	Recovery		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Oil & Grease (total)	794	739	800	99.3	92.5	7.1	79-114	20		

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 1664

Test(s): 1664

Matrix Spike (MS / MSD)

Soil

QC Batch # 2002/08/29-01.23

PS-5-S-5 >> MS

Lab ID: 2002-08-0481 - 025

MS: 2002/08/29-01.23-004

Extracted: 08/29/2002

Analyzed: 08/29/2002

Dilution: 1.00

MSD: 2002/08/29-01.23-005

Extracted: 08/29/2002

Analyzed: 08/29/2002

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Oil & Grease (total)	707	678	ND	799	88.5	84.8	4.3	79-114	20		

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
PS-1-GW	08/23/2002 08:20	Water	9
PS-2-GW	08/23/2002 13:45	Water	14
PS-3-GW	08/23/2002 12:30	Water	19
PS-4-GW	08/23/2002 10:15	Water	24
PS-5-GW	08/23/2002 11:00	Water	29

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Prep(s): 1664 Test(s): 1664
Sample ID: PS-1-GW Lab ID: 2002-08-0481 - 9
Sampled: 08/23/2002 08:20 Extracted: 8/26/2002 00:00
Matrix: Water QC Batch#: 2002/08/26-01.23
Analysis Flag: rl (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	1.7	mg/L	1.69	08/27/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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Project: 268-1573
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CA DHS ELAP# 2496

Prep(s): 1664 Test(s): 1664
Sample ID: PS-2-GW Lab ID: 2002-08-0481 - 14
Sampled: 08/23/2002 13:45 Extracted: 8/26/2002 00:00
Matrix: Water QC Batch#: 2002/08/26-01.23
Analysis Flag: rl (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	1.6	mg/L	1.55	08/27/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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Received: 08/23/2002 16:50

CA DHS ELAP# 2496

Prep(s): 1664 Test(s): 1664
Sample ID: PS-4-GW Lab ID: 2002-08-0481 - 24
Sampled: 08/23/2002 10:15 Extracted: 8/26/2002 00:00
Matrix: Water QC Batch#: 2002/08/26-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	1.0	mg/L	1.00	08/27/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Prep(s): 1664	Test(s): 1664
Sample ID: PS-5-GW	Lab ID: 2002-08-0481 - 29
Sampled: 08/23/2002 11:00	Extracted: 8/26/2002 00:00
Matrix: Water	QC Batch#: 2002/08/26-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	1.0	mg/L	1.00	08/27/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 1664

Method Blank

MB: 2002/08/26-01.23-001

Water

Test(s): 1664

QC Batch # 2002/08/26-01.23

Date Extracted: 08/26/2002

Compound	Conc.	RL	Unit	Analyzed	Flag
Oil & Grease (total)	ND	1	mg/L	08/26/2002	

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 1664

Test(s): 1664

Laboratory Control Spike

Water

QC Batch # 2002/08/26-01.23

LCS 2002/08/26-01.23-002

Extracted: 08/26/2002

Analyzed: 08/26/2002

LCSD 2002/08/26-01.23-003

Extracted: 08/26/2002

Analyzed: 08/26/2002

Compound	Conc. mg/L		Exp. Conc.	Recovery		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Oil & Grease (total)	38.8	38.1	40.0	97.0	95.3	1.8	79-114	18		

Submission #: 2002-08-0481

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Legend and Notes

Analysis Flag

rl

Reporting limits raised due to reduced sample size.

Submission #: 2002-09-0028

Semi-volatile analysis by GC/MS - EPA8270C

Weiss Associates

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Project: 268-1573

Sunol Maintenance Yard & Pump Station

Received: 08/23/2002

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CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
PS-1-S-5	08/22/2002	Soil	1
PS-1-S-15	08/22/2002	Soil	2

Submission #: 2002-09-0028

Semi-volatile analysis by GC/MS - EPA8270C

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CA DHS ELAP# 2496

Prep(s): 3550B/8270C Test(s): 8270C
Sample ID: PS-1-S-5 Lab ID: 2002-09-0028 - 1
Sampled: 08/22/2002 Extracted: 9/4/2002 05:29
Matrix: Soil QC Batch#: 2002/09/04-01.11
Analysis Flag: sdo,lrn. (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Phenol	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Bis(2-chloroethyl)ether	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
2-Chlorophenol	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
1,3-Dichlorobenzene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
1,4-Dichlorobenzene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Benzyl alcohol	ND	4.3	mg/Kg	25.00	09/04/2002 16:39	
1,2-Dichlorobenzene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
2-Methylphenol	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Bis(2-chloroisopropyl) ether	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
4-Methylphenol	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
N-Nitroso-di-n-propylamine	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Hexachloroethane	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Nitrobenzene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Isophorone	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
2-Nitrophenol	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
2,4-Dimethylphenol	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Bis(2-chloroethoxy) methane	ND	4.3	mg/Kg	25.00	09/04/2002 16:39	
2,4-Dichlorophenol	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
1,2,4-Trichlorobenzene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Naphthalene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
4-Chloroaniline	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Hexachlorobutadiene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
4-Chloro-3-methylphenol	ND	4.3	mg/Kg	25.00	09/04/2002 16:39	
2-Methylnaphthalene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Hexachlorocyclopentadiene	ND	4.3	mg/Kg	25.00	09/04/2002 16:39	
2,4,6-Trichlorophenol	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
2,4,5-Trichlorophenol	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
2-Chloronaphthalene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
2-Nitroaniline	ND	8.3	mg/Kg	25.00	09/04/2002 16:39	
Dimethyl phthalate	ND	4.3	mg/Kg	25.00	09/04/2002 16:39	
Acenaphthylene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
3-Nitroaniline	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Acenaphthene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
2,4-Dinitrophenol	ND	8.3	mg/Kg	25.00	09/04/2002 16:39	
4-Nitrophenol	ND	8.3	mg/Kg	25.00	09/04/2002 16:39	

Submission #: 2002-09-0028

Semi-volatile analysis by GC/MS - EPA8270C

Weiss Associates

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Project: 268-1573
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Received: 08/23/2002

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CA DHS ELAP# 2496

Prep(s): 3550B/8270C Test(s): 8270C
Sample ID: PS-1-S-5 Lab ID: 2002-09-0028 - 1
Sampled: 08/22/2002 Extracted: 9/4/2002 05:29
Matrix: Soil QC Batch#: 2002/09/04-01.11
Analysis Flag: sdo,lrn (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dibenzofuran	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
2,4-Dinitrotoluene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
2,6-Dinitrotoluene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Diethyl phthalate	ND	4.3	mg/Kg	25.00	09/04/2002 16:39	
4-Chlorophenyl phenyl ether	ND	4.3	mg/Kg	25.00	09/04/2002 16:39	
Fluorene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
4-Nitroaniline	ND	8.3	mg/Kg	25.00	09/04/2002 16:39	
2-Methyl-4,6-dinitrophenol	ND	8.3	mg/Kg	25.00	09/04/2002 16:39	
N-Nitrosodiphenylamine	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
4-Bromophenyl phenyl ether	ND	4.3	mg/Kg	25.00	09/04/2002 16:39	
Hexachlorobenzene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Pentachlorophenol	ND	8.3	mg/Kg	25.00	09/04/2002 16:39	
Phenanthrene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Anthracene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Di-n-butyl phthalate	ND	4.3	mg/Kg	25.00	09/04/2002 16:39	
Fluoranthene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Pyrene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Butyl benzyl phthalate	ND	4.3	mg/Kg	25.00	09/04/2002 16:39	
3,3-Dichlorobenzidine	ND	4.3	mg/Kg	25.00	09/04/2002 16:39	
Benzo(a)anthracene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
bis(2-Ethylhexyl) phthalate	ND	8.3	mg/Kg	25.00	09/04/2002 16:39	
Chrysene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Di-n-octyl phthalate	ND	4.3	mg/Kg	25.00	09/04/2002 16:39	
Benzo(b)fluoranthene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Benzo(k)fluoranthene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Benzo(a)pyrene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Indeno(1,2,3-c,d)pyrene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Dibenzo(a,h)anthracene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Benzo(g,h,i)perylene	ND	1.7	mg/Kg	25.00	09/04/2002 16:39	
Benzoic acid	ND	8.3	mg/Kg	25.00	09/04/2002 16:39	
Surrogates(s)						
Nitrobenzene-d5	NA	23-120	%	25.00	09/04/2002 16:39	
2-Fluorobiphenyl	NA	30-115	%	25.00	09/04/2002 16:39	
p-Terphenyl-d14	NA	18-137	%	25.00	09/04/2002 16:39	
2-Fluorophenol	NA	25-121	%	25.00	09/04/2002 16:39	

Submission #: 2002-09-0028

Semi-volatile analysis by GC/MS - EPA8270C

Weiss Associates

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Project: 268-1573
Sunol Maintenance Yard & Pump Station

