

# UST REMOVAL REPORT



## TELEGRAPH AVENUE OAKLAND, CALIFORNIA

### RECEIVED

2:32 pm, Oct 13, 2010

Alameda County  
Environmental Health

PREPARED FOR:  
CALTRANS DISTRICT 4  
111 GRAND AVENUE, 12<sup>TH</sup> FLOOR  
OAKLAND, CA 94612

PREPARED BY:  
GEOCON CONSULTANTS, INC.  
6671 BRISA STREET  
LIVERMORE, CALIFORNIA

GEOCON PROJECT NO. E8415-06-83  
CALTRANS EA 04-3A5114



SEPTEMBER 2010



Project No. E8415-06-83  
September 8, 2010

Mr. Chris Bledsoe  
Caltrans – District 4  
111 Grand Avenue  
Oakland, California 94612

Subject: UST REMOVAL REPORT  
TELEGRAPH AVENUE  
OAKLAND, CALIFORNIA  
CONTRACT NO. 43A0199, EA 04-3A5114

Dear Mr. Bledsoe:

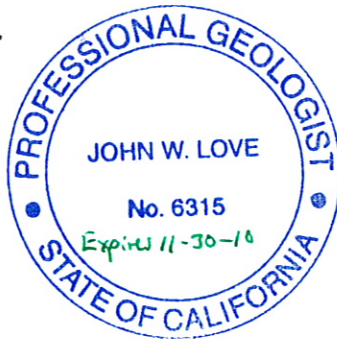
Geocon has prepared this *UST Removal Report* for the above referenced site on behalf of Caltrans - District 4 (Caltrans). The report contains details of field services and laboratory analytical results.

A copy of Caltrans' authorization letter to submit the report to the Alameda County Environmental Health Department is provided in Appendix F. Please contact the undersigned if you have any questions or comments.

Sincerely,  
GEOCON CONSULTANTS, INC.

John Love, PG  
Sr. Project Geologist

JWL:RWD



Richard Day, CEG, CHG  
Regional Manager

- (3) Addressee
- (1) Donna Drogos, Alameda County Health Care Services Agency (electronic submittal)

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# UST REMOVAL REPORT

## 1.0 INTRODUCTION

On behalf of the California Department of Transportation (Caltrans) - District 4, Geocon removed one 650-gallon steel underground storage tank (UST) located beneath the sidewalk along the east side of Telegraph Avenue in Oakland, under the Bay Area Rapid Transit (BART) and Highway 24 overcrossings. In addition to removing the UST, Geocon also over-excavated and arranged for the disposal of 25 tons of petroleum-impacted soil underlying and surrounding the tank.

This report was prepared under Caltrans Contract No. 43A0199, Task Order No. 04-2007-69.

### 1.1 Site Description

The UST was located beneath the sidewalk along the east side of Telegraph Avenue under the BART and Highway 24 overcrossings; approximately 50 feet north of the 56<sup>th</sup> Street intersection in Oakland, California (see Figure 1). The UST was situated adjacent to the BART and Highway 24 overcrossing footings, and Telegraph Avenue. Photographs of the UST removal operations are provided in Appendix A.

### 1.2 Background

The UST was discovered by BART's contractor during seismic retrofit construction activities on July 13, 2010. It was measured to be 8 feet long by 44 inches wide. The UST contained water with a diesel fuel sheen upon discovery. Approximately 711 gallons of fluid and rinsate was removed from the UST by NRC Environmental Services (NRC) on July 16, 2010, in preparation of the UST's removal later that day. A copy of the hazardous waste manifest used to transport and dispose the fluids is provided in Appendix B

### 1.2 Scope of Services

The general scope of services conducted in conjunction with this project consisted of the following:

- Obtained UST removal permit from the City of Oakland Fire Department;
- Removed and disposed of oily water inside the UST;
- Removed, loaded, prepared manifests, and transported UST to a recycling facility for disposal;
- Over-excavated approximately 25 tons of petroleum hydrocarbon-impacted soil;
- Collected excavation confirmation soil samples;

- Loaded, transported, and disposed of soil at the Hay Road Class II Landfill in Vacaville, California; and
- Prepared this report.

## **2.0 UST REMOVAL**

### **2.1 UST Removal and Soil Over-Excavation**

On July 16, 2010, one 650-gallon single-wall steel UST was removed from the site under the oversight of the City of Oakland Fire Department (OFD). A copy of the OFD UST removal permit is provided in Appendix C.

Prior to removing the UST, the atmosphere in the UST was rendered inert by adding 80 pounds of dry ice to displace organic vapors that may have been present in the UST after the oily water and rinsate fluids were removed from the UST by NRC Environmental (see Section 1.2). A Gastech meter was used to confirm the atmosphere inside the UST was less than 10 percent of the lower explosive limit (LEL) prior to physically removing the UST from the ground.

Holes were observed in the UST and an obvious petroleum odor was noticed in the underlying soils. As a result, Geocon removed as much petroleum-impacted soil (nearly 25 tons) surrounding and underlying the UST as possible, given the surrounding overcrossing footings, roadway, sidewalk, and reach capability of the small excavator used to unearth and remove the UST. The resultant excavation was approximately eight feet deep and the irregular-shaped lateral dimensions of the excavation are shown on Figure 2.

The UST was transported by NRC under hazardous waste manifest to the Ecology Control Industries facility in Richmond, California, for recycling. A copy of the hazardous waste manifest is provided in Appendix B.

#### **2.1.1 Excavation Soil Sampling Procedures, Analysis, and Results**

One soil sample was collected beneath the former UST at a depth of approximately eight feet at the direction of the OFD Assistant Fire Marshall, Mr. Keith Mathews. Four additional soil samples were collected from along the bottom of the excavation sidewalls of the completed over-excavation after Mr. Matthews left the site. The additional soil samples were collected for the purpose of assessing the lateral extent of impacts to soil before the excavation was backfilled. All the confirmation soil samples were collected at an approximate depth of eight feet. The sample locations are shown on Figure 2.

Confirmation soil samples were collected from the excavator bucket by driving a stainless steel sample tube into a freshly exposed surface of soil removed from selected areas of the excavation. Upon collection, each sample tube was sealed on both ends with Teflon tape and plastic end caps, and then placed in a chest cooled with ice for transport to the analytical laboratory. The soil samples were delivered under chain-of-custody protocol to McCampbell Analytical, Inc., a State of California-certified laboratory located in Pittsburg, California.

Excavation soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), as diesel (TPHd), and as motor oil (TPHmo) following EPA Test Method 8015B; volatile organic compounds (VOCs) following EPA Test Method 8260B; and Leaking Underground Storage Tank (LUFT) 5 Metals following EPA Test Method 6010/7000.

TPHg, TPHd, and TPHmo were detected in all but one of the soil samples (TPHmo was reported as non-detect in soil sample "Excavation A"). The TPHg concentrations ranged from 5.9 milligrams per kilogram (mg/kg) to 400 mg/kg, TPHd concentrations ranged from 4.2 mg/kg to 110 mg/kg, and detected TPHmo concentrations ranged from 7.7 mg/kg to 14 mg/kg.

Several VOCs were also detected in each of the excavation soil samples; however none of the analytes were reported at concentrations exceeding the San Francisco Bay Regional Water Quality Control Board's (RWQCB's) environmental screening levels (ESLs) for shallow ( $\leq 3$  meters) soils at residential or commercial sites (RWQCB, May 2008, Tables A and B)..

LUFT 5 metals were detected at background concentrations in each of the excavation soil samples.

Excavation soil sample results are tabulated in Tables 1 and 2, and copies of the analytical laboratory data sheets are provide in Appendix D.

Geocon did not backfill the completed excavation. This portion of the project was conducted at a later date by BART contractors.

### **2.1.2 Stockpile Soil Sampling and Results**

Excavated soil was stockpiled in two 20-cubic-yard soil bins. One four-point composite soil sample was collected from each bin and analyzed for the same constituents as the excavation soil samples (see Section 2.1.1). The soil bin samples were also analyzed for soluble threshold limit concentration (STLC) chromium and TPHd following waste extraction test (WET) methodology. These additional analyses were requested by the landfill prior to acceptance of the soil in the bins for disposal.

The soil sample results of the soil bins samples are tabulated in Tables 1 and 2, and copies of the analytical laboratory data sheets are provided in Appendix D.

