

July 2, 2002

Leroy Griffin
Oakland Fire Prevention Bureau
505 14th Street
Oakland, CA 94612

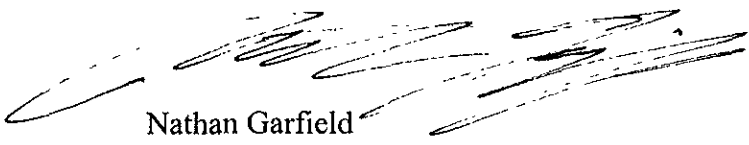
Subject: Final Report and Over Excavation Workplan
2201 West Street
Oakland, CA
AEI Project No. 5251

Dear Inspector Griffin:

Enclosed is the final report for 2201 West Street. Also enclosed is the work plan for the over excavation. After speaking with Dusty and our phase II person, I did not include soil borings in the work plan since we will be taking all the soil possible due to the constricted location of the excavation.

Please call me at (925) 283-6000 if you have any questions.

Sincerely,



Nathan Garfield
Project Manager

02 JUL 8 10 20
O.S.
E. J. GARFIELD

July 2, 2002

**UNDERGROUND STORAGE TANK REMOVAL
FINAL REPORT**

2201 West Street
Oakland, California

July 2002

Project No. 5251

Prepared For

Santilli and Forster Construction
111 Myrtle Street
Oakland, CA 94607

Prepared By

AEI Consultants
3210 Old Tunnel Road, Suite B
Lafayette, CA 94549
(800) 801-3224

AEI

TABLE OF CONTENTS

1.0 INTRODUCTION.....	1
2.0 PERMITS	1
3.0 MOBILIZATION, EXCAVATION AND REMOVAL.....	1
4.0 SAMPLING AND ANALYSES	2
TABLE 1 - Soil Sample Analyses.....	2
5.0 CONTAMINATED SOIL EXCAVATION AND DISPOSAL	3
6.0 SUMMARY AND CONCLUSIONS	3
7.0 REPORT LIMITATIONS AND SIGNATURES.....	4

LIST OF FIGURES

- 1 SITE LOCATION PLAN
- 2 SITE PLAN
- 3 SAMPLE LOCATION MAP

APPENDICES

- A PERMITS AND NOTIFICATION DOCUMENTS
- B SITE HEALTH AND SAFETY PLAN
- C TRANSPORT AND DISPOSAL DOCUMENTS
- D ANALYTICAL DOCUMENTATION

AEI

1.0 INTRODUCTION

AEI Consultants (AEI) has prepared this final report to document the underground storage tank closure activities performed at 2201 West Street in Oakland, California (Figure 1: Site Location Map). One (1) 300-gallon diesel underground storage tank (UST) was removed. The tank was located on the northwest corner of the property (Figure 2: Site Plan).

AEI was contracted to obtain all necessary permits, excavate to expose the tank, remove and dispose of residual liquids, remove and dispose the tank, perform soil sampling and analysis, backfill and resurface the excavation.

2.0 PERMITS

On June 3, 2002 the Oakland Fire Services Agency Office of Emergency Services (OFSA) issued a permit for the removal of the UST. Inspector Leroy Griffin was assigned to represent the OFSA, and observed the tank closure activities at the site. On June 12, 2002, Cal OSHA and the Bay Area Air Quality Management District (BAAQMD) were notified of the tank removal activities. The excavation areas were marked and the property representative was notified of the specific time plan.

Copies of the permit and notification documents are located in Appendix A: Permits and Notification Documents.

3.0 MOBILIZATION, EXCAVATION AND REMOVAL

On June 19, 2002, the AEI field staff was briefed and the Site Health and Safety Plan reviewed prior to the initiation of work. A copy of the Site Health and Safety Plan is located in Appendix B. Ground cover was broken and the soil above the tank was excavated. Upon exposure it was determined that the tank was 300 gallons in size, and not the originally estimated 500 gallons. A single stockpile of the excavated soil was created adjacent to the excavation (Figure 2: Site Plan).

Excel Environmental Services, Inc. removed 75 gallons of waste liquid from the tank prior to removal. Dry ice was introduced into the tank until the Lower Explosive Limit (LEL) and oxygen content reached acceptable levels.

The tank was removed on June 19, 2002, and was visually inspected prior to loading for transport. The tank was rectangular in shape and constructed of unwrapped steel. Corrosion and several small holes were noted on the top of the tank and the upper portion of the sidewalls.

The tank was loaded onto an Ecology Control Industries (ECI) truck and transported under non-hazardous waste manifest to the ECI disposal facility at 255 Parr Boulevard in Richmond, California, where the tank was triple rinsed, cut, and scrapped.

AEI

Soil samples were collected prior to backfilling. The excavation was lined with Visqueen, then backfilled with stockpiled soil and clean fill material to replace the volume of the tank.

The non-hazardous waste manifests for the waste liquid and tank are located in Appendix C: Transport and Disposal Documents.

4.0 SAMPLING AND ANALYSES

All samples were collected under the direction of Inspector Leroy Griffin of the OFSA. A total of two (2) soil samples were collected from the tank removal activities. One sample, labeled EB-9', was collected nine (9) feet below ground surface (bgs) beneath the center of the tank. four (4) discrete soil samples were collected from the stockpile, and were composited into a single sample (STKP 1-4) for analysis. Please refer to Figure 3: Sample Location Plan for the sample locations.

Native material consisted of silty clays. Groundwater was not encountered during the removal activities.

All soil samples were collected in brass tubes that were driven into the soil until completely full, then sealed with Teflon tape and plastic caps. The secured sample tubes were immediately placed into a cooler with ice. Chain of Custody documentation was initiated. The cooler and samples were brought to McCampbell Analytical, Inc. (State Certification #1644) of Pacheco, California on June 19, 2002 for analysis.

The samples were analyzed for Total Petroleum Hydrocarbons as gasoline (EPA 8015), Total Petroleum Hydrocarbons as diesel (EPA 8015), Total Petroleum Oil and Grease (SM 5520E/F), methyl-tert-butyl ether (MTBE), benzene, toluene, ethyl-benzene, and xylenes (BTEX) (EPA Method 602/8020), volatile organics (EPA 8260), and volatile halocarbons (EPA 8010). The analytical results are summarized in the following table:

TABLE 1 - Soil Sample Analyses

	EB-9'	STKP 1-4
TPH-GASOLINE (mg/kg)	<1.0	<1.0
TPH-DIESEL (mg/kg)	660	160
MTBE (mg/kg)	<5.0	<0.5
BENZENE (mg/kg)	1.5	<0.05
TOLUENE (mg/kg)	3.1	<0.05
ETHYL BENZENE (mg/kg)	20	0.098
TOTAL XYLENES (mg/kg)	63	0.32
ISOPROPYL BENZENE (mg/kg)	4.2	ND<0.1
NAPHTHELENE (mg/kg)	10	ND<0.1
1,2,4-TRIMETHYLBENZENE (mg/kg)	43	ND<0.1
4-ISOPROPYL TOLUENE (mg/kg)	5.2	ND<0.1

AEI

	EB-9'	STKP 1-4
n-PROPYL BENZENE (mg/kg)	8.5	ND<0.1
1,3,5-TRIMETHYLBENZENE (mg/kg)	19	ND<0.1

mg/kg = milligrams per kilogram (ppm)

Copies of all analytical results and Chain of Custody documentation are located in Appendix D: Analytical Documentation.

5.0 CONTAMINATED SOIL EXCAVATION AND DISPOSAL

Due to the presence of hydrocarbon contamination, the OFSA has requested the contaminated soil be over excavated and replaced with clean fill material. AEI will prepare a workplan and issue a report for over excavation activities under separate cover.

6.0 SUMMARY AND CONCLUSIONS

On June 19, 2002, a 300-gallon diesel UST was removed from the property located at 2201 West Street in Oakland, California. Prior to removal, 75 gallons of waste liquid were removed, transported and disposed off-site. The tank was transported under non-hazardous waste manifest to the Ecology Control Industries' disposal facility in Richmond, California where the tank was cleaned and disposed of as scrap metal.

A total of two (2) soil samples were collected during the tank removal activities. Concentrations of TPH (d) present in EB-9' (660 mg/kg) and STKP 1-4 (160 mg/kg) indicate that contamination exists. Sample EB-9' also contained detectable levels of volatile organics.

