ERAS
Environmental, Inc.

20861 Wilbeam Avenue, Suite #4
Castro Valley, CA 94546-5832

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

July 2, 2002

Mr. Francis Rush 510/763-7165
Rush Property Group
2200 Adeline Street, #350
Oakland, CA 94607

Subject: **Report of Limited Soil and Groundwater Investigation**
1173 28th Street, Oakland, California
ERAS Project Number 02032

Dear Mr. Rush,

ERAS Environmental is pleased to present the results of the Limited Soil and Groundwater Investigation for the above referenced site. Five soil borings were drilled on the site on June 12, 2002. Three soil samples and three groundwater samples were collected from the borings 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. 9/30/02
STATE OF CALIFORNIA

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

Gail Jones, R.G. 5725
Senior Geologist

ERAS Environmental

20861 Wilbeam Avenue, Suite #4
Castro Valley, CA 94546

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

LIMITED SOIL AND GROUNDWATER INVESTIGATION
1173 28th Street
Oakland, California
Project Number 02032

Prepared for:

Mr. Francis Rush
Rush Property Group
2200 Adeline Street, #350
Oakland, CA 94607

Prepared by:

ERAS Environmental

July 2, 2002

TABLE OF CONTENTS

Background

This report presents the results of the Limited Soil and Groundwater Investigation conducted by ERAS Environmental (ERAS) at 1173 28th Street, Oakland, California (hereinafter the "Property"). The current layout of the Property is shown on **Figure 1**.

The Property is currently vacant but was last occupied by the Coast Sausage Company. That operation, a food manufacturing, storage and distribution facility, occupied the Property since the late 1970s. The western part of the building burned several years ago, leaving various concrete foundations. The eastern part of the building contains large freezers, a shipping area and refrigeration compressor room. Some of the compressor equipment and piping remained in part of that room.

Purpose and Scope

The current investigation was undertaken to assess subsurface environmental conditions in several areas of the Property that included the following:

1) Determine whether the groundwater in the immediate area of two underground fuel storage tanks (UST) located under the sidewalks along Adeline and Myrtle Street were impacted by petroleum hydrocarbons.

2) Assess shallow soil in the area of a groundwater sample collected in 2001 from Boring B-2 by a previous environmental consultant. That groundwater sample was found to contain an elevated concentration of cis-1,2-dichloroethene (cis-1,2 DCE).

The scope of work performed consisted of the following activities:

- Reviewing the findings of the previous subsurface investigation report;
- Collect shallow soil samples from soil borings SB-1 and SB-2 located in the compressor room near former boring B-2. Analyze the soil samples for halogenated volatile organic compounds (HVOC);
- Drill two shallow soil borings (SB-3 and SB-4) to collect groundwater samples near each of the underground fuel tanks. Additionally collect a soil sample from boring B-3;
- Collect a groundwater sample from boring SB-5 located in the loading room near the northeast Property boundary;
- Laboratory analysis of soil and groundwater samples for TRPH, TPH-d, TPH-g, BTEX and MTBE;
- Evaluation of the findings from the field activities, sample analyses, and preparation of this report.

A limited soil and groundwater investigation was conducted by ERAS at the Property on June 12, 2002. The investigation consisted of the drilling of five soil borings (SB-1 through

SB-5), three inside the building and two outside in the immediate vicinity of USTs. The borings were located on three sides of the former sausage plant. The locations of these soil borings are shown on **Figure 1.**

Previous Subsurface Investigation

Treadwell & Rollo (T&R) performed a subsurface investigation on the Property on December 6, 2001. The results of the investigation were presented in a report dated December 28, 2001. Four soil borings (B-1 through B-4) were drilled on the Property and soil and groundwater samples collected for analysis. T&R encountered groundwater at depths of 5 to 7 feet and assumed a gradient to the west-northwest. One of the borings was drilled inside a former compressor room and three were drilled in the outside area along the western side of the Property as shown on **Figure 1.**

T&R submitted the soil and groundwater samples for analysis for lead and other metals and cyanide associated with foundries, volatile organic compounds (that includes cis-1,2 DCE), glycols and ammonia. The results indicated the soil samples contained no elevated concentrations of chemicals except that one sample contained 110 milligrams per kilogram (mg/Kg) of lead at a depth of one foot in boring B-2. This concentration is below the California Regional Water Quality Control Board (RWQCB) Risk Based Screening Level (RBSL) for residential surface soil of 200 mg/Kg (San Francisco Bay Area RWQCB, Table B, Surface Soil (</= 3m bgs, Risk Based Screening Levels (RBSLs) (Groundwater is NOT a Current or Potential Source of Drinking Water), Interim Final - December 2001.

The groundwater samples contained toluene at concentrations of 0.77 and 1.2 micrograms per liter (µg/L) and xylenes at concentrations of 1.0 and 1.6 µg/L in borings B-3 and B-4. Various concentrations of HVOCs were detected in the borings including cis-1,2-DCE at concentrations of 0.92 and 990 µg/L (B-3 and B-2), 1,1 dichloroethane, (1,1-DCA), 1,1 dichloroethene, (1,1-DCE) and 1,1 trichloroethane, (1,1-TCA) at concentrations of 9.1, 17 and 19 µg/L, respectively, in B-1 and trichloroethene (TCE) at a concentration of 47 µg/L (B-2). Comparison with residential RBSLs indicated only the concentration of 990 µg/L of cis-1,2-DCE in groundwater is above the limiting value. The distribution of cis-1,2-DCE in groundwater appeared to be limited to the Property.

Pre-field Activities

Permits for performing the proposed work were obtained from the Alameda County Department of Public Works Water Resources Section. In addition, Excavation Permits were obtained from the City of Oakland Office of Planning and Building for the borings to be drilled in the street. Copies of the permits are included in **Appendix A**. Prior to drilling activities, subsurface utilities were marked near the boring sites by US Alert, Incorporated (USA). In addition, each of the five bore hole locations marked by ERAS was cleared for drilling by an independent underground utility survey conducted by Subdynamic Locating Services of San Jose, California. Prior to drilling, 6-inch diameter cores were drilled through the concrete inside the building and on the Adeline Street side of the building by Osborne's Concrete Coring.

Soil Boring and Sampling

Five soil boring locations were drilled by Vironex, Inc. on 12 June 2002 using a direct-push sample rig. The soil boring locations are shown on **Figure 1**. Using a series of hollow, 4-foot

long samplers lined with clear plastic tubing, soil cores were collected continuously to the total depths explored. ERAS field personnel examined each soil core for chemical odor and discoloration. Lithologic descriptions of the cores were recorded on a boring log for each location. Details of the subsurface sediments are shown on the field soil boring logs included in **Appendix B.**

Where soil samples were selected for chemical analysis, the desired interval was cut from the core while still in the plastic lining. The ends were sealed with Teflon sheets and plastic end caps and stored in a cooler with blue ice for transport to the laboratory.