Received: 08/23/2002

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CA DHS ELAP# 2496

Prep(s): 3550B/8270C Test(s): 8270C
Sample ID: PS-1-S-5 Lab ID: 2002-09-0028 - 1
Sampled: 08/22/2002 Extracted: 9/4/2002 05:29
Matrix: Soil QC Batch#: 2002/09/04-01.11
Analysis Flag: sdo,lrn (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Phenol-d6	NA	24-113	%	25.00	09/04/2002 16:39	
2,4,6-Tribromophenol	NA	19-122	%	25.00	09/04/2002 16:39	

Submission #: 2002-09-0028

Semi-volatile analysis by GC/MS - EPA8270C

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CA DHS ELAP# 2496

Prep(s): 3550B/8270C Test(s): 8270C
Sample ID: PS-1-S-15 Lab ID: 2002-09-0028 - 2
Sampled: 08/22/2002 Extracted: 9/4/2002 05:29
Matrix: Soil QC Batch#: 2002/09/04-01.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Phenol	0.070	0.067	mg/Kg	1.00	09/04/2002 16:11	
Bis(2-chloroethyl)ether	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
2-Chlorophenol	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
1,3-Dichlorobenzene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
1,4-Dichlorobenzene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Benzyl alcohol	ND	0.17	mg/Kg	1.00	09/04/2002 16:11	
1,2-Dichlorobenzene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
2-Methylphenol	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Bis(2-chloroisopropyl) ether	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
4-Methylphenol	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
N-Nitroso-di-n-propylamine	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Hexachloroethane	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Nitrobenzene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Isophorone	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
2-Nitrophenol	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
2,4-Dimethylphenol	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Bis(2-chloroethoxy) methane	ND	0.17	mg/Kg	1.00	09/04/2002 16:11	
2,4-Dichlorophenol	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
1,2,4-Trichlorobenzene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Naphthalene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
4-Chloroaniline	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Hexachlorobutadiene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
4-Chloro-3-methylphenol	ND	0.17	mg/Kg	1.00	09/04/2002 16:11	
2-Methylnaphthalene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Hexachlorocyclopentadiene	ND	0.17	mg/Kg	1.00	09/04/2002 16:11	
2,4,6-Trichlorophenol	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
2,4,5-Trichlorophenol	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
2-Chloronaphthalene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
2-Nitroaniline	ND	0.33	mg/Kg	1.00	09/04/2002 16:11	
Dimethyl phthalate	ND	0.17	mg/Kg	1.00	09/04/2002 16:11	
Acenaphthylene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
3-Nitroaniline	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Acenaphthene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
2,4-Dinitrophenol	ND	0.33	mg/Kg	1.00	09/04/2002 16:11	
4-Nitrophenol	ND	0.33	mg/Kg	1.00	09/04/2002 16:11	
Dibenzofuran	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	

Submission #: 2002-09-0028

Semi-volatile analysis by GC/MS - EPA8270C

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Project: 268-1573
 Sunol Maintenance Yard & Pump Station

Received: 08/23/2002

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 www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 3550B/8270C Test(s): 8270C
 Sample ID: PS-1-S-15 Lab ID: 2002-09-0028 - 2
 Sampled: 08/22/2002 Extracted: 9/4/2002 05:29
 Matrix: Soil QC Batch#: 2002/09/04-01.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
2,4-Dinitrotoluene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
2,6-Dinitrotoluene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Diethyl phthalate	ND	0.17	mg/Kg	1.00	09/04/2002 16:11	
4-Chlorophenyl phenyl ether	ND	0.17	mg/Kg	1.00	09/04/2002 16:11	
Fluorene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
4-Nitroaniline	ND	0.33	mg/Kg	1.00	09/04/2002 16:11	
2-Methyl-4,6-dinitrophenol	ND	0.33	mg/Kg	1.00	09/04/2002 16:11	
N-Nitrosodiphenylamine	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
4-Bromophenyl phenyl ether	ND	0.17	mg/Kg	1.00	09/04/2002 16:11	
Hexachlorobenzene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Pentachlorophenol	ND	0.33	mg/Kg	1.00	09/04/2002 16:11	
Phenanthrene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Anthracene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Di-n-butyl phthalate	ND	0.17	mg/Kg	1.00	09/04/2002 16:11	
Fluoranthene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Pyrene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Butyl benzyl phthalate	ND	0.17	mg/Kg	1.00	09/04/2002 16:11	
3,3-Dichlorobenzidine	ND	0.17	mg/Kg	1.00	09/04/2002 16:11	
Benzo(a)anthracene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
bis(2-Ethylhexyl) phthalate	ND	0.33	mg/Kg	1.00	09/04/2002 16:11	
Chrysene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Di-n-octyl phthalate	ND	0.17	mg/Kg	1.00	09/04/2002 16:11	
Benzo(b)fluoranthene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Benzo(k)fluoranthene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Benzo(a)pyrene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Indeno(1,2,3-c,d)pyrene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Dibenzo(a,h)anthracene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Benzo(g,h,i)perylene	ND	0.067	mg/Kg	1.00	09/04/2002 16:11	
Benzoic acid	ND	0.33	mg/Kg	1.00	09/04/2002 16:11	
Surrogates(s)						
Nitrobenzene-d5	85.6	23-120	%	1.00	09/04/2002 16:11	
2-Fluorobiphenyl	77.1	30-115	%	1.00	09/04/2002 16:11	
p-Terphenyl-d14	90.6	18-137	%	1.00	09/04/2002 16:11	
2-Fluorophenol	72.8	25-121	%	1.00	09/04/2002 16:11	
Phenol-d6	81.0	24-113	%	1.00	09/04/2002 16:11	
2,4,6-Tribromophenol	80.4	19-122	%	1.00	09/04/2002 16:11	

Submission #: 2002-09-0028

SEVERN

Semi-volatile analysis by GC/MS - EPA8270C

TRENT

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Project: 268-1573
Sunol Maintenance Yard & Pump Station

Received: 08/23/2002

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3550B/8270C

Test(s): 8270C

Method: Blank

Soil

QC Batch # 2002/09/04-01.11

MB: 2002/09/04-01.11-001

Date Extracted: 09/04/2002 05:29

Compound	Conc.	RL	Unit	Analyzed	Flag
Phenol	ND	0.067	mg/Kg	09/04/2002 14:45	
Bis(2-chloroethyl)ether	ND	0.067	mg/Kg	09/04/2002 14:45	
2-Chlorophenol	ND	0.067	mg/Kg	09/04/2002 14:45	
1,3-Dichlorobenzene	ND	0.067	mg/Kg	09/04/2002 14:45	
1,4-Dichlorobenzene	ND	0.067	mg/Kg	09/04/2002 14:45	
Benzyl alcohol	ND	0.17	mg/Kg	09/04/2002 14:45	
1,2-Dichlorobenzene	ND	0.067	mg/Kg	09/04/2002 14:45	
2-Methylphenol	ND	0.067	mg/Kg	09/04/2002 14:45	
Bis(2-chloroisopropyl) ether	ND	0.067	mg/Kg	09/04/2002 14:45	
4-Methylphenol	ND	0.067	mg/Kg	09/04/2002 14:45	
N-Nitroso-di-n-propylamine	ND	0.067	mg/Kg	09/04/2002 14:45	
Hexachloroethane	ND	0.067	mg/Kg	09/04/2002 14:45	
Nitrobenzene	ND	0.067	mg/Kg	09/04/2002 14:45	
Isophorone	ND	0.067	mg/Kg	09/04/2002 14:45	
2-Nitrophenol	ND	0.067	mg/Kg	09/04/2002 14:45	
2,4-Dimethylphenol	ND	0.067	mg/Kg	09/04/2002 14:45	
Bis(2-chloroethoxy) methane	ND	0.17	mg/Kg	09/04/2002 14:45	
2,4-Dichlorophenol	ND	0.067	mg/Kg	09/04/2002 14:45	
1,2,4-Trichlorobenzene	ND	0.067	mg/Kg	09/04/2002 14:45	
Naphthalene	ND	0.067	mg/Kg	09/04/2002 14:45	
4-Chloroaniline	ND	0.067	mg/Kg	09/04/2002 14:45	
Hexachlorobutadiene	ND	0.067	mg/Kg	09/04/2002 14:45	
4-Chloro-3-methylphenol	ND	0.17	mg/Kg	09/04/2002 14:45	
2-Methylnaphthalene	ND	0.067	mg/Kg	09/04/2002 14:45	
Hexachlorocyclopentadiene	ND	0.17	mg/Kg	09/04/2002 14:45	
2,4,6-Trichlorophenol	ND	0.067	mg/Kg	09/04/2002 14:45	
2,4,5-Trichlorophenol	ND	0.067	mg/Kg	09/04/2002 14:45	
2-Chloronaphthalene	ND	0.067	mg/Kg	09/04/2002 14:45	
2-Nitroaniline	ND	0.33	mg/Kg	09/04/2002 14:45	
Dimethyl phthalate	ND	0.17	mg/Kg	09/04/2002 14:45	
Acenaphthylene	ND	0.067	mg/Kg	09/04/2002 14:45	
3-Nitroaniline	ND	0.067	mg/Kg	09/04/2002 14:45	
Acenaphthene	ND	0.067	mg/Kg	09/04/2002 14:45	
2,4-Dinitrophenol	ND	0.33	mg/Kg	09/04/2002 14:45	
4-Nitrophenol	ND	0.33	mg/Kg	09/04/2002 14:45	
Dibenzofuran	ND	0.067	mg/Kg	09/04/2002 14:45	

