ERAS Environmental, Inc.

20861 Wilbeam Avenue, Suite 4

Castro Valley, CA 94546-5832

(510) 247-9885 Facsimile: (510) 886-5399

LIMITED SOIL AND GROUNDWATER INVESTIGATION
925-949 West Grand Avenue
Oakland, California
ERAS Project Number 02-007

Prepared for:

Mr. Chong Kim
C/O Mr. Don Kim
Fresco Properties
8 California Street, 8th Floor
San Francisco, CA 94111

Prepared by:

ERAS Environmental
May 27, 2003

ERAS

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Mr. Chong Kim
C/O Mr. Don Kim
Fresco Properties
8 California Street, 8th Floor
San Francisco, CA 94111

Subject: Limited Soil and Groundwater Investigation
925-949 West Grand Avenue
Oakland, California
ERAS Project Number 02-007

Dear Mr. Kim,

ERAS Environmental, Inc. is pleased to present the results of the Limited Soil and Groundwater Investigation conducted at 925-949 West Grand Avenue, in Oakland, CA. Five soil borings were drilled at and near the site on May 5, 2003. One soil sample and one groundwater sample were collected from each boring and submitted for laboratory chemical analysis. The results of the investigation are presented in the attached report.

Please call if you have any questions regarding the information presented in this report.

Respectfully,
ERAS Environmental, Inc.

REGISTERED GEOLOGIST
GAIL M. JONES
No. 5725
EXP. 9/30/03
STATE OF CALIFORNIA

David Siegel, R.E.A. II 20200
Project Manager

Gail Jones, R.G. 5725
Senior Geologist

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1.0 Introduction

This report presents the results of the Limited Soil and Groundwater Investigation conducted by ERAS Environmental, Inc. (ERAS) at 925-949 West Grand Avenue in Oakland, California (hereinafter the Property). The location of the Property is shown on **Figure 1 - Site Location Map**. The current layout of the Property is shown on **Figure 2 – Site Plan With Cross-Section Line A-A'**.

The scope of work performed was based on the Workplan Summary prepared by ERAS, dated April 8, 2003. The Summary was submitted to Mr. Barney Chan of the Alameda County Health Care Services Agency (ACHCSA). Mr. Chan approved the workplan with several additions as follows:

- The boring locations should be shifted toward the southwest to assess groundwater in that direction for the presence of contamination from the paint dip area.

- The soil and groundwater should be analyzed for MTBE and other fuel oxygenates and halogenated volatile organics (HVOCS).

- A cross-sectional diagram should be prepared.

- Investigate all utilities within and adjacent to the Property and determine if they could act as preferential pathways for contaminant migration.

2.0 Background

AEI Consultants (AEI) performed a Phase 2 soil and groundwater investigation at the Property in March 2002. Soil and groundwater samples collected from borings drilled in the area of a former gasoline station, located on the Property, near the southeast side of the Property near Market Street, did not contain significant concentrations of petroleum hydrocarbons.

AEI also collected soil and groundwater samples from borings drilled in the area of a former dry cleaning facility (Suite 941) in the northeastern area of the Property. The former dry cleaning facility is also near the location of a former paint dip area on the Property, as identified from a Sanborn Fire Insurance Map dated in 1950. Shallow soil samples collected from above groundwater did not contain elevated concentrations of petroleum hydrocarbons, but elevated concentrations of petroleum hydrocarbons were detected in the groundwater samples collected from the same borings. This indicates that the borings were not located at the source of the contamination, but instead, the petroleum hydrocarbon contamination detected in the groundwater samples has migrated to the locations of the borings from an up-gradient source. In addition, the groundwater samples collected did not contain significant concentrations of dry cleaning solvents or other chlorinated solvents.

In September 2002, ERAS performed a Limited Groundwater Investigation on the part of the Property near another abandoned gasoline service station, located adjacent to the northeast portion of the Property, at 905 West Grand Avenue. Based on the presence of elevated concentrations of petroleum hydrocarbons previously detected beneath the underground storage tanks (USTs) when they were removed from this site, it was thought this former gasoline station might represent a potential source of petroleum hydrocarbons detected earlier in the groundwater samples collected by AEI.

Only a groundwater sample collected from one of the borings contained detectable concentrations of petroleum hydrocarbons. The concentrations were significantly lower than the concentrations found in the groundwater sample collected from beneath the former USTs at 905 West Grand Avenue when removed and under the former dry cleaning facility area (Suite 941) on the Property.

3.0 Work Conducted

Since the highest concentrations of petroleum hydrocarbons in groundwater at the Property were detected in the area of the former dry cleaning facility and not in the area of the abandoned gasoline service station on the Property, the source of the petroleum hydrocarbons is not well understood. It was considered possible the source of petroleum hydrocarbons was in or near the former paint dip area or another unknown source near the location of the soil borings drilled in Suite 941 by AEI. The location of the paint dip area was determined from review of an aerial photograph dated in 1950.

Based on a review of regional and local topography the groundwater gradient was estimated to be westward. In addition, Mr. Barney Chan of the ACHCSA indicated the groundwater flow direction might be southwesterly. Therefore, ERAS drilled four soil borings in the Myrtle Street right-of-way (west and southwest in the estimated down-gradient direction of the paint dip area and Suite 941). An additional boring was drilled at the northeast side of the shopping center building (in the estimated up-gradient direction). The work performed by ERAS in this investigation included the following tasks.

3.1 Pre-Field Activities

1) An encroachment permit and street excavation permit was obtained from the City of Oakland Public Works Department and a drilling permit was obtained from the Alameda County Public Works Department. Copies of these permits are included in

Appendix A.

2) The City of Oakland Public Works requested ERAS supply the location of utility lines in the Myrtle Street right-of-way as part of the condition of granting the encroachment permit. The only utility line identified was a sewer main in the middle of Myrtle Street.

3) A site-specific Health and Safety Plan was prepared.

4) The proposed work area was outlined with white paint and Underground Service Alert was notified three working days prior to drilling.

5) A private utility locator (Subdynamics Locating, of San Jose) cleared the borehole locations for the presence of unidentified utilities or other buried objects prior to drilling.

3.2 Soil Boring and Sampling

A total of five, 2-inch-diameter soil borings were advanced with a Geoprobe drill rig, by Vironex, Inc. (Vironex) of San Leandro, California. The borings were advanced to first groundwater encountered at depths of approximately 16 to 20 feet below the ground surface (bgs). The soils encountered were continuously sampled for lithologic descriptive purposes and screened for volatile compounds with a photo-ionization detector (PID). One soil sample was collected for laboratory analysis from each boring at depths between 10.5 to 12 feet bgs. At the desired depth interval, a section of the acrylic sample liner was cut out, and the ends were sealed with polytetrafluoroethylene (PTFE) sheets and plastic caps. Then the sample was labeled and stored in a cooler with ice until it was relinquished to the laboratory that next day. The locations of the borings are shown on **Figure 2 – Site Plan With Cross-Section Line A-A'.**

All drilling equipment was steam-cleaned between borings to minimize the possibility of cross-contamination. The soil sampling equipment was cleaned with Alconox non-phosphate detergent and rinsed with de-ionized water prior to the collection of each sample. After the soil and groundwater samples were collected, the drilling contractor sealed the borings to the ground surface with cement.

3.3 Groundwater Sampling

Groundwater samples collected previously at the Property by AEI in March 2002 were reportedly from depths of approximately 10 to11 feet bgs. According to the Workplan prepared for this investigation by ERAS, groundwater samples would be collected from the borings at depths of 10 to 11 feet bgs if possible; otherwise, soil samples would be collected at this interval and groundwater samples would be collected at depths where it was encountered. Therefore, one soil sample was collected for laboratory analysis from each boring at depths between 10.5 to 12 feet bgs and the borings were extended to total depths of approximately 16 to 20 feet bgs. In all the borings drilled for this investigation, first groundwater was encountered in a permeable sandy zone at depths ranging from 14 to 17 feet bgs.

Dedicated PTFE sample tubing with a bottom ball-cock valve was used to collect a groundwater sample from each boring and transferred directly into appropriate laboratory-supplied sample containers. Groundwater was collected from each boring in laboratory supplied sample containers and also stored in a cooler with ice.

3.4 Waste Removal

Soil cuttings, decontamination water and groundwater generated from this investigation

were temporarily stored at the site in labeled 55-gallon drums. The drum containing the soil cuttings was sampled and profiled for total petroleum hydrocarbons quantified as gasoline (TPH-g), benzene, toluene, ethyl benzene, total xylenes (BTEX), and lead, according to EPA Method 8015, EPA Method 8020, and EPA Method 6010B, respectively. After obtaining the laboratory results and following the profiling, a waste management contractor will remove the drums from the site for proper disposal. The laboratory analytical reports and chain-of-custody forms are included as **Appendix C**.

4.0 Results

The soil and groundwater conditions encountered during the drilling and sampling of the five borings for this investigation are presented as follows.

4.1 Subsurface Conditions Encountered

Subsurface soil conditions encountered in the borings consisted of a lower permeability, non-water bearing unit to depths of about 14 to 17 feet bgs. The materials in this unit were mainly clays with or without areas of silt, fine-grained sand, and gravel. At depths below about 14 to 17 feet bgs, a higher permeability, water-bearing area was encountered, which extended to the total depths explored at 16 to 20 feet bgs. The materials in the water-bearing zone consisted mainly of sand or clayey sand. Details of the subsurface sediments are presented on the boring logs in **Appendix B** and on the **Cross Section A-A'**.

A PID was used to screen the soil samples for volatile compounds. A PID reading of 300 parts per million (PPM) was detected in the soil sample collected from Boring E at 10.5 to 11.0 feet bgs. The remainder of the PID readings was zero for all the samples collected from Borings A through E.

In Borings A through E, first groundwater was encountered in the relatively permeable sandy zone at depths ranging from 14 to 17 feet bgs. The soils of the deeper, water-bearing area and the groundwater collected from Borings A and E exhibited a petroleum or chemical odor. Prior to the collection of the groundwater samples, the water levels in all the borings rose to between 5.5 to 9.5 feet bgs.

4.2 Laboratory Methods and Results

The soil and groundwater samples were submitted to Entech Analytical Labs, Inc., a State of California-certified analytical laboratory, in Santa Clara, California. The laboratory analytical reports and chain-of-custody forms are included as **Appendix C**.

4.2.1 Soil

The soil samples were analyzed for TPH-g and Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX) by EPA Methods 8015 Modified/8020 and for Methyl-t-Butyl Ether (MTBE), fuel oxygenates and Volatile Organic Compounds (VOCs) by EPA Method 8260B. TPH-g was detected at concentrations of 10 milligrams per kilogram (mg/Kg) and 0.2 mg/Kg in the soil samples collected from Boring A at 11.0 to 11.5 feet bgs and Boring E at 10.5 to 11.0 feet bgs, respectively. Concentrations of TPH-g were not detected above the laboratory method reporting limit in the soil samples collected from Borings B, C or D. Concentrations of MTBE or VOCs were not detected above the laboratory method reporting limits in any of the soil samples collected from Borings A, B, C, D or E.

The concentrations of TPH-g detected in the soil samples collected from Borings A and E were not above the Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) Risk Based Screening Level (RBSL) for commercial/industrial land use. The soil

sample analytical results are summarized in the following table.