Based on sample analytical results, the OFSA has requested that contaminated soil be excavated and disposed at a licensed landfill. AEI will prepare a workplan for these activities and issue a report under separate cover.

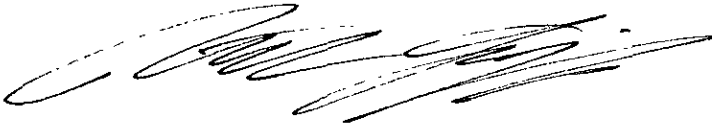
AEI

7.0 REPORT LIMITATIONS AND SIGNATURES

This report presents a summary of work completed by AEI Consultants, including observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required information, but it cannot be assumed that they are representative of areas not sampled. All conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

All services were performed in accordance with generally accepted practices, in the environmental engineering and construction field, which existed at the time and location of the work.

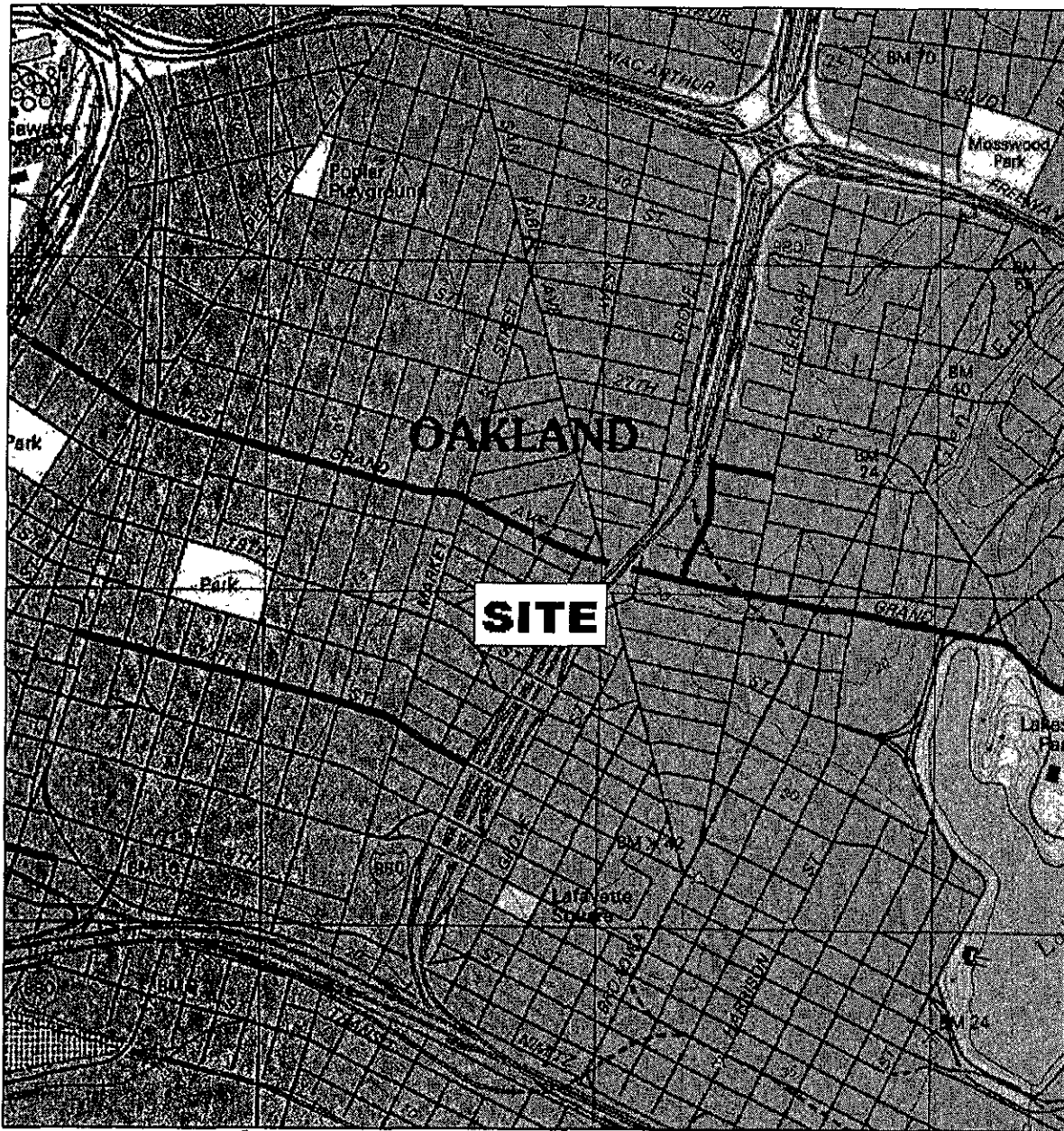
AEI Consultants



Nathan Garfield
Staff Geologist

AEI

FIGURES

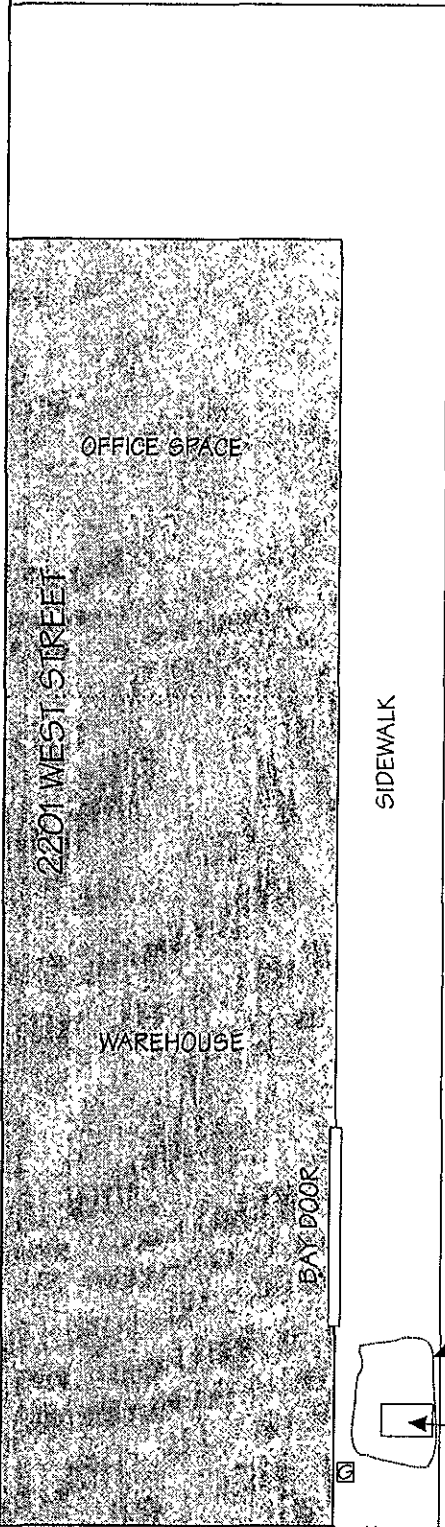


TN * MN
15 1/2°

0 5 1 MILE
0 1000 FEET 0 500 1000 METERS
Printed from TOPO! ©2001 National Geographic Holdings (www.topo.com)

AEI CONSULTANTS 3210 OLD TUNNEL RD, STE B, LAFAYETTE, CA	
SITE LOCATION MAP	
2201 WEST STREET OAKLAND, CALIFORNIA	FIGURE 1 PROJECT No. 5251

WEST STREET



SIDEWALK

22ND STREET

2201 WEST STREET

OFFICE SPACE

WAREHOUSE

BAY DOOR

EXCAVATION BOUNDARY

LOCATION OF 300-GALLON UST

FENCE

KEY

PG&E GAS METER



AEI Consultants

3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

SCALE: 1"=15'