Submission #: 2002-09-0028

Semi-volatile analysis by GC/MS - EPA8270C

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3550B/8270C

Method Blank

MB: 2002/09/04-01.11-001

Test(s): 8270C

QC Batch # 2002/09/04-01.11

Date Extracted: 09/04/2002 05:29

Compound	Conc.	RL	Unit	Analyzed	Flag
2,4-Dinitrotoluene	ND	0.067	mg/Kg	09/04/2002 14:45	
2,6-Dinitrotoluene	ND	0.067	mg/Kg	09/04/2002 14:45	
Diethyl phthalate	ND	0.17	mg/Kg	09/04/2002 14:45	
4-Chlorophenyl phenyl ether	ND	0.17	mg/Kg	09/04/2002 14:45	
Fluorene	ND	0.067	mg/Kg	09/04/2002 14:45	
4-Nitroaniline	ND	0.33	mg/Kg	09/04/2002 14:45	
2-Methyl-4,6-dinitrophenol	ND	0.33	mg/Kg	09/04/2002 14:45	
N-Nitrosodiphenylamine	ND	0.067	mg/Kg	09/04/2002 14:45	
4-Bromophenyl phenyl ether	ND	0.17	mg/Kg	09/04/2002 14:45	
Hexachlorobenzene	ND	0.067	mg/Kg	09/04/2002 14:45	
Pentachlorophenol	ND	0.33	mg/Kg	09/04/2002 14:45	
Phenanthrene	ND	0.067	mg/Kg	09/04/2002 14:45	
Anthracene	ND	0.067	mg/Kg	09/04/2002 14:45	
Di-n-butyl phthalate	ND	0.17	mg/Kg	09/04/2002 14:45	
Fluoranthene	ND	0.067	mg/Kg	09/04/2002 14:45	
Pyrene	ND	0.067	mg/Kg	09/04/2002 14:45	
Butyl benzyl phthalate	ND	0.17	mg/Kg	09/04/2002 14:45	
3,3-Dichlorobenzidine	ND	0.17	mg/Kg	09/04/2002 14:45	
Benzo(a)anthracene	ND	0.067	mg/Kg	09/04/2002 14:45	
bis(2-Ethylhexyl) phthalate	ND	0.33	mg/Kg	09/04/2002 14:45	
Chrysene	ND	0.067	mg/Kg	09/04/2002 14:45	
Di-n-octyl phthalate	ND	0.17	mg/Kg	09/04/2002 14:45	
Benzo(b)fluoranthene	ND	0.067	mg/Kg	09/04/2002 14:45	
Benzo(k)fluoranthene	ND	0.067	mg/Kg	09/04/2002 14:45	
Benzo(a)pyrene	ND	0.067	mg/Kg	09/04/2002 14:45	
Indeno(1,2,3-c,d)pyrene	ND	0.067	mg/Kg	09/04/2002 14:45	
Dibenzo(a,h)anthracene	ND	0.067	mg/Kg	09/04/2002 14:45	
Benzo(g,h,i)perylene	ND	0.067	mg/Kg	09/04/2002 14:45	
Benzoic acid	ND	0.33	mg/Kg	09/04/2002 14:45	
Surrogates(s)					
Nitrobenzene-d5	84.2	23-120	%	09/04/2002 14:45	
2-Fluorobiphenyl	82.2	30-115	%	09/04/2002 14:45	
p-Terphenyl-d14	88.2	18-137	%	09/04/2002 14:45	
2-Fluorophenol	79.4	25-121	%	09/04/2002 14:45	
Phenol-d6	88.1	24-113	%	09/04/2002 14:45	
2,4,6-Tribromophenol	83.4	19-122	%	09/04/2002 14:45	

Submission #: 2002-09-0028

Semi-volatile analysis by GC/MS - EPA8270C

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3550B/8270C

Test(s): 8270C

Laboratory Control Spike

Soil

QC Batch # 2002/09/04-01.11

LCS 2002/09/04-01.11-002

Extracted: 09/04/2002

Analyzed: 09/04/2002 15:13

LCSD 2002/09/04-01.11-003

Extracted: 09/04/2002

Analyzed: 09/04/2002 15:42

Compound	Conc. mg/Kg		Exp. Conc.	Recovery		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Phenol	1.25	1.31	2.00	62.5	65.5	4.7	20-90	35		
2-Chlorophenol	1.43	1.41	2.00	71.5	70.5	1.4	27-123	35		
1,4-Dichlorobenzene	0.650	0.690	1.000	65.0	69.1	6.1	28-104	30		
N-Nitroso-di-n-propylamine	0.740	0.750	1.000	74.0	75.1	1.5	25-114	39		
1,2,4-Trichlorobenzene	0.760	0.800	1.000	76.0	80.1	5.3	38-107	35		
4-Chloro-3-methylphenol	1.67	1.52	2.00	83.5	76.0	9.4	26-103	33		
Acenaphthene	0.650	0.710	1.000	65.0	71.1	9.0	49-102	30		
4-Nitrophenol	1.60	1.52	2.00	80.0	76.0	5.1	17-109	35		
2,4-Dinitrotoluene	0.770	0.770	1.000	77.0	77.1	0.1	39-139	38		
Pentachlorophenol	1.30	1.24	2.00	65.0	62.0	4.7	11-114	35		
Pyrene	0.750	0.860	1.000	75.0	86.1	13.8	25-117	35		
Surrogates(s)										
Nitrobenzene-d5	16.9	17.3	25	67.6	69.2		23-120			
2-Fluorobiphenyl	18.8	20.6	25	75.2	82.4		30-115			
p-Terphenyl-d14	23.2	22.1	25	92.8	88.4		18-137			
2-Fluorophenol	29.4	31.1	50	58.8	62.2		25-121			
Phenol-d6	38.2	39.3	50	76.4	78.6		24-113			
2,4,6-Tribromophenol	42.3	39.3	50	84.6	78.6		19-122			

Submission #: 2002-09-0028

Semi-volatile analysis by GC/MS - EPA8270C

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3550B/8270C

Test(s): 8270C

Matrix Spike (MS / MSD)

Soil

QC Batch # 2002/09/04-01.11

PS-1-S-5 >> MS

Lab ID: 2002-09-0028 - 001

MS: 2002/09/04-01.11-005

Extracted: 09/04/2002

Analyzed: 09/04/2002 17:08

Dilution: 5.00

MSD: 2002/09/04-01.11-006

Extracted: 09/04/2002

Analyzed: 09/04/2002 17:37

Dilution: 5.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Phenol	1.17	1.11	0.0800	2.00	54.5	51.5	5.7	20-90	35		
2-Chlorophenol	1.42	1.36	ND	2.00	71.0	68.0	4.3	27-123	35		
1,4-Dichlorobenzene	0.650	0.680	ND	0.999	65.1	68.1	4.5	28-104	30		
N-Nitroso-di-n-propylamine	0.870	0.840	ND	0.999	87.1	84.1	3.5	25-114	39		
1,2,4-Trichlorobenzene	0.870	0.790	ND	0.999	87.1	79.1	9.6	38-107	35		
4-Chloro-3-methylphenol	1.04	0.950	ND	2.00	52.0	47.5	9.0	26-103	33		
Acenaphthene	0.720	0.730	ND	0.999	72.1	73.1	1.4	49-102	30		
4-Nitrophenol	1.01	4.68	ND	2.00	50.5	234.0	129.	17-109	35		rpd,mso
2,4-Dinitrotoluene	0.590	0.690	ND	0.999	59.1	69.1	15.6	39-139	38		
Pentachlorophenol	0.660	0.780	ND	2.00	33.0	39.0	16.7	11-114	35		
Pyrene	0.800	0.900	0.110	0.999	69.1	79.1	13.5	25-117	35		
Surrogate(s)											
Nitrobenzene-d5	3.41	2.83		25	13.6	11.3		23-120		sl	sl
2-Fluorobiphenyl	3.84	4.17		25	15.3	16.7		30-115		sl	sl
p-Terphenyl-d14	4.92	5.42		25	19.7	21.7		18-137			
2-Fluorophenol	6.10	6.45		50	12.2	12.9		25-121		st	sl
Phenol-d6	6.93	7.17		50	13.9	14.4		24-113		sl	sl
2,4,6-Tribromophenol	9.40	9.63		50	18.8	19.3		19-122		sl	

Submission #: 2002-09-0028

Semi-volatile analysis by GC/MS - EPA8270C

Weiss Associates

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Project: 268-1573
Sunol Maintenance Yard & Pump Station

Received: 08/23/2002

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Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Legend and Notes

Analysis Flag

lrn

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

sdo

Surrogate(s) diluted out

Result Flag

mso

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

rpd

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

sl

Surrogate recoveries were lower than QC limit due to matrix interference,
confirmed by reanalysis.