Soil Sample Analytical Results (milligrams per kilogram)

	Sample Identification	Date Sampled	TPH-g	MTBE	VOCs
	A-11.0-11.5	05/05/03	10	<0.005	ND
	B-11.0-11.5	05/05/03	<0.05	<0.005	ND
	C-11.5-12.0	05/05/03	<0.05	<0.005	ND
	D-11.5-12.0	05/05/03	<0.05	<0.005	ND
	E-10.5-11.0	05/05/03	0.2	<0.005	ND
RBSL			**400**		

Notes:

RBSL	Risk Based Screening Level (RWQCB Table C, Commercial/Industrial Land Use, December 2001)
< 0.050	Not detected above the laboratory method reporting limits shown
ND	Not detected above the laboratory method reporting limits (variable)

4.2.2 Groundwater

The groundwater samples were analyzed for TPH-g by Method GC-MS, and for MTBE, fuel oxygenates and other VOCs (low level) by EPA Method 8260B. TPH-g was detected at concentrations of 100 micrograms per liter (ug/L) and 1,200 ug/L in the groundwater samples collected from Boring A and Boring E, respectively. Concentrations of TPH-g were not detected above the laboratory method reporting limit in the groundwater samples collected from Borings B, C or D. Concentrations of MTBE were detected at levels of 23, 32, 35 and 17 ug/L in the groundwater samples collected from Borings A, B, C and D, respectively. MTBE was not detected above the laboratory method reporting limit in the

groundwater sample collected from Boring E.

A concentration of 5.0 ug/L of Cis-1,2-dichloroethene and 1.6 ug/L of vinyl chloride was detected in the groundwater sample collected from Boring A. A concentration of 0.54 ug/L of vinyl chloride was detected in the groundwater sample collected from Boring B. A concentration of 2.5 ug/L of Cis-1,2-Dichloroethene and 1.6 ug/L of vinyl chloride was detected in the groundwater sample collected from Boring C. A concentration of 1.6 ug/L of trichloroethene was detected in the groundwater sample collected from Boring D. A concentration of 190 ug/L of n-propylbenzene was detected in the groundwater sample collected from Boring E. No other VOCs were detected above the laboratory method reporting limits in any of the groundwater samples collected from the borings.

The concentration of TPH-g detected in the groundwater sample collected from Boring E was above the RWQCB RBSL of 400 ug/L for potential drinking water. The concentrations of MTBE detected in the groundwater samples collected from Borings A, B, C and D were above the City of Oakland Tier 1 RBSL of 13 ug/L for commercial/industrial areas for ingestion of groundwater. The concentrations of vinyl chloride detected in the groundwater samples collected from Borings A, B and C were above the City of Oakland Tier 1 RBSL of 0.5 ug/L for commercial/industrial areas for ingestion of groundwater. The groundwater sample analytical results are summarized in the following table.

Groundwater Sample Analytical Results (micrograms per liter)

	Sample Identification	Date Sampled	TPH-g	MTBE	VOCs
	A	05/05/03	100	23	5.0 cis-1,2-dichloroethene (RBSL 6) 1.6 vinyl chloride (RBSL 0.5)
	B	05/05/03	<50	32	0.54 vinyl chloride (RBSL 0.5)
	C	05/05/03	<50	35	2.5 cis-1,2-dichloroethene (RBSL 6) 1.6 vinyl chloride (RBSL 0.5)
	D	05/05/03	<50	17	1.6 trichloroethene (RBSL 5)
	E	05/05/03	4,300	<10	190 n-propylbenzene
RBSL[a]			**500**		
RBSL[b]				**13**	**6 cis-1,2-dichloroethene** **0.5 vinyl chloride** **5 trichloroethene**

Notes:

RBSL[a] Risk Based Screening Level from Regional Water Quality Control Board, Table F-1 (Potential Drinking Water), December 2001

RBSL[b] Risk Based Screening Level, Tier 1 for City of Oakland, Commercial/Industrial (Ingestion of Groundwater), January 2000

< 50 Not detected above the laboratory method reporting limits shown

5.0 Conclusions

The results of the investigation indicate concentrations of petroleum hydrocarbons and volatile organic compounds in groundwater beneath the Property. The assumed groundwater flow direction toward the west or southwest is inconsistent with the detection of MTBE in groundwater from the borings A through D, but the absence of detectable MTBE in groundwater from boring E, located in the assumed up-gradient direction from the

other borings. Therefore, the possibility of a northwesterly groundwater flow direction under the Property should be considered. The source of TPH-g in boring E may be the former gasoline station at 905 West Grand Avenue if the groundwater flow direction was toward the northwest and the contamination in groundwater migrated between borings GW-1 and GW-2 drilled during 2002 in which no indication of petroleum hydrocarbon was detected in groundwater or observed in soil cores. This is due to the presence of TPH-g at a concentration of 46,000 ug/L found in groundwater from the former UST excavation located near the western corner of the former station. Alternatively, the presence of TPH-g in groundwater collected from boring E could be due to an unknown source between borings GW-2 and E or another unknown source to the northeast or east.

A northwesterly flow direction would seem to indicate the source of MTBE in borings A-D is from an unknown off-site source. No MTBE has been detected in groundwater samples collected by AEI in the area of the former gasoline station on the southeastern side of the Property near Market Street or in the samples from the former gasoline station at 905 West Grand Street. Therefore, if the groundwater gradient is northwesterly the source would likely be past the Property to the southeast.

The concentrations of vinyl chloride and c-1,2-dichloroethene observed in borings A-D could also be from an off-site source. However, since both of these were also observed in groundwater in the borings drilled by ERAS in Suite 941, the presence of these constituents could also indicate their extent in a down-gradient direction (if the flow direction is toward the west or southwest as originally estimated), or in a cross-gradient direction (if the groundwater flow is toward the northwest).

There appears to be one main utility line in the vicinity of the Property, the sewer line in Myrtle Street. The locations of sewer and water line laterals from the Property and the buildings on the northwest side of Myrtle Street are apparent from meter boxes in the sidewalks and vent pipes on the buildings. These laterals run to the main lines in Myrtle

Street. Based on this investigation, groundwater under the Property appears to be confined by approximately 15 feet of relatively impermeable sediments. Although the depth to the bottom of the sewer and water lines are not known with certainty, it is not likely that the utility lines in the area of the Property could influence the migration of contamination in groundwater.

In summary, the work performed by ERAS appears to indicate that concentrations of petroleum hydrocarbons and dry cleaning solvents found in Suite 941 by AEI in boring SB-5 have decreased significantly in a direction to the west and southwest. The concentrations of MTBE and vinyl chloride are still above the City of Oakland RBSLs.

6.0 Recommendations

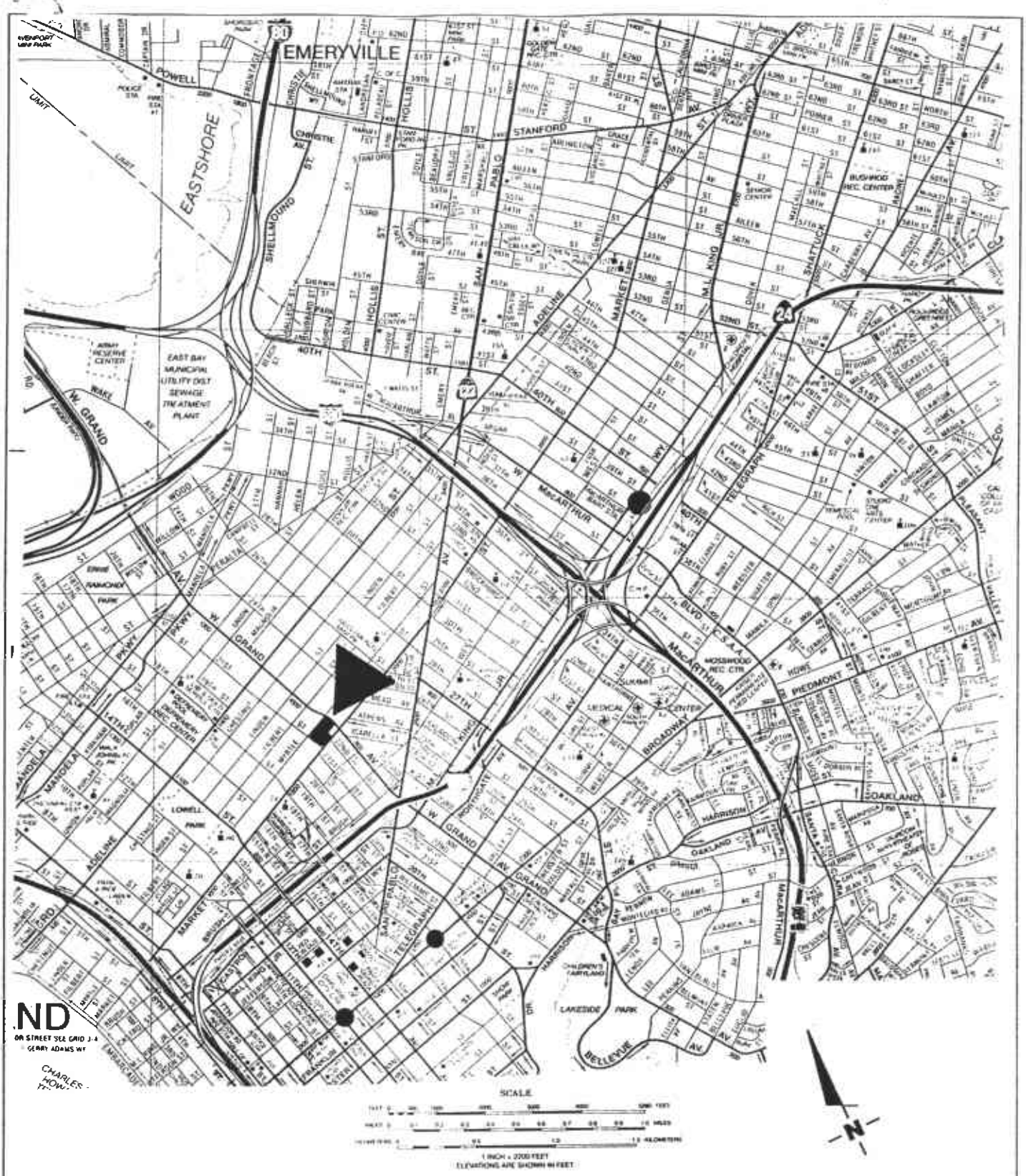
ERAS recommends that a file review be conducted of the files for the ARCO gasoline station at 889 West Grand Avenue and the Chevron gasoline station at 850 West Grand Avenue to determine the groundwater flow direction in and near the area of the Property.

The concentration of TPH-g in the groundwater sample collected on the property was above the RBSL; but the highest TPH-g concentration detected offsite was below the RBSL. These results do not indicate the need for remediation of the fuel hydrocarbon contamination detected on the Property. However, based on the results of the file review to determine the local groundwater flow direction, additional borings may be necessary to determine if dissolved TPH-g concentrations above the RBSL extends offsite. Because the concentrations of MTBE and vinyl chloride in groundwater are above the local RBSL limits, three to four groundwater monitoring wells may be necessary to assess the contaminant plume in groundwater is advancing, stable or shrinking.

This report should be submitted to Mr. Barney Chan of the ACHCSA for review.