DRAWN BY: NATHAN GARFIELD

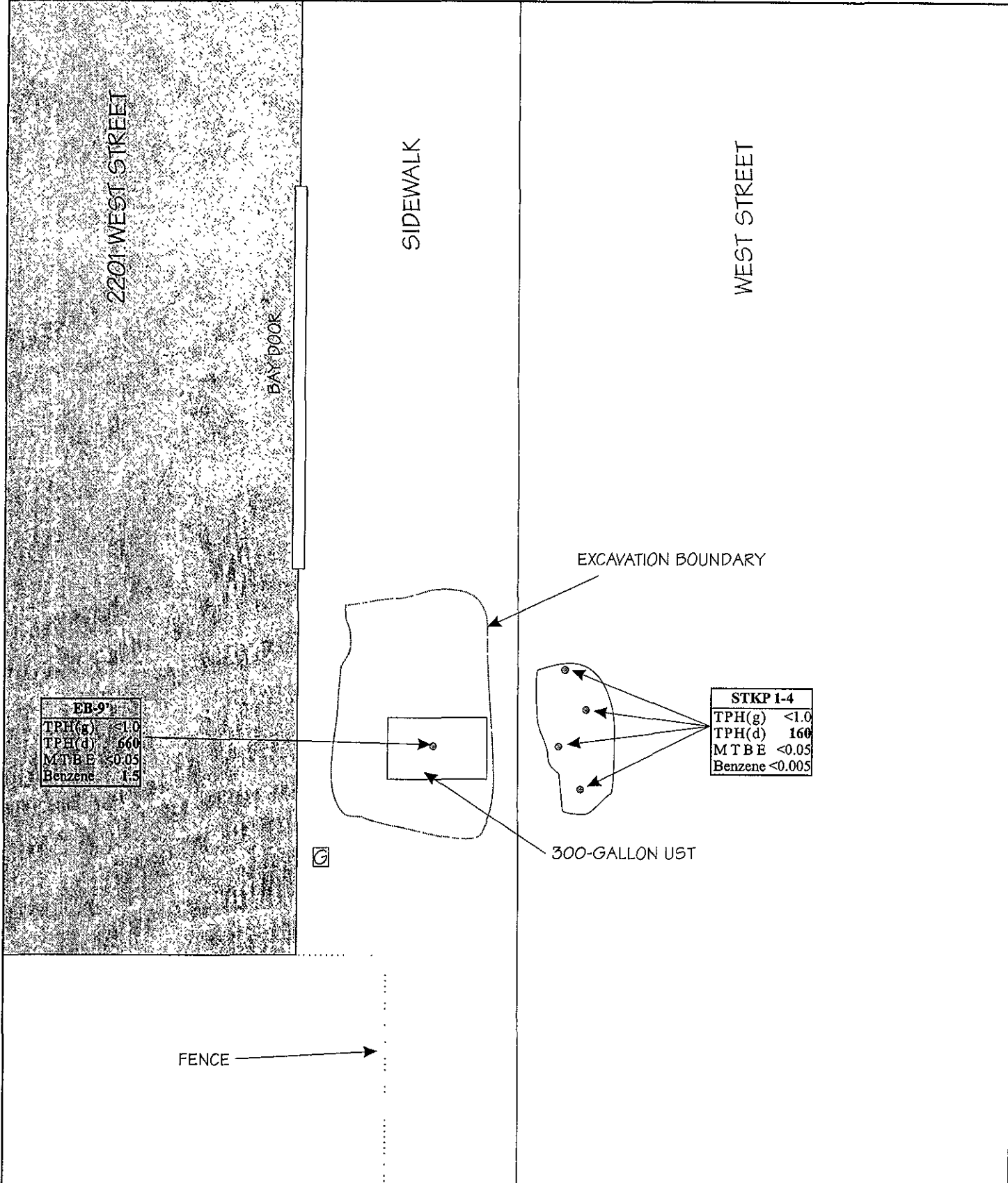
DATE: 7/2/02

SITE MAP

2201 WEST STREET
OAKLAND, CALIFORNIA

DRAWING NUMBER

FIGURE 2




KEY

- SOIL SAMPLE LOCATION

TPH(g) TOTAL PETROLEUM HYDROCARBON AS GASOLINE
 TPH(d) TOTAL PETROLEUM HYDROCARBON AS DIESEL
 MTBE METHYL TERTIARY BUTYL ETHER

SOIL SAMPLE RESULTS IN mg/kg

 PG&E GAS METER

AEI Consultants
 3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

SCALE: NOT TO SCALE | DRAWN BY: NATHAN GARFIELD | DATE: 7/2/02

SAMPLE LOCATION MAP

2201 WEST STREET
 OAKLAND, CALIFORNIA

DRAWING NUMBER:
FIGURE 3

APPENDIX A

PERMITS AND NOTIFICATION DOCUMENTS

City Of Oakland
FIRE PREVENTION BUREAU
250 Frank Ogawa Plaza, Ste. 3341
Oakland California 94612-2032
510-238-3851



*Permit To Excavate And Install, Repair,
Or Remove Inflammable Liquid Tanks*

Oakland, California June 3, 2002

Tank Permit Number: 33-02

Permission Is Hereby Granted To:

Remove fuel oil Tank And Excavate Commencing: Feet Inside: property Line.

On The: W side of West street, 200 feet N of 22nd Street

Site Address: 2201 West Street Present Storage: Fuel Oil

Owner: Santilli & Foster Construction Address: 111 Myrtle St., #201B, Oakland, 94607 Phone: (510) 893-4969

Applicant: AEI Consultants Address: 3201 Old Tunnel Rd., Lafayette, 94549 Phone: (925) 283-6000

Dimensions Of Street (sidewalk) Surface To Be Disturbed : X No. Of Tanks 1 Capacity 500 Gallons, Each

Remarks

This Permit Is Granted In Accordance With Existing City Ordinances. Owner Hereby Agrees To Remove Tanks On Discontinuance Of Use Or When Notified By The City Authorities When Installing, Removing Or Repairing Tanks, No Open Flame To Be On Or Near Premises.

CERTIFICATE OF TANK AND EQUIPMENT INSPECTION

Type Of Inspection:

Inspected And Passed On: _____

Approved: Jandra K. McLaughlin
Fire Marshal

UST/AST Installations/modifications: By: _____

Inspection Fee Paid: \$ 540.00

Pressure Test: Inspected By: _____ Date: _____

Primary Piping Test: Inspected By: _____ Date: _____

Received By: ck#4540 rec#841056 McC

Secondary Containment & Sump Testing: _____

Inspected By: _____ Date: _____

Final: Inspected By: _____ Date: _____

Before Covering Tanks, Above Certification Must Be Signed When Ready For Inspection Notify Fire Prevention Bureau 238-3851

THIS PERMIT MUST BE LEFT ON THE WORK SITE AS AUTHORITY THEREFORE

**OAKLAND FIRE DEPARTMENT/OFFICE OF EMERGENCY SERVICES
HAZARDOUS MATERIALS UNIT**

1605 Martin Luther King Jr. Way, Oakland, CA 94612 • (510) 238-3938

HAZARDOUS MATERIALS INSPECTION REPORT

Site Number	Facility Name	Facility Address	Zip Code
		2201 WEST ST	94607

Inspection Report

PERMISSION TO INSPECT GRANTED

FCI - MANIFEST TANK - 21395035 MANIFEST LR
REMOVAL OF UST AT 2201 WEST ST. AEI
CONSULTING ON SITE.

TANK IS A SMOOTH STEEL UNWRAPPED. CORROSION
AND HOLES WERE NOTED ON THE UPPER SECTION.

DISCOLORATION NOTED IN EXCAVATION, PIT LINED
WITH PLASTIC AND BACKFILL PLACED BACK AWAITING TEST RESULTS
* NEED TO AMEND PERMIT TO TEST FOR VOC
DUE TO POSSIBLE USE OF SOLVENTS IN THE TANK

TANK # 29797 FCI

NO OTHER PROBLEMS NOTED

Facility Contact/Print Name:

Facility Contact/Signature:

Inspected By:

GRIFFIN

Insp. Matthews

Insp. Craford

Insp. Gomez

238-2396

238-7758

238-7253

238-3938

Date: 6/19/02

**OAKLAND FIRE DEPARTMENT, OES
UNDERGROUND STORAGE TANK CLOSURE/REMOVAL FIELD INSPECTION REPORT**

Site Address: <u>2201 WEST</u>	Name of Facility: <u>CONFIDENTIAL COLOR</u>
Inspector: <u>ME...</u>	Contact on site: <u>AEI CONSULTING</u>
Date and Time of Arrival: <u>4/19/02 / 11:15</u>	Contractor/Consultant:

General Requirements	Yes	No	N/A
Approved closure plan on site.			
Changes to approved plan noted.			
Residuals properly stored/transported.			
Receipt for adequate dry ice noted.			