Submission #: 2002-08-0481

Semi-volatile analysis by GC/MS - EPA8270C

Weiss Associates

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CA DHS ELAP# 2496

Prep(s): 3510C/8270C Test(s): 8270C
Sample ID: PS-4-GW Lab ID: 2002-08-0481 - 24
Sampled: 08/23/2002 10:15 Extracted: 8/30/2002 07:42
Matrix: Water QC Batch#: 2002/08/30-01.11
Analysis Flag: rl (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Phenol	11	3.5	ug/L	1.74	08/30/2002 15:49	
Bis(2-chloroethyl)ether	ND	3.5	ug/L	1.74	08/30/2002 15:49	
2-Chlorophenol	ND	3.5	ug/L	1.74	08/30/2002 15:49	
1,3-Dichlorobenzene	ND	3.5	ug/L	1.74	08/30/2002 15:49	
1,4-Dichlorobenzene	ND	3.5	ug/L	1.74	08/30/2002 15:49	
Benzyl alcohol	ND	8.7	ug/L	1.74	08/30/2002 15:49	
1,2-Dichlorobenzene	ND	3.5	ug/L	1.74	08/30/2002 15:49	
2-Methylphenol	ND	3.5	ug/L	1.74	08/30/2002 15:49	
Bis(2-chloroisopropyl) ether	ND	3.5	ug/L	1.74	08/30/2002 15:49	
4-Methylphenol	13	3.5	ug/L	1.74	08/30/2002 15:49	
N-Nitroso-di-n-propylamine	ND	3.5	ug/L	1.74	08/30/2002 15:49	
Hexachloroethane	ND	3.5	ug/L	1.74	08/30/2002 15:49	
Nitrobenzene	ND	3.5	ug/L	1.74	08/30/2002 15:49	
Isophorone	ND	3.5	ug/L	1.74	08/30/2002 15:49	
2-Nitrophenol	ND	3.5	ug/L	1.74	08/30/2002 15:49	
2,4-Dimethylphenol	ND	3.5	ug/L	1.74	08/30/2002 15:49	
Bis(2-chloroethoxy) methane	ND	8.7	ug/L	1.74	08/30/2002 15:49	
2,4-Dichlorophenol	ND	3.5	ug/L	1.74	08/30/2002 15:49	
1,2,4-Trichlorobenzene	ND	3.5	ug/L	1.74	08/30/2002 15:49	
Naphthalene	6.5	3.5	ug/L	1.74	08/30/2002 15:49	
4-Chloroaniline	ND	3.5	ug/L	1.74	08/30/2002 15:49	
Hexachlorobutadiene	ND	3.5	ug/L	1.74	08/30/2002 15:49	
4-Chloro-3-methylphenol	ND	8.7	ug/L	1.74	08/30/2002 15:49	
2-Methylnaphthalene	ND	3.5	ug/L	1.74	08/30/2002 15:49	
Hexachlorocyclopentadiene	ND	8.7	ug/L	1.74	08/30/2002 15:49	
2,4,6-Trichlorophenol	ND	3.5	ug/L	1.74	08/30/2002 15:49	
2,4,5-Trichlorophenol	ND	3.5	ug/L	1.74	08/30/2002 15:49	
2-Chloronaphthalene	ND	3.5	ug/L	1.74	08/30/2002 15:49	
2-Nitroaniline	ND	17	ug/L	1.74	08/30/2002 15:49	
Dimethyl phthalate	ND	8.7	ug/L	1.74	08/30/2002 15:49	
Acenaphthylene	ND	3.5	ug/L	1.74	08/30/2002 15:49	
3-Nitroaniline	ND	3.5	ug/L	1.74	08/30/2002 15:49	
Acenaphthene	14	3.5	ug/L	1.74	08/30/2002 15:49	
2,4-Dinitrophenol	ND	17	ug/L	1.74	08/30/2002 15:49	
4-Nitrophenol	ND	17	ug/L	1.74	08/30/2002 15:49	

Submission #: 2002-08-0481

Semi-volatile analysis by GC/MS - EPA8270C

Weiss Associates

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Project: 268-1573
 Sunol Maintenance Yard & Pump Station

Received: 08/23/2002 16:50

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CA DHS ELAP# 2496

Prep(s): 3510C/8270C Test(s): 8270C
 Sample ID: PS-4-GW Lab ID: 2002-08-0481 - 24
 Sampled: 08/23/2002 10:15 Extracted: 8/30/2002 07:42
 Matrix: Water QC Batch#: 2002/08/30-01.11
 Analysis Flag: rl (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dibenzofuran	5.2	3.5	ug/L	1.74	08/30/2002 15:49	
2,4-Dinitrotoluene	ND	3.5	ug/L	1.74	08/30/2002 15:49	
2,6-Dinitrotoluene	ND	8.7	ug/L	1.74	08/30/2002 15:49	
Diethyl phthalate	ND	8.7	ug/L	1.74	08/30/2002 15:49	
4-Chlorophenyl phenyl ether	ND	8.7	ug/L	1.74	08/30/2002 15:49	
Fluorene	10	3.5	ug/L	1.74	08/30/2002 15:49	
4-Nitroaniline	ND	17	ug/L	1.74	08/30/2002 15:49	
2-Methyl-4,6-dinitrophenol	ND	17	ug/L	1.74	08/30/2002 15:49	
N-Nitrosodiphenylamine	ND	3.5	ug/L	1.74	08/30/2002 15:49	
4-Bromophenyl phenyl ether	ND	8.7	ug/L	1.74	08/30/2002 15:49	
Hexachlorobenzene	ND	3.5	ug/L	1.74	08/30/2002 15:49	
Pentachlorophenol	ND	17	ug/L	1.74	08/30/2002 15:49	
Phenanthrene	13	3.5	ug/L	1.74	08/30/2002 15:49	
Anthracene	4.0	3.5	ug/L	1.74	08/30/2002 15:49	
Di-n-butyl phthalate	ND	8.7	ug/L	1.74	08/30/2002 15:49	
Fluoranthene	ND	3.5	ug/L	1.74	08/30/2002 15:49	
Pyrene	ND	3.5	ug/L	1.74	08/30/2002 15:49	
Butyl benzyl phthalate	ND	8.7	ug/L	1.74	08/30/2002 15:49	
3,3-Dichlorobenzidine	ND	8.7	ug/L	1.74	08/30/2002 15:49	
Benzo(a)anthracene	ND	3.5	ug/L	1.74	08/30/2002 15:49	
bis(2-Ethylhexyl) phthalate	ND	17	ug/L	1.74	08/30/2002 15:49	
Chrysene	ND	3.5	ug/L	1.74	08/30/2002 15:49	
Di-n-octyl phthalate	ND	8.7	ug/L	1.74	08/30/2002 15:49	
Benzo(b)fluoranthene	ND	3.5	ug/L	1.74	08/30/2002 15:49	
Benzo(k)fluoranthene	ND	3.5	ug/L	1.74	08/30/2002 15:49	
Benzo(a)pyrene	ND	3.5	ug/L	1.74	08/30/2002 15:49	
Indeno(1,2,3-c,d)pyrene	ND	3.5	ug/L	1.74	08/30/2002 15:49	
Dibenzo(a,h)anthracene	ND	3.5	ug/L	1.74	08/30/2002 15:49	
Benzo(g,h,i)perylene	ND	3.5	ug/L	1.74	08/30/2002 15:49	
Benzoic acid	32	17	ug/L	1.74	08/30/2002 15:49	
Surrogates(s)						
Nitrobenzene-d5	71.5	35-114	%	1.74	08/30/2002 15:49	
2-Fluorobiphenyl	71.1	43-116	%	1.74	08/30/2002 15:49	
p-Terphenyl-d14	93.9	33-141	%	1.74	08/30/2002 15:49	
2-Fluorophenol	61.5	25-100	%	1.74	08/30/2002 15:49	

Submission #: 2002-08-0481

Semi-volatile analysis by GC/MS - EPA8270C

Weiss Associates

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Project: 268-1573
Sunol Maintenance Yard & Pump Station

