March 4, 2002

MAY 2 1 2002

UNDERGROUND STORAGE TANK REMOVAL DRAFT REPORT

796 66th Avenue Oakland, California

Project No. 4700

Prepared For
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Cruise America, Inc.
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TABLE OF CONTENTS

TABLE 1 - Soil Sample Analyses	3
4.0 SAMPLING AND ANALYSES	2
3.0 MOBILIZATION, EXCAVATION AND REMOVAL	1
2.0 PERMITS	1
	1

LIST OF FIGURES

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

APPENDICES

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

1.0 INTRODUCTION

AEI Consultants (AEI) has prepared this final report to document the underground storage tank closure activities performed at 796 66th Avenue in Oakland, California (Figure 1: Site Location Map). One (1) 10,000-gallon gasoline underground storage tank (UST) was removed. The tank was located on the southeast portion of the property, adjacent to the planter (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 November 30, 2001, the Oakland Fire Services Agency (OFSA) issued the permit (No. 64-01) to remove one 10,000-gallon gasoline UST from the subject property. Inspector Hernan Gomez was assigned to represent the OFSA, and observed the tank closure activities at the site. On November 28, 2001, 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 November 29, 2001, the AEI field staff was briefed and the Site Health and Safety Plan reviewed prior to the initiation of work. The Site Health and Safety Plan is located in Appendix B. Ground cover was broken and the pea gravel surrounding the tank was excavated. A single stockpile of the excavated pea gravel was created adjacent to the excavation (Figure 2: Site Plan and Figure 3: Sample Location Plan).

Excel Environmental Services, Inc. removed a total of 4,085 gallons of waste liquid during the tank removal activities: 685 gallons of gasoline and rinsate were removed from the tank prior to the tank removal, and 3,400 gallons of groundwater were removed from the excavation prior to the removal of the tank and the collection of groundwater and soil samples. Dry ice was introduced into the tank until the Lower Explosive Limit (LEL) and oxygen content reached acceptable levels.

The tank was removed on November 30, 2001, and was visually inspected prior to loading for transport. The tank was observed in good condition. The tank was a double-walled tank with a steel inner tank and a fiberglass outer tank.

AEI

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

Soil and groundwater samples were collected prior to backfilling. The excavation was backfilled with stockpiled pea gravel and 34" aggregate base rock to replace the volume of the tank. The excavation area is scheduled to be resurfaced with asphalt to match the surroundings.

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 Gomez of the OFSA. A total of five (5) soil samples and one (1) groundwater sample were collected from the tank removal activities. Three of the soil samples were collected from the sidewalls of the excavation at the soil groundwater interface at 6½ feet below ground surface (bgs). The sample labels correspond with the sample location, West 6½, East 6½, and South 6½. One soil sample was also collected from beneath each dispenser. The dispenser samples were labeled Disp-East 3' and Disp-West 3'. Following the removal of the groundwater from the excavation, one grab groundwater sample was collected from the center of the excavation and labeled GW. The stockpiled material consisted of pea gravel. Since the laboratory cannot analyze pea gravel, no stockpile samples were collected. Please refer to Figure 3: Sample Location Plan for the sample locations.

Native material consisted of sandy clay. Groundwater was encountered between four and seven feet bgs during the removal activities. An oily sheen was visible on the groundwater in the excavation.

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 groundwater sample was collected in 40-mL VOA vials and a 1-pint plastic bottle. The groundwater sample was capped so that neither headspace nor air bubbles were visible present within the containers. 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 November 30, 2001 for analysis.

The samples were analyzed for Total Petroleum Hydrocarbons as gasoline (EPA 8015), Total Lead (EPA Method 6010/200), methyl-tert-butyl ether (MTBE), and benzene, toluene, ethylbenzene, and xylenes (BTEX) (EPA Method 602/8020). The analytical results are summarized in the following tables:

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TABLE 1 - Soil Sample Analyses

	Disp-East	Disp- West 3'	South 6½	West 61/2	East 6½
TPH-GASOLINE (mg/kg)	110	280	4.1	ND	140
MTBE (mg/kg)	<0.20	6.0	53	0.99	50
BENZENE (mg/kg)	0.070	0.25	0.038	ND	13
TOLUENE (mg/kg)	1.2	7.5	0.16	0.014	3.9
ETHYL BENZENE (mg/kg)	0.16	4.1	0.034	0.011	7.9
TOTAL XYLENES (mg/kg)	5.2	26	0.19	0.046	18
TOTAL LEAD (mg/kg)	> 66 °	34	1,300	16	95

mg/kg = milligrams per kilogram (ppm)
ND = not detected above the reporting limit