Groundwater samples were collected using clean polyethylene tubing with a ball-check at the lower end. Agitating the tubing drew groundwater up to the surface where it was pumped directly into appropriate pre-labeled laboratory supplied containers. The sample containers were stored in the cooler with blue ice for transport to the laboratory.

Soil borings SB-1 and SB-2 were drilled inside the compressor room in the vicinity of the previous soil boring B-2. The purpose of these borings was to collect shallow soil samples to be analyzed for HVOCs to determine if a source of groundwater contamination was in the immediate vicinity. Soil boring SB-1 was advanced to a depth of 4 feet with a soil sample collected from 3 to 4 feet. Soil boring SB-2 was advanced to a depth of 8 feet with a soil sample collected from 4 to 5 feet. During drilling an oily substance was observed in the soil. Therefore, the soil samples were also analyzed for total recoverable petroleum hydrocarbons (TRPH) which would detect hydrocarbons in the oil and grease range.

Soil boring SB-3 was drilled to a total depth of 12 feet adjacent to the UST in Adeline Street. Petroleum product odor and significant discoloration were noted below a depth of 5.5 feet. Groundwater was encountered at about 8 feet below ground surface (bgs). A soil sample was selected for analyses from the discolored interval just above groundwater to assess if the soil may act as a continuing source of contamination to the groundwater. A groundwater sample was collected for analysis.

Soil boring SB-4 was drilled to 12 feet bgs adjacent to the UST in Magnolia Street. No discoloration or petroleum odor was noted in the soil, so no soil sample was kept for analysis. Groundwater was encountered at about 10.9 feet bgs. The boring went dry during groundwater sampling, and groundwater recovered slowly into the boring.

Soil Boring SB-5 was drilled in the loading room adjacent to 28th Street to check for the presence of petroleum hydrocarbons in groundwater along the northeast property boundary. This boring was advanced to 8 feet. No discoloration or petroleum odors were noted in the soil. Wet soil was noted in the core at 4.5 feet bgs. The groundwater level rose to 2.9 feet bgs after the core was removed. A groundwater sample was collected from analysis.

Subsurface Conditions

Subsurface materials beneath the concrete or asphalt surface consisted of silty gravel to depths up to 12 feet bgs. Groundwater was initially encountered between 4.5 and 10.9 feet bgs. Copies of the field boring logs that contain details of the subsurface conditions observed are included in **Appendix B**.

Laboratory Methods and Results

The soil and groundwater samples were transported to ENTECH Analytical Labs, Inc., a State of California-certified analytical laboratory in Santa Clara, California.

Soil

The soil samples from SB-1 and SB-2 were analyzed for HVOCs by EPA Method 8260B, and Total Recoverable Petroleum Hydrocarbons (TRPH) by EPA Method 5520 C/F. Soil samples from SB-3, SB-4 and SB-5 were analyzed for total petroleum hydrocarbons as gasoline (TPH-g), and as diesel (TPH-d) by EPA Method 8015 Modified, and benzene, toluene ethyl benzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8020.

The results of the soil analyses are summarized on Table 1 below. The laboratory reports and chain-of-custody forms are included as **Appendix C.**

No detectable concentrations of solvents or TRPH were observed in the samples from SB-1 and SB-2. The soil sample from SB-3 contained a TPH-g concentration of 110 mg/Kg and TPH-d at a concentration of 14 mg/Kg. These concentrations are below the residential RBSLs for these constituents of 400 and 500 mg/Kg, respectively.

TABLE 1 - Soil Sample Analytical Results (milligrams per kilogram)

Sample Number	Date Sampled	TPH-g	TPH-d	TRPH	BTEX	HVOC	MTBE
SB-1, 3-4	6/12/02	N/A	N/A	<25	N/A	ND[1]	N/A
SB-2, 4-5	6/12/02	N/A	N/A	<25	N/A	ND[1]	N/A
SB-3, 7-8	6/12/02	110	14	N/A	<0.5	N/A	<1.25

Notes:

ND Not detected at or above laboratory detection limits
N/A Not Analyzed
1 Detection limits varied from 0.005 to 0.025 mg/Kg

Groundwater

The results of the groundwater analyses are summarized in Table 2 below. The laboratory reports and chain-of-custody forms are included in **Appendix C.**

The groundwater samples were analyzed for the presence of TPH-g, TPH-d, TRPH, BTEX, and MTBE. The results of the analysis of groundwater samples indicated the presence of concentrations of benzene, toluene and ethylbenzene well below the RBSL values of 46 ug/L, 130 ug/L and 290 ug/L, respectively. Concentrations of TPH-g and TPH-d were above the RBSLs for these compounds of 500 and 640 ug/L, respectively.

TABLE 2 - Groundwater Sample Analytical Results (micrograms per liter)

Sample Number	Date Sampled	TPH-g	TPH-d	TRPH	B	T	E	X	MTBE
SB-3	6/12/02	5,900	900	<5000	1.7	<1.25	4.1	<2.5	<12.5
SB-4	6/12/02	<50	<50	<5000	2.5	0.65	<0.5	<1	<5
SB-5	6/12/02	<50	<50	<5000	<0.5	<0.5	<0.5	<1	<5

Notes:
ND Not detected above laboratory detection limits.
N/A Not Analyzed

Conclusions

A previous soil and groundwater investigation was conducted on the Property by Treadwell and Rollo (T&R) in December 2001. Four soil borings were drilled and soil and groundwater samples collected for analysis. The results indicated that the concentration of cis-1,2-DCE was above the RWQCB RBSL for that chemical in groundwater. The presumed groundwater direction at the Property is westerly. Analytical results of samples from the other three borings indicated cis-1,2-DCE above the RBSLs in groundwater does not reach the Property line along Magnolia Street.

This investigation was performed to attempt to attempt to locate a source for cis-1,2-DCE in the immediate area of the T&R boring containing the solvents in groundwater. In addition, borings were drilled near and cross-gradient of two USTs located under sidewalk areas on either side of the Property to assess soil and groundwater for the presence of petroleum hydrocarbons.

The results of the investigation indicated no detectable concentrations of HVOCs or TRPH in soil in the areas investigated. Total petroleum hydrocarbons were detected in soil and groundwater near the UST on the eastern (up-gradient) side of the Property. Concentrations of TPH-g and TPH-d in soil were below RBSL levels for residential uses where groundwater is less than 3 meters below the surface and groundwater is not a source or potential source of drinking water. Some of this soil would likely be removed during later UST removal.

Concentrations of TPH-g and TPH-d in groundwater were above RBSL levels for these constituents. The absence of elevated concentrations of lighter gasoline constituents benzene, toluene, ethylbenzene and xylenes indicate the petroleum hydrocarbons are degraded likely due to a long residence time in the subsurface.