General Requirements	Yes	No	N/A
Site Safety Plan properly signed.	✓		
40B:C fire extinguisher on site.	✓		
"No Smoking" signs posted.	✓		
Gas detector challenged by inspector.	✓		

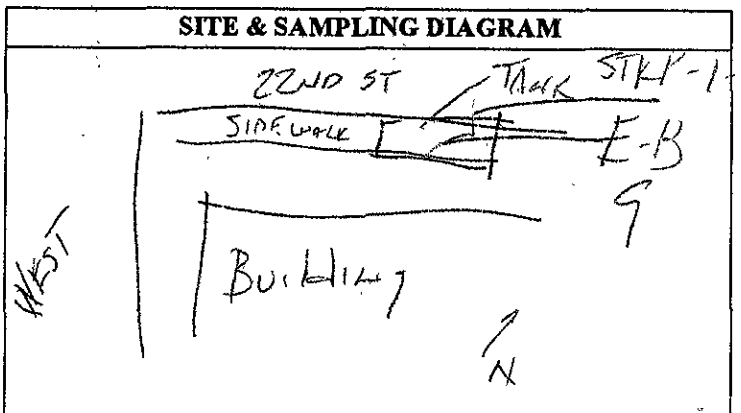
Tank Observations	T #1	T #2	T #3	T #4
Tank Capacity (gallons)				
Material last stored	?			
Dry ice used (pounds)	100 lb			
Combustible gas concentration as %LEL. (Note time & sampling point)				
(1)	2			
(2)				
(3)				
Oxygen concentration as % volume. (Note time & sampling point)				
(1)	D			
(2)				
(3)				
Tank Material	STEEL			
Wrapping/Coating, if any	NONE			
Obvious holes?				

Tank Observations	T #1	T #2	T #3	T #4
Obvious corrosion?	YES			
Obvious odors from tank?	YES			
Seams intact?	YES			
Tank bed backfill material				
Obvious discoloration?	YES			
Obvious odors ex tank bed?	YES			
Water in excavation?	ND			
Sheen/product on water?	N/A			
Tank tagged by transporter?	YES			
Tank wrapped for transport?	YES			
Tank plugged w/ vent cap?	YES			
Date/time tank hauled off?				
No. of soil samples taken?	2			
Depth of soil samples (ft. bgs)	7 FT			

Piping Removal	Yes	No	N/A
All piping removed hauled off w/ tanks?	X		
Obvious holes on pipes?		X	1
Obvious odors from pipes?	✓		
Obvious soil discoloration in piping trench?	X		
Obvious odors from piping trench?		✓	
Water in piping trench?		✓	
Number & depth of soil samples from piping trench?			
Number & depth of water samples from piping trench?			

General Observations	Yes	No	N/A
Leak from any tank suspected?			
"Leak Report" form given to the operator?			
Obviously contaminated soil excavated?	✓		
Soil stockpile sampled?	✓		
Stockpile lined AND covered?	✓		
Water in excavation sampled?		✓	
Number/depth of water samples taken?		N/A	
All samples properly preserved for transport?	✓		

Additional Observations	Yes	No	N/A
Soil/water sampling protocols acceptable?	✓		
Sampling "chain of custody" noted?	✓		
Tank pit filled in or covered?	✓		
Tank pit fenced or barricaded?	✓		
Transporter a registered HW hauler?	✓		
Uniform HW Manifest completed?	✓		
Contractor/Consultant reminded of complete UST Removal Report due within 30 days?	✓		
Date/Time removal/closure operations completed?			
OT hours or additional charges due from contractor?		φ	



Notes/Comments: Add sampling for VOC TO TEST,



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 ELLIS STREET
SAN FRANCISCO, CALIFORNIA 94109
(415) 771-6000

REGULATION 8, RULE 40 NOTIFICATION FORM

- Check Removal or Replacement of Tanks
 Excavation of Contaminated Soil

SITE INFORMATION

Site Address 2201 West Street
 City, State Oakland California Zip 94612
 Owner Name Santilli & Forster Construction
 Specific location of project southwest side of property, under sidewalk

<u>Tank Removal</u>	<u>Contaminated Soil Excavation</u>
Scheduled startup date <u>6/19/02</u>	Scheduled Startup Date <u>6/19/02</u>
Vapors removed by: <input type="checkbox"/> Water wash <input checked="" type="checkbox"/> Vapor freeing (CO ²) <input type="checkbox"/> Ventilation	Stockpiles will be covered? Yes _____ No _____
Indicate below if an A/C was obtained for tank replacement: Yes _____ No _____ If yes, A/C or P/O # _____	Indicate below the method used to comply with Regulation 8, Rule 40, Section 402.4: Check (v) 8-40-301 <input type="checkbox"/> 8-40-302 <input type="checkbox"/> (permit required) A/C or P/O # _____ A/C = Authority to Construct P/O = Permit to Operate

What other public agency have you notified (e.g., Fire District, Hazardous Materials Department, City or County)?
 Agency Leroy Griffin Contact City of Oakland Fire Services Agency Phone # (510) 238-7759

CONTRACTOR INFORMATION

Name AEI Consultants Contact Nathan Garfield
 Address 3210 Old Tunnel Road, Suite B Phone (925) 283-6000
 City, State, Zip Lafayette, CA 94549

CONSULTANT INFORMATION (if applicable)

Name same as contractor Contact _____
 Address _____ Phone () _____
 City, State, Zip _____

WORK SHEET (USE ONLY)

Date Received Fax:	Date Postmarked:
Inspector No.:	Date: _____ By: _____
Update: Contact Name	Date: _____ By: _____
Update: Contact Name	Date: _____ By: _____

ACTIVITY NOTIFICATION FORM

Buildings Structures Scaffolding Falsework Demolition Trenches/Excavations

Company Name: All Environmental Inc. Field Phone: (925) 283-6000
Annual Permit Number: 99-900632 Office Phone: (925) 283-6000
Specific Activity Location: 2201 West Street Number of Employees: 3
Nearest Major Cross Street: 22nd Street Starting Date: 6/19/02
City: Oakland Anticipated Completion Date: 6/19/02
County: Alameda High Voltage Lines in Proximity? No X Yes

INSTRUCTIONS: The appropriate item(s) must be completed and signed by a person knowledgeable about the project for each activity covered by a permit. Please fill in or check off the blanks where appropriate.

Construction: Building _____ Structure _____ Type: Steel Frame _____ Tiered _____ Concrete _____
Tilt-up _____ Wood Frame _____ Liftslab _____ Precast _____ Slip Form _____ Depth _____ No. of Stories _____
Description: _____

(See 8 CCR 1709-30: Appendix A Plate A-2a & b)

Scaffolding: Height _____ Metal _____ Wood _____ Wood over 60 Feet _____ Metal over 125 Feet _____

Metal > 125 Feet or Wood > 60 Feet requires design by California Registered Civil Engineer & Plans at Site. (See 8 CCR 1644(c)(7))

Description: _____

Falsework/Vertical Shoring: Maximum Height _____ Maximum Span _____ Material _____

Description: _____

(See 8 CCR 1717)

Demolition Of: Building _____ Structure _____ Height _____ No. of Stories _____ Type: Steel Frame _____

Wood Frame _____ Concrete _____ Demolition Ball _____ Clam _____ Explosives _____

Loader/Tractors _____ Other _____

(See 8 CCR 1734 - 37)

Trenches/Excavations: Depth Range (Min/Max) * 3'/5' Width Range (Min/Max) 4'/7' Total Length 7'

Ground Protection Method: Shoring _____ Sloping X Trench Shield _____ Professional Engineer _____

Underground Services Alert (USA) Number 265481 (NORTH 1-800-642-2444/SOUTH 1-800-422-4133)

Soil Analysis to be done? Yes X No _____ If No, You Must Slope 1.5 to 1.

Description: Removal of one 500 gallon gasoline underground storage tank. No one will enter excavation.

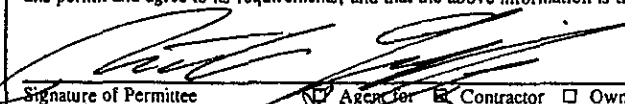

* Ground protection methods for excavations deeper than 20 feet must be designed by a Registered Professional Engineer. See 8 CCR 1541.1, Appendix F.