TABLE 2 - Groundwater Sample Analyses

	GW
TPH-GASOLINE (µg/L)	44,000
MTBE (μg/L)	42,000
BENZENE (µg/L)	590
TOLUENE (µg/L)	5,100 🐇
ETHYL BENZENE (µg/L)	640
TOTAL XYLENES (µg/L)	3,500
TOTAL LEAD (mg/L)	0.021

 μ g/L = micrograms per liter (ppb) mg/L = milligrams per liter (ppm)

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

5.0 SUMMARY AND CONCLUSIONS

On November 29, 2001, a 10,000-gallon gasoline UST was removed from the property located at 796 66th Avenue in Oakland, California. Prior to removal, 4,085 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 five (5) soil samples and one (1) groundwater sample were collected during the tank removal activities. Concentrations of TPH as gasoline were present in four of the five soil samples ranging from 4.1 mg/kg to 280 mg/kg. Concentrations of MTBE and BTEX were also detected in the five soil samples. Elevated concentrations of TPH as gasoline and MTBE were present in the groundwater sample at 44,000 μ g/L and 42,000 μ g/L, respectively. Elevated concentrations of BTEX were also present in the groundwater sample.

Based on the sample analytical results, further work is necessary regarding the former underground storage tank at the property. It is likely that the OFSA will refer this case to the Alameda County Health Care Services Agency (ACHCSA) due to the impacted groundwater at the site. The ACHCSA may require additional investigation to determine the lateral and vertical extent of the impacted soil and groundwater.

AEI

6.0 REPORT LIMITATIONS AND SIGNATURES

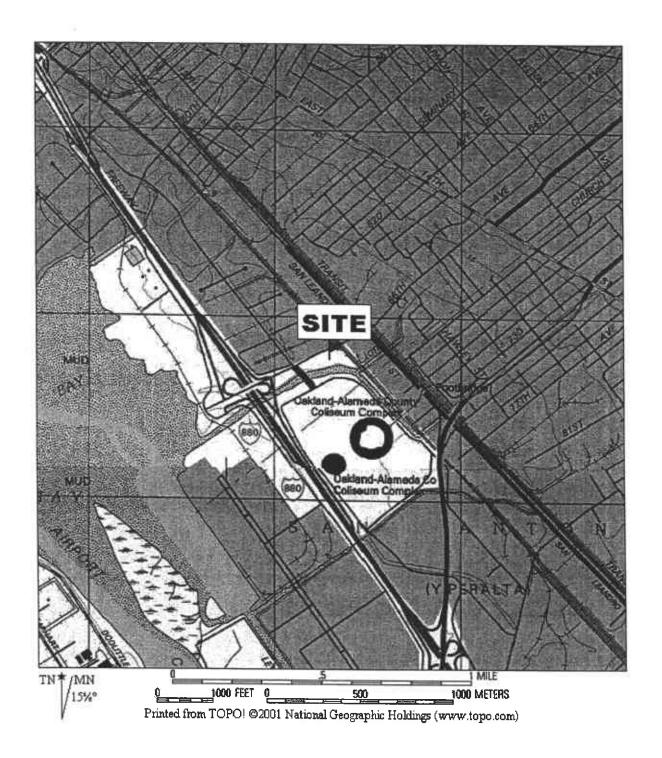
This report presents a summary of work completed by AEI Consultants, including observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required 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