7.0 Limitations

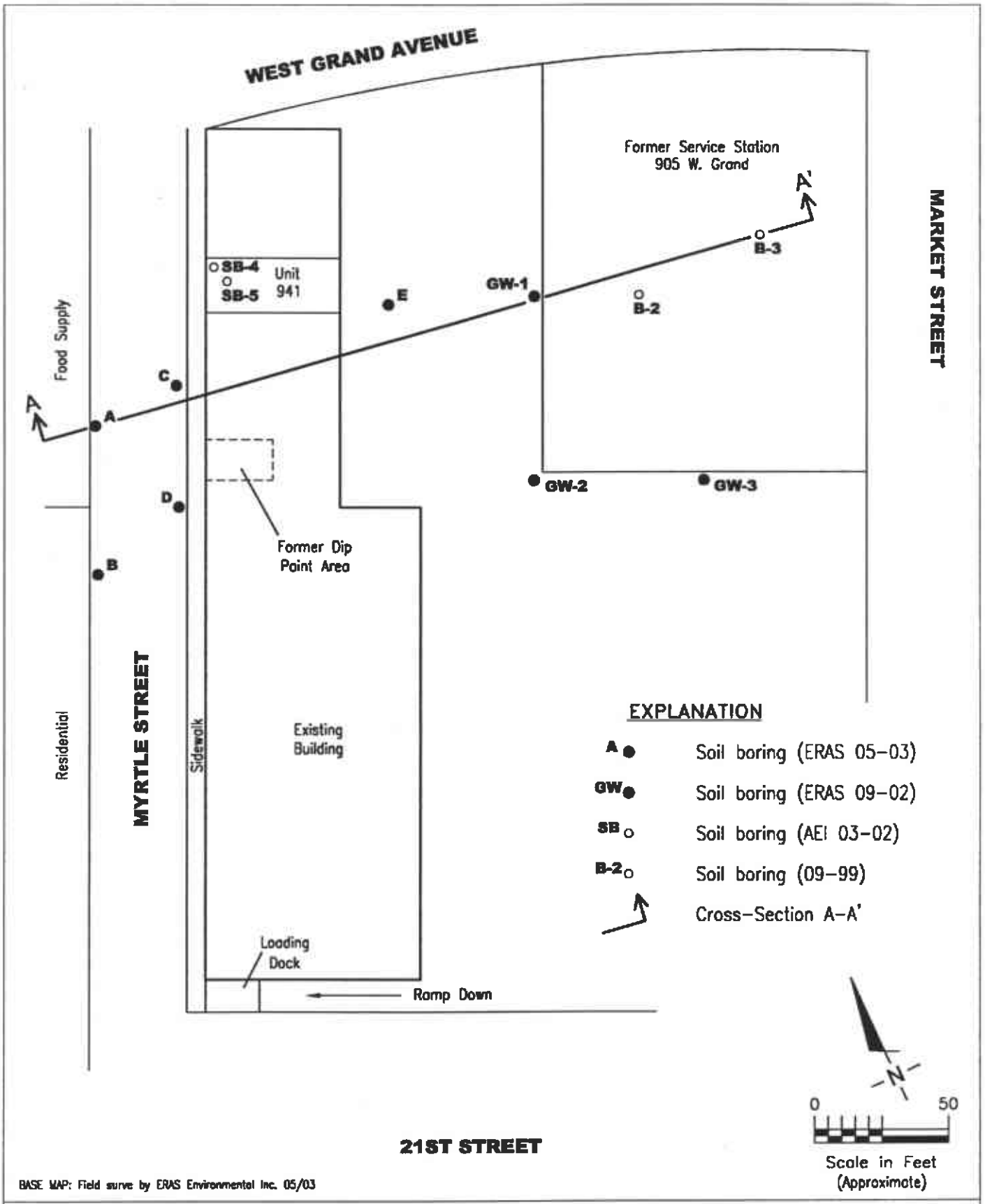
This report has been prepared by ERAS according to the State and local agency suggested guidance documents for these investigations and in general accordance with the accepted standard of practice that exists in Northern California at the time the investigation was performed. The interpretations, conclusions and recommendations made herein are based upon the data and analysis for the soil and water samples collected on-site. ERAS is not responsible for errors in laboratory analysis and reporting, or for information withheld during the course of the study. The purpose of this study is to screen for the presence of contamination that may affect the use or value of the Property. As such, the evaluation of the geologic and environmental conditions on this site is made with very limited data. Judgements leading to conclusions are generally made with an incomplete knowledge of the conditions present. Additional conditions and materials at the site could exist that were not encountered during this investigation. No warranty or guarantee is expressed or implied therein.



SITE LOCATION MAP

DATE		JOB NUMBER
10/02	925–949 West Grand Avenue Oakland, California	02034A
REVIEWED BY		FIGURE
DS		1

ERAS Environmental Inc.

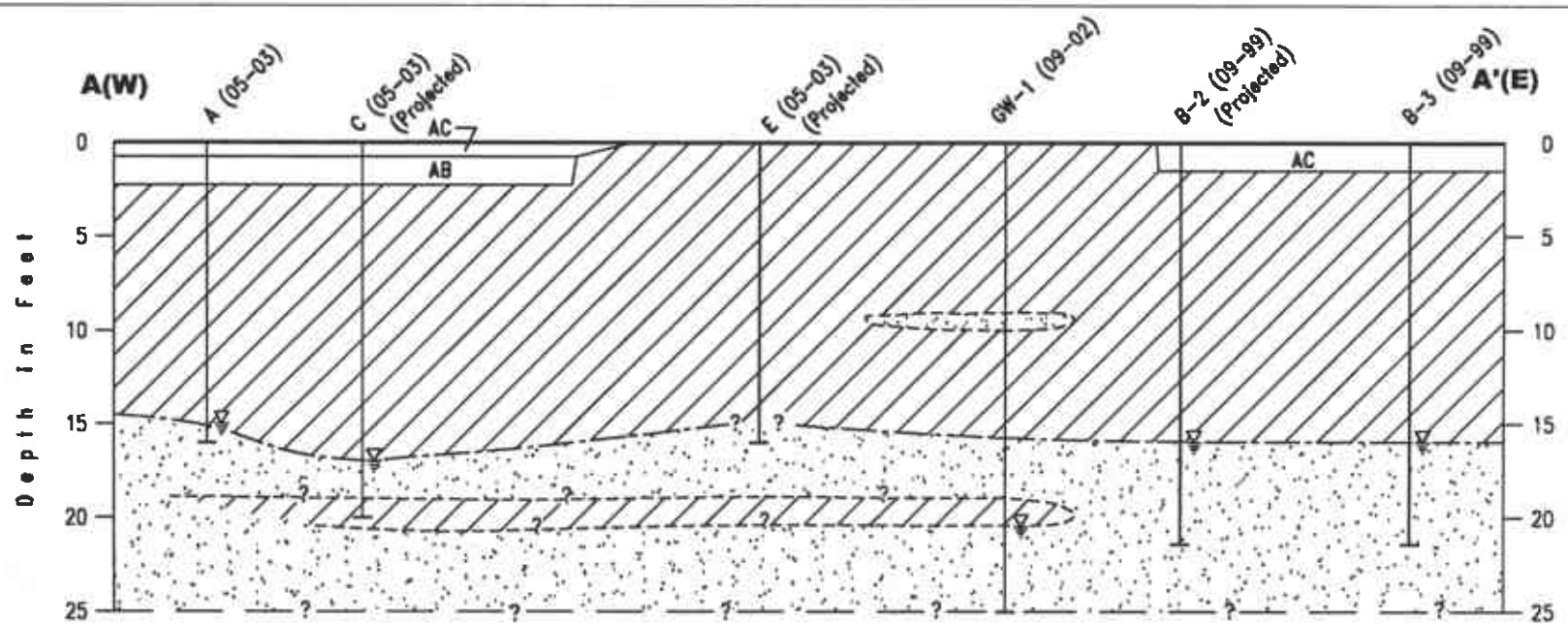


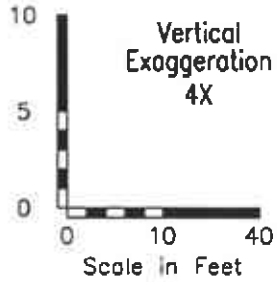
BASE MAP: Field surve by ERAS Environmental Inc. 05/03

SITE PLAN w/CROSS-SECTION A-A'

DATE		JOB NUMBER
05/03	WEST GRAND SHOPPING CENTER	02007
REVIEWED BY	925-949 West Grand Avenue	FIGURE
DS	Oakland, California	2

ERAS Environmental Inc.





Soil Boring

1st Water During Drilling

LEGEND

AC	Asphalt
AB	Base rock
	Lower permeability, non-water bearing unit. Includes clay, silt, and clayey sand.
	Higher permeability, water-bearing unit. Includes sand, silty sand, and some clayey sediments that show free-water in interstices.

SCHEMATIC CROSS-SECTION A-A'

DATE
05/03
REVIEWED BY
DS

WEST GRAND SHOPPING CENTER
925-949 West Grande Avenue
Oakland, California

JOB NUMBER
02007
FIGURE
3

ERAS Environmental Inc.

Appendix A

Drilling Permits

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554 MARLON MACALLANES/FRANK CODD (510) 670-5783
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 925 W. GRAND AVE
OAKLAND

CLIENT
Name CHONG KERN c/o /FERSCO PROPERTIES
Address 8 CALIFORNIA ST. 6th FL Phone 415/ 834-4703
City SAN FRANCISCO, CA Zip 94111

APPLICANT
Name ERAS ENVIRONMENTAL, INC.
Fax 510/ 886-5399
Address 20861 WILBEAM AVE, STE 4 Phone 510/247-9885
City CASTRO VALLEY, CA Zip 94546

TYPE OF PROJECT

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

PROPOSED WATER SUPPLY WELL USE

New Domestic ☐
Municipal ☐
Industrial ☐
Replacement Domestic ☐
Irrigation ☐
Other ________ ☐

DRILLING METHOD:

Mud Rotary ☐
Cable ☐
Air Rotary ☐
Other ✓ Hydraulic Push
Auger ☐

DRILLER'S NAME VIRONEX ENV.

DRILLER'S LICENSE NO. C57-705927

WELL PROJECTS

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

GEOTECHNICAL PROJECTS

Number of Borings 5
Hole Diameter 2 in.
Maximum Depth 25 ft.

ESTIMATED STARTING DATE 4/30/03
ESTIMATED COMPLETION DATE 4/30/03

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE [signature] DATE 4/23/03

PLEASE PRINT NAME KASEY CORDONI

Rev.6-5-00

FOR OFFICE USE

PERMIT NUMBER W03-0320
WELL NUMBER ________
APN ________

PERMIT CONDITIONS
Circled Permit Requirements Apply

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

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

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

(D.) GEOTECHNICAL – Contamination
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC
Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
See attached requirements for destruction of shallow wells. Send a map of work site. A different permit application is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

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

APPROVED [signature] DATE 4-24-03

Fee Rolling in Street
Schedule Inspection

CITY OF OAKLAND
Office of Planning and Building

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL ENGINEERING

PERMIT NUMBER X0200387	SITE ADDRESS/LOCATION ~~545~~ 925 W. GRAND AVE, OAKLAND
APPROX. START DATE 4/30/03 / APPROX. END DATE 4/30/03	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number) 510/908-2367
CONTRACTOR'S LICENSE # AND CLASS 705927 C-57	CITY BUSINESS TAX # 1247727

ATTENTION:

1- State law requires that the contractor/owner call Underground Service Alert (USA) two working days before excavating. This permit is not valid unless applicant has secured an inquiry identification number issued by USA. The USA telephone number is 1-800-642-2444. Underground Service Alert (USA) # 148114

2- **48 hours prior to starting work, you MUST CALL (510) 238-3651 to schedule an inspection.**

3- **48 hours prior to re-paving, a compaction certificate is required (waived for approved slurry backfill).**

2PM

OWNER/BUILDER

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5 Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than $500):

☐ I, as an owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

☐ I, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale, (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption on this subdivision on more than two structures more than once during any three-year period. (Sec. 7044 Business and Professions Code).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project, (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).

☐ I am exempt under Sec. ____________, B&PC for this reason ____________

WORKER'S COMPENSATION

☐ I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).

Policy # ____________ Company Name ____________

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws of California (not required for work valued at one hundred dollars ($100) or less).

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked. This permit is issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims, or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This permit is void 90 days from the date of issuance unless an extension is granted by the Director of the Office of Planning and Building.

I hereby affirm that I am licensed under provisions of Chapter 9 of Division 3 of the Business and Professions Code and my license is in full force and effect (if contractor), that I have read this permit and agree to its requirements, and that the above information is true and correct under penalty of law.