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL
ENGINEERING

PAGE 2 of 2

PERMIT NUMBER X0200591		SITE ADDRESS/LOCATION 2201 West Street	
APPROX. START DATE 6/17/02	APPROX. END DATE 6/19/02	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number) (510) 893-4769	
CONTRACTOR'S LICENSE # AND CLASS 654919 A/HAZ		CITY BUSINESS TAX #	
ATTENTION:			
1) State law requires that the contractor/owner call <i>Underground Service Alert (USA)</i> 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) #: 265481			
2) 48 hours prior to starting work, YOU MUST CALL (510) 238-3651 TO SCHEDULE AN INSPECTION.			
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):			
<input type="checkbox"/> 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).			
<input type="checkbox"/> 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).			
<input type="checkbox"/> 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).			
<input type="checkbox"/> I am exempt under Sec. _____, B&PC for this reason _____			
WORKER'S COMPENSATION			
<input checked="" type="checkbox"/> 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 # ART106612 Company Name Phoenix Assurance			
<input type="checkbox"/> 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 Chapter 6, Article 2 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 		Date 6/10/02	
DATE STREET LAST RESURFACED		SPECIAL PAVING DETAIL REQUIRED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	HOLIDAY RESTRICTION? (NOV 1 - JAN 1) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
ISSUED BY 		LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
		DATE ISSUED 6/11/02	

APPENDIX B
SITE HEALTH & SAFETY PLAN

HEALTH AND SAFETY PLAN

Prepared for:

UST Removal
at
2201 West Street
Oakland, CA

A. INTRODUCTION

This Site Specific Health and Safety Plan is written for the UST Removal project located at 2201 West Street in Oakland, California. All job site personnel will follow CAL OSHA safe operating practices as outlined in 29 CFR 1910 and 1926, as well as established guidelines set forth by AEI Consultants or their respective companies.

B. WORK DESCRIPTION

Prepared by: Nathan Garfield

Site Manager: Dusty Roy

Address: 2201 West Street
Oakland, CA

Scope of Work: AEI Consultants (AEI) will remove (1) 500 gallon diesel underground storage tank located at the above address. The tank will be emptied, removed, and disposed of according to federal, state and local regulations. 1 soil sample(s) will be taken from the native material beneath each tank. One composite sample will be made from 4 discrete soil samples from the excavated material.

C. SITE/WASTE CHARACTERISTICS

Hazard Level: Serious: Low: XXX
 Moderate: XXX Unknown:

Waste Type: Solid: Underground Storage Tank
 Sludge: None
 Liquid: Remaining Product Inside Tank
 Gas: None

Hazard Characteristics: Combustible, Toxic

There will be a three feet boundary surrounding the excavation pit and the stockpiled material. The area within this boundary is considered an exclusion zone and only qualified personnel will be allowed to enter. All personnel arriving or departing the site should log in before entering the exclusion zone. All activities on site must be cleared through the Site Manager.

D. HAZARD EVALUATION

Potential chemical hazards include skin and eye contact or inhalation exposure to potentially toxic concentrations of hydrocarbon vapors. The potential toxic compounds that may exist at the site are listed below with descriptions of specific health effects of each. The list includes the primary potential toxic constituents that may be found at sites which previously handled petroleum hydrocarbons, including home heating diesel fuel.

1. Benzene

- a. Colorless to light yellow, flammable liquid with an aromatic odor.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact**.
- c. Exposure may irritate eyes, nose and respiratory system and may cause acute restlessness, convulsions, nausea, or depression. Benzene is carcinogenic.*
- d. Permissible exposure level (PEL) for a time weighted average (TWA) over an eight hour period is 1.0 ppm.

2. Toluene

- a. Colorless liquid with a sweet, pungent, benzene like odor.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact**.
- c. Exposure may cause fatigue, weakness, confusion, euphoria, dizziness, headaches, dilated pupils, lacrimation, nervousness, insomnia, paresthesia, and dermatitis.
- d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

3. Xylene

- a. Colorless liquid with an aromatic odor.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact**.
- c. Exposure may irritate eyes nose and throat and may cause dizziness, excitement, drowsiness, incoordination, corneal vacuolization, anorexia, nausea, vomiting, and dermatitis.
- d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

4. Ethylbenzene

- a. Colorless liquid with an aromatic odor.
- b. Toxic hazard by **inhalation, ingestion, and skin and/or eye contact**. Ethylbenzene is carcinogenic.*
- c. Exposure may irritate eyes and mucous membrane and may cause headaches, dermatitis, narcosis and loss of consciousness.
- d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

* **Known to the State of California to cause cancer.**

5. Lead

- a. A heavy ductile soft grey metal.
- b. Toxic hazard by **inhalation, ingestion, and skin and/or eye contact**.
- c. Exposure may cause weakness, nausea, lassitude, diarrhea, insomnia, anorexia, inflamed mucous membranes and abdominal pains. Lead is carcinogenic.*
- d. Permissible exposure level for a time weighted average over an eight hour period is .05 ppb (in vapor).

6. Diesel

- a. Colorless to dark brown, combustible liquid with an aromatic odor
- b. Toxic hazard by **inhalation, ingestion, skin and/or eye contact**.
- c. Inhalation of vapors may depress the central nervous system, increasing reaction times, and decreasing pulse rate and blood pressure. Skin irritant.
- d. Occupational exposure limit 5.0 ppm (in vapor).

7. Gasoline

- a. Colorless liquid with a strong aromatic odor. Highly volatile and extremely flammable.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact**.
- c. Inhalation of vapors can cause depression of the central nervous system with symptoms such as headache, dizziness, nausea and loss of coordination. Skin contact can cause defatting of the skin, skin irritation and dermatitis. Benzene is a major constituent of gasoline.
- d. Permissible exposure level for a time weighted average over an eight hour period is 300 ppm.

8. Waste Oil

- a. Toxic hazard by **ingestion** and possibly **inhalation**.
- b. Prolonged contact may cause skin irritation and dermatitis. Waste oil may be carcinogenic.*
- c. Waste oil may contain metals or toxic organics from thermal breakdown of the oil. In some cases, chlorinated solvents may be present.
- d. Permissible exposure level for a time weighted average over an eight hour period is 5 ppm (in vapor).

* **Known to the State of California to cause cancer.**

Dusty Roy has been designated to coordinate access control and security on site. All work will strictly follow OSHA guidelines. A safe perimeter has been established at a three foot radius surrounding the site. These boundaries are identified by yellow caution tape and orange safety cones. Personnel shall maintain the maximum distance from the pit while performing their duties. No one shall enter an excavation pit that is greater than five feet in depth unless the excavation is shored or sloped and no one shall climb on the stockpiled material except to cover it with plastic. Additional hazards on site include heavy equipment and overhead lifting equipment. Heavy equipment used for performing the tank removal project may include a backhoe, an excavator, or a crane for lifting the tank out of the excavation. Only 40 hour trained personnel will operate equipment or perform any duty associated with this project. A hard hat and steel toed boots are mandatory for all personnel associated with the tank removal.

A FIRST AID KIT AND A 40 POUND BC FIRE EXTINGUISHER WILL BE AVAILABLE ON SITE.

EMERGENCY SERVICES ARE AVAILABLE BY DIALING 911 ON THE TELEPHONE LOCATED IN THE SITE MANAGER'S VEHICLE. THIS VEHICLE WILL BE ON SITE AT ALL TIMES.

E. PERSONAL PROTECTIVE CLOTHING

Based on evaluation of potential hazards, level "D" protective clothing has been designated as the appropriate protection for this project. The level of protective clothing will be upgraded if the organic vapor levels in the operator's breathing zone exceeds 5 ppm above background levels continuously for more than five minutes, or if any single reading exceeds 25 ppm. If this occurs then level C protection will be used. If the organic concentration in the operator's breathing zone exceed's 200 ppm for 5 minutes and/or the organic vapor concentration two feet above the excavation exceeds 1,000 ppm or 10% of the lower explosive limit, then the equipment will be shut down and the site evacuated. If organic vapor concentrations exceed 200 ppm and work continues then level B protection will be required.

"EPA Standard Operating Safety Guidelines" defines the levels of protective clothing as follows:

LEVEL A:

Fully encapsulating suit / SCBA / Hard hat / Steel toe boots / Safety gloves.

LEVEL B:

Splash resistant suit / SCBA / Hard Hat / Steel toe boots / Safety gloves.

LEVEL C:

Half face respirator / Hard hat / Safety glasses / Steel toe boots / Coveralls / Gloves.

LEVEL D:

Coveralls / Hardhat / Safety Glasses / Steel toe boots / Gloves.