Based on a conversation with Mr. Hernan Gomez, of the City of Oakland Fire Department, this site should be referred to the Alameda County Health Care Services Agency (ACHCSA) for regulatory oversight due to the observed concentrations of TPH-g and TPH-d in groundwater. However, both agencies would first require the proper removal of the USTs. Based on a conversation with Ms. Eva Chu of the ACHCSA, it is likely that the levels of

TPH-g and TPH-d will require the installation and quarterly monitoring of three groundwater wells. The following are estimated costs for these tasks.

- Removal of two USTs, including disposal of UST and disposal of 20 yards of contaminated soil at a Class II non-hazardous landfill **$23,000**

- Installation of three groundwater monitoring wells on-site **$12,000**

- Quarterly groundwater monitoring and reporting for three additional quarters **$7, 500**

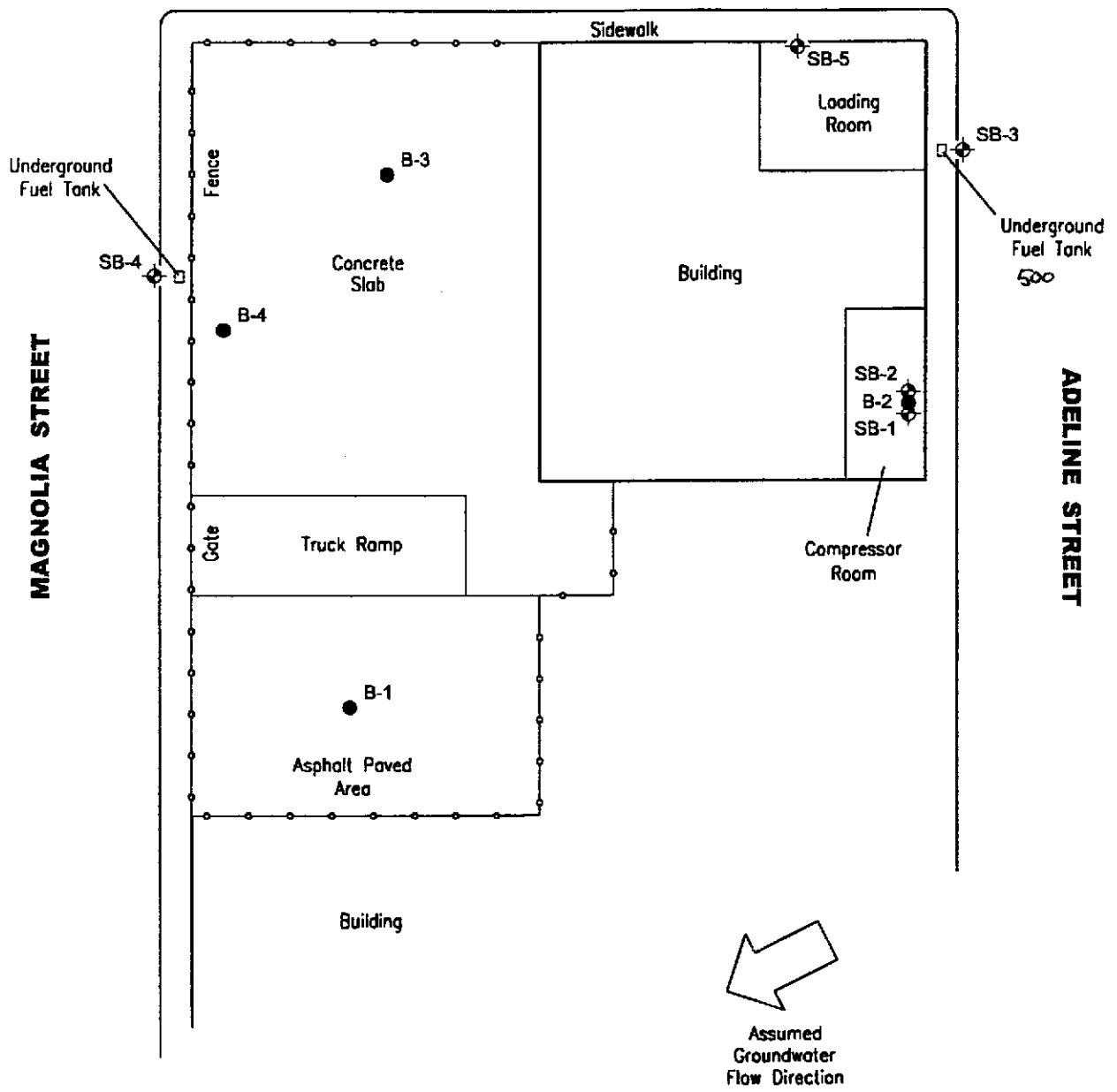
- Properly destroy monitoring wells and prepare closure request documents **$8,000**

TOTAL $50,500

These costs assume no additional sources or amounts of contamination are found and only three wells will be required. Additional costs may apply if the ACHCSA requires investigation of off-site up-gradient sources of contamination or a formal risk assessment.

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 which 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 are made with very limited data. Judgements leading to conclusions are generally made with an incomplete knowledge of the conditions present. Additional conditions and materials could exist at the site that were not encountered during this investigation. No warranty or guarantee is expressed or implied therein.



EXPLANATION

- ● Soil boring by Treadwell & Rollo, 12-6-01
- ⊕ Soil boring by ERAS, 06-12-02

SITE PLAN w/BORING LOCATIONS

DATE		JOB NUMBER
07/02	FORMER COAST SAUSAGE	02032
REVIEWED BY	1173 28th Street	FIGURE
GJ	Oakland, California	1

ERAS Environmental Inc.

Appendix A

Permits

ALAMEDA COUNTY PUBLIC WORKS AGENCY

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

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 1173 28th St., Oakland

CLIENT
Name Mr. Francis Rush - Rush Property Group
Address 2300 Adeline St. #150 Phone (510) 763-7165
City Oakland Zip 94607

APPLICANT
Name David Siegel
ERAS Environmental Fax (510) 886-5399
Address 2001 Wilbeam Ave #3 Phone (510) 247-9885
City Castro Valley 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 ☐ Replacement Domestic ☐
Municipal ☐ Irrigation ☐
Industrial ☐ Other ______ ☐

DRILLING METHOD:
Mud Rotary ☐ Air Rotary ☐ Auger ☐
Cable ☐ Other ☑ Hydropunch

DRILLER'S NAME Vironex, Inc.

DRILLER'S LICENSE NO. C-57-705927

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 15 ft.