John Ormerod

Environmental Scientist

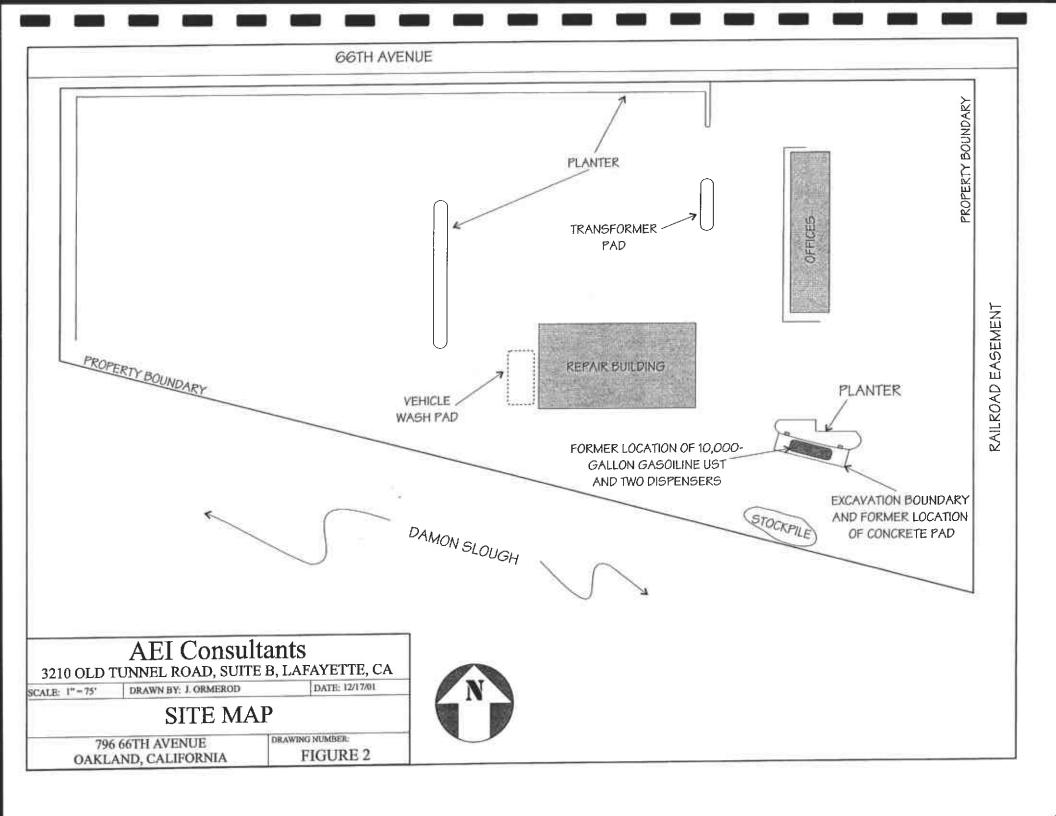


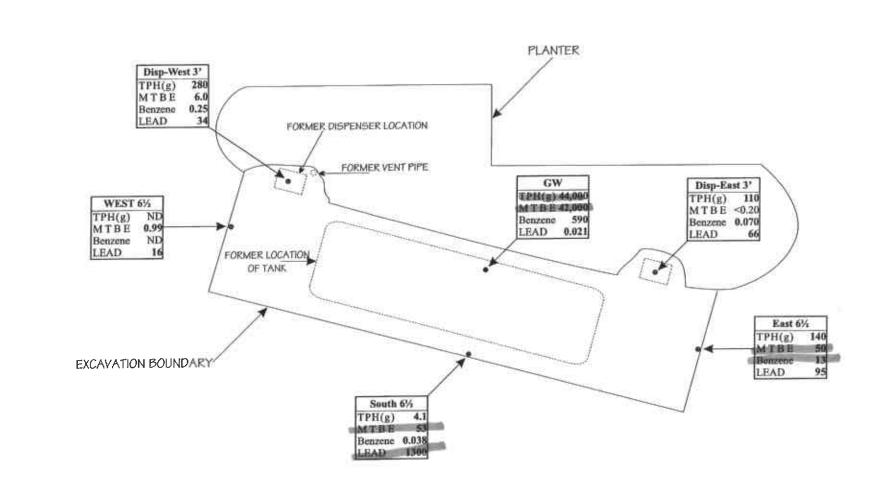
AEI CONSULTANTS 3210 OLD TUNNEL RD, STE B, LAFAYETTE, CA

SITE LOCATION MAP

796 66th AVENUE OAKLAND, CALIFORNIA

FIGURE 1 PROJECT No. 4700





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

SCALE: 1"=11"

DRAWN BY: J. ORMEROD

DATE: 12/17/01

SAMPLE LOCATION MAP

796 66TH AVENUE OAKLAND, CALIFORNIA DRAWING NUMBER: FIGURE 3

KEY

- GROUNDWATER SAMPLE LOCATION
- SOIL SAMPLE LOCATION

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

LEAD TOTAL LEAD

GROUNDWATER RESULTS IN µg/L SOIL SAMPLE RESULTS IN mg/kg



APPENDIX A PHOTOGRAPHS



1. View of tank pad and two dispensers.

2. View of one of the two dispensers.





3. Saw cutting of the concrete pad.

AEI CONSULTANTS 3210 Old Tunnel Rd. Ste B. Lafavette. CA

PROPERTY PHOTOGRAPHS

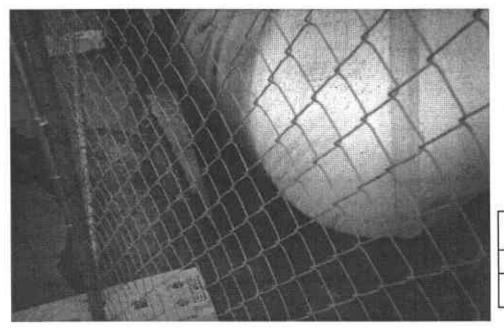
796 66th Avenue Oakland, CA



4. Excavator removing concrete pad.

5. After the removal of the concrete pad and the upper layers of soil, the tank floated up. Groundwater was present at 4 feet below ground surface.