### **2.1.3 Soil and Groundwater Conditions**

Soils encountered during the UST removal and soil over-excavation activities consisted of firm to very stiff, sandy and silty clays. An obvious petroleum odor was present in the soils from ground surface to the total depth of the excavation; however the intensity of the odors seemed to dissipate with depth.

Groundwater was not encountered during the soil excavation portion of the project; however a review of the Geotracker database indicates there is a Chevron Station (5500 Telegraph Avenue) site situated approximately 200 feet south of the UST removal area, where groundwater was encountered under confined conditions from 10 to 13 feet below ground surface (bgs). Static groundwater at this site was consistently measured between 7 and 9 feet bgs in site monitoring wells, and the groundwater flow direction was towards the south. Given the Chevron Station's proximity to the UST removal area, we would expect groundwater conditions to be similar to that documented at the Chevron site.

## **3.0 SOIL DISPOSAL**

On August 6, 2010, NRC loaded and transported the two soil bins containing a total of 25 tons of petroleum hydrocarbon-impacted soil to the Hay Road Class II Landfill in Vacaville, California.

Copies of the non-hazardous waste manifests and landfill weight tickets for each load are provided in Appendix E.

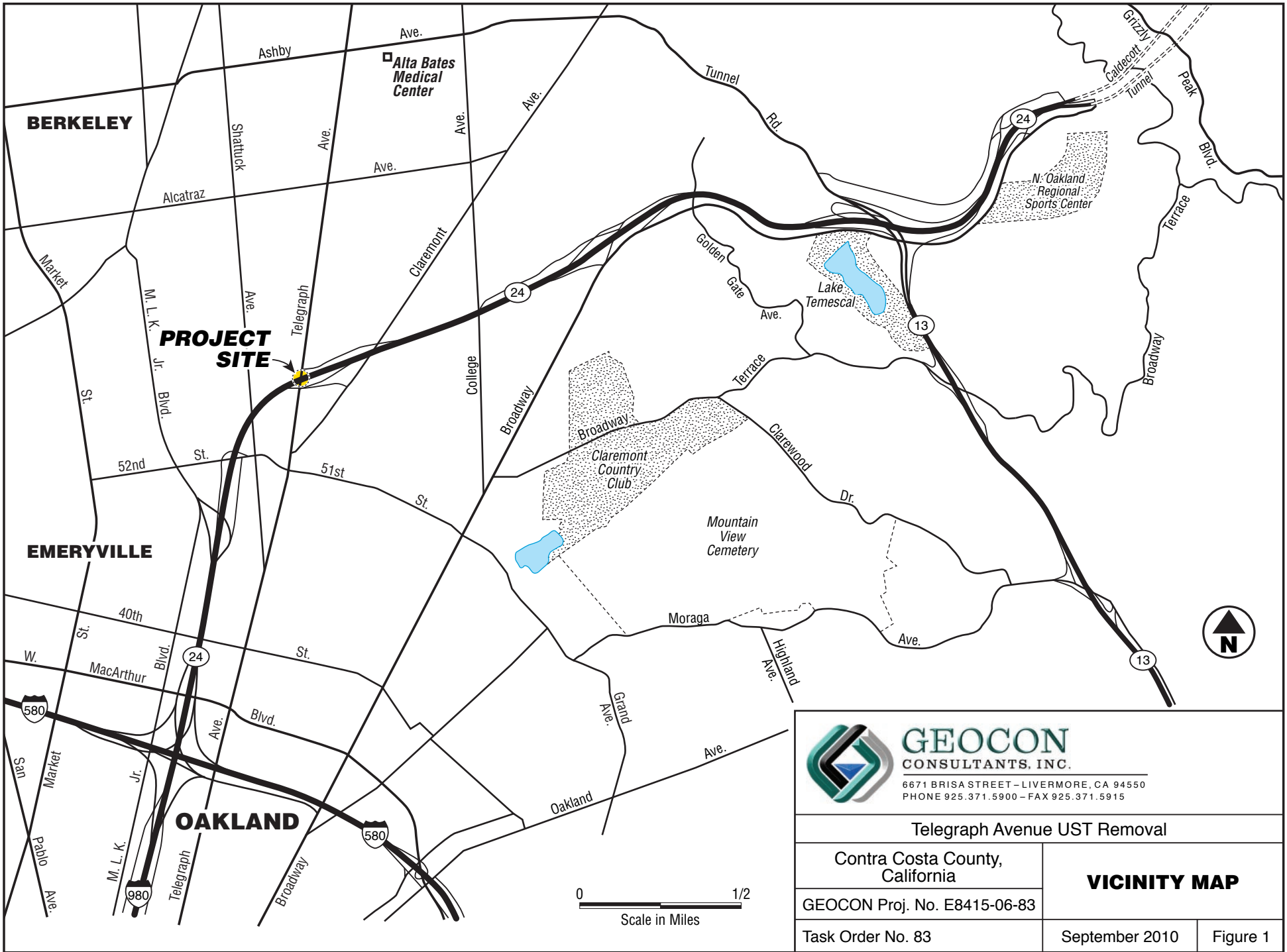
#### 4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on field observations noted during the soil over-excavation activities, as well as analytical laboratory results of confirmation soil samples, the following is concluded:

- Some TPH-impacted soil remains in-place beneath the former UST. Geocon removed as much TPH-impacted soil as physically possible given the surface and subsurface structures surrounding the former UST and the vertical reach of the excavator.
- Given that the former UST area is located beneath the Highway 24 and BART overcrossings adjacent to Telegraph Avenue, groundwater is not likely to be used for drinking water purposes, and residual TPH impacts are located more than four feet below ground surface, the only potential sensitive receptor that could be affected by residual soil impacts would be construction / trench workers directly exposed to affected soil. Since the highest TPHg (400 mg/kg) and TPHd (110 mg/kg) concentrations remaining in-place are below the RWQCB construction / trench worker direct exposure ESLs of 4,200 mg/kg for TPHg and TPHd (RWQCB, May 2008, Table K-3), this potential exposure scenario does not appear to represent an unacceptable concern either.
- Several VOCs were detected in the confirmation soil samples; however, only naphthalene and ethylbenzene have established ESLs. The maximum reported naphthalene (2.0 mg/kg) and ethylbenzene (0.96 mg/kg) concentrations did not exceed their respective RWQCB ESLs of 2.8 mg/kg and 3.3 mg/kg for shallow soils ( $\leq 3$  meters) at commercial/industrial sites where groundwater is and is not a potential drinking water source (RWQCB, May 2008, Tables A and B).