ESTIMATED STARTING DATE 6/12/02
ESTIMATED COMPLETION DATE 6/12/02

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

APPLICANT'S SIGNATURE [signature] DATE 6/7/02

PLEASE PRINT NAME David Siegel

Rev.6-5-00

FOR OFFICE USE

PERMIT NUMBER W02-0608
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. (circled) 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. (circled) GEOTECHNICAL
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

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. (circled) SPECIAL CONDITIONS - SCHB Attached -

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 6-7-02

CITY OF OAKLAND
Office of Planning and Building

FAX 238-6632

USA # 264 083

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL ENGINEERIN

PAGE 2 of 2

PERMIT NUMBER X020 0584		SITE ADDRESS/LOCATION 1173 20TH ST on ADELINE STREET
APPROX. START DATE	APPROX. END DATE	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number)
CONTRACTOR'S LICENSE # AND CLASS		CITY BUSINESS TAX #

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) # _____

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).**

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 of Permittee ☐ Agent for ☐ Contractor ☐ Owner Date

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		DATE ISSUED	

USA # 264-075

CITY OF OAKLAND
Office of Planning and Building

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL ENGINEERIN

PAGE 2 of 2

ON MAGNOLIA

PERMIT NUMBER	SITE ADDRESS/LOCATION
X020 0583	1173 28th ST
APPROX. START DATE: 5-4-96-1-1 / APPROX. END DATE	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number)
CONTRACTOR'S LICENSE # AND CLASS	CITY BUSINESS TAX #

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ISSUED BY		DATE ISSUED	

ERAS Environmental

20861 Wilbeam Avenue, #4
Castro Valley, CA 94546

CLIENT	SITE NUMBER	LOCATION
	SB-1	1172 28th street

LOG OF SOIL BORING

Coordinates: 3' south of old boring #2

Elevation top of casing:

Casing below surface:

DRILLING AND SAMPLING METHODS	direct push/Ucronex		
WATER LEVEL	N/A		
TIME			
DATE			
REFERENCE			

DRILLING START	DRILLING FINISH
TIME 11:40	TIME 11:50
DATE	DATE

Inches Driven	Inches Recover	Blows/6" Sampler	OVA Reading	WELL DETAIL	DEPTH (Feet)	GRAPHIC LOG
					0	
					1	
					2	GM
					3	GM
					4	
					5	
					6	
					7	
					8	
					9	
					10	
					11	
					12	
					13	
					14	
					15	
					16	
					17	
					18	
					19	
					20	

SAMPLE SB-1 3-4'

SURFACE CONDITIONS 8" Concrete w/ gravel base

DESCRIPTION by: WKM

0-8 concrete
8-12 Gravel Fill < HAND AUGERED 1 FOOT

1' → 2½ Feet SILTY GRAVEL (GM) damp
Gravel 65% Sand 10% Silt 25%, Medium brown
2½-4' SILTY GRAVEL (GM)
Gravel 50% Sand 25% Silt 25% damp
No clay. Light brown -
TD = 4' STIFF

liquid coating acrylic liner feels too slick to be just water - No color - no odor.

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

CLIENT	SITE NUMBER	LOCATION
	SB-2	1173 28th ST.

DRILLING AND SAMPLING METHODS: direct push / Vironex

LOG OF SOIL BORING

Coordinates: 3' North of old boring

Elevation top of casing: # 2.

Casing below surface:

		DRILLING START	DRILLING FINISH
WATER LEVEL	N/A		
TIME		TIME 11:50	TIME 12:10
DATE		DATE 6/12/02	DATE
REFERENCE			

SURFACE CONDITIONS: 8" concrete + 4" Gravel (no fines)

DESCRIPTION by: WKM

Inches Driven	Inches Recover	Blows/6" Sampler	OVA Reading	WELL DETAIL	DEPTH (Feet)	GRAPHIC LOG
	100				0	
	100				1	GM
	0			NR	2	
	0				3	
	100			Soil Sample	4	SB-2-4-5
	100				5	
	0			NR	6	
	0				7	
					8	
					9	
					10	
					11	
					12	
					13	
					14	
					15	
					16	
					17	
					18	
					19	
					20	

0-8" concrete (HAND AUGERED FOR FILL)

8-12" coarse gravel (compacted fill)

1'-8' ± GM Silty Gravel well graded, subangular gravel 65% Sand 10% SILT 25%, medium brown to dark brown. damp No clay

8' TD.

Note - moisture on outside of acrylic casing feels too slick to be water. No color or odor noted.

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Castro Valley, CA 94546

CLIENT	SITE NUMBER	LOCATION
1172 28th Street	(MW location 4)	SB-3

LOG OF SOIL BORING SB-3

Coordinates:
On Adeline street 2' from curb
Elevation top of casing:
Casing below surface:

DRILLING AND SAMPLING METHODS: direct push / Vironex

				DRILLING START	DRILLING FINISH
WATER LEVEL		→			
TIME				TIME 11:07	TIME
DATE				DATE 10/17/02	DATE
REFERENCE					

Inches Driven	Inches Recover	Blows/6" Sampler	OVA Reading	WELL DETAIL	DEPTH (Feet)	GRAPHIC LOG
	100				0	GW
	100				1	
	100				2	
	0			NR	3	
	100				4	
	100				25	
	100				6	
	100				7	GW
	140				Sample SB3-7-8' 8	
	100				9	
	100				30	
	100				11	GW
	100				12	
					13	
					14	
					35	
					16	
					17	
					18	
					19	
					40	

SURFACE CONDITIONS

DESCRIPTION by: WKM

8" concrete (HAND Augered 1 FOOT)
SILTY GRAVEL yellow brown to light brown, locally gravelly silt, dry 0-6' LITHIC FRAGMENTS to 1 inch angular, 30-40% of soil, 60-70% silt and sand

abrupt color change to greenish gray mottled - Lithology same moist at 6' PETROLEUM ODOR

- wet soil (saturated in shoe)

10' color ~~hydrogreen~~ to 12' change to hydro would not open - yellowbrown core to 12/bail sample

12' EOH

ERAS Environmental

20861 Wilbeam Avenue, #4
Castro Valley, CA 94546

CLIENT	SITE NUMBER	LOCATION
Meplocation 3	SB-4	1173 28th St

DRILLING AND SAMPLING METHODS: direct push - Vironex

LOG OF SOIL BORING

Coordinates: Magnolia Street side of property

Elevation top of casing:

Casing below surface:

				DRILLING START	DRILLING FINISH
WATER LEVEL	10.9'				
TIME	1318			TIME 1300	TIME 13:45
DATE	6/12/02			DATE 6/12/02	DATE
REFERENCE					

SURFACE CONDITIONS: 3" asphalt, 3" Gravel

DESCRIPTION by: WKM

Inches Driven	Inches Recover	Blows/6" Sampler	OVA Reading	WELL DETAIL	DEPTH (Feet)	GRAPHIC LOG
100					0	
100					1	GM
100					2	
75				NC	3	
100					4	
					5	
					6	
					7	
					8	
					9	
					10	
100					11	▽
80				NR	12	
					13	
					14	
					15	
					16	
					17	
					18	
					19	
					20	

0-0.3' asphalt over gravel

0-2. gray colored SILTY Gravel 55% gravel 10% SAND, 35% SILT - dry - stiff. clasts WEATHERED - disintegrate when core is broken, slight organic odor (not petroleum)

2-12' mottled yellow brown silty gravel w/ gray and medium brown mottling. damp to 10', stiff.