6. View of the groundwater in the excavation.

AEI CONSULTANTS 3210 Old Tunnel Rd, Ste B, Lafavette, CA

PROPERTY PHOTOGRAPHS

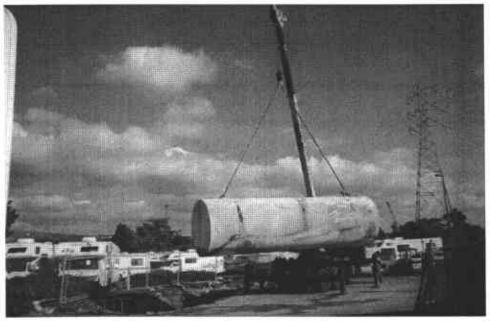
796 66th Avenue Oakland, CA



 The liquid inside the tank was pumped out. The tank was rinsed with Simple Green and water in order to remove the explosive vapors.

8. 600 pounds of dry ice was added to the tank. The dry ice pushes out all the oxygen and explosive vapors making the tank safe for removal and transport.





9. The tank is removed from the excavation by a crane.

AEI CONSULTANTS 3210 Old Tunnel Rd, Ste B, Lafavette, CA

PROPERTY PHOTOGRAPHS

796 66th Avenue F Oakland, CA



10. Tank is loaded onto a flatbed truck for transport to the disposal facility.

11. The excavation was partially backfilled to prevent groundwater from filling the excavation.





12. The excavation was fenced off at the end of the day.

AEI CONSULTANTS 3210 Old Tunnel Rd. Ste B, Lafayette, CA

PROPERTY PHOTOGRAPHS

796 66th Avenue Oakland, CA

APPENDIX B PERMITS AND NOTIFICATION DOCUMENTS

City Of Oakland FIRE PREVENTION BUREAU

Permit To Excavate And Instan, Repair, Or Remove Inflammable Liquid Tanks

250 Frank Ogawa Plaza, Stc. 3341 Oakland California 94612-2032 510-238-3851

D18238110

Oakland, California

Nevember 30, 2001

Tank Permit Number:

64-01

Permission Is Hereby Granted To: Remove Gasoline Tank	And Excavate Comme	ncing: Feet Insid	le: property	Line.
On The: S side of 66th Avenue, 500 feet W of 6	Coliseum Way			
Site Address: 796 66th Avenue	Prese	nt Storage: Gasoline		
Owner: Cory Kauffman - Cruise America, Is	ic. Address:	11 W. Hampton Ave.,	Miesa, AZ 85210	Phone: (480) 464-730
Applicant: AEI Consultants	Address:	3210 Old Tunnel Rd., #	B, Lafayette, CA	94549Phone: (925) 283-600
Dimensions Of Street (sidewalk) Surface To Be Di	sturbed: X	No. Of Tanks	Capacity	10,000 Gallons, Each
Remarks	. •			
This Permit Is Granted In Accordance With Existing City Ordinanc Remot	es. Owner Hereby Agrees To Remeing Or Repairing Tanks, No Open	ve Tanks On Discontinuance Of 1 Riame To Be On Or Near Premise	Jse Or, When Notified By s.	The City Authorities When Installing,
CERTIFICATE (•			ON
	Type O	f Inspection:	197 Ke	moral
	~	Inspected A	And Passed On: _	11/30/01
6- (-1 h	/ / UST/	AST Installations/modi	fications: By:	Hernan Joney
Approved: MICHALL JMCC		ssure Test: Inspected		Date:
Fire Marshal	/ Primary l	iping Test: Inspected	By:	Date:
Inspection Fee Paid: \$ 540.00			-	
Received By: ck#3771 rec#830292 McC	Secondary Conf	ainment & Sump Testi	•	T)_4
	·	Inspected	·	Date: Date:
Roford Covering Tanks Above Certification	. March D. Cinerad Inc	Final: Inspected	<u> </u>	

Distribution: White . Gire Prevention Bureau Vellous . Contractor Pink . Plactrical Inspection