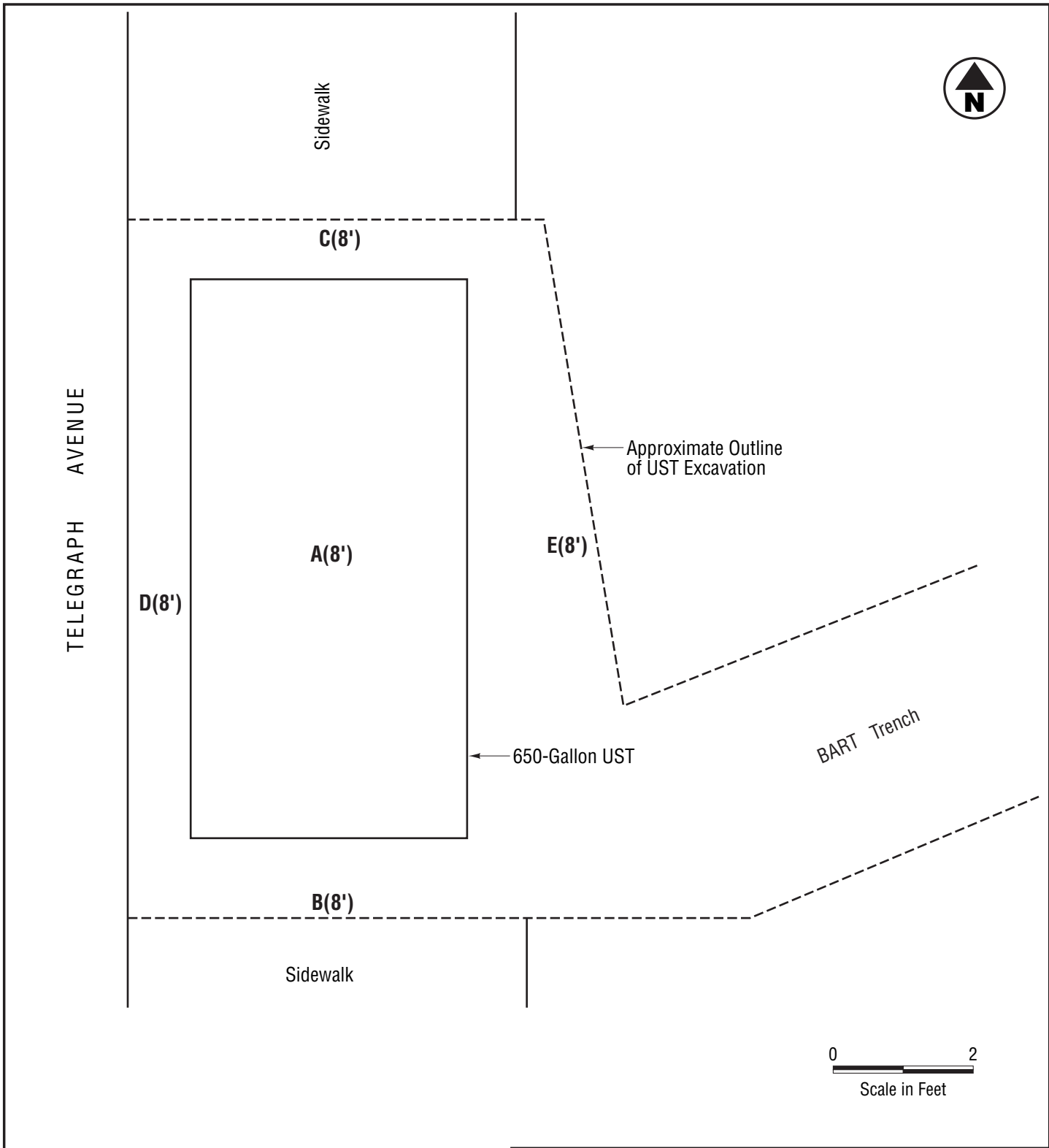
Additional soil removal is not practical given the location of the residually impacted soils. The site is located adjacent to the east side of Telegraph Avenue beneath the BART and Highway 24 overcrossings and as such does not pose a threat to human health or other sensitive receptors. Based on the above information, we recommend the site be considered for case closure by the Alameda County Environmental Health Department.





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Telegraph Avenue UST Removal		
Contra Costa County, California		<b>VICINITY MAP</b>
GEOCON Proj. No. E8415-06-83		
Task Order No. 83	September 2010	Figure 1



**LEGEND:**

**A(8')** Sample ID and Depth of Collection



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Telegraph Avenue UST Removal		
Contra Costa County, California		<b>SAMPLE LOCATION MAP</b>
GEOCON Proj. No. E8415-06-83		
Task Order No. 83	September 2010	Figure 2

**Table 1**  
**Soil Sample Results**  
**TPHg, TPHd, TPHmo, and VOCs**  
**Caltrans - Telegraph Avenue**  
**Oakland, California**

Sample ID	Sample Location	Sample Depth (feet)	Date	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	VOCs (mg/kg)
Excavation A	Bottom Center	8	7/16/10	5.9	4.2	<5.0	n-Butyl benzene = 0.072 n-Propyl benzene = 0.049
Excavation B	South Sidewall	8	7/16/10	150	49	7.7	n-Butyl benzene = 0.59 Naphthalene = 1.8 sec-Butyl benzene = 0.17 Isopropylbenzene = 0.37 n-Propyl benzene = 1.0
Excavation C	North Sidewall	8	7/16/10	380	100	11	n-Butyl benzene = 0.69 4-Isopropyl toluene = 0.31 sec-Butyl benzene = 0.26 Isopropylbenzene = 0.49 n-Propyl benzene = 0.73
Excavation D	West Sidewall	8	7/16/10	190	51	9.3	n-Butyl benzene = 0.32 Naphthalene = 0.57 sec-Butyl benzene = 0.12 Isopropylbenzene = 0.27 n-Propyl benzene = 0.50
Excavation E	East Sidewall	8	7/16/10	400	110	14	n-Butyl benzene = 1.4 4-Isopropyl toluene = 0.39 Naphthalene = 2.0 1,2,4-Trimethylbenzene = 0.23 sec-Butyl benzene = 0.31 Ethylbenzene = 0.96 Isopropylbenzene = 0.72 n-Propyl benzene = 1.5 1,3,5-Trimethylbenzene = 1.2

**Table 1**  
**Soil Sample Results**  
**TPHg, TPHd, TPHmo, and VOCs**  
**Caltrans - Telegraph Avenue**  
**Oakland, California**

Sample ID	Sample Location	Sample Depth (feet)	Date	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	VOCs (mg/kg)
Soil Bin 3156 A-D	4-Point Composite Soil Bin Sample	- -	7/16/10	500	410 / *4.3	60	n-Butyl benzene = 3.2 Naphthalene = 4.0 1,2,4-Trimethylbenzene = 2.1 sec-Butyl benzene = 0.70 Isopropylbenzene = 1.1 n-Propyl benzene = 2.9
Soil Bin 3334 A-D	4-Point Composite Soil Bin Sample	- -	7/16/10	630	360 / *3.4	49	n-Butyl benzene = 4.0 Naphthalene = 14 1,2,4-Trimethylbenzene = 6.6 sec-Butyl benzene = 0.80 Ethylbenzene = 0.77 Isopropylbenzene = 1.3 n-Propyl benzene = 4.4 1,3,5-Trimethylbenzene = 1.7 Xylenes = 0.89

Notes-

mg/kg - milligrams per kilogram

TPHg - Total petroleum hydrocarbons as gasoline

TPHd - Total petroleum hydrocarbons as diesel

TPHmo - Total petroleum hydrocarbons as motor oil

VOCs - Volatile Organic Compounds

\* - Soluble threshold limit concentration (milligrams per liter)

< - Not detected above stated laboratory reporting limit

**Table 2**  
**Soil Sample Results**  
**LUFT 5 Metals**  
**Caltrans - Telegraph Avenue**  
**Oakland, California**

Sample ID	Sample Location	Sample Depth (feet)	Date	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Excavation A	Bottom Center	8	7/16/10	<0.25	53	7.9	37	42
Excavation B	South Sidewall	8	7/16/10	<0.25	52	7.2	31	26
Excavation C	North Sidewall	8	7/16/10	0.31	64	12	87	61
Excavation D	West Sidewall	8	7/16/10	<0.25	55	8.3	48	38
Excavation E	East Sidewall	8	7/16/10	<0.25	46	7.1	61	36
Soil Bin 3156 A-D	4-Point Composite Soil Bin Sample	- -	7/16/10	0.48	56 / *0.18	23	68	190
Soil Bin 3334 A-D	4-Point Composite Soil Bin Sample	- -	7/16/10	0.38	49	22	67	170

Notes-

mg/kg - milligrams per kilogram

\* - Soluble threshold limit concentration (milligrams per liter)

< - Not detected above stated laboratory reporting limit

APPENDIX

A



**Photograph 1 – View looking east across Telegraph Avenue at UST removal area.**



**Photograph 2 – View looking south at UST removal area.**

**GEOCON**

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**SITE PHOTOS 1 and 2**

UST Removal  
Telegraph Avenue  
Oakland, California

E8415-06-83

September 2010



**Photograph 3 – View looking east at UST excavation and immediate surrounding area.**



**Photograph 4 – View of excavation and surrounding soil nails**

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**SITE PHOTOS 3 and 4**

UST Removal  
Telegraph Avenue  
Oakland, California

E8415-06-83

September 2010





**Photograph 5 – View of UST being removed from the ground.**



**Photograph 6 – View of UST being loaded onto NRC truck for disposal.**

**GEOCON**

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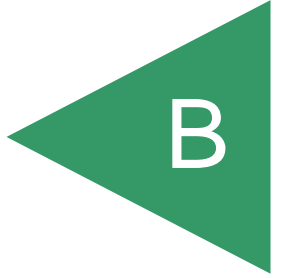
**SITE PHOTOS 5 and 6**