10-12' WET, LOOSE silty gravel -

10.9 GW level immediately after core was recovered - water level rising slowly.

dewatered after 1 Liter GW sampled. waited for recharge 10 min - produced about 1 liter per 5 minutes after the wait period.

ERAS Environmental

20861 Wilbeam Avenue, #4
Castro Valley, CA 94546

CLIENT	SITE NUMBER	LOCATION
	SB-5	1173 28th Street

LOG OF SOIL BORING

Coordinates:
East of office Trickle Bldg on
Elevation top of casing 28th ST
Casing below surface: side (North)

DRILLING AND SAMPLING METHODS

				DRILLING START	DRILLING FINISH
WATER LEVEL	2.9'				
TIME	12:45			TIME 12:30	TIME 1300
DATE	6/12/02			DATE 6/12/02	DATE —
REFERENCE					

SURFACE CONDITIONS 8" concrete, 4" gravel

DESCRIPTION by: LOKan

Inches Driven	Inches Recover	Blows/6" Sampler	OVA Reading	WELL DETAIL	DEPTH (Feet)	GRAPHIC LOG
	100				0	
	100				1	
	100				2	GM
	50			NR	3	
	100				4	
	100				5	
	100				6	
	100				7	
	100				8	
					9	
					10	
					11	
					12	
					13	
					14	
					15	
					16	
					17	
					18	
					19	
					20	

0-8" concrete (HAND AUGERED)
8-12" coarse GRAVEL
~~0-8 FT~~
SILTY GRAVEL, 60% gravel (fine size), 30% SILT and minor sand, 5% CLAY PLASTIC. damp
0-3 DARK GRAY color Nodular
3-4.5 mottled medium brown and greenish gray (15%) plastic
4.5-6 medium brown GM WET Saturated, Loose.

Increase in gravel content 7-8' to 75%.

GW level measured after cone pulled from 8', GW @ 2.9'

Appendix C

Laboratory Analytical Report

Entech Analytical Labs, Inc.

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

June 20, 2002

Job # 2032

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

Order: 30291
Project Name: Sausage Factor
Project Number:
Project Notes:

Date Collected: 6/12/2002
Date Received: 6/13/2002
P.O. Number: Sausage Factor

On June 13, 2002, samples were received under documentented chain of custody. Results for the following analyses are attached:

Matrix	Test	Method
Liquid	Gas/BTEX/MTBE	EPA 8015 MOD. (Purgeable)
		EPA 8020
	TPH as Diesel	EPA 8015 MOD. (Extractable)
	TRPH	SM 5520 C/F
Solid	EDF Deliverables	EDF
	EPA 8010 by EPA 8260B	EPA 8260B
	PDF	PDF
	TRPH	SM 5520 C/F

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

RECEIVED JUL 0 8 2002

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: 6/20/02
Date Received: 6/13/2002
Project Name: Sausage Factor
Project Number:
P.O. Number: Sausage Factor
Sampled By: W. McIntosh

Certified Analytical Report

Order ID: 30291 **Lab Sample ID:** 30291-001 **Client Sample ID:** SB-1 3-4

Sample Time: **Sample Date:** 6/12/2002 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1,1,1-Trichloroethane	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
1,1,2-Trichloroethane	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
1,1-Dichloroethane	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
1,1-Dichloroethene	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
1,2-Dichlorobenzene	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
1,2-Dichloroethane	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
1,2-Dichloropropane	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
1,3-Dichlorobenzene	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
1,4-Dichlorobenzene	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
Bromodichloromethane	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
Bromoform	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
Bromomethane	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
Carbon Tetrachloride	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
Chlorobenzene	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
Chloroethane	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
Chloroform	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
Chloromethane	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
cis-1,2-Dichloroethene	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
cis-1,3-Dichloropropene	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
Dibromochloromethane	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
Dichlorodifluoromethane	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
Methylene Chloride	ND		1	25	25	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
Tetrachloroethene	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
trans-1,2-Dichloroethene	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
trans-1,3-Dichloropropene	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
Trichloroethene	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
Trichlorofluoromethane	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B
Vinyl Chloride	ND		1	5	5	µg/Kg	6/13/2002	SMS21591C	EPA 8260B

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	134.0	73 - 151
Dibromofluoromethane	126.0	57 - 156
Toluene-d8	124.0	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: 6/20/02
Date Received: 6/13/2002
Project Name: Sausage Factor
Project Number:
P.O. Number: Sausage Factor
Sampled By: W. McIntosh

Certified Analytical Report

Order ID: 30291 **Lab Sample ID:** 30291-002 **Client Sample ID:** SB-2 4-5

Sample Time: **Sample Date:** 6/12/2002 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1,1,1-Trichloroethane	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
1,1,2-Trichloroethane	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
1,1-Dichloroethane	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
1,1-Dichloroethene	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
1,2-Dichlorobenzene	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
1,2-Dichloroethane	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
1,2-Dichloropropane	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
1,3-Dichlorobenzene	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
1,4-Dichlorobenzene	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
Bromodichloromethane	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
Bromoform	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
Bromomethane	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
Carbon Tetrachloride	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
Chlorobenzene	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
Chloroethane	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
Chloroform	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
Chloromethane	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
cis-1,2-Dichloroethene	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
cis-1,3-Dichloropropene	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
Dibromochloromethane	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
Dichlorodifluoromethane	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
Methylene Chloride	ND		1	25	25	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
Tetrachloroethene	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
trans-1,2-Dichloroethene	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
trans-1,3-Dichloropropene	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
Trichloroethene	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
Trichlorofluoromethane	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B
Vinyl Chloride	ND		1	5	5	µg/Kg	6/19/2002	SMS11597C	EPA 8260B

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	101.0	73 - 151
Dibromofluoromethane	107.0	57 - 156
Toluene-d8	109.0	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.