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

· .													
Site Address: 7.90 60	oth F	ve.			Name of Facility: Cruise America								
Inspector: Come		ye.			Contact on site: A E I								
Date and Time of Arrival:	11/30/	0) 10:	00 a.	m.	Contractor/Consultant: John	n Osime	wd		•				
General Requireme	ents	Yes	No	N/A	General Requiren	nents	Yes	No	N/A				
Approved closure plan on site.				*	Site Safety Plan properly signed.		1		*				
Changes to approved plan noted.				*	40B:C fire extinguisher on site.			<u> </u>	1.				
Residuals properly stored/transpor	ted.	1		*	"No Smoking" signs posted.		1						
Receipt for adequate dry ice noted	.				Gas detector challenged by inspe	ector.	1						
Tank Observations	T #1	T #2	Г#3	T #4	Tank Observations	T #1 T	#2 T	· #3	T #4				
Tank Capacity (gallons)	10 K				Obvious corrosion?	No	-"- -						
Material last stored	Izas.				Obvious odors from tank?	Yes							
Dry ice used (pounds)	600				Seams intact?	1/65							
Combustible gas concentration as		te time & sa	mpling	point)	Tank bed backfill material	Yes							
(1)	17%	1	1		Obvious discoloration?	1/2			i				
(2)	1 1 1				Obvious odors ex tank bed?								
(3)					Water in excavation?	Yen							
Oxygen concentration as % volume	ne. (Note ti	me &sampl	ing poin	L)	Sheen/product on water?	1/5/							
(1)	1/0%	Ī			Tank tagged by transporter?	Yes							
(2)	100				Tank wrapped for transport?	No							
(3)	1				Tank plugged w/ vent cap?	Yes		···					
Tank Material	Steel		· .		Date/time tank hauled off?	11/30/01							
Wrapping/Coating, if any	FL		1		No. of soil samples taken?		ol	, .	4 .5				
Obvious holes?	NO				Depth of soil samples (ft. bgs)	5 04	dan	ndo-	. 6				
						1 2 2119			1				
Piping Remova		Yes	No	N/A	General Observa	tions	Yes	No	N/A				
All piping removed hauled off w	tanks?	V			Leak from any tank suspected?	The second of the second		1/					
Obvious holes on pipes?			V		"Leak Report" form given to th	<u></u>		V					
Obvious odors from pipes?	• * ; ;		1/	2. 32.42	Obviously contaminated soil ex	cavated?		7	. 1				
Obvious soil discoloration in pipi						varauu.	1						
				1	Soil stockpile sampled?	Od valued:			1				
Obvious odors from piping trenc				/	Soil stockpile sampled? Stockpile lined AND covered?	O273UG:			V				
Obvious odors from piping trene Water in piping trench?	h?		V		Soil stockpile sampled? Stockpile lined AND covered? Water in excavation sampled?				V				
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UST Closure / Removal Inspection Report/dmg April 1998

is is the process - Because of



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

The second secon	1 A 1972
Site Address 796 66th Avenue	
City; State Dakland CA	zip 94621
	ory Kauffmann
Specific location of project Southeast portion	of property
Tank Removai	Contaminated Soil Excavation
Scheduled startup date Frichy Nov. 30, 2001	Scheduled Startup Date
Vapors removed by:	Stockpiles will be covered? YesNo
☐ Water wash	Indicate below the method used to comply with Regulation 8, Rule 40, Section 402.4:
Vapor freeing (CO²) ☐ Ventilation	Check (√) 8-40-301 □ 8-40-302 □ (permit required)
Indicate below if an A/C was obtained for tank replacement:	
	A/C or P/O #
Yes No If yes, 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, He Agency Oakland Five Services Hency	ran Gome 7 Phone # (5/0) 238 - 7253
BANGNER TO THE TENED OF THE PROPERTY OF THE PR	11.51.2.11.01X
Name AEI Consultants	Contact John Ormerod
Address 3210 Old Tunnel Road, Suite B	Phone (925) 283-6000
City, State, Zip Lafayette, CA 94549	
	ROMANNO CONTRACTOR AND CONTRACTOR AND CONTRACTOR AND CONTRACTOR AND CONTRACTOR AND CONTRACTOR AND CONTRACTOR A
Name same as contractor	Contact
Address	Phone ()
City, State, Zip	
ROPE CHIPLES USE ONEW	
Date Received Fax:	Date Postmarked:
Inspector No.:	Date: By
Update: Contact Name	Date: By
Update: Contact Name	Date: By
	See reverse for instructions:

ACTIVITY NOTIFICATION FORM FOR HOLDERS OF ANNUAL PERMITS

Scaffolding Falsework Trenches/Excavations

8 CCR 341.1(f) REQUIRES HOLDERS OF ANNUAL PERMITS OFFICE NEAREST THE PROJECT PRIOR TO COMMENCEMENT YOUR CONVENIENCE TO USE FOR SUCH NOTIFICATION.	FOF ANY WORK. THIS FORM IS PROVIDE:
THIS FORM MAY BE FAXED TO THE NEAREST DOSH OFFICE TO COLDUPLICATE NOTIFICATION TO FOLLOW-UP FAX NOTIFICA	TION.
DOSH FAX NO. (5/0) 622 - 2908	BY John Ormerod
Company Name: ALL ENVIRONMENTAL, INC.	Field Phone: (925) 283-6000
Annual Permit Number: 99-90063Z	Office Phone: (925) 283-6000
Specific Activity Location: 796 Gleth Avenue	Issuing District: 2
	Number of Employees: 3
Nearest Major Cross Street: Collseum Way	
city: Oakland	_ Anticipated Completion Date: Nov 30, 2001
County: Alameda	High Voltage Lines in Proximity? No X Ye
INSTRUCTIONS: The appropriate item(s) must be completed and sactivity covered by a permit. Please fill in or chec	igned by a person knowledgeable about the project to ix off the blanks where appropriate.
Scaffolding: Height Metal Wood\ Metal>125 Feet or Wood>60 Feet requires design by California Registered Description:	
	Maximum Span Material
Description:	
(See 8 CCR 1717)	
Trenches/Excavations: Depth Range(Min/Max)*/0/16	. · · ·
Ground Protection Method: Shoring Sloping	Trench Shield Professional Engineer
Underground Services Alert(USA) Number	(NORTH 1-800-642-2444/SOUTH 1-800-422-4133)
	You Must Slope 1.5 to 1.
The helder of an Angual Pormit who is no	otifying the District of the commencement of a Trench
Excavation project shall designate a com Section 1504, 1541, and 1541.1.	petent person in accordance with the requirements
-1	Mon underground storage tank
Ground protection methods for excavations deeper than 20 feet mus	the designed by a Registered Professional Engineer.
Ground protection methods for excavations deeper than 20 feet mus See 8 CCR 1541.1, Appendix F.	t us designed by a second

I hereby certify that to the best of the knowledge the above information and assertions are true and correct and that little as

A ...

have knowledge of and will comply with the foregoing.

Signature:

APPENDIX C SITE HEALTH & SAFETY PLAN

HEALTH AND SAFETY PLAN

Prepared for:

UST Removal at 796 66th Avenue Oakland, CA

A. INTRODUCTION

This Site Specific Health and Safety Plan is written for the UST Removal project located at 796 66th Avenue in Oakland, CA. 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: John Ormerod

Site Manager: Dusty Roy

Address:

796 66th Avenue

Oakland, CA

Scope of Work: AEI Consultants (AEI) will remove (1) 10,000-gallon gasoline underground storage tank located at the above address. The tank will be emptied, removed, and disposed of according to federal, state and local regulations. 3 soil sample(s) will be taken from the native material beneath each tank. Two composite samples will be made from 8 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

- 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 consci ousness.
- 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 feet 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:

Alameda County Medical Center - Highland Campus 510-437-5081 Emergency 911

DIRECTIONS FROM THE JOB SITE:

EXIT JOBSITE AND GO:

Left (West) on 66th Avenue
Turn right onto the onramp of Highway 880 North
Take the 29th Avenue Exit
Head East (right) off of the highway onto 29th Avenue
Turn left at International Boulevard
Turn right at 14th Avenue
Hospital is on the corner of 14th Avenue and East 31st Street

APPENDIX D TRANSPORT AND DISPOSAL DOCUMENTS

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State of California-Environmental Protection Agency