UST Removal  
Telegraph Avenue  
Oakland, California

E8415-06-83

September 2010

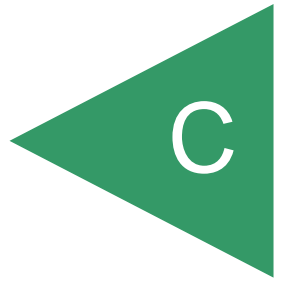
APPENDIX



<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>C A S 1 1 1 1 1 1 0 0 1</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>NRCS 510 749-1390</b>	4. Manifest Tracking Number <b>006626764 JJK</b>		
5. Generator's Name and Mailing Address <b>DEPARTMENT OF TRANSPORTATION CALTRANS DISTRICT 111 GRAND AVENUE FLOOR 12 OAKLAND CA 94823</b>				Generator's Site Address (if different than mailing address) <b>CALTRANS DISTRICT #4 OAKLAND 56TH STREET &amp; TELEGRAPH AVE, UNDER PASS OAKLAND CA</b>			
Generator's Phone: <b>5 1 0 6 2 2 - 8 7 5 0</b>				U.S. EPA ID Number <b>C A R 0 0 0 0 3 0 1 1 4</b>			
6. Transporter 1 Company Name <b>NRC ENVIRONMENTAL SERVICES INC.</b>				U.S. EPA ID Number			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address <b>Evergreen Oil, Inc. 8880 Smith Ave. Newark CA 94580</b>				U.S. EPA ID Number <b>C A D 9 8 0 8 8 7 4 1 8</b>			
Facility's Phone: <b>510 795-4400</b>							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
		<b>1. NON RCRA HAZARDOUS WASTE LIQUID (OILY WATER)</b>	<b>0 0 1</b>	<b>TT</b>	<b>711</b>	<b>G</b>	<b>221</b>
		<b>2.</b>					
		<b>3.</b>					
	<b>4.</b>						
14. Special Handling Instructions and Additional Information <b>WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT JOB#/PO#: 52449 CONSULTANT: GEOCON CONSULTANTS, INC. 6671 BRISA STREET, LIVERMORE, CA. NRCS 1605 FERRY POINT ALAMEDA, CA. 94501</b>							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name <b>Chris Blodsoe</b>				Signature <i>[Signature]</i>		Month Day Year <b>7 1 6 10</b>	
INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
	Transporter signature (for exports only): _____						
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials				Signature		
	Transporter 1 Printed/Typed Name <b>MARCO ARVIZO</b>				Month Day Year <b>7 1 6 10</b>		
Transporter 2 Printed/Typed Name				Signature			
Transporter 2 Signature				Month Day Year			
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	18b. Alternate Facility (or Generator)				Manifest Reference Number: _____ U.S. EPA ID Number		
	Facility's Phone: _____				U.S. EPA ID Number		
18c. Signature of Alternate Facility (or Generator)							
18c. Signature of Alternate Facility (or Generator)							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. <b>H-135</b>		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name <b>DeAndre Green</b>				Signature <i>[Signature]</i>		Month Day Year <b>7 1 6 10</b>	

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>CAS111111001</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>NRCS 510 749-1390</b>	4. Manifest Tracking Number <b>006626765 JJK</b>		
5. Generator's Name and Mailing Address <b>DEPARTMENT OF TRANSPORTATION CALTRANS DISTRICT 111 GRAND AVENUE FLOOR 12 OAKLAND CA 94623</b>			Generator's Site Address (if different than mailing address) <b>CALTRANS DISTRICT#4 OAKLAND 56TH STREET &amp; TELEGRAPH AVE, UNDER PASS OAKLAND CA</b>				
6. Transporter 1 Company Name <b>NRC ENVIRONMENTAL SERVICES INC.</b>			Generator's Phone <b>510 222-8750</b>		U.S. EPA ID Number <b>CAR000030114</b>		
7. Transporter 2 Company Name			U.S. EPA ID Number		U.S. EPA ID Number		
8. Designated Facility Name and Site Address <b>ECOLOGY CONTROL INDUSTRIES 255 PARR BLVD. RICHMOND CA 94801</b>			U.S. EPA ID Number <b>CAE0009488382</b>				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
			No.	Type			
		1. <b>NON RCRA HAZARDOUS WASTE SOLID (EMPTY TANK, RESIDUE LAST CONTAIN OILY WATER)</b>	<b>001</b>	<b>TP</b>	<b>00850</b>	<b>P</b>	<b>512</b>
		2.					
		3.					
	4.						
14. Special Handling Instructions and Additional Information <b>WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT JOB#/PO#: 52449 52T4122</b> <b>CONSULTANT: GEOCON CONSULTANTS, INC. 6571 BRISA STREET, LIVERMORE, CA.</b> <b>NRCS 1605 FERRY POINT ALAMEDA, CA. 94501 TANK# 34084</b>							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name <b>Chris Blodsoe</b>				Signature <i>Chris Blodsoe</i>		Month Day Year <b>07/16/10</b>	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name <b>Carlos Flores</b>				Signature <i>Carlos Flores</i>		Month Day Year <b>07/16/10</b>	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. <b>H129</b>		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a				Signature <i>John Spence</i>		Month Day Year <b>7/16/10</b>	

APPENDIX



# PLAN REVIEW LOG

JOB # - **P10-0683** File \_\_\_\_\_

Date Submitted  
Jul 14, 2010  
Date Assigned  
Jul 14, 2010

Job Site  
Telegraph Ave @ 56th Street,  
HWY 14 and BART  
Overpasses

Company Name  
Geocon Consultants

Type of Plans  
Tank

Disposition

Pick Up/Mailed Date

Company Phone #  
925-371-5900

Reviewer  
Mathews

Pick up person

Pick up person Phone #

Resubmitted

Resubmitted Dates

- Yes  No  
 1st  3rd  
 2nd  4th

- 1.) \_\_\_\_\_  
2.) \_\_\_\_\_  
3.) \_\_\_\_\_  
4.) \_\_\_\_\_

Contact Person  
John Love

Fees Paid  
Yes

- Reviewed Dates  
1.) \_\_\_\_\_  
2.) \_\_\_\_\_  
3.) \_\_\_\_\_  
4.) \_\_\_\_\_

Amount of Time  
\_\_\_\_\_

Expedite/After Hours  
 Yes  No

Fees Paid Date  
Jul 14, 2010

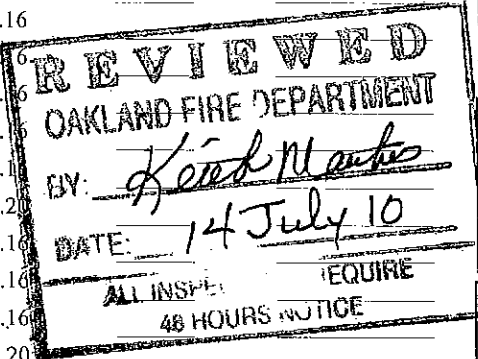
Review Complete Date  
\_\_\_\_\_

**Plan Check Fees (NO inspections included)**

Submittal/Resubmittal, full price for each system

- |  |                              |       |       |
|--|------------------------------|-------|-------|
| a. Sprinkler System/Zone   | <input type="radio"/> 242.16 | _____ | _____ |
| b. Standpipe System  | <input type="radio"/> 242.16 | _____ | _____ |
| c. Underground Main  | <input type="radio"/> 242.16 | _____ | _____ |
| d. Fire Pump System  | <input type="radio"/> 242.16 | _____ | _____ |
| e. Fire Hydrant  | <input type="radio"/> 242.16 | _____ | _____ |
| f. FM 200, Halon, gas suppression system                           | <input type="radio"/> 242.16 | _____ | _____ |
| g. Dry chemical suppression system                                 | <input type="radio"/> 242.16 | _____ | _____ |
| h. Spray Booth Installation  | <input type="radio"/> 242.16 | _____ | _____ |
| <u>Expedited plan check fee (a-h) min 2.0 hr (FP Engineer)</u>     | <input type="radio"/> 352.20 | _____ | _____ |
| i. Evacuation Plans  | <input type="radio"/> 242.16 | _____ | _____ |
| j. Fire Alarm System   | <input type="radio"/> 242.16 | _____ | _____ |
| k. Range Hood & Duct Suppression System                            | <input type="radio"/> 242.16 | _____ | _____ |
| <u>Expedited plan check fee (i-j) min 2.0 hrs (Fire Inspector)</u> | <input type="radio"/> 352.20 | _____ | _____ |

Units                      Subtotal



Comments  
\_\_\_\_\_  
\_\_\_\_\_

Mailing Address

Geocon Consultants

Date:	Check #	Amount Received:
7/14/2010	4036	\$754.89

**Total Amount Received: \$754.89**

**Total Amount Due: \$0.00**

Inspection Fees

- |   |                              |       |       |
|---|------------------------------|-------|-------|
| a. Inspection, \$149.49/hour  | <input type="radio"/> 149.49 | _____ | _____ |
| b. Reinspection, \$149.49/hour  | <input type="radio"/> 149.49 | _____ | _____ |
| c. After Hours Inspection (\$224.24 x 2.5 hrs) \$224.24 after 1st two hours | <input type="radio"/> 560.60 | _____ | _____ |