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

Date: 6/20/02
Date Received: 6/13/2002
Project Name: Sausage Factor
Project Number:
P.O. Number: Sausage Factor
Sampled By: W. McIntosh

Certified Analytical Report

Order ID: 30291 **Lab Sample ID:** 30291-001 **Client Sample ID:** SB-1 3-4
Sample Time: **Sample Date:** 6/12/2002 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TRPH	ND		1	25	25	mg/Kg	6/18/2002	6/18/2002	STRPHIR020618	SM 5520 C/F

Order ID: 30291 **Lab Sample ID:** 30291-002 **Client Sample ID:** SB-2 4-5
Sample Time: **Sample Date:** 6/12/2002 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TRPH	ND		1	25	25	mg/Kg	6/18/2002	6/18/2002	STRPHIR020618	SM 5520 C/F

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: 6/20/02
Date Received: 6/13/2002
Project Name: Sausage Factor
Project Number:
P.O. Number: Sausage Factor
Sampled By: W. McIntosh

Certified Analytical Report

Order ID: 30291 **Lab Sample ID:** 30291-004 **Client Sample ID:** SB-3

Sample Time: **Sample Date:** 6/12/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	1.7		2.5	0.5	1.25	µg/L	N/A	6/18/2002	WGC62470	EPA 8020
Toluene	ND		2.5	0.5	1.25	µg/L	N/A	6/18/2002	WGC62470	EPA 8020
Ethyl Benzene	4.1		2.5	0.5	1.25	µg/L	N/A	6/18/2002	WGC62470	EPA 8020
Xylenes, Total	ND		2.5	1	2.5	µg/L	N/A	6/18/2002	WGC62470	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	87.7	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		2.5	5	12.5	µg/L	N/A	6/18/2002	WGC62470	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	87.7	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel	990	x	1	63	63	µg/L	6/14/2002	6/18/2002	DW4192A	EPA 8015 MOD. (Extractable)

Surrogate	Surrogate Recovery	Control Limits (%)
o-Terphenyl	61.0	65 - 135

Comment: Reporting limit increased due to limited sample volume. Reported TPH as Diesel value is due to overlap from the Kerosene range into the Diesel quantitation range.

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	5900		2.5	50	125	µg/L	N/A	6/18/2002	WGC62470	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	97.8	65 - 135

Comment: Not a typical gasoline pattern; possibly a stoddard solvent.

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TRPH	ND		1	5	5	mg/L	6/18/2002	6/18/2002	WTRPHIR020618	SM 5520 C/F

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: 7/1/02
Date Received: 6/13/2002
Project Name: Sausage Factor
Project Number:
P.O. Number: Sausage Factor
Sampled By: W. McIntosh

Certified Analytical Report

Order ID: 30291 **Lab Sample ID:** 30291-003 **Client Sample ID:** SB-3 7-8

Sample Time: **Sample Date:** 6/12/2002 **Matrix:** Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		5	0.025	0.125	mg/Kg	N/A	6/24/2002	SGC12480	EPA 8020
Toluene	ND		5	0.025	0.125	mg/Kg	N/A	6/24/2002	SGC12480	EPA 8020
Ethyl Benzene	ND		5	0.025	0.125	mg/Kg	N/A	6/24/2002	SGC12480	EPA 8020
Xylenes, Total	ND		5	0.025	0.125	mg/Kg	N/A	6/24/2002	SGC12480	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	116.8	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		5	0.25	1.25	mg/Kg	N/A	6/24/2002	SGC12480	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	116.8	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel	14	x	1	1	1	mg/Kg	6/24/2002	6/25/2002	DS4172A	EPA 8015 MOD. (Extractable)

Surrogate	Surrogate Recovery	Control Limits (%)
o-Terphenyl	83.0	40 - 128

Comment: Reported TPH as Diesel value is the result of overlap from the Kerosene range into the Diesel quanitation range.

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	110		5	2.5	12.5	mg/Kg	N/A	6/24/2002	SGC12480	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	134.4	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: 6/20/02
Date Received: 6/13/2002
Project Name: Sausage Factor
Project Number:
P.O. Number: Sausage Factor
Sampled By: W. McIntosh

Certified Analytical Report

Order ID: 30291 **Lab Sample ID:** 30291-005 **Client Sample ID:** SB-4

Sample Time: 1:25 PM **Sample Date:** 6/12/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	2.5		1	0.5	0.5	µg/L	N/A	6/14/2002	WGC62467	EPA 8020
Toluene	0.65		1	0.5	0.5	µg/L	N/A	6/14/2002	WGC62467	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	6/14/2002	WGC62467	EPA 8020
Xylenes, Total	ND		1	1	1	µg/L	N/A	6/14/2002	WGC62467	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	113.3	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	µg/L	N/A	6/14/2002	WGC62467	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	113.3	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel	ND		1	50	50	µg/L	6/14/2002	6/18/2002	DW4192A	EPA 8015 MOD. (Extractable)

Surrogate	Surrogate Recovery	Control Limits (%)
o-Terphenyl	62.0	65 - 135

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	6/14/2002	WGC62467	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	110.7	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TRPH	ND		1	5	5	mg/L	6/18/2002	6/18/2002	WTRPHIR020618	SM 5520 C/F

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

Date: 6/20/02
Date Received: 6/13/2002
Project Name: Sausage Factor
Project Number:
P.O. Number: Sausage Factor
Sampled By: W. McIntosh

Certified Analytical Report

Order ID: 30291 **Lab Sample ID:** 30291-006 **Client Sample ID:** SB-5

Sample Time: **Sample Date:** 6/12/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	µg/L	N/A	6/14/2002	WGC62467	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	6/14/2002	WGC62467	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	6/14/2002	WGC62467	EPA 8020
Xylenes, Total	ND		1	1	1	µg/L	N/A	6/14/2002	WGC62467	EPA 8020

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

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	µg/L	N/A	6/14/2002	WGC62467	EPA 8020

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

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel	ND		1	50	50	µg/L	6/14/2002	6/18/2002	DW4192A	EPA 8015 MOD. (Extractable)

Surrogate	Surrogate Recovery	Control Limits (%)
o-Terphenyl	46.0	65 - 135

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	6/14/2002	WGC62467	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	85.6	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TRPH	ND		1	5	5	mg/L	6/18/2002	6/18/2002	WTRPHIR020618	SM 5520 C/F

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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Quality Control Results Summary

QC Batch #: DW4192A
Matrix: Liquid
Units: µg/L
Date Analyzed: 6/18/2002

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: TPH as Diesel											
TPH as Diesel	EPA 8015 M	ND		1000		1079.65	LCS	108.0			44.3 - 137.5
	Surrogate		**Surrogate Recovery**			**Control Limits (%)**					
	o-Terphenyl		104.0			32 - 145					
Test: TPH as Diesel											
TPH as Diesel	EPA 8015 M	ND		1000		1016.57	LCSD	101.7	6.02	25.00	44.3 - 137.5
	Surrogate		**Surrogate Recovery**			**Control Limits (%)**					
	o-Terphenyl		103.0			32 - 145					

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Quality Control Results Summary

QC Batch #: SMS11597C
Matrix: Solid
Units: µg/Kg
Date Analyzed: 6/19/2002

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: EPA 8010 by EPA 8260B											
1,1-Dichloroethene	EPA 8260B	ND		20		16.2	LCS	81.0			65.0 - 135.0
Chlorobenzene	EPA 8260B	ND		20		18.8	LCS	94.0			65.0 - 135.0
Trichloroethene	EPA 8260B	ND		20		20.7	LCS	103.5			65.0 - 135.0