[signature] Signature of Permittee ☐ Agent for ☒ Contractor ☐ Owner

Date ~~4/28/03~~ 5.1.03

DATE STREET LAST RESURFACED	SPECIAL PAVING DETAIL REQUIRED? ☐ YES ☒ NO	HOLIDAY RESTRICTION? (NOV 1 - JAN 1) ☐ YES ☒ NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) ☒ YES ☐ NO
ISSUED BY [signature]		DATE ISSUED	

Appendix B

Boring Logs

GRAS Environmental
20861 Wilbeam Avenue, #4
Castro Valley, CA 94546

CLIENT	SITE NUMBER	LOCATION
Chong Kim	02-007	925 W Grand

LOG OF SOIL BORING A

Coordinates:

Elevation top of casing:

Casing below surface:

DRILLING AND SAMPLING METHODS: Hydraulic Push 2" diameter

				DRILLING START	DRILLING FINISH
WATER LEVEL	5.5				
TIME	1330			TIME 1313	TIME 1340
DATE	5/5/03			DATE 5/5/03	DATE 5/5/03
REFERENCE					

SURFACE CONDITIONS: asphalt

DESCRIPTION by: David Siegel

Inches Driven	Inches Recover	Blows/6" Sampler	OVA Reading	WELL DETAIL	DEPTH (Feet)	GRAPHIC LOG	
					0		6" asphalt
					1		12" gravelly sand base rock
					2	CL	CLAY, black (2.5Y 2.5/1), soft, medium plasticity, damp, NPO
			0		3		
					4		SILTY CLAY dark greenish gray Gley 1(4/1 10GY), stiff, low plasticity, damp, NPO
					5		
					6		
			0		7		
					8		
					9		
					10	SC	CLAYEY SAND, greenish gray (5/1, 5GY), sand very fine to fine, loose, damp, NPO
				A 11-11.5	11	CL	SILTY CLAY mottled olive (5Y 5/3) and greenish gray (Gley 1, 10G), medium dense, medium plasticity, damp, NPO
			0		12		
					13		
					14		
					15		
			0		16	SP	SAND, dark yellowish brown 10YR 4/4, very fine to coarse, very dense, wet, slight chemical odor
					17		
					18		
					19		
					20		

BOB 16'

GRAS Environmental
20861 Wilbeam Avenue, #4
Castro Valley, CA 94546

CLIENT	SITE NUMBER	LOCATION
Chong Kim	02-007	935 W. Grand

DRILLING AND SAMPLING METHODS: Hydraulic Push 2" diameter

LOG OF SOIL BORING B

Coordinates:

Elevation top of casing:

Casing below surface:

				DRILLING START	DRILLING FINISH
WATER LEVEL	6.1				
TIME	1300			TIME 1229	TIME 1310
DATE	5/5/03			DATE 5/5/03	DATE 5/5/03
REFERENCE					

SURFACE CONDITIONS: asphalt

DESCRIPTION by: David Siegel

Inches Driven	Inches Recover	Blows/6" Sampler	OVA Reading	WELL DETAIL	DEPTH (Feet)	GRAPHIC LOG	
					0		6" asphalt
					1		12" gravelly sand fill
					2	CL	SILTY CLAY, dark gray (10YR 4/1), soft, medium plasticity, damp, NPO
			0		3		
					4		
					5		
					6		
					7		
			0		8	GC	GRAVELLY CLAY, gray (10YR 5/1) gravel subangular up to 3/4 inch long, soft, medium plasticity, wet, NPO
					9	CL	
					10		SILTY CLAY, mottled light olive brown (2.5Y 5/4) and gray (2.5Y 5/1), medium stiff, med plasticity, damp, NPO
			0	BH11.5	11		
					12	GC	GRAVELLY CLAY, gray (10YR 5/1) soft, very moist, medium plasticity
					13		
					14		
					15	SC SW	SAND, dark yellowish brown, 10YR 4/4 trace clay, sand fine to coarse very dense, wet
			0		16		
					17		BOB 16'
					18		
					19		
					20		

GRAS Environmental — 20001 Wildcat Avenue, #4, Castro Valley, CA 94546

CLIENT	SITE NUMBER	LOCATION
Chong Kim	02-007	925 W Grand

LOG OF SOIL BORING C

Coordinates:

Elevation top of casing:

Casing below surface:

DRILLING AND SAMPLING METHODS	Hydraulic Push 2" diameter					
WATER LEVEL	8.0			DRILLING	START	FINISH
TIME	8:28			TIME	11:00	1150
DATE	5/5/03			DATE	5/5/03	5/5/03
REFERENCE						

SURFACE CONDITIONS: asphalt

DESCRIPTION by: David Siegel

Inches Driven	Inches Recover	Blows/6" Sampler	OVA Reading	WELL DETAIL	DEPTH (Feet)	GRAPHIC LOG	DESCRIPTION
					0		6" asphalt
					1		12" gravelly sand baserock
					2	CL	CLAY, dark greenish gray (Gley 1 4/1 10 GY) stiff, medium plasticity, damp, no product odor
					3		
			0		4		
					5		
					6		
					7		
			0		8	▼ GC	CLAYEY GRAVEL, angular gravel up to 1" long, medium plasticity, moist, NPO
					9		
					10	CL	CLAY dark greenish gray as above, NPO
					11		
			0	C-1.5-12	12	GC	CLAYEY GRAVEL, AA, NPO
					13		
					14	CL	SILTY CLAY, dark yellowish brown (10YR 4/4), soft, very moist, low plasticity, NPO
					15		waited for water 10 minutes @ 16'
			0		16		
					17	▽	
					18	SP	SAND, very fine to medium, brown (10YR 4/3), loose, saturated, no PO
					19		
			0		20	CL	GRAVELLY CLAY, dark gray (10YR 4/1), gravel fine, subrounded, very stiff, medium plasticity,

BOB 20'

Environmental (Castro Valley, CA 94546

CLIENT: Chong Kim | SITE NUMBER: 02-007 | LOCATION: 925 W. Grand

LOG OF SOIL BORING

Coordinates:

Elevation top of casing:

Casing below surface:

DRILLING AND SAMPLING METHODS	Hydraulic Push	2" diameter	
WATER LEVEL	6.4		DRILLING START / FINISH
TIME	10:35		TIME 1005 / TIME 10:50
DATE	5/5/03		DATE 5/5/03 / DATE 5/5/03
REFERENCE	ground		

SURFACE CONDITIONS: asphalt

DESCRIPTION by: David Siegel

Depth (Feet)	Graphic Log	Description
0–1		6" asphalt 1' Sandy gravel baserock
2–5	CL	CLAY, dark gray (10YR 4/1), medium plasticity, medium stiff, damp, no product odor 4.5' black, soft, damp, no product odor
6–10		SANDY CLAY, dark grayish brown (2.5Y 4/1), sand very fine, stiff, low plasticity, moist to very moist @ 10', trace angular to subangular gravel up to 1/2" long,
11–14		CLAY, mottled light olive brown (2.5Y 5/4) and gray (2.5Y 5/1), stiff, medium plasticity, damp
15–16	SP	SAND, dark yellowish brown (10YR 4/4) ~~sand~~, some clay, some fine rounded gravel, sand very fine to coarse, ~~fine~~ very dense, wet, no product odor

BOB 16'

Water sample 10:40

D 11.5-13

URAS
Environmental
Castro Valley, CA 94546

CLIENT	SITE NUMBER	LOCATION
Chong Kim	02-007	925 W Grand

DRILLING AND SAMPLING METHODS: Hydraulic Push 2" diameter

LOG OF SOIL BORING

E

Coordinates:

Elevation top of casing:

Casing below surface:

				DRILLING	
				START	FINISH
WATER LEVEL	9.6			TIME 915	TIME 1220
TIME	1205				
DATE	5/5/03			DATE 5/5/03	DATE 5/5/03
REFERENCE					

SURFACE CONDITIONS: asphalt

DESCRIPTION by: David Sugel

Inches Driven	Inches Recover	Blows/6" Sampler	OVA Reading	WELL DETAIL	DEPTH (Feet)	GRAPHIC LOG	DESCRIPTION
					0		1" asphalt, 5" gravelly sand base rock
					1		SILTY CLAY, black (10YR 2/1), damp, stiff, no product odor (NPO)
					2		SILTY CLAY, dark greenish gray (Gley1 4/1 10Y) damp, low plasticity, NPO
					3	CL	
					4		
			0		5		
					6		
					7		@7' changes color, mottled brown (10YR 4/3) and gray (10YR 5/1), damp, low plasticity, no product odor
			0		8		
					9	▼	
					10		
			300	E 10.5-11	11		
			~~300~~		12		@10-11' some fine to coarse sand thin stinger <6" of fine SANDY CLAY, dark greenish gray (Gley1 4/1), slight to moderate product odor, moist to wet
					13		waited for water from approx 10AM-12
					14		12-16 foot drive could not remove liner - no recovery. Water in hole
					15		
					16		BOB 16'
					17		
					18		
					19		
					20		

Appendix C

Laboratory Analytical Reports
Chain-of-Custody Forms

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

May 13, 2003

RCVD
PAID MAY 19 2003

David Siegel
ERAs Environmental
20861 Wilbeam Avenue #4
Castro Valley, CA 94546

Order:	34323	**Date Collected:**	5/5/2003
Project Name:		**Date Received:**	5/6/2003
Project Number:	02-007	**P.O. Number:**	02-007
Project Notes:			

On May 06, 2003, samples were received under documentented chain of custody. Results for the following analyses are attached:

Matrix	Test	Method
Liquid	EPA 8260B (Low Level)	EPA 8260B
	TPH as Gasoline - GC/MS	GC-MS
Solid	EPA 8260B	EPA 8260B
	Gas/BTEX	EPA 8015 MOD. (Purgeable)
		EPA 8020
	Lead	EPA 6010B
	TPH as Gasoline - GCMS	GC-MS

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,

Patti Sandrock
QA/QC Manager

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

ERAs Environmental
20861 Wilbeam Avenue #4
Castro Valley, CA 94546
Attn: David Siegel

Date: 5/14/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-001 **Client Sample ID:** A 11-11.5
Sample Time: 1:25 PM **Sample Date:** 5/5/2003 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	10000	x	5	50	250	µg/kg	N/A	5/8/2003	SMS110057	GC-MS

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	123.0	65 - 135
Dibromofluoromethane	106.0	65 - 135
Toluene-d8	102.0	65 - 135

Order ID: 34323 **Lab Sample ID:** 34323-002 **Client Sample ID:** B 11-11.5
Sample Time: 12:41 PM **Sample Date:** 5/5/2003 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/kg	N/A	5/8/2003	SMS110057	GC-MS

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	110.0	65 - 135
Dibromofluoromethane	121.0	65 - 135
Toluene-d8	106.0	65 - 135

Order ID: 34323 **Lab Sample ID:** 34323-003 **Client Sample ID:** C 11.5-12
Sample Time: 11:09 AM **Sample Date:** 5/5/2003 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/kg	N/A	5/8/2003	SMS110057	GC-MS

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	111.0	65 - 135
Dibromofluoromethane	121.0	65 - 135
Toluene-d8	106.0	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

ERAs Environmental
20861 Wilbeam Avenue #4
Castro Valley, CA 94546
Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-004 **Client Sample ID:** D 11.5-12
Sample Time: 10:26 AM **Sample Date:** 5/5/2003 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/kg	N/A	5/8/2003	SMS110057	GC-MS

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	114.0	65 - 135
Dibromofluoromethane	113.0	65 - 135
Toluene-d8	104.0	65 - 135

Order ID: 34323 **Lab Sample ID:** 34323-005 **Client Sample ID:** E 10.5-11
Sample Time: 9:49 AM **Sample Date:** 5/5/2003 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	200		1	50	50	µg/kg	N/A	5/8/2003	SMS110057	GC-MS

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	112.0	65 - 135
Dibromofluoromethane	107.0	65 - 135
Toluene-d8	104.0	65 - 135

Order ID: 34323 **Lab Sample ID:** 34323-006 **Client Sample ID:** A
Sample Time: 1:40 PM **Sample Date:** 5/5/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	100		1	50	50	µg/L	N/A	5/9/2003	WMS110068	GC-MS

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	111.1	73 - 151
Dibromofluoromethane	111.9	57 - 156
Toluene-d8	105.0	77 - 150