If air purifying respirators are authorized, organic vapor w-filter is the appropriate canister for use with the involved substances and concentrations. A competent individual has determined that all criteria for using this type of respiratory protection have been met.

NO CHANGES TO THE SPECIFIED LEVELS OF PROTECTION SHALL BE MADE WITHOUT THE APPROVAL OF THE COMPANY SAFETY OFFICER, JOHN ORMEROD.

F. MONITORING INSTRUMENTS

The following environmental monitoring instruments shall be used on site at specified intervals.

Lower Explosive Limit (LEL) Meter that will also check the tank for Oxygen levels will be used to check the tank for removal and transportation.

G. EMERGENCY HOSPITAL

The closest hospital with an emergency room is:

**Summit Medical Center
Emergency**

**(510) 655-4000
911**

DIRECTIONS FROM THE JOB SITE:

EXIT JOBSITE AND GO:

RIGHT (EAST) ON WEST STREET
LEFT (NORTH) ON TELEGRAPH AVENUE
RIGHT (EAST) ON 29TH STREET
HOSPITAL LOCATED ON LEFT AT 400 29TH STREET

APPENDIX C

TRANSPORT AND DISPOSAL DOCUMENTS

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No 02A000053940100069		Manifest Document No. 1 of 1		2. Page 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address 111 Myrtle St. Jantille Forster Court. Oakland Ca. 94607 4. Generator's Phone (510) 793-4967						A. State Manifest Document Number 21183377							
5. Transporter 1 Company Name Exact Environmental Inc						B. State Generator's ID							
6. US EPA ID Number 02A0000707310						C. State Transporter's ID [Reserved.]							
7. Transporter 2 Company Name						D. Transporter's Phone 300-1376-6008							
8. US EPA ID Number						E. State Transporter's ID [Reserved.]							
9. Designated Facility Name and Site Address Ruralbark Trans 300 Clarendon Ruralbark Ca. 95767						F. Transporter's Phone							
10. US EPA ID Number 02A0000107110						G. State Facility's ID							
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste Number	
a. Non-High Hazardous Waste liquid						No. Type		Quantity		Wt/Vol		State EPA/Other	
b. Waste water						06 15		06075		G		State EPA/Other	
c.												State EPA/Other	
d.												State EPA/Other	
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above							
15. Special Handling Instructions and Additional Information Emergency Phone Glass 300 1376-6008													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name Nathan Garfield				Signature 				Month		Day		Year	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature 				Month		Day		Year	
Printed/Typed Name Crawford				Signature 				Month		Day		Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature 				Month		Day		Year	
Printed/Typed Name Nathan Garfield				Signature 				Month		Day		Year	
19. Discrepancy Indication Space													
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19													
Printed/Typed Name				Signature				Month		Day		Year	

DO NOT WRITE BELOW THIS LINE.

IN CALIFORNIA, CALL 1-800-852-7550

GENERATOR

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAC00255240195035		Manifest Document No. 1 of 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address Santilli + John Forster 2201 West 57. Oakland, CA 94612				A. State Manifest Document Number 21395035									
4. Generator's Phone (510) 893-4969				B. State Generator's ID									
5. Transporter 1 Company Name Ecology Control Industries				6. US EPA ID Number CAD982030173		C. State Transporter's ID [Reserved]							
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone 510-235-1393							
8. Designated Facility Name and Site Address ECOLOGIST CONTROL INDUSTRIES 255 PARR BLVD RICHMOND CA 94801				10. US EPA ID Number CAD009466392		E. State Transporter's ID [Reserved]							
						F. Transporter's Phone							
						G. State Facility's ID							
						H. Facility's Phone (510) 235-1393							
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) NON RCRA HAZARDOUS WASTE SOLID WASTE EMPTY STORAGE TANK						12. Containers		13. Total		14. Unit		15. Waste Number	
						No. Type		Quantity		Wt/Vol		State EPA/Other	
						001 TP		005510		P		512	
b.												State EPA/Other	
c.												State EPA/Other	
d.												State EPA/Other	
Additional Description: EMPTY STORAGE TANK # 22197 TANKS HAVE BEEN INERTED WITH 15 LBS DRY ICE PER 1000 GALLONS CAPACITY Oakland, CA						K. Handling Codes for Waste Listed Above							
WEAR PROPER PROTECTIVE EQUIPMENT WHILE HANDLING. WEIGHTS OR VOLUMES ARE APPROXIMATE.													
24 HOUR EMERGENCY CONTACT: Santilli + Forster													
24 HOUR EMERGENCY TELEPHONE NUMBER: (510) 893-4969										DOT ERG # 171			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.													
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name Matthew Forster				Signature <i>[Signature]</i>				Month 06		Day 19		Year 02	
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name VINCENT BUENAFLOR				Signature <i>[Signature]</i>				Month 06		Day 19		Year 02	
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed/Typed Name				Signature				Month		Day		Year	
19. Discrepancy Indication Space													
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name				Signature				Month		Day		Year	

DO NOT WRITE BELOW THIS LINE.

APPENDIX D

ANALYTICAL DOCUMENTATION

McC Campbell Analytical Inc.

110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0206306

Client:

All Environmental, Inc.
3210 Old Tunnel Rd., Ste. B
Lafayette, CA 94549-4157

TEL: (925) 283-6000
FAX: (925) 283-6121
ProjectNo: 5251; Santilli & F
PO:

26-Jun-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests				
					SM5520E/F	SW8015C	SW8021B	8021B/8015	SW8260B
0206306-001	EB-9'	Soil	6/19/02 12:00:00 PM						
0206306-002	STKP 1-4	Soil	6/19/02 12:00:00 PM						
				A	A	A	A	A	
				A	A	A	A	A	

Comments: diesel rushes added 06-26-02 per rusty

	Date/Time		Date/Time
Relinquished by:	_____	Received by:	_____
Relinquished by:	_____	Received by:	_____
Relinquished by:	_____	Received by:	_____

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Page 2
Jun-26-02 7:05PM;
1 925 798 4612;
Sent By: McC Campbell Analytical, Inc.;

McCampbell Analytical Inc.		110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@bccampbell.com	
All Environmental, Inc. 3210 Old Tunnel Rd., Ste. B Lafayette, CA 94549-4157	Client Project ID: 5251; Santilli & Forster		Date Sampled: 06/19/02
	Client Contact: Nathan Garfield		Date Received: 06/19/02
	Client P.O.:		Date Extracted: 06/19/02
			Date Analyzed: 06/20/02-06/25/02

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SWS030B Analytical methods: SW8021B/8015C m Work Order: 0206106

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	RB-9'	S	N/A	ND<5.0	1.5	3.1	20	60	100	99.1
002A	SFKP 1-4	S	N/A	ND<0.5	ND<0.05	ND<0.05	0.098	0.32	10	111

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	ug/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

*water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, wipe samples in ug/wipe, and TCLP extracts in ug/L.

DF = dilution factor

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible shoe/product is present. i) liquid sample that contains greater than ~2 vol. % sediment; j) no recognizable pattern; k) TPH pattern that does not appear to be derived from gasoline (aviation gas).

DHS Certification No. 1644 Edward Hamilton, Lab Director

McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
 Telephone : 925-798-1620 Fax : 925-798-1622
 http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.
 3210 Old Tunnel Rd., Ste. B
 Lafayette, CA 94549-4157

Client Project ID: 5251; Santilli & Forster

Date Sampled: 06/19/02

Date Received: 06/19/02

Client Contact: Nathan Garfield

Date Extracted: 06/26/02

Client P.O.:

Date Analyzed: 06/26/02

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3550C

Analytical methods: SW8015C

Work Order: 0206306

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0206306-001A	EB-9'	S	660,n	1	97.0
0206306-002A	STKP 1-4	S	160,n	1	96.0

Reporting Limit for DF=1; ND means not detected at or above the reporting limit


W	NA	NA
S	1.0	mg/Kg

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all TCLP / STL / SPL extracts in ug/l.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~ 2 vol % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) standard solvent.

DHS Certification No. 1644

 Edward Hamilton, Lab Director

McCampbell Analytical Inc.