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	101.0	73 - 151
Dibromofluoromethane	98.0	57 - 156
Toluene-d8	108.0	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 8010 by EPA 8260B											
1,1-Dichloroethene	EPA 8260B	ND		20		14.3	LCSD	71.5	12.46	30.00	65.0 - 135.0
Chlorobenzene	EPA 8260B	ND		20		18.8	LCSD	94.0	0.00	30.00	65.0 - 135.0
Trichloroethene	EPA 8260B	ND		20		20.7	LCSD	103.5	0.00	30.00	65.0 - 135.0

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	100.0	73 - 151
Dibromofluoromethane	94.0	57 - 156
Toluene-d8	110.0	77 - 150

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Quality Control Results Summary

QC Batch #: STRPHIR020618 **Units:** mg/Kg
Matrix: Solid **Date Analyzed:** 6/18/2002

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: TRPH											
TRPH	SM 5520 C/F	ND		261		272.	LCS	104.2			50.0 - 150.0
Test: TRPH											
TRPH	SM 5520 C/F	ND		261		250.	LCSD	95.8	8.43	30.00	50.0 - 150.0

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Quality Control Results Summary

QC Batch #: WGC62467 **Units:** µg/L
Matrix: Liquid **Date Analyzed:** 6/13/2002

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		100		123.	LCS	123.0			65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			92.3			65 - 135					
Test: BTEX											
Benzene	EPA 8020	ND		8		7.6	LCS	95.0			65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		7.95	LCS	99.4			65.0 - 135.0
Toluene	EPA 8020	ND		8		7.74	LCS	96.8			65.0 - 135.0
Xylenes, total	EPA 8020	ND		24		23.6	LCS	98.3			65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			103.4			65 - 135					
Test: MTBE by EPA 8020											
Methyl-t-butyl Ether	EPA 8020	ND		8		7.78	LCS	97.3			65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			103.4			65 - 135					
Test: TPH as Gasoline											
TPH as Gasoline	EPA 8015 M	ND		100		125.	LCSD	125.0	1.61	25.00	65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			95.0			65 - 135					
Test: BTEX											
Benzene	EPA 8020	ND		8		7.78	LCSD	97.3	2.34	25.00	65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		8.15	LCSD	101.9	2.48	25.00	65.0 - 135.0
Toluene	EPA 8020	ND		8		7.8	LCSD	97.5	0.77	25.00	65.0 - 135.0
Xylenes, total	EPA 8020	ND		24		24.4	LCSD	101.7	3.33	25.00	65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			101.6			65 - 135					
Test: MTBE by EPA 8020											
Methyl-t-butyl Ether	EPA 8020	ND		8		8.05	LCSD	100.6	3.41	25.00	65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			101.6			65 - 135					

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Quality Control Results Summary

QC Batch #: WTRPHIR020618 **Units:** mg/L
Matrix: Liquid **Date Analyzed:** 6/18/2002

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: TRPH											
TRPH	EPA 418.1	ND		20.9		23.5	LCS	112.4			50.0 - 150.0
Test: TRPH											
TRPH	EPA 418.1	ND		20.9		22.5	LCSD	107.7	4.35	25.00	50.0 - 150.0

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Quality Control Results Summary

QC Batch #: SGC12480 **Units:** mg/kg
Matrix: Solid **Date Analyzed:** 6/24/2002

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		6		6.518	LCS	108.6			65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			117.2			65 - 135					
Test: BTEX											
Benzene	EPA 8020	ND		0.4		0.376	LCS	94.0			55.0 - 153.0
Ethyl Benzene	EPA 8020	ND		0.4		0.405	LCS	101.3			58.4 - 116.0
Toluene	EPA 8020	ND		0.4		0.367	LCS	91.8			56.1 - 127.0
Xylenes, total	EPA 8020	ND		1.2		1.216	LCS	101.3			64.9 - 130.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			106.3			65 - 135					
Test: TPH as Gasoline											
TPH as Gasoline	EPA 8015 M	ND		6		6.487	LCSD	108.1	0.48	30.00	65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			113.6			65 - 135					
Test: BTEX											
Benzene	EPA 8020	ND		0.4		0.401	LCSD	100.3	6.44	30.00	55.0 - 153.0
Ethyl Benzene	EPA 8020	ND		0.4		0.435	LCSD	108.7	7.14	30.00	58.4 - 116.0
Toluene	EPA 8020	ND		0.4		0.39	LCSD	97.5	6.08	30.00	56.1 - 127.0
Xylenes, total	EPA 8020	ND		1.2		1.308	LCSD	109.0	7.29	30.00	64.9 - 130.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			107.5			65 - 135					

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Quality Control Results Summary

QC Batch #: SMS21591C
Matrix: Solid
Units: µg/Kg
Date Analyzed: 6/13/02

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		38.9	LCS	97.3			65.0 - 135.0
Benzene	EPA 8260B	ND		40		44.6	LCS	111.5			65.0 - 135.0
Chlorobenzene	EPA 8260B	ND		40		40.3	LCS	100.8			65.0 - 135.0
Methyl-t-butyl Ether	EPA 8260B	ND		40		42.2	LCS	105.5			55.0 - 131.0
Toluene	EPA 8260B	ND		40		42.5	LCS	106.3			65.0 - 135.0
Trichloroethene	EPA 8260B	ND		40		45.3	LCS	113.3			70.8 - 121.0

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	134.0	73 - 151
Dibromofluoromethane	127.0	57 - 156
Toluene-d8	123.0	77 - 150

Test: EPA 8260B											
1,1-Dichloroethene	EPA 8260B	ND		40		39.	LCSD	97.5	0.26	30.00	65.0 - 135.0
Benzene	EPA 8260B	ND		40		44.6	LCSD	111.5	0.00	30.00	65.0 - 135.0
Chlorobenzene	EPA 8260B	ND		40		38.7	LCSD	96.8	4.05	30.00	65.0 - 135.0
Methyl-t-butyl Ether	EPA 8260B	ND		40		41.8	LCSD	104.5	0.95	30.00	55.0 - 131.0
Toluene	EPA 8260B	ND		40		41.3	LCSD	103.2	2.86	30.00	65.0 - 135.0
Trichloroethene	EPA 8260B	ND		40		44.6	LCSD	111.5	1.56	30.00	70.8 - 121.0

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	134.0	73 - 151
Dibromofluoromethane	126.0	57 - 156
Toluene-d8	124.0	77 - 150

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Quality Control Results Summary