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

ERAs Environmental
20861 Wilbeam Avenue #4
Castro Valley, CA 94546
Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-007 **Client Sample ID:** B

Sample Time: 12:50 PM **Sample Date:** 5/5/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/L	N/A	5/9/2003	WMS110068	GC-MS

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	109.0	73 - 151
Dibromofluoromethane	118.0	57 - 156
Toluene-d8	105.0	77 - 150

Order ID: 34323 **Lab Sample ID:** 34323-008 **Client Sample ID:** C

Sample Time: 11:30 AM **Sample Date:** 5/5/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/L	N/A	5/9/2003	WMS110068	GC-MS

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	113.0	73 - 151
Dibromofluoromethane	119.6	57 - 156
Toluene-d8	105.6	77 - 150

Order ID: 34323 **Lab Sample ID:** 34323-009 **Client Sample ID:** D

Sample Time: 10:50 AM **Sample Date:** 5/5/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/L	N/A	5/9/2003	WMS110068	GC-MS

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	112.0	73 - 151
Dibromofluoromethane	121.0	57 - 156
Toluene-d8	106.0	77 - 150

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

ERAs Environmental
20861 Wilbeam Avenue #4
Castro Valley, CA 94546
Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-010 **Client Sample ID:** E

Sample Time: 12:10 PM **Sample Date:** 5/5/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	4300		10	50	500	µg/L	N/A	5/9/2003	WMS110068	GC-MS

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	113.1	73 - 151
Dibromofluoromethane	113.1	57 - 156
Toluene-d8	106.6	77 - 150

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

ERAs Environmental
20861 Wilbeam Avenue #4
Castro Valley, CA 94546
Attn: David Siegel

Date: 5/14/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-001 **Client Sample ID:** A 11-11.5

Sample Time: 1:25 PM **Sample Date:** 5/5/2003 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1,1,1,2-Tetrachloroethane	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
1,1,1-Trichloroethane	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
1,1,2-Trichloroethane	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
1,1-Dichloroethane	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
1,1-Dichloroethene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
1,1-Dichloropropene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
1,2,3-Trichlorobenzene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
1,2,3-Trichloropropane	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
1,2,4-Trichlorobenzene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
1,2,4-Trimethylbenzene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
1,2-Dibromo-3-Chloropropane	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
1,2-Dibromoethane (EDB)	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
1,2-Dichlorobenzene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
1,2-Dichloroethane EDC	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
1,2-Dichloropropane	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
1,3,5-Trimethylbenzene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
1,3-Dichlorobenzene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
1,3-Dichloropropane	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
1,4-Dichlorobenzene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
2,2-Dichloropropane	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
2-Butanone (MEK)	ND		1	20	20	µg/Kg	5/14/2003	SMS110057	EPA 8260B
2-Chloroethyl-vinyl Ether	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
2-Chlorotoluene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
2-Hexanone	ND		1	20	20	µg/Kg	5/14/2003	SMS110057	EPA 8260B
4-Chlorotoluene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
4-Methyl-2-Pentanone(MIBK)	ND		1	20	20	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Acetone	ND		1	100	100	µg/kg	5/14/2003	SMS110057	EPA 8260B
Benzene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Bromobenzene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Bromochloromethane	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Bromodichloromethane	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Bromoform	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

ERAs Environmental
20861 Wilbeam Avenue #4
Castro Valley, CA 94546
Attn: David Siegel

Date: 5/14/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-001 **Client Sample ID:** A 11-11.5

Sample Time: 1:25 PM **Sample Date:** 5/5/2003 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Bromomethane	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Carbon Disulfide	ND		1	15	15	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Carbon Tetrachloride	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Chlorobenzene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Chloroethane	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Chloroform	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Chloromethane	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
cis-1,2-Dichloroethene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
cis-1,3-Dichloropropene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Dibromochloromethane	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Dibromomethane	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Dichlorodifluoromethane	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Diisopropyl Ether	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Ethyl Benzene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Freon 113	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Hexachlorobutadiene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Isopropylbenzene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Methyl-t-butyl Ether	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Methylene Chloride	ND		1	25	25	µg/Kg	5/14/2003	SMS110057	EPA 8260B
n-Butylbenzene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
n-Propylbenzene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Naphthalene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
p-Isopropyltoluene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
sec-Butylbenzene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Styrene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
tert-Amyl Methyl Ether	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
tert-Butanol	ND		1	20	20	µg/Kg	5/14/2003	SMS110057	EPA 8260B
tert-Butyl Ethyl Ether	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
tert-Butylbenzene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Tetrachloroethene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Tetrahydrofuran	ND		1	20	20	µg/kg	5/14/2003	SMS110057	EPA 8260B
Toluene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
trans-1,2-Dichloroethene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

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3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

ERAs Environmental
20861 Wilbeam Avenue #4
Castro Valley, CA 94546
Attn: David Siegel

Date: 5/14/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-001 **Client Sample ID:** A 11-11.5

Sample Time: 1:25 PM **Sample Date:** 5/5/2003 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
trans-1,3-Dichloropropene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Trichloroethene	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Trichlorofluoromethane	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Vinyl Chloride	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B
Xylenes, Total	ND		1	5	5	µg/Kg	5/14/2003	SMS110057	EPA 8260B

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	123.0	65 - 135
Dibromofluoromethane	101.0	57 - 156
Toluene-d8	102.0	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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Castro Valley, CA 94546
Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-002 **Client Sample ID:** B 11-11.5

Sample Time: 12:41 PM **Sample Date:** 5/5/2003 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1,1,1,2-Tetrachloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1,1-Trichloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1,2-Trichloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1-Dichloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1-Dichloroethene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1-Dichloropropene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2,3-Trichlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2,3-Trichloropropane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2,4-Trichlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2,4-Trimethylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2-Dibromo-3-Chloropropane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2-Dibromoethane (EDB)	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2-Dichlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2-Dichloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2-Dichloropropane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,3,5-Trimethylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,3-Dichlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,3-Dichloropropane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,4-Dichlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
2,2-Dichloropropane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
2-Butanone (MEK)	ND		1	20	20	µg/Kg	5/8/2003	SMS110057	EPA 8260B
2-Chloroethyl-vinyl Ether	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
2-Chlorotoluene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
2-Hexanone	ND		1	20	20	µg/Kg	5/8/2003	SMS110057	EPA 8260B
4-Chlorotoluene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
4-Methyl-2-Pentanone(MIBK)	ND		1	20	20	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Acetone	ND		1	100	100	µg/kg	5/8/2003	SMS110057	EPA 8260B
Benzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Bromobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Bromochloromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Bromodichloromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Bromoform	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

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ERAs Environmental
20861 Wilbeam Avenue #4
Castro Valley, CA 94546
Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-002 **Client Sample ID:** B 11-11.5

Sample Time: 12:41 PM **Sample Date:** 5/5/2003 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Bromomethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Carbon Disulfide	ND		1	15	15	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Carbon Tetrachloride	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Chlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Chloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Chloroform	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Chloromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
cis-1,2-Dichloroethene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
cis-1,3-Dichloropropene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Dibromochloromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Dibromomethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Dichlorodifluoromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Diisopropyl Ether	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Ethyl Benzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Freon 113	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Hexachlorobutadiene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Isopropylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Methyl-t-butyl Ether	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Methylene Chloride	ND		1	25	25	µg/Kg	5/8/2003	SMS110057	EPA 8260B
n-Butylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
n-Propylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Naphthalene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
p-Isopropyltoluene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
sec-Butylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Styrene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
tert-Amyl Methyl Ether	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
tert-Butanol	ND		1	20	20	µg/Kg	5/8/2003	SMS110057	EPA 8260B
tert-Butyl Ethyl Ether	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
tert-Butylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Tetrachloroethene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Tetrahydrofuran	ND		1	20	20	µg/kg	5/8/2003	SMS110057	EPA 8260B
Toluene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
trans-1,2-Dichloroethene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

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ERAs Environmental
20861 Wilbeam Avenue #4
Castro Valley, CA 94546
Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-002 **Client Sample ID:** B 11-11.5

Sample Time: 12:41 PM **Sample Date:** 5/5/2003 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
trans-1,3-Dichloropropene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Trichloroethene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Trichlorofluoromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Vinyl Chloride	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Xylenes, Total	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	109.0	65 - 135
Dibromofluoromethane	116.0	57 - 156
Toluene-d8	106.0	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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Date: 5/13/03
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Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-003 **Client Sample ID:** C 11.5-12

Sample Time: 11:09 AM **Sample Date:** 5/5/2003 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1,1,1,2-Tetrachloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1,1-Trichloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1,2-Trichloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1-Dichloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1-Dichloroethene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1-Dichloropropene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2,3-Trichlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2,3-Trichloropropane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2,4-Trichlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2,4-Trimethylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2-Dibromo-3-Chloropropane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2-Dibromoethane (EDB)	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2-Dichlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2-Dichloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2-Dichloropropane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,3,5-Trimethylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,3-Dichlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,3-Dichloropropane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,4-Dichlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
2,2-Dichloropropane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
2-Butanone (MEK)	ND		1	20	20	µg/Kg	5/8/2003	SMS110057	EPA 8260B
2-Chloroethyl-vinyl Ether	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
2-Chlorotoluene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
2-Hexanone	ND		1	20	20	µg/Kg	5/8/2003	SMS110057	EPA 8260B
4-Chlorotoluene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
4-Methyl-2-Pentanone(MIBK)	ND		1	20	20	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Acetone	ND		1	100	100	µg/kg	5/8/2003	SMS110057	EPA 8260B
Benzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Bromobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Bromochloromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Bromodichloromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Bromoform	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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Date: 5/13/03
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Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-003 **Client Sample ID:** C 11.5-12

Sample Time: 11:09 AM **Sample Date:** 5/5/2003 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Bromomethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Carbon Disulfide	ND		1	15	15	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Carbon Tetrachloride	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Chlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Chloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Chloroform	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Chloromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
cis-1,2-Dichloroethene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
cis-1,3-Dichloropropene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Dibromochloromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Dibromomethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Dichlorodifluoromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Diisopropyl Ether	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Ethyl Benzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Freon 113	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Hexachlorobutadiene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Isopropylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Methyl-t-butyl Ether	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Methylene Chloride	ND		1	25	25	µg/Kg	5/8/2003	SMS110057	EPA 8260B
n-Butylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
n-Propylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Naphthalene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
p-Isopropyltoluene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
sec-Butylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Styrene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
tert-Amyl Methyl Ether	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
tert-Butanol	ND		1	20	20	µg/Kg	5/8/2003	SMS110057	EPA 8260B
tert-Butyl Ethyl Ether	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
tert-Butylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Tetrachloroethene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Tetrahydrofuran	ND		1	20	20	µg/kg	5/8/2003	SMS110057	EPA 8260B
Toluene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
trans-1,2-Dichloroethene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

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3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

ERAs Environmental
20861 Wilbeam Avenue #4
Castro Valley, CA 94546
Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-003 **Client Sample ID:** C 11.5-12

Sample Time: 11:09 AM **Sample Date:** 5/5/2003 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
trans-1,3-Dichloropropene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Trichloroethene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Trichlorofluoromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Vinyl Chloride	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Xylenes, Total	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	111.0	65 - 135
Dibromofluoromethane	116.0	57 - 156
Toluene-d8	106.0	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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Date: 5/13/03
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Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-004 **Client Sample ID:** D 11.5-12