Tank Permit Fees/CUPA

- |  |   |       |          |
|--|---|-------|----------|
| a. Removal, 1st Tank (\$242.16/hr x 2.5 hrs min. plus inspection \$149.49)<br>\$149.49 each additional tank      | <input checked="" type="radio"/> 754.89<br><input type="radio"/> 149.49 | _____ | \$754.89 |
| b. Installation, 1st Tank (\$242.16/hr x 2.5 hrs min. plus inspection \$598.37)<br>\$149.49 each additional tank | <input type="radio"/> 1203.77<br><input type="radio"/> 149.49           | _____ | _____    |
| c. Modifications: _____  | <input type="radio"/> 142.37  | _____ | _____    |

Other Fees

Consultation Fee / FP Engineer time (\$242.16/hr)  242.16

Building Permit Fire Code Review - 65% of Building Permit Cost: \_\_\_\_\_

**Total Cost \$ 754.89**

Billing Invoice Date:

Updated 3/31/08

CITY OF OAKLAND  
FIRE PREVENTION BUREAU  
250 Frank Ogawa Plaza, Suite 3341  
Oakland, California 94612-2032  
(510) 238-3851

APPLICATION for PERMIT to INSTALL, REMOVE or REPAIR TANKS  
In the CITY OF OAKLAND

Request Submittal Date: 7/14/10

PLEASE CIRCLE APPROPRIATE ACTIONS: Application is hereby made for permit to:

(a) Remove (b) Install (c) Repair (d) Modify (e) Abandon/Close in Place A

(a) Gasoline (b) Fuel oil (c) Diesel (d) \_\_\_\_\_ tank(s) and excavate, commencing:

(a) four feet inside the curb line\*; (b) inside the property line; (c) aboveground; (d) underground tank(s)  
\*inside curb line, please attach copy of sidewalk/excavation permit from PLANNING AND BUILDING

on the east side of Telegraph St. Ave. 50 feet N of 56<sup>th</sup> St. Ave.

Site Address: Telegraph Ave at 56<sup>th</sup> St Present storage heating oil

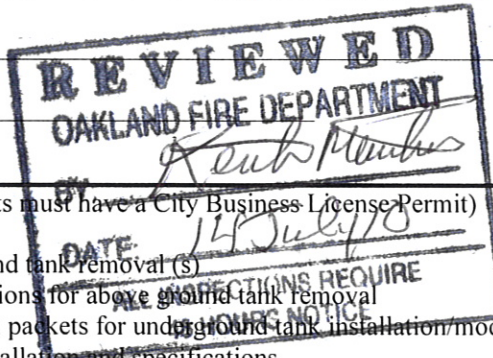
Owner: Caltrans - Dist. 4 Address 111 Grand Ave, 12<sup>th</sup> Flr Phone  
Oakland, CA 94623

Applicant: Geocon Consultants Address 6671 Brisa St. Phone 925-371-5900  
Livermore, CA 94550

Sidewalk surface to be disturbed No Number of Tanks 1 Capacity 630 Gallons ea.

Remarks \_\_\_\_\_

Signature [Signature]



PLEASE ATTACH/SUBMIT: (All applicants must have a City Business License Permit)

- (2) Copies of Closure Plans for underground tank removal (S)
- (2) Sets of plans and (1) copy of specifications for above ground tank removal
- (2) Sets of plans and (2) sets of application packets for underground tank installation/modifications
- (2) Sets of plans for aboveground tank installation and specifications
- copy or prepare to show Planning and Building approval for aboveground tank removal and tank repair

NOTE: FOR TANK INSTALLATION PLEASE SUBMIT THIS APPLICATION FORM ALONG WITH A APPLICATION FOR PERMIT TO OPERATE, MAINTAIN OR STORE

FOR OFFICE USE ONLY

Permit No. \_\_\_\_\_ Amt. Recv'd \_\_\_\_\_ Date Issued: \_\_\_\_\_

Copies to: Electrical Inspection ck# \_\_\_\_\_ Cash \_\_\_\_\_

Receipt# \_\_\_\_\_ Recv'd by: \_\_\_\_\_

# OAKLAND FIRE DEPARTMENT/FIRE PREVENTION BUREAU HAZARDOUS MATERIALS UNIT

250 FRANK H. OGAWA PLAZA, SUITE 3341, OAKLAND, CA 94612-2032 • (510) 238-3927

## HAZARDOUS MATERIALS INSPECTION REPORT

Site Number	Facility Name	Facility Address	Zip Code
	Telegraph <sup>Boat</sup> / <sup>Harbor</sup>	@ 56 + W Telegraph	09

### Inspection Report

PERMISSION TO INSPECT GRANTED

Permit / Fire Extinguisher

10:23 - 11:50

No water in

0% but Elv 2000

80# Dry Ice

8' x 11 1/2" Dump Tank

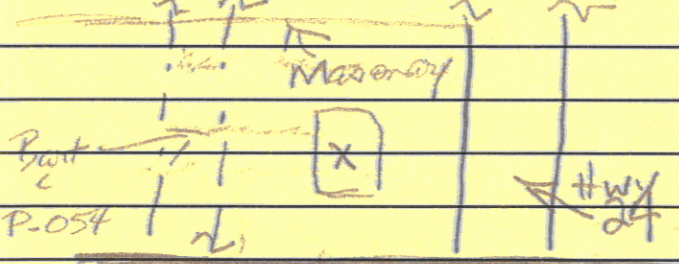
No water in excavation pit

No piping

2 Hdas intact

Overturned Staincoke Smells 7 680 Gallon Tank

Tank excavation stained & Smells 3 Hds Fire Oil / Diesel



Unauthorized Leak Report

Must be Filed w/ Regional Water Board & Oakland Fire

Telegraph

in site Flow Point composition from overboard

8' - One Sample from center of Tank excavation bottom

<p>Facility Contact/Print Name: <i>John Love</i></p> <p>Facility Contact/Signature: 925-371-5900</p>	<p>Inspected By: <i>[Signature]</i></p> <p>238-3927</p> <p>Date: 16 July 10</p>
	<p><input type="checkbox"/> AFM Griffin 238-7759</p> <p><input checked="" type="checkbox"/> Insp. Matthews 238-2396</p> <p><input type="checkbox"/> Insp. Kupers 238-7054</p> <p><input type="checkbox"/> Insp. Skillern 238-7253</p> <p><input type="checkbox"/> _____ 238-3927</p>



APPENDIX





**McC Campbell Analytical, Inc.**

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Web: www.mccampbell.com E-mail: main@mccampbell.com  
Telephone: 877-252-9262 Fax: 925-252-9269

GEOCON Env. Consultants  6671 Brisa St  Livermore, CA 94550	Client Project ID: #E8415-06-83; Caltrans Telegraph	Date Sampled: 07/16/10
		Date Received: 07/16/10
	Client Contact: John Love	Date Reported: 07/22/10
	Client P.O.:	Date Completed: 07/22/10

**WorkOrder: 1007440 A**

July 22, 2010

Dear John:

Enclosed within are:

- 1) The results of the **1** analyzed sample from your project: **#E8415-06-83; Caltrans Telegraph,**
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.