Received: 08/23/2002 16:50

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www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 3510C/8270C Test(s): 8270C
Sample ID: PS-4-GW Lab ID: 2002-08-0481 - 24
Sampled: 08/23/2002 10:15 Extracted: 8/30/2002 07:42
Matrix: Water QC Batch#: 2002/08/30-01.11
Analysis Flag: rl (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Phenol-d6	49.4	10-110	%	1.74	08/30/2002 15:49	
2,4,6-Tribromophenol	106.8	10-123	%	1.74	08/30/2002 15:49	

Submission #: 2002-08-0481

Semi-volatile analysis by GC/MS - EPA8270C

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3510C/8270C

Method Blank

MB: 2002/08/30-01.11-003

Water

Test(s): 8270C

QC Batch # 2002/08/30-01.11

Date Extracted: 08/30/2002 07:42

Compound	Conc.	RL	Unit	Analyzed	Flag
Phenol	ND	2.0	ug/L	08/30/2002 09:55	
Bis(2-chloroethyl)ether	ND	2.0	ug/L	08/30/2002 09:55	
2-Chlorophenol	ND	2.0	ug/L	08/30/2002 09:55	
1,3-Dichlorobenzene	ND	2.0	ug/L	08/30/2002 09:55	
1,4-Dichlorobenzene	ND	2.0	ug/L	08/30/2002 09:55	
Benzyl alcohol	ND	5.0	ug/L	08/30/2002 09:55	
1,2-Dichlorobenzene	ND	2.0	ug/L	08/30/2002 09:55	
2-Methylphenol	ND	2.0	ug/L	08/30/2002 09:55	
Bis(2-chloroisopropyl) ether	ND	2.0	ug/L	08/30/2002 09:55	
4-Methylphenol	ND	2.0	ug/L	08/30/2002 09:55	
N-Nitroso-di-n-propylamine	ND	2.0	ug/L	08/30/2002 09:55	
Hexachloroethane	ND	2.0	ug/L	08/30/2002 09:55	
Nitrobenzene	ND	2.0	ug/L	08/30/2002 09:55	
Isophorone	ND	2.0	ug/L	08/30/2002 09:55	
2-Nitrophenol	ND	2.0	ug/L	08/30/2002 09:55	
2,4-Dimethylphenol	ND	2.0	ug/L	08/30/2002 09:55	
Bis(2-chloroethoxy) methane	ND	5.0	ug/L	08/30/2002 09:55	
2,4-Dichlorophenol	ND	2.0	ug/L	08/30/2002 09:55	
1,2,4-Trichlorobenzene	ND	2.0	ug/L	08/30/2002 09:55	
Naphthalene	ND	2.0	ug/L	08/30/2002 09:55	
4-Chloroaniline	ND	2.0	ug/L	08/30/2002 09:55	
Hexachlorobutadiene	ND	2.0	ug/L	08/30/2002 09:55	
4-Chloro-3-methylphenol	ND	5.0	ug/L	08/30/2002 09:55	
2-Methylnaphthalene	ND	2.0	ug/L	08/30/2002 09:55	
Hexachlorocyclopentadiene	ND	5.0	ug/L	08/30/2002 09:55	
2,4,6-Trichlorophenol	ND	2.0	ug/L	08/30/2002 09:55	
2,4,5-Trichlorophenol	ND	2.0	ug/L	08/30/2002 09:55	
2-Chloronaphthalene	ND	2.0	ug/L	08/30/2002 09:55	
2-Nitroaniline	ND	10	ug/L	08/30/2002 09:55	
Dimethyl phthalate	ND	5.0	ug/L	08/30/2002 09:55	
Acenaphthylene	ND	2.0	ug/L	08/30/2002 09:55	
3-Nitroaniline	ND	2.0	ug/L	08/30/2002 09:55	
Acenaphthene	ND	2.0	ug/L	08/30/2002 09:55	
2,4-Dinitrophenol	ND	10	ug/L	08/30/2002 09:55	
4-Nitrophenol	ND	10	ug/L	08/30/2002 09:55	
Dibenzofuran	ND	2.0	ug/L	08/30/2002 09:55	

Submission #: 2002-08-0481

Semi-volatile analysis by GC/MS - EPA8270C

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3510C/8270C

Test(s): 8270C

Method Blank

Water

QC Batch # 2002/08/30-01.11

MB: 2002/08/30-01.11-003

Date Extracted: 08/30/2002 07:42

Compound	Conc.	RL	Unit	Analyzed	Flag
2,4-Dinitrotoluene	ND	2.0	ug/L	08/30/2002 09:55	
2,6-Dinitrotoluene	ND	5.0	ug/L	08/30/2002 09:55	
Diethyl phthalate	ND	5.0	ug/L	08/30/2002 09:55	
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	08/30/2002 09:55	
Fluorene	ND	2.0	ug/L	08/30/2002 09:55	
4-Nitroaniline	ND	10	ug/L	08/30/2002 09:55	
2-Methyl-4,6-dinitrophenol	ND	10	ug/L	08/30/2002 09:55	
N-Nitrosodiphenylamine	ND	2.0	ug/L	08/30/2002 09:55	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	08/30/2002 09:55	
Hexachlorobenzene	ND	2.0	ug/L	08/30/2002 09:55	
Pentachlorophenol	ND	10	ug/L	08/30/2002 09:55	
Phenanthrene	ND	2.0	ug/L	08/30/2002 09:55	
Anthracene	ND	2.0	ug/L	08/30/2002 09:55	
Di-n-butyl phthalate	ND	5.0	ug/L	08/30/2002 09:55	
Fluoranthene	ND	2.0	ug/L	08/30/2002 09:55	
Pyrene	ND	2.0	ug/L	08/30/2002 09:55	
Butyl benzyl phthalate	ND	5.0	ug/L	08/30/2002 09:55	
3,3-Dichlorobenzidine	ND	5.0	ug/L	08/30/2002 09:55	
Benzo(a)anthracene	ND	2.0	ug/L	08/30/2002 09:55	
bis(2-Ethylhexyl) phthalate	ND	10.0	ug/L	08/30/2002 09:55	
Chrysene	ND	2.0	ug/L	08/30/2002 09:55	
Di-n-octyl phthalate	ND	5.0	ug/L	08/30/2002 09:55	
Benzo(b)fluoranthene	ND	2.0	ug/L	08/30/2002 09:55	
Benzo(k)fluoranthene	ND	2.0	ug/L	08/30/2002 09:55	
Benzo(a)pyrene	ND	2.0	ug/L	08/30/2002 09:55	
Indeno(1,2,3-c,d)pyrene	ND	2.0	ug/L	08/30/2002 09:55	
Dibenzo(a,h)anthracene	ND	2.0	ug/L	08/30/2002 09:55	
Benzo(g,h,i)perylene	ND	2.0	ug/L	08/30/2002 09:55	
Benzoic acid	ND	10	ug/L	08/30/2002 09:55	
Surrogates(s)					
Nitrobenzene-d5	93.1	35-114	%	08/30/2002 09:55	
2-Fluorobiphenyl	83.4	43-116	%	08/30/2002 09:55	
p-Terphenyl-d14	102.0	33-141	%	08/30/2002 09:55	
2-Fluorophenol	54.9	25-100	%	08/30/2002 09:55	
Phenol-d6	35.9	10-110	%	08/30/2002 09:55	
2,4,6-Tribromophenol	94.1	10-123	%	08/30/2002 09:55	

Submission #: 2002-08-0481

Semi-volatile analysis by GC/MS - EPA8270C

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3510C/8270C

Test(s): 8270C

Laboratory Control Spike

Water

QC Batch # 2002/08/30-01.11

LCS 2002/08/30-01.11-004

Extracted: 08/30/2002

Analyzed: 08/30/2002 10:29

LCSD 2002/08/30-01.11-005

Extracted: 08/30/2002

Analyzed: 08/30/2002 11:04

Compound	Conc. ug/L		Exp. Conc.	Recovery		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Phenol	22.5	24.5	60.0	37.5	40.8	8.4	12-89	35		
2-Chlorophenol	48.3	52.7	60.0	80.5	87.8	8.7	23-134	25		
1,4-Dichlorobenzene	22.9	23.6	30.0	76.3	78.7	3.1	36-97	30		
N-Nitroso-di-n-propylamine	29.9	31.9	30.0	99.7	106.3	6.4	10-130	34		
1,2,4-Trichlorobenzene	26.7	27.5	30.0	89.0	91.7	3.0	44-142	35		
4-Chloro-3-methylphenol	58.0	62.2	60.0	96.7	103.7	7.0	22-147	31		
Acenaphthene	28.4	29.8	30.0	94.7	99.3	4.7	56-118	30		
4-Nitrophenol	24.4	24.6	60.0	40.7	41.0	0.7	1-132	35		
2,4-Dinitrotoluene	30.6	32.4	30.0	102.0	108.0	5.7	39-139	35		
Pentachlorophenol	48.9	51.3	60.0	81.5	85.5	4.8	45-125	35		
Pyrene	30.9	31.9	30.0	103.0	106.3	3.2	52-115	35		
Surrogates(s)										
Nitrobenzene-d5	23.5	24.5	25	94.0	97.9		35-114			
2-Fluorobiphenyl	22.6	23.8	25	90.4	95.0		43-116			
p-Terphenyl-d14	26.6	26.6	25	106.4	106.6		33-141			
2-Fluorophenol	28.9	30.1	50	57.8	60.1		25-100			
Phenol-d6	19.5	20.7	50	39.0	41.3		10-110			
2,4,6-Tribromophenol	53.3	56.6	50	106.6	113.2		10-123			

Submission #: 2002-08-0481

Semi-volatile analysis by GC/MS - EPA8270C

Weiss Associates

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Project: 268-1573

Sunol Maintenance Yard & Pump Station

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CA DHS ELAP# 2496

Legend and Notes

Analysis Flag

rl

Reporting limits raised due to reduced sample size.