Sample Time: 10:26 AM **Sample Date:** 5/5/2003 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1,1,1,2-Tetrachloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1,1-Trichloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1,2-Trichloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1-Dichloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1-Dichloroethene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1-Dichloropropene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2,3-Trichlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2,3-Trichloropropane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2,4-Trichlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2,4-Trimethylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2-Dibromo-3-Chloropropane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2-Dibromoethane (EDB)	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2-Dichlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2-Dichloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2-Dichloropropane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,3,5-Trimethylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,3-Dichlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,3-Dichloropropane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,4-Dichlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
2,2-Dichloropropane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
2-Butanone (MEK)	ND		1	20	20	µg/Kg	5/8/2003	SMS110057	EPA 8260B
2-Chloroethyl-vinyl Ether	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
2-Chlorotoluene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
2-Hexanone	ND		1	20	20	µg/Kg	5/8/2003	SMS110057	EPA 8260B
4-Chlorotoluene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
4-Methyl-2-Pentanone(MIBK)	ND		1	20	20	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Acetone	ND		1	100	100	µg/kg	5/8/2003	SMS110057	EPA 8260B
Benzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Bromobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Bromochloromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Bromodichloromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Bromoform	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-004 **Client Sample ID:** D 11.5-12

Sample Time: 10:26 AM **Sample Date:** 5/5/2003 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Bromomethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Carbon Disulfide	ND		1	15	15	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Carbon Tetrachloride	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Chlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Chloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Chloroform	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Chloromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
cis-1,2-Dichloroethene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
cis-1,3-Dichloropropene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Dibromochloromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Dibromomethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Dichlorodifluoromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Diisopropyl Ether	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Ethyl Benzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Freon 113	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Hexachlorobutadiene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Isopropylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Methyl-t-butyl Ether	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Methylene Chloride	ND		1	25	25	µg/Kg	5/8/2003	SMS110057	EPA 8260B
n-Butylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
n-Propylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Naphthalene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
p-Isopropyltoluene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
sec-Butylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Styrene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
tert-Amyl Methyl Ether	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
tert-Butanol	ND		1	20	20	µg/Kg	5/8/2003	SMS110057	EPA 8260B
tert-Butyl Ethyl Ether	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
tert-Butylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Tetrachloroethene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Tetrahydrofuran	ND		1	20	20	µg/kg	5/8/2003	SMS110057	EPA 8260B
Toluene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
trans-1,2-Dichloroethene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-004 **Client Sample ID:** D 11.5-12

Sample Time: 10:26 AM **Sample Date:** 5/5/2003 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
trans-1,3-Dichloropropene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Trichloroethene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Trichlorofluoromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Vinyl Chloride	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Xylenes, Total	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	114.0	65 - 135
Dibromofluoromethane	108.0	57 - 156
Toluene-d8	104.0	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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Date: 5/13/03
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Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-005 **Client Sample ID:** E 10.5-11

Sample Time: 9:49 AM **Sample Date:** 5/5/2003 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1,1,1,2-Tetrachloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1,1-Trichloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1,2-Trichloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1-Dichloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1-Dichloroethene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,1-Dichloropropene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2,3-Trichlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2,3-Trichloropropane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2,4-Trichlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2,4-Trimethylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2-Dibromo-3-Chloropropane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2-Dibromoethane (EDB)	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2-Dichlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2-Dichloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,2-Dichloropropane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,3,5-Trimethylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,3-Dichlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,3-Dichloropropane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
1,4-Dichlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
2,2-Dichloropropane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
2-Butanone (MEK)	ND		1	20	20	µg/Kg	5/8/2003	SMS110057	EPA 8260B
2-Chloroethyl-vinyl Ether	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
2-Chlorotoluene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
2-Hexanone	ND		1	20	20	µg/Kg	5/8/2003	SMS110057	EPA 8260B
4-Chlorotoluene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
4-Methyl-2-Pentanone(MIBK)	ND		1	20	20	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Acetone	ND		1	100	100	µg/kg	5/8/2003	SMS110057	EPA 8260B
Benzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Bromobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Bromochloromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Bromodichloromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Bromoform	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-005 **Client Sample ID:** E 10.5-11

Sample Time: 9:49 AM **Sample Date:** 5/5/2003 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Bromomethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Carbon Disulfide	ND		1	15	15	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Carbon Tetrachloride	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Chlorobenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Chloroethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Chloroform	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Chloromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
cis-1,2-Dichloroethene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
cis-1,3-Dichloropropene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Dibromochloromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Dibromomethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Dichlorodifluoromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Diisopropyl Ether	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Ethyl Benzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Freon 113	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Hexachlorobutadiene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Isopropylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Methyl-t-butyl Ether	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Methylene Chloride	ND		1	25	25	µg/Kg	5/8/2003	SMS110057	EPA 8260B
n-Butylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
n-Propylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Naphthalene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
p-Isopropyltoluene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
sec-Butylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Styrene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
tert-Amyl Methyl Ether	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
tert-Butanol	ND		1	20	20	µg/Kg	5/8/2003	SMS110057	EPA 8260B
tert-Butyl Ethyl Ether	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
tert-Butylbenzene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Tetrachloroethene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Tetrahydrofuran	ND		1	20	20	µg/kg	5/8/2003	SMS110057	EPA 8260B
Toluene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
trans-1,2-Dichloroethene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

ERAs Environmental
20861 Wilbeam Avenue #4
Castro Valley, CA 94546
Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-005 **Client Sample ID:** E 10.5-11

Sample Time: 9:49 AM **Sample Date:** 5/5/2003 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
trans-1,3-Dichloropropene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Trichloroethene	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Trichlorofluoromethane	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Vinyl Chloride	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B
Xylenes, Total	ND		1	5	5	µg/Kg	5/8/2003	SMS110057	EPA 8260B

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	112.0	65 - 135
Dibromofluoromethane	103.0	57 - 156
Toluene-d8	104.0	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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20861 Wilbeam Avenue #4
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Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-006 **Client Sample ID:** A

Sample Time: 1:40 PM **Sample Date:** 5/5/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1,1,1,2-Tetrachloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1,1-Trichloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1,2-Trichloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1-Dichloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1-Dichloroethene	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1-Dichloropropene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2,3-Trichlorobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2,3-Trichloropropane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2,4-Trichlorobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2,4-Trimethylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dibromo-3-Chloropropane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dibromoethane (EDB)	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dichlorobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dichloroethane	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dichloropropane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,3,5-Trimethylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,3-Dichlorobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,3-Dichloropropane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,4-Dichlorobenzene	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
1,4-Dioxane	ND		1	10	10	µg/L	5/9/2003	WMS110068	EPA 8260B
2,2-Dichloropropane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
2-Butanone (MEK)	ND		1	5	5	µg/L	5/9/2003	WMS110068	EPA 8260B
2-Chloroethyl-vinyl Ether	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
2-Chlorotoluene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
2-Hexanone	ND		1	5	5	µg/L	5/9/2003	WMS110068	EPA 8260B
4-Chlorotoluene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
4-Methyl-2-Pentanone(MIBK)	ND		1	4.2	4.2	µg/L	5/9/2003	WMS110068	EPA 8260B
Acetone	ND		1	6	6	µg/L	5/9/2003	WMS110068	EPA 8260B
Benzene	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
Bromobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Bromochloromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Bromodichloromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

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ERAs Environmental
20861 Wilbeam Avenue #4
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Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-006 **Client Sample ID:** A

Sample Time: 1:40 PM **Sample Date:** 5/5/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Bromoform	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Bromomethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Carbon Disulfide	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Carbon Tetrachloride	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
Chlorobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Chloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Chloroform	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
Chloromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
cis-1,2-Dichloroethene	5.0		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
cis-1,3-Dichloropropene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Dibromochloromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Dibromomethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Dichlorodifluoromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Diisopropyl Ether	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Ethyl Benzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Freon 113	ND		1	6	6	µg/L	5/9/2003	WMS110068	EPA 8260B
Hexachlorobutadiene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Isopropanol	ND		1	10	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Isopropylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Methyl-t-butyl Ether	23		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Methylene Chloride	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
n-Butylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
n-Propylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Naphthalene	ND		1	1.2	1.2	µg/L	5/9/2003	WMS110068	EPA 8260B
p-Isopropyltoluene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
sec-Butylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Styrene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
tert-Amyl Methyl Ether	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
tert-Butanol	ND		1	4	4	µg/L	5/9/2003	WMS110068	EPA 8260B
tert-Butyl Ethyl Ether	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
tert-Butylbenzene	ND		1	1.4	1.4	µg/L	5/9/2003	WMS110068	EPA 8260B
Tetrachloroethene	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
Tetrahydrofuran	ND		1	3.6	3.6	µg/L	5/9/2003	WMS110068	EPA 8260B

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

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ERAs Environmental
20861 Wilbeam Avenue #4
Castro Valley, CA 94546
Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-006 **Client Sample ID:** A

Sample Time: 1:40 PM **Sample Date:** 5/5/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Toluene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
trans-1,2-Dichloroethene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
trans-1,3-Dichloropropene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Trichloroethene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Trichlorofluoromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Vinyl Chloride	1.6		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
Xylenes, Total	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	104.1	73 - 151
Dibromofluoromethane	96.6	57 - 156
Toluene-d8	100.4	77 - 150

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-007 **Client Sample ID:** B

Sample Time: 12:50 PM **Sample Date:** 5/5/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1,1,1,2-Tetrachloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1,1-Trichloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1,2-Trichloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1-Dichloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1-Dichloroethene	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1-Dichloropropene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2,3-Trichlorobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2,3-Trichloropropane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2,4-Trichlorobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2,4-Trimethylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dibromo-3-Chloropropane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dibromoethane (EDB)	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dichlorobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dichloroethane	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dichloropropane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,3,5-Trimethylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,3-Dichlorobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,3-Dichloropropane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,4-Dichlorobenzene	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
1,4-Dioxane	ND		1	10	10	µg/L	5/9/2003	WMS110068	EPA 8260B
2,2-Dichloropropane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
2-Butanone (MEK)	ND		1	5	5	µg/L	5/9/2003	WMS110068	EPA 8260B
2-Chloroethyl-vinyl Ether	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
2-Chlorotoluene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
2-Hexanone	ND		1	5	5	µg/L	5/9/2003	WMS110068	EPA 8260B
4-Chlorotoluene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
4-Methyl-2-Pentanone(MIBK)	ND		1	4.2	4.2	µg/L	5/9/2003	WMS110068	EPA 8260B
Acetone	ND		1	6	6	µg/L	5/9/2003	WMS110068	EPA 8260B
Benzene	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
Bromobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Bromochloromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Bromodichloromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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ERAs Environmental
20861 Wilbeam Avenue #4
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Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-007 **Client Sample ID:** B

Sample Time: 12:50 PM **Sample Date:** 5/5/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Bromoform	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Bromomethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Carbon Disulfide	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Carbon Tetrachloride	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
Chlorobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Chloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Chloroform	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
Chloromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
cis-1,2-Dichloroethene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
cis-1,3-Dichloropropene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Dibromochloromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Dibromomethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Dichlorodifluoromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Diisopropyl Ether	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Ethyl Benzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Freon 113	ND		1	6	6	µg/L	5/9/2003	WMS110068	EPA 8260B
Hexachlorobutadiene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Isopropanol	ND		1	10	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Isopropylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Methyl-t-butyl Ether	32		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Methylene Chloride	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
n-Butylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
n-Propylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Naphthalene	ND		1	1.2	1.2	µg/L	5/9/2003	WMS110068	EPA 8260B
p-Isopropyltoluene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
sec-Butylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Styrene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
tert-Amyl Methyl Ether	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
tert-Butanol	ND		1	4	4	µg/L	5/9/2003	WMS110068	EPA 8260B
tert-Butyl Ethyl Ether	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
tert-Butylbenzene	ND		1	1.4	1.4	µg/L	5/9/2003	WMS110068	EPA 8260B
Tetrachloroethene	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
Tetrahydrofuran	ND		1	3.6	3.6	µg/L	5/9/2003	WMS110068	EPA 8260B

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-007 **Client Sample ID:** B