**McCAMPBELL ANALYTICAL, INC.**  
 1534 WILLOW PASS ROAD  
 PITTSBURG, CA 94565-1701 **1007440**  
 Website: [www.mccampbell.com](http://www.mccampbell.com) Email: [main@mccampbell.com](mailto:main@mccampbell.com)  
 Telephone: (877) 252-9262 Fax: (925) 252-9269

**CHAIN OF CUSTODY RECORD**

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

GeoTracker EDF  PDF  Excel  Write On (DW)

Check if sample is effluent and "J" flag is required

**RUSH**

Report To: **John Love** Bill To: **same**

Company: **Geocon Consultants**

Tele: (925) **371-5900** Fax: (925) **371-5915**

Project #: **E8415-06-823** Project Name: **Caltrans Telegraph**

Project Location: **Oakland, CA**

Sampler Signature: **[Signature]**

E-Mail: **love@geoconinc.com**

Analysis Request

Other

Comments

\*\*Indicate here if these samples are potentially dangerous to handle:

SAMPLING

MATRIX

METHOD PRESERVED

Water Soil Air Sludge Other ICE HCL HNO<sub>3</sub> Other

TPHs (8015B)

TPHs + TPH mo (8015B)

VOCs (8260B)

LUFT 5 Metals

STLE CR per J.L. 24hr 7/19/10

Soil Bin 3156 A 7/14/10 11:00 1 SS X X X X X X X X X X

B X X X X X X X X X X

C X X X X X X X X X X

D X X X X X X X X X X

Soil Bin 3334 A 11:50 1 SS X X X X X X X X X X

B X X X X X X X X X X

C X X X X X X X X X X

D X X X X X X X X X X

\*\*MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By: **[Signature]** Date: **7/16/10** Time: **1310** Received By: **[Signature]**

Relinquished By: Date: Time: Received By:

Relinquished By: Date: Time: Received By:

ICE# **11.8**  
 GOOD CONDITION ✓  
 HEAD SPACE ABSENT ✓  
 DECHLORINATED IN LAB ✓  
 APPROPRIATE CONTAINERS ✓  
 PRESERVED IN LAB ✓  
 COMMENTS:  
 composite samples  
 A thru D into one  
 sample → Soil Bin 3156 A-D  
 Soil Bin 3334 A-D  
 VOAS O&G METALS OTHER  
 PRESERVATION pH<2

**McC Campbell Analytical, Inc.**



1534 Willow Pass Rd  
 Pittsburg, CA 94565-1701  
 (925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

**WorkOrder: 1007440 A ClientCode: GECL**

WaterTrax  WriteOn  EDF  Excel  Fax  Email  HardCopy  ThirdParty  J-flag

<b>Report to:</b> John Love GEOCON Env. Consultants 6671 Brisa St Livermore, CA 94550 925-371-5900 FAX 925-371-5915	<b>Email:</b> love@geoconinc.com; Livermore@geoco <b>cc:</b> <b>PO:</b> <b>ProjectNo:</b> #E8415-06-83; Caltrans Telegraph	<b>Bill to:</b> Accounts Payable GEOCON Env. Consultants 6671 Brisa St Livermore, CA 94550	<b>Requested TAT: 1 day</b> <b>Date Received: 07/16/2010</b> <b>Date Add-On: 07/19/2010</b> <b>Date Printed: 07/19/2010</b>
--	---	--	--

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)														
					1	2	3	4	5	6	7	8	9	10	11	12			
1007440-001	Soil Bin 3156 A-D	Soil	7/16/2010 11:00	<input type="checkbox"/>	A														

**Test Legend:**

1	STLCMETALMS_S	2		3		4		5	
6		7		8		9		10	
11		12							

**Prepared by: Maria Venegas**

**Comments:** 24hr Rush. STLC Cr added to #001 24hr per J.L. 07/19/10

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
 Hazardous samples will be returned to client or disposed of at client expense.



# McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
Telephone: 877-252-9262 Fax: 925-252-9269

GEOCON Env. Consultants  6671 Brisa St  Livermore, CA 94550	Client Project ID: #E8415-06-83; Caltrans Telegraph	Date Sampled: 07/16/10
	Client Contact: John Love	Date Received: 07/16/10
	Client P.O.:	Date Extracted: 07/19/10-07/21/10
		Date Analyzed: 07/22/10

### Metals\*

Extraction method: CA Title 22

Analytical methods: SW6020

Work Order: 1007440

Lab ID	Client ID	Matrix	Extraction Type	Chromium	DF	% SS	Comments
1007440-001A	Soil Bin 3156 A-D	S	WET	0.18	1	N/A	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	µg/L
	S	WET	0.1	mg/L

\*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

# means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

WET = Waste Extraction Test, i.e., STLC (Soluble Threshold Limit Concentration).  
DI WET = Waste Extraction Test using DI water (DI STLC).

%SS = Percent Recovery of Surrogate Standard  
DF = Dilution Factor



### QC SUMMARY REPORT FOR SW6020

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 51936

WorkOrder 1007440

EPA Method SW6020		Extraction CA Title 22							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chromium	N/A	10	N/A	N/A	N/A	99	102	3.44	N/A	N/A	75 - 125	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

BATCH 51936 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007440-001A	07/16/10 11:00 AM	07/19/10	07/22/10 8:04 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 % Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).  
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.  
 N/A = not applicable to this method.  
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



## McC Campbell Analytical, Inc.

"When Quality Counts"

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Web: www.mccampbell.com E-mail: main@mccampbell.com  
Telephone: 877-252-9262 Fax: 925-252-9269

GEOCON Env. Consultants  6671 Brisa St  Livermore, CA 94550	Client Project ID: #E8415-06-83; Caltrans Telegraph	Date Sampled: 07/16/10
		Date Received: 07/16/10
	Client Contact: John Love	Date Reported: 07/19/10
	Client P.O.:	Date Completed: 07/19/10

**WorkOrder: 1007439**

July 19, 2010

Dear John:

Enclosed within are:

- 1) The results of the **5** analyzed samples from your project: **#E8415-06-83; Caltrans Telegraph,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.





# McC Campbell Analytical, Inc.



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

**WorkOrder: 1007439**

**ClientCode: GECL**

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  Fax   
 Email   
 HardCopy   
 ThirdParty   
 J-flag

<b>Report to:</b>		<b>Bill to:</b>	<b>Requested TAT: 1 day</b>
John Love	Email: love@geoconinc.com; Livermore@geoco	Accounts Payable	
GEOCON Env. Consultants	cc:	GEOCON Env. Consultants	<i>Date Received: 07/16/2010</i>
6671 Brisa St	PO:	6671 Brisa St	<i>Date Printed: 07/16/2010</i>
Livermore, CA 94550	ProjectNo: #E8415-06-83; Caltrans Telegraph	Livermore, CA 94550	
925-371-5900    FAX 925-371-5915			

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1007439-001	Excavation A 8'	Soil	7/16/2010 10:45	<input type="checkbox"/>	A	A	A									
1007439-002	Excavation B 8'	Soil	7/16/2010 11:10	<input type="checkbox"/>	A	A	A									
1007439-003	Excavation C 8'	Soil	7/16/2010 11:30	<input type="checkbox"/>	A	A	A									
1007439-004	Excavation D 8'	Soil	7/16/2010 12:00	<input type="checkbox"/>	A	A	A									
1007439-005	Excavation E 8'	Soil	7/16/2010 12:05	<input type="checkbox"/>	A	A	A									

**Test Legend:**

1	8260B_S	2	G-MBTEX_S	3	LUFTMS_S	4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A contain testgroup.

**Prepared by: Maria Venegas**

**Comments:**    24hr Rush

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



### Sample Receipt Checklist

Client Name: **GEOCON Env. Consultants**

Date and Time Received: **7/16/2010 1:58:16 PM**

Project Name: **#E8415-06-83; Caltrans Telegraph**

Checklist completed and reviewed by: **Maria Venegas**

WorkOrder N°: **1007439** Matrix Soil

Carrier: Client Drop-In

#### Chain of Custody (COC) Information

- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Sample IDs noted by Client on COC? Yes  No
- Date and Time of collection noted by Client on COC? Yes  No
- Sampler's name noted on COC? Yes  No

#### Sample Receipt Information

- Custody seals intact on shipping container/cooler? Yes  No  NA
- Shipping container/cooler in good condition? Yes  No
- Samples in proper containers/bottles? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No

#### Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes  No
  - Container/Temp Blank temperature Cooler Temp: 11.8°C NA
  - Water - VOA vials have zero headspace / no bubbles? Yes  No  No VOA vials submitted
  - Sample labels checked for correct preservation? Yes  No
  - Metal - pH acceptable upon receipt (pH<2)? Yes  No  NA
  - Samples Received on Ice? Yes  No
- (Ice Type: WET ICE )

\* NOTE: If the "No" box is checked, see comments below.