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WASTE MANIFEST	CACOLOBI	21812181319	LOIDIO	03) of 1		
3. Generator's Name and Mailing Address	CRITISE Amis.	CA RUKE	1-141	A, State M	ianifest Document N	21026	538
11 WEST . ISAMPTEN MU	Ac .			B. State G	enerator's ID		
1. Generator's Phone 4.853 10	- 7355						1
5. Transporter 1 Company Name	6. U	S EPA ID Number	e .	C. State Ti	ansporter's ID [Rese	erved.]	
Transport Company Name 44/50	rvices Ch	1 / O ()) S EPA ID Number	109350	D. Transpo	ansporter's ID [Rese	erved.	<u> (</u>
	1.4	1 1 1 1 1		F. Transpo	orter's Phone		
9. Designated Facility Name and Site Address	s 10 U	IS EPA ID Number	<u> </u>	G. State F	acility's ID		٠.
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1. Additional Descriptions for Material's Listed	Above			K. Handl	ing Codes for Wash	es Listed Above I h	
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				c.		d.	
15. Special Handling Instructions and Addition	onal Information						****
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0.							
FMERCENES #	200 (C2)	376-1	,008_	<u> </u>			40.0
fs: GENERATOR'S CERTIFICATION: I hereb marked, and labeled, and are in all resp	y declare that the contents of the	is consignment are full ansport by highway ac	y and accurately desc cording to applicable	ribed above internation	by proper shipping al and national gov	name and are classified, pr ernment regulations.	icked;
if I am a large quantity generator I cer	tify that I have a program in	nince to reduce the vo	lume and toxicity of s	vaste aener	ated to the degrée l	have determined to be ed	onomical
If I am a large quantity generator, I cer practicable and that I have selected the and the environment; OR, if I am a sma available to me and that I can afford.	practicable method of treatme II quantity generator, I have r	nt, storage, or dispose nade a good faith effo	al currently available of to minimize my wa	to me which ste generati	minimizes the pres on and select the b	ent and future threat to hu est waste management me	man heal hod that
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·	NON-HAZARDOUS 1. WASTE MANIFEST	. Generator's US EPA ID No. . <i>A</i> . <i>C 0.</i> の. よるようそう。	Manifest Document No. 3	2. Page 1			
TI.		se America Avicate					
	5. Transporter 1 Company Name EXCOLE AND REPORT AL SERVICE	6. US EPAID N	30.4350	A. Transporte			
	7. Transporter 2 Company Name	8. US EPA ID N	Number	B. Transporte			
	9. Designated Facility Name and Site Address W451e MANAGER AND	10. US EPA ID N	•	C. Facility's F			
	11. Waste Shipping Name and Description	[N/A.		12.	Containers	13. Total	14. Unit
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ATOR-	-						
	d.						
	D. Additional Descriptions for Materials Listed Above (GROUNG WATER FROM FU	rl TAAK Removal		E. Handling	Codes for Wa	stes Listed Above	
	15. Special Handling Instructions and Additional Inform	ERG171					
	EMARGORIA PHONE SED 16. GENERATOR'S CERTIFICATION: 1 certify the mat		outhings to Endored regul	lations for report	ing proper disp	ocal of Hazardous William	acto.
V	Printed/Typed Name	Signature	- /		ing proper dop	Month Day	
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OR T E	18. Transporter 2 Acknowledgement of Receipt of Mat Printed/Typed Name	terials Signature				Month Da	y Year
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1	20. Facility Owner or Operator: Certification of receipt	of waste materials covered by this manifes	t except as noted in I	Item 19.			
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1	WASTE MANIFEST	(,A. C.) , 3	1.3.2.3.3	ي در پارې در او در	of !				
	Generator's Name and Mailing Address		in works						
Ľ	4. Generator's Phone ()	7 7 7 3							97
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l	16. GENERATOR'S CERTIFICATION: I certify the Printed/Typed Name	e materiais described ab	Signature	idject to rederal regul	lations for re	porting pro	per alspo		lvaste. Jay Year
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APPENDIX E ANALYTICAL DOCUMENTATION



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.	Client Project ID: #4700; Cruise	Date Sampled: 11/30/2001				
3210 Old Tunnel Road, Suite B	America	Date Received: 11/30/2001				
Lafayette, CA 94549-4157	Client Contact: John Ormerod	Date Extracted: 11/30/2001				
	Client P.O:	Date Analyzed: 11/30/2001				

12/07/01

Dear John:

Enclosed are:

- 1). the results of 6 samples from your #4700; Cruise America project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Edward Hamilton, Lab Director

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Lafayette, CA 94549-4157	Client Contact: John Ormerod	Date Extracted: 11/30/2001				
	Client P.O:	Date Analyzed: 11/30-12/05/2001				

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	ods 5030, modified Client ID	Matrix	TPH(g) ⁺	MTBE	Benzene	Toluene	Ethyl- benzene	Xylenes	% Recovery Surrogate
84558	GW	w	44,000,a	42,000	590	5100	640	3500	94
84559	Disp-East 3'	S	110,b,j	ND<0.20	0.070	1.2	0.16	5.2	106
84560	Disp-West 3'	S	280,a	6.0	0.25	7.5	4.1	26	#
84561	South 6 1/2	s	4.1,a	53	0.038	0.16	0.034	0.19	112
84562	West 6 1/2	s	ND	0.99	ND	0.014	0.011	0.046	117
84563	East 6 1/2	S	140,a	50	13	3.9	7.9	18	117
								-	
									
								1	
				 					
				<u> </u>		 			
	ng Limit unless vise stated; ND	W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
means not detected above the reporting limit		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	1

^{*} water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

^{*}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 (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.