Sample Time: 12:50 PM **Sample Date:** 5/5/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Toluene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
trans-1,2-Dichloroethene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
trans-1,3-Dichloropropene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Trichloroethene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Trichlorofluoromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Vinyl Chloride	0.54		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
Xylenes, Total	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	102.0	73 - 151
Dibromofluoromethane	102.0	57 - 156
Toluene-d8	100.0	77 - 150

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

ERAs Environmental
20861 Wilbeam Avenue #4
Castro Valley, CA 94546
Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-008 **Client Sample ID:** C

Sample Time: 11:30 AM **Sample Date:** 5/5/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1,1,1,2-Tetrachloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1,1-Trichloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1,2-Trichloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1-Dichloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1-Dichloroethene	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1-Dichloropropene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2,3-Trichlorobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2,3-Trichloropropane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2,4-Trichlorobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2,4-Trimethylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dibromo-3-Chloropropane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dibromoethane (EDB)	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dichlorobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dichloroethane	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dichloropropane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,3,5-Trimethylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,3-Dichlorobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,3-Dichloropropane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,4-Dichlorobenzene	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
1,4-Dioxane	ND		1	10	10	µg/L	5/9/2003	WMS110068	EPA 8260B
2,2-Dichloropropane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
2-Butanone (MEK)	ND		1	5	5	µg/L	5/9/2003	WMS110068	EPA 8260B
2-Chloroethyl-vinyl Ether	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
2-Chlorotoluene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
2-Hexanone	ND		1	5	5	µg/L	5/9/2003	WMS110068	EPA 8260B
4-Chlorotoluene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
4-Methyl-2-Pentanone(MIBK)	ND		1	4.2	4.2	µg/L	5/9/2003	WMS110068	EPA 8260B
Acetone	ND		1	6	6	µg/L	5/9/2003	WMS110068	EPA 8260B
Benzene	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
Bromobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Bromochloromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Bromodichloromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

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ERAs Environmental
20861 Wilbeam Avenue #4
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Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-008 **Client Sample ID:** C

Sample Time: 11:30 AM **Sample Date:** 5/5/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Bromoform	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Bromomethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Carbon Disulfide	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Carbon Tetrachloride	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
Chlorobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Chloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Chloroform	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
Chloromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
cis-1,2-Dichloroethene	2.5		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
cis-1,3-Dichloropropene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Dibromochloromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Dibromomethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Dichlorodifluoromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Diisopropyl Ether	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Ethyl Benzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Freon 113	ND		1	6	6	µg/L	5/9/2003	WMS110068	EPA 8260B
Hexachlorobutadiene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Isopropanol	ND		1	10	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Isopropylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Methyl-t-butyl Ether	35		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Methylene Chloride	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
n-Butylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
n-Propylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Naphthalene	ND		1	1.2	1.2	µg/L	5/9/2003	WMS110068	EPA 8260B
p-Isopropyltoluene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
sec-Butylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Styrene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
tert-Amyl Methyl Ether	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
tert-Butanol	ND		1	4	4	µg/L	5/9/2003	WMS110068	EPA 8260B
tert-Butyl Ethyl Ether	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
tert-Butylbenzene	ND		1	1.4	1.4	µg/L	5/9/2003	WMS110068	EPA 8260B
Tetrachloroethene	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
Tetrahydrofuran	ND		1	3.6	3.6	µg/L	5/9/2003	WMS110068	EPA 8260B

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Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

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ERAs Environmental
20861 Wilbeam Avenue #4
Castro Valley, CA 94546
Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-008 **Client Sample ID:** C

Sample Time: 11:30 AM **Sample Date:** 5/5/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Toluene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
trans-1,2-Dichloroethene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
trans-1,3-Dichloropropene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Trichloroethene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Trichlorofluoromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Vinyl Chloride	1.6		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
Xylenes, Total	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	105.9	73 - 151
Dibromofluoromethane	103.2	57 - 156
Toluene-d8	101.0	77 - 150

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-009 **Client Sample ID:** D

Sample Time: 10:50 AM **Sample Date:** 5/5/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1,1,1,2-Tetrachloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1,1-Trichloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1,2-Trichloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1-Dichloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1-Dichloroethene	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1-Dichloropropene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2,3-Trichlorobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2,3-Trichloropropane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2,4-Trichlorobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2,4-Trimethylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dibromo-3-Chloropropane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dibromoethane (EDB)	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dichlorobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dichloroethane	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dichloropropane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,3,5-Trimethylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,3-Dichlorobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,3-Dichloropropane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
1,4-Dichlorobenzene	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
1,4-Dioxane	ND		1	10	10	µg/L	5/9/2003	WMS110068	EPA 8260B
2,2-Dichloropropane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
2-Butanone (MEK)	ND		1	5	5	µg/L	5/9/2003	WMS110068	EPA 8260B
2-Chloroethyl-vinyl Ether	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
2-Chlorotoluene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
2-Hexanone	ND		1	5	5	µg/L	5/9/2003	WMS110068	EPA 8260B
4-Chlorotoluene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
4-Methyl-2-Pentanone(MIBK)	ND		1	4.2	4.2	µg/L	5/9/2003	WMS110068	EPA 8260B
Acetone	ND		1	6	6	µg/L	5/9/2003	WMS110068	EPA 8260B
Benzene	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
Bromobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Bromochloromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Bromodichloromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

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ERAs Environmental
20861 Wilbeam Avenue #4
Castro Valley, CA 94546
Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-009 **Client Sample ID:** D

Sample Time: 10:50 AM **Sample Date:** 5/5/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Bromoform	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Bromomethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Carbon Disulfide	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Carbon Tetrachloride	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
Chlorobenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Chloroethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Chloroform	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
Chloromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
cis-1,2-Dichloroethene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
cis-1,3-Dichloropropene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Dibromochloromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Dibromomethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Dichlorodifluoromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Diisopropyl Ether	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Ethyl Benzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Freon 113	ND		1	6	6	µg/L	5/9/2003	WMS110068	EPA 8260B
Hexachlorobutadiene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Isopropanol	ND		1	10	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Isopropylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Methyl-t-butyl Ether	17		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Methylene Chloride	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
n-Butylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
n-Propylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Naphthalene	ND		1	1.2	1.2	µg/L	5/9/2003	WMS110068	EPA 8260B
p-Isopropyltoluene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
sec-Butylbenzene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Styrene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
tert-Amyl Methyl Ether	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
tert-Butanol	ND		1	4	4	µg/L	5/9/2003	WMS110068	EPA 8260B
tert-Butyl Ethyl Ether	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
tert-Butylbenzene	ND		1	1.4	1.4	µg/L	5/9/2003	WMS110068	EPA 8260B
Tetrachloroethene	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
Tetrahydrofuran	ND		1	3.6	3.6	µg/L	5/9/2003	WMS110068	EPA 8260B

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-009 **Client Sample ID:** D

Sample Time: 10:50 AM **Sample Date:** 5/5/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Toluene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
trans-1,2-Dichloroethene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
trans-1,3-Dichloropropene	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Trichloroethene	1.6		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Trichlorofluoromethane	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B
Vinyl Chloride	ND		1	0.5	0.5	µg/L	5/9/2003	WMS110068	EPA 8260B
Xylenes, Total	ND		1	1	1	µg/L	5/9/2003	WMS110068	EPA 8260B

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	105.0	73 - 151
Dibromofluoromethane	105.0	57 - 156
Toluene-d8	101.0	77 - 150

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-010 **Client Sample ID:** E

Sample Time: 12:10 PM **Sample Date:** 5/5/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1,1,1,2-Tetrachloroethane	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1,1-Trichloroethane	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1,2-Trichloroethane	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1-Dichloroethane	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1-Dichloroethene	ND		10	0.5	5	µg/L	5/9/2003	WMS110068	EPA 8260B
1,1-Dichloropropene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2,3-Trichlorobenzene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2,3-Trichloropropane	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2,4-Trichlorobenzene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2,4-Trimethylbenzene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dibromo-3-Chloropropane	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dibromoethane (EDB)	ND		10	0.5	5	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dichlorobenzene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dichloroethane	ND		10	0.5	5	µg/L	5/9/2003	WMS110068	EPA 8260B
1,2-Dichloropropane	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
1,3,5-Trimethylbenzene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
1,3-Dichlorobenzene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
1,3-Dichloropropane	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
1,4-Dichlorobenzene	ND		10	0.5	5	µg/L	5/9/2003	WMS110068	EPA 8260B
1,4-Dioxane	ND		10	10	100	µg/L	5/9/2003	WMS110068	EPA 8260B
2,2-Dichloropropane	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
2-Butanone (MEK)	ND		10	5	50	µg/L	5/9/2003	WMS110068	EPA 8260B
2-Chloroethyl-vinyl Ether	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
2-Chlorotoluene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
2-Hexanone	ND		10	5	50	µg/L	5/9/2003	WMS110068	EPA 8260B
4-Chlorotoluene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
4-Methyl-2-Pentanone(MIBK)	ND		10	4.2	42	µg/L	5/9/2003	WMS110068	EPA 8260B
Acetone	ND		10	6	60	µg/L	5/9/2003	WMS110068	EPA 8260B
Benzene	ND		10	0.5	5	µg/L	5/9/2003	WMS110068	EPA 8260B
Bromobenzene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Bromochloromethane	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Bromodichloromethane	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

ERAs Environmental
20861 Wilbeam Avenue #4
Castro Valley, CA 94546
Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-010 **Client Sample ID:** E

Sample Time: 12:10 PM **Sample Date:** 5/5/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Bromoform	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Bromomethane	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Carbon Disulfide	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Carbon Tetrachloride	ND		10	0.5	5	µg/L	5/9/2003	WMS110068	EPA 8260B
Chlorobenzene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Chloroethane	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Chloroform	ND		10	0.5	5	µg/L	5/9/2003	WMS110068	EPA 8260B
Chloromethane	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
cis-1,2-Dichloroethene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
cis-1,3-Dichloropropene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Dibromochloromethane	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Dibromomethane	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Dichlorodifluoromethane	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Diisopropyl Ether	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Ethyl Benzene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Freon 113	ND		10	6	60	µg/L	5/9/2003	WMS110068	EPA 8260B
Hexachlorobutadiene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Isopropanol	ND		10	10	100	µg/L	5/9/2003	WMS110068	EPA 8260B
Isopropylbenzene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Methyl-t-butyl Ether	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Methylene Chloride	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
n-Butylbenzene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
n-Propylbenzene	190		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Naphthalene	ND		10	1.2	12	µg/L	5/9/2003	WMS110068	EPA 8260B
p-Isopropyltoluene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
sec-Butylbenzene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Styrene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
tert-Amyl Methyl Ether	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
tert-Butanol	ND		10	4	40	µg/L	5/9/2003	WMS110068	EPA 8260B
tert-Butyl Ethyl Ether	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
tert-Butylbenzene	ND		10	1.4	14	µg/L	5/9/2003	WMS110068	EPA 8260B
Tetrachloroethene	ND		10	0.5	5	µg/L	5/9/2003	WMS110068	EPA 8260B
Tetrahydrofuran	ND		10	3.6	36	µg/L	5/9/2003	WMS110068	EPA 8260B

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

ERAs Environmental
20861 Wilbeam Avenue #4
Castro Valley, CA 94546
Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-010 **Client Sample ID:** E

Sample Time: 12:10 PM **Sample Date:** 5/5/2003 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Toluene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
trans-1,2-Dichloroethene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
trans-1,3-Dichloropropene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Trichloroethene	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Trichlorofluoromethane	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B
Vinyl Chloride	ND		10	0.5	5	µg/L	5/9/2003	WMS110068	EPA 8260B
Xylenes, Total	ND		10	1	10	µg/L	5/9/2003	WMS110068	EPA 8260B

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	106.0	73 - 151
Dibromofluoromethane	97.6	57 - 156
Toluene-d8	101.9	77 - 150

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

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ERAs Environmental
20861 Wilbeam Avenue #4
Castro Valley, CA 94546
Attn: David Siegel