=====

Client contacted:

Date contacted:

Contacted by:

Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701

Web: www.mcccampbell.com E-mail: main@mcccampbell.com

Telephone: 877-252-9262 Fax: 925-252-9269

GEOCON Env. Consultants  6671 Brisa St  Livermore, CA 94550	Client Project ID: #E8415-06-83; Caltrans Telegraph	Date Sampled: 07/16/10
	Client Contact: John Love	Date Received: 07/16/10
	Client P.O.:	Date Extracted: 07/16/10
		Date Analyzed: 07/19/10

### Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1007439

Lab ID	1007439-001A
Client ID	Excavation A 8'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<0.20	4.0	0.05	tert-Amyl methyl ether (TAME)	ND<0.020	4.0	0.005
Benzene	ND<0.020	4.0	0.005	Bromobenzene	ND<0.020	4.0	0.005
Bromochloromethane	ND<0.020	4.0	0.005	Bromodichloromethane	ND<0.020	4.0	0.005
Bromoform	ND<0.020	4.0	0.005	Bromomethane	ND<0.020	4.0	0.005
2-Butanone (MEK)	ND<0.080	4.0	0.02	t-Butyl alcohol (TBA)	ND<0.20	4.0	0.05
n-Butyl benzene	0.072	4.0	0.005	sec-Butyl benzene	ND<0.020	4.0	0.005
tert-Butyl benzene	ND<0.020	4.0	0.005	Carbon Disulfide	ND<0.020	4.0	0.005
Carbon Tetrachloride	ND<0.020	4.0	0.005	Chlorobenzene	ND<0.020	4.0	0.005
Chloroethane	ND<0.020	4.0	0.005	Chloroform	ND<0.020	4.0	0.005
Chloromethane	ND<0.020	4.0	0.005	2-Chlorotoluene	ND<0.020	4.0	0.005
4-Chlorotoluene	ND<0.020	4.0	0.005	Dibromochloromethane	ND<0.020	4.0	0.005
1,2-Dibromo-3-chloropropane	ND<0.016	4.0	0.004	1,2-Dibromoethane (EDB)	ND<0.016	4.0	0.004
Dibromomethane	ND<0.020	4.0	0.005	1,2-Dichlorobenzene	ND<0.020	4.0	0.005
1,3-Dichlorobenzene	ND<0.020	4.0	0.005	1,4-Dichlorobenzene	ND<0.020	4.0	0.005
Dichlorodifluoromethane	ND<0.020	4.0	0.005	1,1-Dichloroethane	ND<0.020	4.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.016	4.0	0.004	1,1-Dichloroethene	ND<0.020	4.0	0.005
cis-1,2-Dichloroethene	ND<0.020	4.0	0.005	trans-1,2-Dichloroethene	ND<0.020	4.0	0.005
1,2-Dichloropropane	ND<0.020	4.0	0.005	1,3-Dichloropropane	ND<0.020	4.0	0.005
2,2-Dichloropropane	ND<0.020	4.0	0.005	1,1-Dichloropropene	ND<0.020	4.0	0.005
cis-1,3-Dichloropropene	ND<0.020	4.0	0.005	trans-1,3-Dichloropropene	ND<0.020	4.0	0.005
Diisopropyl ether (DIPE)	ND<0.020	4.0	0.005	Ethylbenzene	ND<0.020	4.0	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.020	4.0	0.005	Freon 113	ND<0.40	4.0	0.1
Hexachlorobutadiene	ND<0.020	4.0	0.005	Hexachloroethane	ND<0.020	4.0	0.005
2-Hexanone	ND<0.020	4.0	0.005	Isopropylbenzene	ND<0.020	4.0	0.005
4-Isopropyl toluene	ND<0.020	4.0	0.005	Methyl-t-butyl ether (MTBE)	ND<0.020	4.0	0.005
Methylene chloride	ND<0.020	4.0	0.005	4-Methyl-2-pentanone (MIBK)	ND<0.020	4.0	0.005
Naphthalene	ND<0.020	4.0	0.005	n-Propyl benzene	0.049	4.0	0.005
Styrene	ND<0.020	4.0	0.005	1,1,1,2-Tetrachloroethane	ND<0.020	4.0	0.005
1,1,1,2-Tetrachloroethane	ND<0.020	4.0	0.005	Tetrachloroethene	ND<0.020	4.0	0.005
Toluene	ND<0.020	4.0	0.005	1,2,3-Trichlorobenzene	ND<0.020	4.0	0.005
1,2,4-Trichlorobenzene	ND<0.020	4.0	0.005	1,1,1-Trichloroethane	ND<0.020	4.0	0.005
1,1,2-Trichloroethane	ND<0.020	4.0	0.005	Trichloroethene	ND<0.020	4.0	0.005
Trichlorofluoromethane	ND<0.020	4.0	0.005	1,2,3-Trichloropropane	ND<0.020	4.0	0.005
1,2,4-Trimethylbenzene	ND<0.020	4.0	0.005	1,3,5-Trimethylbenzene	ND<0.020	4.0	0.005
Vinyl Chloride	ND<0.020	4.0	0.005	Xylenes	ND<0.020	4.0	0.005

#### Surrogate Recoveries (%)

%SS1:	107	%SS2:	96
%SS3:	90		

#### Comments:

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

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

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



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GEOCON Env. Consultants  6671 Brisa St  Livermore, CA 94550	Client Project ID: #E8415-06-83; Caltrans Telegraph	Date Sampled: 07/16/10
	Client Contact: John Love	Date Received: 07/16/10
	Client P.O.:	Date Extracted: 07/16/10
		Date Analyzed: 07/19/10

## Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1007439

Lab ID	1007439-002A
Client ID	Excavation B 8'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<1.0	20	0.05	tert-Amyl methyl ether (TAME)	ND<0.10	20	0.005
Benzene	ND<0.10	20	0.005	Bromobenzene	ND<0.10	20	0.005
Bromochloromethane	ND<0.10	20	0.005	Bromodichloromethane	ND<0.10	20	0.005
Bromoform	ND<0.10	20	0.005	Bromomethane	ND<0.10	20	0.005
2-Butanone (MEK)	ND<0.40	20	0.02	t-Butyl alcohol (TBA)	ND<1.0	20	0.05
n-Butyl benzene	0.59	20	0.005	sec-Butyl benzene	0.17	20	0.005
tert-Butyl benzene	ND<0.10	20	0.005	Carbon Disulfide	ND<0.10	20	0.005
Carbon Tetrachloride	ND<0.10	20	0.005	Chlorobenzene	ND<0.10	20	0.005
Chloroethane	ND<0.10	20	0.005	Chloroform	ND<0.10	20	0.005
Chloromethane	ND<0.10	20	0.005	2-Chlorotoluene	ND<0.10	20	0.005
4-Chlorotoluene	ND<0.10	20	0.005	Dibromochloromethane	ND<0.10	20	0.005
1,2-Dibromo-3-chloropropane	ND<0.080	20	0.004	1,2-Dibromoethane (EDB)	ND<0.080	20	0.004
Dibromomethane	ND<0.10	20	0.005	1,2-Dichlorobenzene	ND<0.10	20	0.005
1,3-Dichlorobenzene	ND<0.10	20	0.005	1,4-Dichlorobenzene	ND<0.10	20	0.005
Dichlorodifluoromethane	ND<0.10	20	0.005	1,1-Dichloroethane	ND<0.10	20	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.080	20	0.004	1,1-Dichloroethene	ND<0.10	20	0.005
cis-1,2-Dichloroethene	ND<0.10	20	0.005	trans-1,2-Dichloroethene	ND<0.10	20	0.005
1,2-Dichloropropane	ND<0.10	20	0.005	1,3-Dichloropropane	ND<0.10	20	0.005
2,2-Dichloropropane	ND<0.10	20	0.005	1,1-Dichloropropene	ND<0.10	20	0.005
cis-1,3-Dichloropropene	ND<0.10	20	0.005	trans-1,3-Dichloropropene	ND<0.10	20	0.005
Diisopropyl ether (DIPE)	ND<0.10	20	0.005	Ethylbenzene	ND<0.10	20	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.10	20	0.005	Freon 113	ND<2.0	20	0.1
Hexachlorobutadiene	ND<0.10	20	0.005	Hexachloroethane	ND<0.10	20	0.005
2-Hexanone	ND<0.10	20	0.005	Isopropylbenzene	0.37	20	0.005
4-Isopropyl toluene	ND<0.10	20	0.005	Methyl-t-butyl ether (MTBE)	ND<0.10	20	0.005
Methylene chloride	ND<0.10	20	0.005	4-Methyl-2-pentanone (MIBK)	ND<0.10	20	0.005
Naphthalene	1.8	20	0.005	n-Propyl benzene	1.0	20	0.005
Styrene	ND<0.10	20	0.005	1,1,1,2-Tetrachloroethane	ND<0.10	20	0.005
1,1,1,2-Tetrachloroethane	ND<0.10	20	0.005	Tetrachloroethene	ND<0.10	20	0.005
Toluene	ND<0.10	20	0.005	1,2,3-Trichlorobenzene	ND<0.10	20	0.005
1,2,4-Trichlorobenzene	ND<0.10	20	0.005	1,1,1-Trichloroethane	ND<0.10	20	0.005
1,1,2-Trichloroethane	ND<0.10	20	0.005	Trichloroethene	ND<0.10	20	0.005
Trichlorofluoromethane	ND<0.10	20	0.005	1,2,3-Trichloropropane	ND<0.10	20	0.005
1,2,4-Trimethylbenzene	ND<0.10	20	0.005	1,3,5-Trimethylbenzene	ND<0.10	20	0.005
Vinyl Chloride	ND<0.10	20	0.005	Xylenes	ND<0.10	20	0.005