[#] cluttered chromatogram; sample peak coelutes with surrogate peak



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http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc. 3210 Old Tunnel Road, Suite B Lafayette, CA 94549-4157		Client Americ	Project ID: #470 ca	00; Cruise	Date Sampled: 11/30/2001 Date Received: 11/30/2001					
		Client	Contact: John C	rmerod		eted: 11/30/2001				
2414) 5110, 5		Client	·			zed: 11/30-12/04/2001				
		Chone	Lea	d*	Dute I mary	20d. 11/30-12/04/2001				
EPA analytical	methods 6010/200.7, 239	9.2 ⁺								
Lab ID	Client ID	Matrix	Extraction °	I	Lead*	% Recovery Surrogate				
84558	GW	W	TTLC	(0.021	N/A				
84559	Disp-East 3'	s	TTLC		93					
84560	Disp-West 3'	S	TTLC		93					
84561	South 6 1/2	s	TTLC		100					
84562	West 6 1/2	S	TTLC		94					
84563	East 6 1/2	S	TTLC		95					
						1				
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	<u>. L</u>									

TTLC

TTLC

STLC,TCLP

S

W

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.



3.0 mg/kg

0.005 mg/L

0.2 mg/L

Reporting Limit unless otherwise

stated; ND means not detected above

the reporting limit

^{*} soil and sludge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC / SPLP / TCLP extracts in mg/L

*Lead is analysed using EPA method 6010 (ICP) for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

[®] DISTLC extractions are performed using STLC methodology except that deionized water is substituted for citric acid buffer as the extraction fluid. DISTLC results are not applicable to STLC regulatory limits.

[°] EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC - CA Title 22

[&]quot; surrogate diluted out of range; N/A means surrogate not applicable to this analysis

[&]amp; reporting limit raised due to matrix interference

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QC REPORT

EPA 8015m + 8020

Date: 11/30/01	Extraction	Matrix: Water							
		%Rec							
Compound	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD		
SampleID: 112801 Instrument: GC-7									
Surrogate1	ND	103.0	103.0	100.00	103	103	0.0		
Xylenes	ND	33.0	33.3	30.00	110	111	0.9		
Ethylbenzene	ND	10.8	11.1	10.00	108	111	2.7		
Toluene	ND	11.0	11.0	10.00	110	110	0.0		
Benzene	ND	10.3	10.3	10.00	103	103	0.0		
MTBE	ND	9.6	9.7	10.00	96	97	1.0		
TPH (gas)	ND	102.5	102.9	100.00	102	103	0.4		

% Re covery =
$$\frac{(MS-Sample)}{AmountSpiked} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} - 2.100$$

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QC REPORT

Date: 11/30/01	Extraction: TTI	rc	Matrix: Soil						
	Conce	%Recovery							
Compound	Sample MS	MSD Amount Spiked	MS MSD	RPD					
<u>SampleID:</u> 112801		<u> </u>	Instrument: GFA	A-1					
Lead	ND 11.0	12.0 10.00	110 120	8.7					

% Re covery =
$$\frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

RPD= $\frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$

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http://www.mccampbell.com E-mail: main@mccampbell.com

QC REPORT

Date: 11/30/01 Extraction: TTLC Matrix: Water

		Concer	%Rec						
Compound	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD		
SampleID: 111901 Instrument: GFAA-1									
Lead	ND	8.6	8.0	10.00	86	80	7.2		

$$\% \text{ Re covery} = \frac{\left(MS - Sample \right)}{AmountSpiked} \cdot 100$$

		CONS fal Engine 10 Old Tunne Lafayette, 283-6000 Fa
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CHAIN OF CUSTODY SULTANTS

Environmen	∤tal Engln	neering & Co	onstruction											PAG		OF_	/
	Lafayette	nel Road, Suite B e, CA 94549 Fax: (925) 283-61		29005	Zale	478.	<u>ل م</u>	AT:	RUS	H /	24 h	r /	48 hr	(5 d	ay /	other_	
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West 6/2				5	X									8456	:2		
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