QC Batch #: WGC62470 **Units:** µg/L

Matrix: Liquid **Date Analyzed:** 6/17/02

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		100		125.4	LCS	125.4			65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			92.3			65 - 135					
Test: BTEX											
Benzene	EPA 8020	ND		8		7.72	LCS	96.5			65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		8.14	LCS	101.8			65.0 - 135.0
Toluene	EPA 8020	ND		8		7.84	LCS	98.0			65.0 - 135.0
Xylenes, total	EPA 8020	ND		24		24.6	LCS	102.5			65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			101.2			65 - 135					
Test: MTBE by EPA 8020											
Methyl-t-butyl Ether	EPA 8020	ND		8		7.63	LCS	95.4			65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			101.2			65 - 135					
Test: TPH as Gasoline											
TPH as Gasoline	EPA 8015 M	ND		100		124.	LCSD	124.0	1.12	25.00	65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			92.0			65 - 135					
Test: BTEX											
Benzene	EPA 8020	ND		8		7.41	LCSD	92.6	4.10	25.00	65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		7.62	LCSD	95.3	6.60	25.00	65.0 - 135.0
Toluene	EPA 8020	ND		8		7.43	LCSD	92.9	5.37	25.00	65.0 - 135.0
Xylenes, total	EPA 8020	ND		24		23.2	LCSD	96.7	5.86	25.00	65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			100.7			65 - 135					
Test: MTBE by EPA 8020											
Methyl-t-butyl Ether	EPA 8020	ND		8		7.36	LCSD	92.0	3.60	25.00	65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			100.7			65 - 135					

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: DAVE SIEGEL	Phone No.: #510 247 9885	Purchase Order No.:	Send Invoice to (if Different): Phone:
Company Name: ERAS	Fax No.: 510 886 5399	Project Number:	Company:
Mailing Address: 20861 Wilbeam #4		Project Name: Sausagefactor	Billing Address (if Different):
City: Castro Valley	State: CA Zip: 94546	Project Location: 1173 28th St	City: State: Zip:

Sampler: JBK

Date: 6/12/02

Turn Around Time: Same Day ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ Standard ☐ 5 DAY

Order ID:

Analyses (columns 1–17): 1 = Volatile Organics by GC/MS 624 ☐ 8240 ☐; 2 = Fuel Oxygenates by 8260B ☐ MTBE by 8260B ☐ Freon 113 ☐ 8260B ☐; 3 = Pesticides-8081 ☐ PCBs-8082 ☐; 4 = Halogenated or Aromatic Volatiles: 601/8010 ☑ 602/8020 ☐; 5 = TPH as Gas/BTEX ☐ TPH as Gas/BTEX/MTBE ☑ F113 ☐ 8021 ☐; 6 = Base/Neutral/Acid Organics 8270 ☐ 8270-SIMS ☐; 7 = Fuel Scan; 8 = Diesel ☑ w/ Si-gel Standard Cleanup ☐ w/ Si-gel Column Cleanup ☐; 9, 10 = blank; 11 = TRPH ☑ Oil & Grease ☐; 12, 13 = blank; 14 = THM (502.2); 15 = Metals - Circle Below Total ☐ Dissolved ☐; 16, 17 = blank

Client ID	Laboratory No.	Date	Time	Matrix	Composite	Grab	Containers	Preservative	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Remarks
SB-1 3-4	30291	6/12	SOIL	S		✓	1	NA				X							X	[illegible]						
SB-2 4-5		6/12	SOIL	S		✓	1					X	NA			NA			X	NA						
SB-3 7-8		6/12	SOIL	S		✓	1	←					X			X (NA)										→ HOLD SOIL
SB-3		6/12		W		✓	3									X			X							LITERS
SB-3		6/12		W			6						X	NA												VOA'S
SB-4		6/12	1325	W			3									X			X							LITERS
SB-5		6/12		W			3									X			X							LITERS
SB-4		6/12		W			7						X	NA												VOA'S
SB-5		6/12		W		↑	7						X	NA												VOA'S

Relinquished by:	Received by:	Date:	Time:
[signature]	Steve	6/13/02	855
Relinquished by:	Received by:	Date:	Time:
Relinquished by:	Received by:	Date:	Time:
Relinquished by:	Received by:	Date:	Time:

Special Instructions or Comments ☐ NPDES Detection Limits

GEOTRACKER EDF to ~~gailjo~~ gailjones@sonnet.net

Metals: 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 : CAM-17 ☐ Plating ☐ PPM-13 ☐ LUFT-5 ☐

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: DAVE SIEGEL	Phone No.: 510 2479885	Purchase Order No.:	Send Invoice to (If Different): / Phone
Company Name: ERAS	Fax No.: 510 8865399	Project Number:	Company
Mailing Address: 20861 Wilbeam #4		Project Name: SausageFactor	Billing Address (If Different)
City: Castro Valley	State: CA / Zip: 94546	Project Location: 1173 28th St	City: / State / Zip

Sampler: WKM

Date: 6/12/02

Turn Around Time: 5DAY –
Same Day ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ Standard ☐

Order ID:

Client ID	Laboratory No.	Sampling Date	Sampling Time	Matrix	Composite	Grab	Containers	Preservative	Volatile Organics by GCMS: 624 ☐ 8240 ☐ Freon 113 ☐ 8260B ☐	Fuel Oxygenates by 8260B ☐ MTBE by 8260B ☐	Pesticides-8081 ☐ PCBs - 8082 ☐	Halogenated or Aromatic Volatiles: 601/8010 ☑ 602/8020 ☐ F113 ☐	TPH as Gas/BTEX ☐ 8021 ☐ TPH as Gas/BTEX/MTBE ☑	Base/Neutral/Acid Organics 8270 ☐ 8270-SIMS ☐	Fuel Scan	Diesel ✓	w/ Si-gel Standard Cleanup ☐ w/ Si-gel Column Cleanup ☐		TRPH ☑ Oil & Grease ☐			THM (502.2)	Metals - Circle Below Total ☐ Dissolved ☐			Remarks
SB-1 3-4	30291-001	6/12	SOIL	S		✓	1	NA				X														
SB-2 4-5	002	6/12	SOIL	S		✓	1					X														
SB-3 7-8	003	6/12	SOIL	S		✓	1	←																		→ HOLD SOIL
SB-3	004	6/12		W		✓	3							JM		X			X							LITERS
SB-3	004	6/12		W			6						X	JM												VOA'S
SB-4	005	6/12	1325	W			3									X			X							LITERS
SB-5	006	6/12		W			3							JM		X			X							LITERS
SB-4	005	6/12		W			7						X	JM												VOA'S
SB-5	006	6/12		W			7						X	JM												VOA'S

Relinquished by:	Received by:	Date:	Time:
W. Skip McIntosh	Steve	6/13/02	855
	Jwadieh	6/13/02	1130

Special Instructions or Comments ☐ NPDES Detection Limits

GEOTRACKER EDF to GMJones@sonnet.com
~~gailjones@sonnet.net~~

Metals: 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 : CAM-17 ☐ Plating ☐ PPM-13 ☐ LUFT-5 ☐