Please send analytic results and a copy of the signed chain of custody form to:

MELISSA TUMBLESON
 Project ID: 268-1573
 Protocol No.: 0802prot2

LAB PERSONNEL:
 Please Include QA/QC Data.
 Specify method and detection limit in report.
 Notify of anomalous peaks in GC or other scans.
 Notify us of any questions or problems.

CHAIN-OF-CUSTODY RECORD AND ANALYTIC INSTRUCTIONS

Sampled by: LAIS Laboratory Name: STL San Francisco Site Name: Sunol Maintenance Yard and Pump Station

Sample ID	Sample Date	Sample Time	# of Containers	Sample/ Container Type ¹	Volume	Preservative?	Filter? ²	Refrig? ³	Turn ⁴	Analyze for	Analytical Method	Special Instructions
MY-2-GW	8/22/02	0840	1 48	W/B W/V	1 L 40 mL	N HCl	N N	Y Y	N N	TPH-D TPH-G/BTEX/MTBE	8015 8015/8020	MTBE confirmation by MS
MY-2-GW		0840	1 28	W/B W/V	1 L 40 mL	HCl HCl	N N	Y Y	N N	O&G HVOCs	1664A 8260	
MY-3-S-5		1305	1	S/T	NA	N	N	Y	N	TPH-D, TPH-G, BTEX/MTBE O&G, HVOCs	8015, 8020 1664A, 8260	MTBE confirmation by MS
MY-3-S-10		1310	1	S/T	NA	N	N	Y	N	TPH-D, TPH-G, BTEX/MTBE O&G, HVOCs	8015, 8020 1664A, 8260	MTBE confirmation by MS
MY-3-S-15		1320	1	S/T	NA	N	N	Y	N	TPH-D, TPH-G, BTEX/MTBE O&G, HVOCs	8015, 8020 1664A, 8260	MTBE confirmation by MS
MY-3-S-20		1330	1	S/T	NA	N	N	Y	N	TPH-D, TPH-G, BTEX/MTBE O&G, HVOCs	8015, 8020 1664A, 8260	MTBE confirmation by MS
MY-3-GW		1350	1 48	W/B W/V	1 L 40 mL	N HCl	N N	Y Y	N N	TPH-D TPH-G/BTEX/MTBE	8015 8015/8020	MTBE confirmation by MS
MY-3-GW		1350	1 28	W/B W/V	1 L 40 mL	HCl HCl	N N	Y Y	N N	O&G HVOCs	1664A 8260	
MY-4-S-5		1145	1	S/T	NA	N	N	Y	N	TPH-D, TPH-G, BTEX/MTBE O&G, HVOCs	8015, 8020 1664A, 8260	MTBE confirmation by MS
MY-4-S-10	✓	1150	1	S/T	NA	N	N	Y	N	TPH-D, TPH-G, BTEX/MTBE O&G, HVOCs	8015, 8020 1664A, 8260	MTBE confirmation by MS

1 [Signature] 8/22/02 1715 2 [Signature] 8/22/02 @ 1715
Released by (Signature), Date, Time
 1 Weiss Assoc. (Affiliation) 2 STL-SF
 3 4
Released by (Signature), Date, Time
 3 (Affiliation) 4 (Affiliation)

1 = Sample Type Codes: W = Water, S = Soil, Describe Other; Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B - Clear/Brown Glass, Describe Other;
 Cap Codes: PT = Plastic, Teflon Lined 2 = Filtered (Y/N) 3 = Refrigerated (Y/N) 4 = Turnaround: N = Normal, W = 1 Week, R = 24 Hour, HOLD (write out)

= Samples stored in a secured, locked area.
ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

Please send analytic results and a copy of the signed chain of custody form to:

MELISSA TUMBLESON
 Project ID: 268-1573
 Protocol No.: 0802prot2

LAB PERSONNEL:
 Please Include QA/QC Data.
 Specify method and detection limit in report.
 Notify of anomalous peaks in GC or other scans.
 Notify us of any questions or problems.

CHAIN-OF-CUSTODY RECORD AND ANALYTIC INSTRUCTIONS

Sampled by: LMS Laboratory Name: STL San Francisco Site Name: Sunol Maintenance Yard and Pump Station

Sample ID	Sample Date	Sample Time	# of Containers	Sample/ Container Type ¹	Volume	Preservative?	Filter? ²	Refrig? ³	Turn ⁴	Analyze for	Analytical Method	Special Instructions
MY-1-S-5	8/22/02	0920	1	S/T	NA	N	N	Y	N	TPH-D, TPH-G, BTEX/MTBE O&G, HVOCs	8015, 8020 1664A, 8260	MTBE confirmation by MS
MY-1-S-10		0930	1	S/T	NA	N	N	Y	N	TPH-D, TPH-G, BTEX/MTBE O&G, HVOCs	8015, 8020 1664A, 8260	MTBE confirmation by MS
MY-1-S-15		0940	1	S/T	NA	N	N	Y	N	TPH-D, TPH-G, BTEX/MTBE O&G, HVOCs	8015, 8020 1664A, 8260	MTBE confirmation by MS
MY-1-S-20		1105	1	S/T	NA	N	N	Y	N	TPH-D, TPH-G, BTEX/MTBE O&G, HVOCs	8015, 8020 1664A, 8260	MTBE confirmation by MS
MY-1-GW		1615	1 4	W/B W/V	1 L 40 mL	N HCl	N N	Y Y	N N	TPH-D TPH-G/BTEX/MTBE	8015 8015/8020	MTBE confirmation by MS
MY-1-GW		1615	1 2	W/B W/V	1 L 40 mL	HCl HCl	N N	Y Y	N N	O&G HVOCs	1664A 8260	<i>(initials)</i> 8/22/02
MY-2-S-5		0800	1	S/T	NA	N	N	Y	N	TPH-D, TPH-G, BTEX/MTBE O&G, HVOCs	8015, 8020 1664A, 8260	MTBE confirmation by MS
MY-2-S-10		0805	1	S/T	NA	N	N	Y	N	TPH-D, TPH-G, BTEX/MTBE O&G, HVOCs	8015, 8020 1664A, 8260	MTBE confirmation by MS
MY-2-S-15		0810	1	S/T	NA	N	N	Y	N	TPH-D, TPH-G, BTEX/MTBE O&G, HVOCs	8015, 8020 1664A, 8260	MTBE confirmation by MS
MY-2-S-20	↓	0815	1	S/T	NA	N	N	Y	N	TPH-D, TPH-G, BTEX/MTBE O&G, HVOCs	8015, 8020 1664A, 8260	MTBE confirmation by MS

1 *[Signature]* 8/22/02 1715 2 *[Signature]* 8/22/02 @ 1715
 Released by (Signature), Date, Time Received by (Signature), Date, Time

1 (Affiliation) Weiss Assoc. 2 (Affiliation) STL-SF

3 4
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3 (Affiliation) 4 (Affiliation)

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ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:



Weiss Associates

Environmental Science, Engineering and Management Services

5801 Christie Avenue, Suite 600, Emeryville, CA 94608

Phone: 510-450-6000 Fax: 510-547-5043

AguaTierra Associates Incorporated, DBA

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CHAIN-OF-CUSTODY RECORD AND ANALYTIC INSTRUCTIONS

Sampled by: LMS

Laboratory Name: STL San Francisco

Site Name: Sunol Maintenance Yard and Pump Station

Sample ID	Sample Date	Sample Time	# of Containers	Sample/ Container Type ¹	Volume	Preservative?	Filter? ²	Refrig? ³	Turn ⁴	Analyze for	Analytical Method	Special Instructions
MY-4-S-15	8/22/02	1155	1	S/T	NA	N	N	Y	N	TPH-D, TPH-G, BTEX/MTBE O&G, HVOCs	8015, 8020 1664A, 8260	MTBE confirmation by MS
MY-4-S-20	↓	1220	1	S/T	NA	N	N	Y	N	TPH-D, TPH-G, BTEX/MTBE O&G, HVOCs	8015, 8020 1664A, 8260	MTBE confirmation by MS
MY-4-GW	8/23/02	0730	1 48	W/B W/V	1 L 40 mL	N HCl	N N	Y Y	N N	TPH-D TPH-G/BTEX/MTBE	8015 8015/8020	MTBE confirmation by MS
MY-4-GW	↓	0730	1 28	W/B W/V	1 L 40 mL	HCl HCl	N N	Y Y	N N	O&G HVOCs	1664A 8260	
MY-TB	↓	0745	1	W/V	40 mL	HCl	N	Y	N	HVOCs	8260	
PS-1-S-5	8/22/02	1445	1	S/T	NA	N	N	Y	N	TPH-D, BTEX/MTBE O&G	8015, 8020 1664A	MTBE confirmation by MS
PS-1-S-10	8/22/02	1450	1	S/T	NA	N	N	Y	N	TPH-D, BTEX/MTBE O&G	8015, 8020 1664A	MTBE confirmation by MS
PS-1-S-15	8/22/02	1505	1	S/T	NA	N	N	Y	N	TPH-D, BTEX/MTBE O&G	8015, 8020 1664A	MTBE confirmation by MS
PS-1-S-20	8/23/02	0815	1	S/T	NA	N	N	Y	N	TPH-D, BTEX/MTBE O&G	8015, 8020 1664A	MTBE confirmation by MS
PS-1-GW	↓	0820	1 3	W/B W/V	1 L 40 mL	N HCl	N N	Y Y	Hold N	SVOCs BTEX/MTBE	8270 8020	HOLD MTBE confirmation by MS

1 Mattias 8/23/02 1650

Received by (Signature), Date, Time

1 (Affiliation) Weiss Assoc.

2 (Affiliation)

3 D. Harrington 8/23/02 @ 1650

Received by (Signature), Date, Time

3 (Affiliation) STL-SF

4 (Affiliation)

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 Project ID: 268-1573
 Protocol No.: 0802prot2

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CHAIN-OF-CUSTODY RECORD AND ANALYTIC INSTRUCTIONS

Sampled by: LMS Laboratory Name: STL San Francisco Site Name: Sunol Maintenance Yard and Pump Station

Sample ID	Sample Date	Sample Time	# of Containers	Sample/ Container Type ¹	Volume	Preservative?	Filter? ²	Refrig? ³	Turn ⁴	Analyze for	Analytical Method	Special Instructions
PS-1-GW	8/23/02	0820	1	W/B	1 L	HCl	N	Y	RUSH	O&G	1664A	RUSH
			1	W/B	1 L	N	N	Y	3-day	TPH-D	8015	
PS-2-S-5		1300	1	S/T	NA	N	N	Y	N	TPH-D, BTEX/MTBE	8015, 8020	MTBE confirmation by MS
										O&G	1664A	
PS-2-S-10		1305	1	S/T	NA	N	N	Y	N	TPH-D, BTEX/MTBE	8015, 8020	MTBE confirmation by MS
										O&G	1664A	
PS-2-S-15		1315	1	S/T	NA	N	N	Y	N	TPH-D, BTEX/MTBE	8015, 8020	MTBE confirmation by MS
										O&G	1664A	
PS-2-S-20		1340	1	S/T	NA	N	N	Y	N	TPH-D, BTEX/MTBE	8015, 8020	MTBE confirmation by MS
										O&G	1664A	
PS-2-GW		1345	1	W/B	1 L	N	N	Y	Hold	SVOCs	8270	HOLD
			3	W/V	40 mL	HCl	N	Y	N	BTEX/MTBE	8020	MTBE confirmation by MS
PS-2-GW		1345	1	W/B	1 L	HCl	N	Y	RUSH	O&G	1664A	RUSH
			1	W/B	1 L	N	N	Y	3-day	TPH-D	8015	
PS-3-S-5		1120	1	S/T	NA	N	N	Y	N	TPH-D, BTEX/MTBE	8015, 8020	MTBE confirmation by MS
										O&G	1664A	
PS-3-S-10		1125	1	S/T	NA	N	N	Y	N	TPH-D, BTEX/MTBE	8015, 8020	MTBE confirmation by MS
										O&G	1664A	
PS-3-S-15		1130	1	S/T	NA	N	N	Y	N	TPH-D, BTEX/MTBE	8015, 8020	MTBE confirmation by MS
										O&G	1664A	

1 Matt... 8/23/02 1650 2
 Released by (Signature), Date, Time Received by (Signature), Date, Time
 1 (Affiliation) 2 (Affiliation)
 3 M. Harrison 8/23/02 1650 4
 Released by (Signature), Date, Time Received by (Signature), Date, Time
 3 (Affiliation) 4 (Affiliation)
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Site Name: Sunol Maintenance Yard and Pump Station

Sample ID	Sample Date	Sample Time	# of Containers	Sample/Container Type ¹	Volume	Preservative?	Filter? ²	Refrig? ³	Turn ⁴	Analyze for	Analytical Method	Special Instructions
PS-3-S-20	8/23/02	1150	1	S/T	NA	N	N	Y	N	TPH-D, BTEX/MTBE O&G	8015, 8020 1664A	MTBE confirmation by MS
PS-3-GW	↓	1230	1 3	W/B W/V	1 L 40 mL	N HCl	N N	Y Y	Hold N	SVOCs BTEX/MTBE	8270 8020	HOLD MTBE confirmation by MS
PS-3-GW	↓	1230	1 1	W/B W/B	1 L 1 L	HCl N	N N	Y Y	RUSH 3-day	O&G TPH-D	1664A 8015	RUSH
PS-4-S-5	8/22/02	1530	1	S/T	NA	N	N	Y	N	TPH-D, BTEX/MTBE O&G	8015, 8020 1664A	MTBE confirmation by MS
PS-4-S-10	↓	1540	1	S/T	NA	N	N	Y	N	TPH-D, BTEX/MTBE O&G	8015, 8020 1664A	MTBE confirmation by MS
PS-4-S-15	8/23/02	0910	1	S/T	NA	N	N	Y	N	TPH-D, BTEX/MTBE O&G	8015, 8020 1664A	MTBE confirmation by MS
PS-4-S-20	↓	0920	1	S/T	NA	N	N	Y	N	TPH-D, BTEX/MTBE O&G	8015, 8020 1664A	MTBE confirmation by MS
PS-4-GW	↓	1015	1 3	W/B W/V	1 L 40 mL	N HCl	N N	Y Y	Hold N	SVOCs BTEX/MTBE	8270 8020	HOLD MTBE confirmation by MS
PS-4-GW	↓	1015	1 1	W/B W/B	1 L 1 L	HCl N	N N	Y Y	RUSH 3-day	O&G TPH-D	1664A 8015	RUSH
PS-5-S-5	↓	1025	1	S/T	NA	N	N	Y	N	TPH-D, BTEX/MTBE O&G	8015, 8020 1664A	MTBE confirmation by MS

1 [Signature] 8/23/02 1650 2

1 (Affiliation) Weiss Assoc 2 (Affiliation)

3 [Signature] 8/23/02 @ 1650 4

3 (Affiliation) STL-SF 4 (Affiliation)

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Sampled by: LMS Laboratory Name: STL San Francisco Site Name: Sunol Maintenance Yard and Pump Station

Sample ID	Sample Date	Sample Time	# of Containers	Sample/ Container Type ¹	Volume	Preservative?	Filter? ²	Refrig? ³	Turn ⁴	Analyze for	Analytical Method	Special Instructions
PS-5-S-10	STL 8/23/02	1030	1	S/T	NA	N	N	Y	N	TPH-D, BTEX/MTBE O&G	8015, 8020 1664A	MTBE confirmation by MS
PS-5-S-15	STL (LMS)	1035	1	S/T	NA	N	N	Y	N	TPH-D, BTEX/MTBE O&G	8015, 8020 1664A	MTBE confirmation by MS
PS-5-S-20	STL	1040	1	S/T	NA	N	N	Y	N	TPH-D, BTEX/MTBE O&G	8015, 8020 1664A	MTBE confirmation by MS
PS-5-GW	STL	1100	1 3	W/B W/V	1 L 40 mL	N HCl	N N	Y Y	Hold N	SVOCs BTEX/MTBE	8270 8020	HOLD MTBE confirmation by MS
PS-5-GW	STL	1100	1 1	W/B W/B	1 L 1 L	HCl N	N N	Y Y	RUSH 3-day	O&G TPH-D	1664A 8015	RUSH
PS-TB	STL ↓	1320	+ 2	W/B V	1 L 40ml	N	N	Y	Hold	(Plus) SVOCs BTEX	(Plus) 8270 8020	HOLD
MN-1-GW	8/23/02	0715	1	W/B	1 L	HCl	N	Y	N	O & G	1664A	

1 [Signature] 8/23/02 1650 2
 Released by (Signature), Date, Time Received by (Signature), Date, Time
 1 (Affiliation) Weiss Assoc. 2 (Affiliation)
 3 D. Harrington 8/23/02@1650 4
 Released by (Signature), Date, Time Received by (Signature), Date, Time
 3 (Affiliation) STL-SF 4 (Affiliation)

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= Samples stored in a secured, locked area.
 ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

SUNEL PUMP STATION

8/22-8/23/02

ZONE 7 PERMIT 22120

GREGG DRILL.