110 2nd Avenue South, 4D7, Pacheco, CA 94553-5560
 Telephone : 925-798-1620 Fax : 925-798-1622
 http://www.mccampbell.com E-mail: munit@mccampbell.com

All Environmental, Inc.
 3210 Old Tunnel Rd., Ste. B
 Lafayette, CA 94549-4157

Client Project ID: 5251; Santilli & Forster
 Client Contact: Nathan Garfield
 Client P.O.:

Date Sampled: 06/19/02
 Date Received: 06/19/02
 Date Extracted: 06/19/02
 Date Analyzed: 06/21/02

Extraction Method: SW5030B

Volatiles Organics by GC/MS (Basic Target List)*

Analytical Method: SW8260B

Work Order: 0206306

Lab ID
 Client ID 0206306-001A
 Matrix EB-9'
 Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<10,000	200	50	Benzene	ND<1000	200	5.0
Bromobenzene	ND<1000	200	5.0	Bromochloromethane	ND<1000	200	5.0
Bromodichloromethane	ND<1000	200	5.0	Bromoform	ND<1000	200	5.0
Bromomethane	ND<1000	200	5.0	2-Butanone (MEK)	ND<2000	200	10
n-Butyl benzene	ND<1000	200	5.0	sec-Butyl benzene	ND<1000	200	5.0
tert-Butyl benzene	ND<1000	200	5.0	Carbon Disulfide	ND<1000	200	5.0
Carbon Tetrachloride	ND<1000	200	5.0	Chlorobenzene	ND<1000	200	5.0
Chloroethane	ND<1000	200	5.0	2-Chloroethyl Vinyl Ether	ND<1000	200	5.0
Chloroform	ND<1000	200	5.0	Chloromethane	ND<2000	200	10
2-Chlorotoluene	ND<1000	200	5.0	4-Chlorotoluene	ND<1000	200	5.0
Dibromochloromethane	ND<1000	200	5.0	1,2-Dibromo-3-chloropropane	ND<1000	200	5.0
1,2-Dibromoethane (EDB)	ND<1000	200	5.0	Dibromomethane	ND<1000	200	5.0
1,2-Dichlorobenzene	ND<1000	200	5.0	1,3-Dichlorobenzene	ND<1000	200	5.0
1,4-Dichlorobenzene	ND<1000	200	5.0	Dichlorodifluoromethane	ND<1000	200	5.0
1,1-Dichloroethane	ND<1000	200	5.0	1,2-Dichloroethane (1,2-DCA)	ND<1000	200	5.0
1,1-Dichloroethene	ND<1000	200	5.0	cis-1,2-Dichloroethene	ND<1000	200	5.0
trans-1,2-Dichloroethene	ND<1000	200	5.0	1,2-Dichloropropane	ND<1000	200	5.0
1,3-Dichloropropane	ND<1000	200	5.0	2,2-Dichloropropane	ND<1000	200	5.0
1,1-Dichloropropene	ND<1000	200	5.0	cis-1,3-Dichloropropene	ND<1000	200	5.0
trans-1,3-Dichloropropene	ND<1000	200	5.0	Ethylbenzene	16,000	200	5.0
Hexachlorobutadiene	ND<1000	200	5.0	2-Hexanone	ND<1000	200	5.0
Iodomethane (Methyl iodide)	ND<2000	200	10	4-Isopropyl toluene	5200	200	5.0
Isopropylbenzene	4200	200	5.0	4-Methyl-2-pentanone (MIBK)	ND<1000	200	5.0
Methylene chloride	ND<1000	200	5.0	Methyl-t-butyl ether (MTBE)	ND<1000	200	5.0
Naphthalene	10,000	200	5.0	n-Propyl benzene	8500	200	5.0
Styrene	ND<1000	200	5.0	1,1,1,2-Tetrachloroethane	ND<1000	200	5.0
1,1,2,2-Tetrachloroethane	ND<1000	200	5.0	Tetrachloroethene	ND<1000	200	5.0
Toluene	ND<1000	200	5.0	1,2,3-Trichlorobenzene	ND<1000	200	5.0
1,2,4-Trichlorobenzene	ND<1000	200	5.0	1,1,1-Trichloroethane	ND<1000	200	5.0
1,1,2-Trichloroethane	ND<1000	200	5.0	Trichloroethene	ND<1000	200	5.0
Trichlorofluoromethane	ND<1000	200	5.0	1,2,3-Trichloropropane	ND<1000	200	5.0
1,2,4-Trimethylbenzene	43,000	200	5.0	1,3,5-Trimethylbenzene	19,000	200	5.0
Vinyl Acetate	ND<10,000	200	50	Vinyl Chloride	ND<1000	200	5.0
Xylenes	63,000	200	5.0				

Surrogate Recoveries (%)

%SS1:	93.6	%SS2:	90.3
%SS3:	105		

Comments:

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPI.P extracts in ug/L
 ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(h) lighter than water immiscible sheen/product is present; (i) liquid sample that contains greater than ~2 vol % sediment; (j) sample diluted due to high organic content.



McCampbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94533-5560
 Telephone : 925-798-1620 Fax : 925-798-1622
 http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.
 3210 Old Tunnel Rd., Ste. B
 Lafayette, CA 94549-4157

Client Project ID: 5251; Santilli & Forster
 Client Contact: Nathan Garfield
 Client P.O.:

Date Sampled: 06/19/02
 Date Received: 06/19/02
 Date Extracted: 06/19/02
 Date Analyzed: 06/21/02

Volatiles Organics by GC/MS (Basic Target List)*

Extraction Method: SW5030U

Analytical Method: SW8260B

Work Order: 0206306

Lab ID
 Client ID: 0206306-002A
 Matrix: STKP 1-4
 Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<1000	20	50	Benzene	ND<100	20	5.0
Bromobenzene	ND<100	20	5.0	Bromo-chloromethane	ND<100	20	5.0
Bromodichloromethane	ND<100	20	5.0	Bromoform	ND<100	20	5.0
Bromomethane	ND<100	20	5.0	2-Butanone (MEK)	ND<200	20	10
n-Butyl benzene	ND<100	20	5.0	sec-Butyl benzene	ND<100	20	5.0
tert-Butyl benzene	ND<100	20	5.0	Carbon Disulfide	ND<100	20	5.0
Carbon Tetrachloride	ND<100	20	5.0	Chlorobenzene	ND<100	20	5.0
Chloroethane	ND<100	20	5.0	2-Chloroethyl Vinyl Ether	ND<200	20	10
Chloroform	ND<100	20	5.0	Chloromethane	ND<100	20	5.0
2-Chlorotoluene	ND<100	20	5.0	4-Chlorotoluene	ND<100	20	5.0
Dibromochloromethane	ND<100	20	5.0	1,2-Dibromo-3-chloropropane	ND<100	20	5.0
1,2-Dibromoethane (EDB)	ND<100	20	5.0	Dibromomethane	ND<100	20	5.0
1,2-Dichlorobenzene	ND<100	20	5.0	1,3-Dichlorobenzene	ND<100	20	5.0
1,4-Dichlorobenzene	ND<100	20	5.0	Dichlorodifluoromethane	ND<100	20	5.0
1,1-Dichloroethane	ND<100	20	5.0	1,2-Dichloroethane (1,2-DCA)	ND<100	20	5.0
1,1-Dichloroethene	ND<100	20	5.0	cis-1,2-Dichloroethene	ND<100	20	5.0
trans-1,2-Dichloroethene	ND<100	20	5.0	1,2-Dichloropropane	ND<100	20	5.0
1,3-Dichloropropane	ND<100	20	5.0	2,2-Dichloropropane	ND<100	20	5.0
1,1-Dichloropropene	ND<100	20	5.0	cis-1,3-Dichloropropene	ND<100	20	5.0
trans-1,3-Dichloropropene	ND<100	20	5.0	Ethylbenzene	ND<100	20	5.0
Hexachlorobutadiene	ND<100	20	5.0	2-Hexanone	ND<100	20	5.0
Iodomethane (Methyl iodide)	ND<200	20	10	4-Isopropyl toluene	ND<100	20	5.0
Isopropylbenzene	ND<100	20	5.0	4-Methyl-2-pentanone (MIBK)	ND<100	20	5.0
Methylene chloride	ND<100	20	5.0	Methyl-t-butyl ether (MTBE)	ND<100	20	5.0
Naphthalene	ND<100	20	5.0	n-Propyl benzene	ND<100	20	5.0
Styrene	ND<100	20	5.0	1,1,1,2-Tetrachloroethane	ND<100	20	5.0
1,1,2,2-Tetrachloroethane	ND<100	20	5.0	Tetrachloroethene	ND<100	20	5.0
Toluene	ND<100	20	5.0	1,2,3-Trichlorobenzene	ND<100	20	5.0
1,2,4-Trichlorobenzene	ND<100	20	5.0	1,1,1-Trichloroethane	ND<100	20	5.0
1,1,2-Trichloroethane	ND<100	20	5.0	Trichloroethene	ND<100	20	5.0
Trichlorofluoromethane	ND<100	20	5.0	1,2,3-Trichloropropane	ND<100	20	5.0
1,2,4-Trimethylbenzene	ND<100	20	5.0	1,3,5-Trimethylbenzene	ND<100	20	5.0
Vinyl Acetate	ND<1000	20	50	Vinyl Chloride	ND<100	20	5.0
Xylenes	ND<100	20	5.0				