Date: 5/13/03
Date Received: 5/6/2003
Project Name:
Project Number: 02-007
P.O. Number: 02-007
Sampled By: David Siegel

Certified Analytical Report

Order ID: 34323 **Lab Sample ID:** 34323-011 **Client Sample ID:** Drum-1

Sample Time: 1:50 PM **Sample Date:** 5/5/2003 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.025	0.025	mg/Kg	5/6/2003	5/7/2003	SGC42826	EPA 8020
Toluene	ND		1	0.025	0.025	mg/Kg	5/6/2003	5/7/2003	SGC42826	EPA 8020
Ethyl Benzene	ND		1	0.025	0.025	mg/Kg	5/6/2003	5/7/2003	SGC42826	EPA 8020
Xylenes, Total	ND		1	0.05	0.05	mg/Kg	5/6/2003	5/7/2003	SGC42826	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	98.0	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Lead	34		1	1	1	mg/Kg	5/8/2003	5/9/2003	SM8310	EPA 6010B

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	2.5	2.5	mg/Kg	5/6/2003	5/7/2003	SGC42826	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	94.3	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

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STANDARD LAB QUALIFIERS (FLAGS)

All Entech lab reports now reference standard lab qualifiers. These qualifiers are noted in the adjacent column to the analytical result and are adapted from the U.S. EPA CLP program. The current qualifier list is as follows:

Qualifier (Flag)	Description
U	Compound was analyzed for but not detected
J	Estimated value for tentatively identified compounds or if result is below PQL but above MDL
N	Presumptive evidence of a compound (for Tentatively Identified Compounds)
B	Analyte is found in the associated Method Blank
E	Compounds whose concentrations exceed the upper level of the calibration range
D	Multiple dilutions reported for analysis; discrepancies between analytes may be due to dilution
X	Results within quantitation range; chromatographic pattern not typical of fuel
Y	PQL is reported below MDL but verified against a standard analyzed at the client requested reporting limit of 0.5 ppb
C	Reported results affected by contaminated reagent materials. See narrative for futher explanation

Entech Analytical Labs, Inc.

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Quality Control Results Summary

QC Batch #: SGC42826 **Units:** mg/Kg

Matrix: Solid **Date Analyzed:** 5/6/2003

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: TPH as Gasoline											
TPH as Gasoline	EPA 8015 M	ND		12.5		11.1	LCS	88.8			65.0 - 135.0
	Surrogate		**Surrogate Recovery**			**Control Limits (%)**					
	4-Bromofluorobenzene		84.0			65 - 135					
Test: BTEX											
Benzene	EPA 8020	ND		0.4		0.398	LCS	99.5			53.6 - 145.6
Ethyl Benzene	EPA 8020	ND		0.4		0.391	LCS	97.8			67.1 - 134.3
Toluene	EPA 8020	ND		0.4		0.396	LCS	99.0			45.3 - 157.2
Xylenes, total	EPA 8020	ND		1.2		1.161	LCS	96.8			79.0 - 125.6
	Surrogate		**Surrogate Recovery**			**Control Limits (%)**					
	4-Bromofluorobenzene		98.3			65 - 135					
Test: TPH as Gasoline											
TPH as Gasoline	EPA 8015 M	ND		12.5		11.1	LCSD	88.8	0.00	30.00	65.0 - 135.0
	Surrogate		**Surrogate Recovery**			**Control Limits (%)**					
	4-Bromofluorobenzene		76.8			65 - 135					
Test: BTEX											
Benzene	EPA 8020	ND		0.4		0.396	LCSD	99.0	0.50	30.00	53.6 - 145.6
Ethyl Benzene	EPA 8020	ND		0.4		0.39	LCSD	97.5	0.26	30.00	67.1 - 134.3
Toluene	EPA 8020	ND		0.4		0.4	LCSD	100.0	1.01	30.00	45.3 - 157.2
Xylenes, total	EPA 8020	ND		1.2		1.157	LCSD	96.4	0.35	30.00	79.0 - 125.6
	Surrogate		**Surrogate Recovery**			**Control Limits (%)**					
	4-Bromofluorobenzene		96.0			65 - 135					

Entech Analytical Labs, Inc.

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Quality Control Results Summary

QC Batch #: SMS110057 **Units:** µg/Kg

Matrix: Solid **Date Analyzed:** 5/8/2003

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: EPA 8260B											
1,1-Dichloroethene	EPA 8260B	ND		40		38.6	LCS	96.5			46.9 - 124.0
Benzene	EPA 8260B	ND		40		40.5	LCS	101.3			75.9 - 137.0
Chlorobenzene	EPA 8260B	ND		40		40.	LCS	100.0			73.7 - 124.0
Methyl-t-butyl Ether	EPA 8260B	ND		40		34.3	LCS	85.8			57.6 - 114.0
Toluene	EPA 8260B	ND		40		38.5	LCS	96.3			78.1 - 116.0
Trichloroethene	EPA 8260B	ND		40		39.	LCS	97.5			79.8 - 119.0

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	107.0	65 - 135
Dibromofluoromethane	94.3	57 - 156
Toluene-d8	100.0	65 - 135

Test: TPH as Gasoline - GCMS											
TPH as Gasoline	GC-MS	ND		250		232.9	LCS	93.2			63.0 - 143.0

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	111.0	65 - 135
Dibromofluoromethane	99.9	65 - 135
Toluene-d8	103.0	65 - 135

Test: EPA 8260B											
1,1-Dichloroethene	EPA 8260B	ND		40		36.3	LCSD	90.8	6.14	30.00	46.9 - 124.0
Benzene	EPA 8260B	ND		40		38.7	LCSD	96.8	4.55	30.00	75.9 - 137.0
Chlorobenzene	EPA 8260B	ND		40		38.4	LCSD	96.0	4.08	30.00	73.7 - 124.0
Methyl-t-butyl Ether	EPA 8260B	ND		40		33.8	LCSD	84.5	1.47	30.00	57.6 - 114.0
Toluene	EPA 8260B	ND		40		37.1	LCSD	92.8	3.70	30.00	78.1 - 116.0
Trichloroethene	EPA 8260B	ND		40		37.9	LCSD	94.8	2.86	30.00	79.8 - 119.0

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	108.0	65 - 135
Dibromofluoromethane	93.3	57 - 156
Toluene-d8	100.0	65 - 135

Test: TPH as Gasoline - GCMS											
TPH as Gasoline	GC-MS	ND		250		230.9	LCSD	92.4	0.86	30.00	63.0 - 143.0

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	111.0	65 - 135
Dibromofluoromethane	101.0	65 - 135
Toluene-d8	102.0	65 - 135

Entech Analytical Labs, Inc.

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Quality Control Results Summary

QC Batch #: SM8310 **Units:** mg/Kg
Matrix: Solid **Date Analyzed:** 5/9/2003

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Lead	EPA 6010B	ND		50		55.46	LCS	110.9			85.0 - 115.1
Lead	EPA 6010B	ND		50		55.77	LCSD	111.5	0.56	30.00	85.0 - 115.1

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Quality Control Results Summary

QC Batch #: WMS110068 **Units:** µg/L
Matrix: Liquid **Date Analyzed:** 5/8/2003

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: EPA 8260B											
1,1-Dichloroethene	EPA 8260B	ND		20		17.	LCS	85.0			58.7 - 114.2
Benzene	EPA 8260B	ND		20		19.2	LCS	96.0			67.6 - 131.8
Chlorobenzene	EPA 8260B	ND		20		18.9	LCS	94.5			87.7 - 116.2
Methyl-t-butyl Ether	EPA 8260B	ND		20		15.2	LCS	76.0			54.0 - 130.5
Toluene	EPA 8260B	ND		20		17.9	LCS	89.5			81.9 - 110.5
Trichloroethene	EPA 8260B	ND		20		19.3	LCS	96.5			75.5 - 110.2

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	102.0	73 - 151
Dibromofluoromethane	86.9	57 - 156
Toluene-d8	97.5	77 - 150

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: EPA 8260B											
1,1-Dichloroethene	EPA 8260B	ND		20		16.7	LCSD	83.5	1.78	25.00	58.7 - 114.2
Benzene	EPA 8260B	ND		20		19.	LCSD	95.0	1.05	25.00	67.6 - 131.8
Chlorobenzene	EPA 8260B	ND		20		18.8	LCSD	94.0	0.53	25.00	87.7 - 116.2
Methyl-t-butyl Ether	EPA 8260B	ND		20		15.1	LCSD	75.5	0.66	25.00	54.0 - 130.5
Toluene	EPA 8260B	ND		20		17.7	LCSD	88.5	1.12	25.00	81.9 - 110.5
Trichloroethene	EPA 8260B	ND		20		19.3	LCSD	96.5	0.00	25.00	75.5 - 110.2

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	101.0	73 - 151
Dibromofluoromethane	85.5	57 - 156
Toluene-d8	97.8	77 - 150

Entech Analytical Labs, Inc.

3334 Victor Court (408) 588-0200
Santa Clara, CA 95054 (408) 588-0201 - Fax

Chain of Custody / Analysis Request

Attention to: David Siegel	Phone No.: 502-[illegible]985	Purchase Order No (Reqd).: 02-007	Send Invoice to (if Different)	Phone
Company Name: ERAS Environmental, Inc.	Fax No.: (510) 886-5399	Project Number: 02-007	Company	
Mailing Address: 2081 William Avenue	email: eras@earthlink.net	Project Name:	Billing Address (if Different)	
City: Castro Valley	State: CA Zip: 94546	Project Location: 925 W. Grand	City:	State Zip

Sampler: David Siegel Field Org. Code:

Global ID:

Turn Around Time

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Day
- ☐ 3 Day
- ☒ 5 Day
- ☐ 4 Day
- ☐ Standard (10 Day)

Order ID:

Client ID:	Field PT	Lab. No.	Sampling Date	Sampling Time	Matrix	Composite	Grab	Containers	Preservative	Volatile Organics by GCMS: 601/602 ☐ 624 ☐	Fuel Oxygenates by 8010 by 8260 ☐ MTBE by 8260B ☐	Pesticides-8081 ☐ / PCBs - 8082 ☐	8260B + TPH-g	TPH as Gas/BTEX ☐	TPH as Gas/BTEX/MTBE ☐	Base/Neutral/Acid Organics 8270 ☐	8270-SIM ☐ PNA ☐	Fuel Scan Extractable ☐ Purgeable ☐	Diesel ☐ w/ Si-gel ☐ Motor Oil ☐ w/ Si-gel ☐	pH	CN	TRPH ☐ Oil & Grease ☐	Total Lead	Metals - Circle Below Total ☐ Dissolved ☐	STLC	TTLC	Remarks
A 11-11.5		34323-001	5/03	13:25	S			1					X														
B 11-11.5		002		1241	S			1					X														
C 11.5-12		003		1139	S			1					X														
D 11.5-12		004		1026	S			1					X														
E 10.5-11		005		949	S			1					X														
A		006		1340	W			4	HCl				X														
B		007		1250	W			4	HCl				X														
C		008		1130	W			4	HCl				X														
D		009		1050	W			4	HCl				X														
E		010		1210	W			4	HCl				X														
Drum-1		011	↓	1350	S			1						X								X					

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[signature]	[signature]	5/6/03	12:15
Relinquished by: [signature]	Received by: [signature]	5/6/03	3:45
Relinquished by:	Received by:	Date:	Time:
Relinquished by:	Received by:	Date:	Time:

Special Instructions or Comments

TPH-g/BTEX/MTBE/oxy/4VOCs

Metals: low level for W, normal for soil

Al, As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, K, Si, Ag, Na, Se, Sr, Tl, Sn, Ti, V, Zn, W : RCRA-8 ☐ CAM-17 ☐ Plating ☐ PPM-13 ☐ LUFT-5 ☐

- ☐ NPDES Detection Limits
- ☐ EDD Report Required
- ☐ EDF Report Required
- ☐ PDF File Required