WEISS ASSOCIATES

BOREHOLE / WELL CONSTRUCTION LOG (cont.)

Page 1 of 1

Sample ID	PID/FID	Sampler Type	Blows / 6 Inches	Inches Driven	Inches Recov'd	Sample Cond.	Boring Diameter	Conduct. Casing	Sand / Grout	Well Casing	Depth (ft)	Recovery	Contact	Project / Job No.: 268-1573	Borehole/Well No.: PS-1
				20			2" / 4.25"		Grout		0.1			Notes: LOGGED BY LMS	
											0.2			(10-2). NO RECOVERY	
				12							0.3			(2-25) GRAVELLY SAND (SW). DARK YEL. BROWN (10 YR 4/4); LOOSE; DRY TO DAMP; <10% FINES, 60-70% FINE-COARSE SAND, 30-40% FINE-COARSE GRAVEL; NON-PLASTIC; UHER	
PS1-S-5				0							0.4				
				12							0.5				
											0.6			(NO RECOVERY FROM 4-5')	
											0.7			BLACK, OILY STAINING @ 6.5'	
											0.8				
											0.9			PETRO. ODOR @ 9.5'	
PS1-S-10											1.0				
											1.1				
				12	0						1.2			(NO RECOVERY FROM 12-15')	
											1.3				
											1.4				
											1.5				
				12							1.6			W/ DIRECT PUSH	
											1.7			* refusal @ 16' on 8/22/02	
											1.8			resume drilling w/ HSA rig on 8/23/02	
											1.9				
											2.0			TD @ 25'	
														DTW @ 0815: 21.5'	

SUNOL PUMP STATION

8/23/02

BREZIG DRILLING

ZONE 7 PERMIT 02130



WEISS ASSOCIATES

BOREHOLE / WELL CONSTRUCTION LOG (cont.)

Page 1 of 1

Sample	PID/FID	Sampler Type	Blows / 6 inches	Inches Driven	Inches Recov'd	Sample Cond.	Boring Diameter	Conduct. Casing	Sand / Grout	Well Casing	Depth (ft)	Recovery	Contact	Project / Job No.:	Borehole/Well No.:
														268-1513	PS-2
							4.25"							Notes: logged by Lms	
											0.1			(0-0.5) GRAVELLY SAND (SW);	
											0.2			DARK YELLOW BROWN (10YR 4/4)	
											0.3			LOOSE; DRY TO DAMP; <10% FINES, 60-70% FINE-MED. SAND, 30-40% COARSE SAND FINE GRAVEL; SOME COARSE GRAVEL (<10% UPTO 2cm DIAM); NON-PLASTIC; HEK	
											0.4				
											0.5				
											0.6				
											0.7				
											0.8				
											0.9				
											1.0				
											1.1				
											1.2				
											1.3				
											1.4				
											1.5				
											1.6				
											1.7				
											1.8				
											1.9				
											2.0				

PS-2-S-5

PS-2-S-10

PS-2-S-15

PS-2-S-20

TD @ 25'
DTW @ 1340: 22.5'

SONOL PUMP STATION

8/23/09

GREGG DRILLING

ZONE 7 PERMIT: 0210C



WEISS ASSOCIATES

BOREHOLE / WELL CONSTRUCTION LOG (cont.)

Page 1 of 1

Sample	PID/FID	Sampler Type	Blows / 6 Inches	Inches Driven	Inches Recov'd	Sample Cond.	Boring Diameter	Conduct. Casing	Sand / Grout	Well Casing	Depth (ft)	Recovery	Contact	Project / Job No.: 268-1573	Borehole/Well No.: PS-3	
							4.25"		GROUT		0.1			Notes: Logged by LMS		
											0.2			(0-25) GRAVELLY SAND (SW); DARK YELLOW BROWN (10YR 4/4); LOOSE TO MOD. DENSE; DRY TO DAMP; <10% FINES, 40-70% FINE-MED. SAND, 30-40% COARSE SAND TO FINE GRAVEL; SOME COBBLES, BUT NOT MANY (UP TO 5cm DIAM.); NON-PLASTIC; HEK		
											0.3					
											0.4					
											0.5					
											0.6					
											0.7					
											0.8					
											0.9					
											1.0					
											1.1					
											1.2					
											1.3					
											1.4					
											1.5					
											1.6					
											1.7					
											1.8					
											1.9					
											2.0			TO @ 40' DTW @ 1245:30		

PS-3-S-5

PS-3-S-10

PS-3-S-15

PS-3-S-20



Sample ID	PID/FID	Sampler Type	Blows / 6 Inches	Inches Driven	Inches Recov'd	Sample Cond.	Boring Diameter	Conduct. Casing	Sand / Grout	Well Casing	Depth (ft)	Recovery	Contact	Project / Job No.	Borehole/Well No.
							2" A. 25'		CREOT		0.1			208-1573	PS-4
											0.2				
											0.3				
											0.4				
											0.5				
											0.6				
											0.7				
											0.8				
											0.9				
											1.0				
											1.1				
											1.2				
											1.3				
											1.4				
											1.5				
											1.6				
											1.7				
											1.8				
											1.9				
											2.0				

PS-4-S-5

PS-4-S-10

PS-4-S-15

PS-4-S-20
PS-4-S-25

REFUSAL @ 10' BGS on 8/22/02. RESUME drilling w/ HSA rig on 8/23/02

Notes:
Logged by LMS
(0-2) NO RECOVERY
(2-4) GRAVELLY SAND (SW); DARK YELLOW BROWN (10YR 4/4); LOOSE; DRY; <10% FINES, 60-70% FINE-COARSE SAND, 30-40% FINE TO COARSE GRAVEL, SOME COBBLES (>2" DIAM.); NON-PLASTIC VHEK
(4-7) NO RECOVERY

(7-9) GRAVELLY SAND (SW); AS ABOVE

(9-25) SANDY GRAVEL (GW); DARK YELLOW BROWN (10YR 4/4); LOOSE; DAMP; <10% FINES, 30-40% FINE-COARSE SAND, 60-70% FINE-COARSE GRAVEL & COBBLES (UP TO 5 CM DIAM.); NON-PLASTIC; VHEK

TD @ 25'
DTW @ 0930 = 23.5'

SMALL PUMP STATION

8/23/02
 TRILLER, PAUL
 EPCOG DRILLING

WORK PERMIT: 22100



WEISS ASSOCIATES

BOREHOLE / WELL CONSTRUCTION LOG (cont.)

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Date	PID/PID	Sampler Type	Blows / 6 Inches	Inches Driven	Inches Recov'd	Sample Cond.	Boring Diameter	Conduct. Casing	Sand / Grout	Well Casing	Depth (ft)	Recovery	Contact	Project / Job No.: 268-1573		Borehole/Well No.: PS-5	
														Notes:			
							4.225"				0.1			LOGGED BY LMS (10-19.5') GRAVELLY SAND (SW); DARK YELLOW BROWN (10YR 4/4); SLIGHTLY DENSE, DAMP; ~10% FINES, 60-70% FINE-MED. SAND, 30-30% COARSE SAND - FINE GRAVEL (UP TO 1 CM DIAM.); NON-PLASTIC; HEK			
											0.2						
											0.3						
											0.4						
											0.5						
											0.6						
											0.7						
											0.8						
											0.9			DTW @ 10.40: 20'			
											1.0			TD @ 21.5'			
											1.1						
											1.2						
											1.3						
											1.4			(SC)			
											1.5			(~19.5' - 20.5') CLAYEY SAND w/ GRAVEL; DARK GREENISH GREY (5BG 4/1); DENSE; MOIST; ~20% CLAY-RICH FINES; ~10% FINE SAND, ~10% FINE-MED. GRAVEL; LOW PLASTICITY; HEK (L-MEK)			
											1.6						
											1.7			MATRIX ONLY			
											1.8			(20.5 - 21.5) GRAVELLY SAND (SW); AS ABOVE, BUT <10% FINES, 70-80% FINE-COARSE SAND, 20-30% FINE GRAVEL			
											1.9						
											2.0						

PS-5-8-5

PS-5-8-10

PS-5-8-15

PS-5-8-20

10-20-5'