Surrogate Recoveries (%)

%SS1:	96.8	%SS2:	102
%SS3:	93.4		

Comments: j

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP/SPLP extracts in ug/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(h) lighter than water immiscible slcen/product is present; (i) liquid sample that contains greater than ~2 vol. % sediment, (j) sample diluted due to high organic content

McCampbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
 Telephone : 925-798-1620 Fax : 925-798-1622
 http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.
 3210 Old Tunnel Rd., Ste. B
 Lafayette, CA 94549-4157

Client Project ID: 5251; Santilli & Forster
 Client Contact: Nathan Garfield
 Client P.O.:

Date Sampled: 06/19/02
 Date Received: 06/19/02
 Date Extracted: 06/19/02
 Date Analyzed: 06/22/02-06/24/02

Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8021B

Work Order: 0206306

Lab ID	0206306-001A	0206306-002A	Reporting Limit for DF = 1
Client ID	EB-9 ^a	STKP 1-4	
Matrix	S	S	
DF	200	2	

Compound	Concentration		S	W
			µg/Kg	ug/L
Bromodichloromethane	ND<1000	ND<10		
Bromoform	ND<1000	ND<10	5.0	NA
Bromomethane	ND<1000	ND<10	5.0	NA
Carbon Tetrachloride	ND<1000	ND<10	5.0	NA
Chlorobenzene	ND<1000	ND<10	5.0	NA
Chloroethane	ND<1000	ND<10	5.0	NA
2-Chloroethyl vinyl ether	ND<1000	ND<10	5.0	NA
Chloroform	ND<1000	ND<10	5.0	NA
Chloromethane	ND<1000	ND<10	5.0	NA
Dibromochloromethane	ND<1000	ND<10	5.0	NA
1,2-Dichlorobenzene	ND<1000	ND<10	5.0	NA
1,3-Dichlorobenzene	ND<1000	ND<10	5.0	NA
1,4-Dichlorobenzene	ND<1000	ND<10	5.0	NA
Dichlorodifluoromethane	ND<1000	ND<10	5.0	NA
1,1-Dichloroethane	ND<1000	ND<10	5.0	NA
1,2-Dichloroethane	ND<1000	ND<10	5.0	NA
1,1-Dichloroethene	ND<1000	ND<10	5.0	NA
cis-1,2-Dichloroethene	ND<1000	ND<10	5.0	NA
trans-1,2-Dichloroethene	ND<1000	ND<10	5.0	NA
1,2-Dichloropropane	ND<1000	ND<10	5.0	NA
cis-1,3-Dichloropropene	ND<1000	ND<10	5.0	NA
trans-1,3-Dichloropropene	ND<1000	ND<10	5.0	NA
Methylene chloride	ND<1000	ND<10	5.0	NA
1,1,2,2-Tetrachloroethane	ND<1000	ND<10	5.0	NA
Tetrachloroethene	ND<1000	ND<10	5.0	NA
1,1,1-Trichloroethane	ND<1000	ND<10	5.0	NA
1,1,2-Trichloroethane	ND<1000	ND<10	5.0	NA
Trichloroethene	ND<1000	ND<10	5.0	NA
Trichlorofluoromethane	ND<1000	ND<10	5.0	NA
Vinyl Chloride	ND<1000	ND<10	5.0	NA

Surrogate Recoveries (%)

%SS:	101	100
Comments	j	j

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe
 Reporting limit for DF = 1; water/TCLP/SPLP extracts, ND<0.5ug/L; soils and sludges, ND<5ug/kg, wipes, ND<0.2ug/wipe
 ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis
 (h) a lighter than water immiscible sheen/product is present; (i) liquid sample that contains greater than ~2 vol. % sediment; (j) sample diluted due to high organic content.

A Edward Hamilton, Lab Director

McCampbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
 Telephone: 925-798-1620 Fax: 925-798-1622
 http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.
 3210 Old Tunnel Rd., Ste. B
 Lafayette, CA 94549-4157

Client Project ID: 5251; Santilli & Forster

Date Sampled: 06/19/02

Date Received: 06/19/02

Client Contact: Nathan Garfield

Date Extracted: 06/19/02

Client P.O.:

Date Analyzed: 06/19/02

Petroleum Oil & Grease with Silica Gel Clean-Up*

Analytical Method: SM5520E/P

Work Order: 0206306

Lab ID	Client ID	Matrix	POG
--------	-----------	--------	-----

0206306-001A

FB-9'

S

ND

0206306-002A

STKP 1-4

S

ND

Method Accuracy and Reporting Units


W

S

NA

50 mg/Kg

DIIS Certification No. 1644

 Edward Hamilton, Lab Director



AEI Consultants / All Environmental, Inc.
 3210 Old Tunnel Road, Suite B
 Lafayette, CA 94549
 (925) 283-6000 Fax: (925) 283-6121

CHAIN OF CUSTODY

PAGE 1 OF 1

0206300

TAT: RUSH / 24 hr / 48 hr / 5 day / other

AEI PROJECT MANAGER Nathan Garfield
 PROJECT NAME Santilli & Forster
 PROJECT NUMBER 5251
 TOTAL # OF CONTAINERS 5
 RCVD. GOOD CONDITION/COLD Y N

SAMPLE ID	DATE	TIME	MATRIX
<u>EB-9'</u>	<u>6/19/02</u>	<u>12:00</u>	<u>Soil</u>
<u>STUP 1-4</u>	<u>6/19/02</u>	<u>12:00</u>	<u>Soil</u>

TPH(g) BTEX, MTBE SOIL: EPA 8210.601 SM, 8020 WATER: EPA 8210.601 SM, 8020	TPH(d) SOIL: EPA 8210.601 SM WATER: EPA 8210.601 SM	BTEX, MTBE SOIL: EPA 8210.601 SM WATER: EPA 802	TOTAL OIL & GREASE SOIL: EPA 418.1 or STD 5310 DIE&F WATER: STD 5310 DIE&F	VOLATILE HALOCARBONS SOIL: EPA 8010 WATER: EPA 801	VOC's SOIL: EPA 8260 WATER: EPA 824	SEMI-VOLATILE ORGANICS SOIL: EPA 8270.350 WATER: EPA 8270.350	TOTAL LEAD (TLIC) SOIL: 8010 ICP WATER: DISSOLVED 232.2 (AA)	LUFT 5 METALS SOIL: EPA 7120, 7130, 7440, 7520, 7550 WATER:					HOLD	# OF CONTAINERS
		X	X	X	X									
		X	X	X	X									

HEAD SPACE CONDITION PRESERVATION
 HEAD SPACE ABSENT APPROPRIATE
 CONTAINERS

COMMENTS / INSTRUCTIONS
 ANALYTICAL LABORATORY McCampbell Analytical, Inc.
 ADDRESS 110 2nd Avenue S, #D7
Pacheco, CA 94553
 PHONE 925/79 520 FAX 925/798.1622

RELINQUISHED BY SIGNATURE <u>Nathan Garfield</u> PRINTED NAME AEI COMPANY DATE <u>6/19</u> TIME <u>1:30</u>	RECEIVED BY SIGNATURE <u>LISA VENEGAS</u> PRINTED NAME <u>MAE</u> COMPANY DATE <u>6/19</u> TIME <u>1:30</u>	RELINQUISHED BY SIGNATURE PRINTED NAME COMPANY DATE TIME	RECEIVED BY SIGNATURE PRINTED NAME COMPANY DATE TIME
---	---	---	---

Sent By: McCampbell Analytical, Inc.; 1 925 798 4612; Jun-26-02 9:41AM; Page 2