### Surrogate Recoveries (%)

%SS1:	97	%SS2:	124
%SS3:	113		

### Comments:

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

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

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



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GEOCON Env. Consultants  6671 Brisa St  Livermore, CA 94550	Client Project ID: #E8415-06-83; Caltrans Telegraph	Date Sampled: 07/16/10
	Client Contact: John Love	Date Received: 07/16/10
	Client P.O.:	Date Extracted: 07/16/10
		Date Analyzed: 07/19/10

### Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1007439

Lab ID	1007439-003A
Client ID	Excavation C 8'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<1.0	20	0.05	tert-Amyl methyl ether (TAME)	ND<0.10	20	0.005
Benzene	ND<0.10	20	0.005	Bromobenzene	ND<0.10	20	0.005
Bromochloromethane	ND<0.10	20	0.005	Bromodichloromethane	ND<0.10	20	0.005
Bromoform	ND<0.10	20	0.005	Bromomethane	ND<0.10	20	0.005
2-Butanone (MEK)	ND<0.40	20	0.02	t-Butyl alcohol (TBA)	ND<1.0	20	0.05
n-Butyl benzene	0.69	20	0.005	sec-Butyl benzene	0.26	20	0.005
tert-Butyl benzene	ND<0.10	20	0.005	Carbon Disulfide	ND<0.10	20	0.005
Carbon Tetrachloride	ND<0.10	20	0.005	Chlorobenzene	ND<0.10	20	0.005
Chloroethane	ND<0.10	20	0.005	Chloroform	ND<0.10	20	0.005
Chloromethane	ND<0.10	20	0.005	2-Chlorotoluene	ND<0.10	20	0.005
4-Chlorotoluene	ND<0.10	20	0.005	Dibromochloromethane	ND<0.10	20	0.005
1,2-Dibromo-3-chloropropane	ND<0.080	20	0.004	1,2-Dibromoethane (EDB)	ND<0.080	20	0.004
Dibromomethane	ND<0.10	20	0.005	1,2-Dichlorobenzene	ND<0.10	20	0.005
1,3-Dichlorobenzene	ND<0.10	20	0.005	1,4-Dichlorobenzene	ND<0.10	20	0.005
Dichlorodifluoromethane	ND<0.10	20	0.005	1,1-Dichloroethane	ND<0.10	20	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.080	20	0.004	1,1-Dichloroethene	ND<0.10	20	0.005
cis-1,2-Dichloroethene	ND<0.10	20	0.005	trans-1,2-Dichloroethene	ND<0.10	20	0.005
1,2-Dichloropropane	ND<0.10	20	0.005	1,3-Dichloropropane	ND<0.10	20	0.005
2,2-Dichloropropane	ND<0.10	20	0.005	1,1-Dichloropropene	ND<0.10	20	0.005
cis-1,3-Dichloropropene	ND<0.10	20	0.005	trans-1,3-Dichloropropene	ND<0.10	20	0.005
Diisopropyl ether (DIPE)	ND<0.10	20	0.005	Ethylbenzene	ND<0.10	20	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.10	20	0.005	Freon 113	ND<2.0	20	0.1
Hexachlorobutadiene	ND<0.10	20	0.005	Hexachloroethane	ND<0.10	20	0.005
2-Hexanone	ND<0.10	20	0.005	Isopropylbenzene	0.49	20	0.005
4-Isopropyl toluene	0.31	20	0.005	Methyl-t-butyl ether (MTBE)	ND<0.10	20	0.005
Methylene chloride	ND<0.10	20	0.005	4-Methyl-2-pentanone (MIBK)	ND<0.10	20	0.005
Naphthalene	ND<0.10	20	0.005	n-Propyl benzene	0.73	20	0.005
Styrene	ND<0.10	20	0.005	1,1,1,2-Tetrachloroethane	ND<0.10	20	0.005
1,1,1,2-Tetrachloroethane	ND<0.10	20	0.005	Tetrachloroethene	ND<0.10	20	0.005
Toluene	ND<0.10	20	0.005	1,2,3-Trichlorobenzene	ND<0.10	20	0.005
1,2,4-Trichlorobenzene	ND<0.10	20	0.005	1,1,1-Trichloroethane	ND<0.10	20	0.005
1,1,2-Trichloroethane	ND<0.10	20	0.005	Trichloroethene	ND<0.10	20	0.005
Trichlorofluoromethane	ND<0.10	20	0.005	1,2,3-Trichloropropane	ND<0.10	20	0.005
1,2,4-Trimethylbenzene	ND<0.10	20	0.005	1,3,5-Trimethylbenzene	ND<0.10	20	0.005
Vinyl Chloride	ND<0.10	20	0.005	Xylenes	ND<0.10	20	0.005

#### Surrogate Recoveries (%)

%SS1:	96	%SS2:	122
%SS3:	106		

Comments:

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

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

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard  
DF = Dilution Factor



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GEOCON Env. Consultants  6671 Brisa St  Livermore, CA 94550	Client Project ID: #E8415-06-83; Caltrans Telegraph	Date Sampled: 07/16/10
	Client Contact: John Love	Date Received: 07/16/10
	Client P.O.:	Date Extracted: 07/16/10
		Date Analyzed: 07/17/10

### Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1007439

Lab ID	1007439-004A
Client ID	Excavation D 8'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<1.0	20	0.05	tert-Amyl methyl ether (TAME)	ND<0.10	20	0.005
Benzene	ND<0.10	20	0.005	Bromobenzene	ND<0.10	20	0.005
Bromochloromethane	ND<0.10	20	0.005	Bromodichloromethane	ND<0.10	20	0.005
Bromoform	ND<0.10	20	0.005	Bromomethane	ND<0.10	20	0.005
2-Butanone (MEK)	ND<0.40	20	0.02	t-Butyl alcohol (TBA)	ND<1.0	20	0.05
n-Butyl benzene	0.32	20	0.005	sec-Butyl benzene	0.12	20	0.005
tert-Butyl benzene	ND<0.10	20	0.005	Carbon Disulfide	ND<0.10	20	0.005
Carbon Tetrachloride	ND<0.10	20	0.005	Chlorobenzene	ND<0.10	20	0.005
Chloroethane	ND<0.10	20	0.005	Chloroform	ND<0.10	20	0.005
Chloromethane	ND<0.10	20	0.005	2-Chlorotoluene	ND<0.10	20	0.005
4-Chlorotoluene	ND<0.10	20	0.005	Dibromochloromethane	ND<0.10	20	0.005
1,2-Dibromo-3-chloropropane	ND<0.080	20	0.004	1,2-Dibromoethane (EDB)	ND<0.080	20	0.004
Dibromomethane	ND<0.10	20	0.005	1,2-Dichlorobenzene	ND<0.10	20	0.005
1,3-Dichlorobenzene	ND<0.10	20	0.005	1,4-Dichlorobenzene	ND<0.10	20	0.005
Dichlorodifluoromethane	ND<0.10	20	0.005	1,1-Dichloroethane	ND<0.10	20	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.080	20	0.004	1,1-Dichloroethene	ND<0.10	20	0.005
cis-1,2-Dichloroethene	ND<0.10	20	0.005	trans-1,2-Dichloroethene	ND<0.10	20	0.005
1,2-Dichloropropane	ND<0.10	20	0.005	1,3-Dichloropropane	ND<0.10	20	0.005
2,2-Dichloropropane	ND<0.10	20	0.005	1,1-Dichloropropene	ND<0.10	20	0.005
cis-1,3-Dichloropropene	ND<0.10	20	0.005	trans-1,3-Dichloropropene	ND<0.10	20	0.005
Diisopropyl ether (DIPE)	ND<0.10	20	0.005	Ethylbenzene	ND<0.10	20	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.10	20	0.005	Freon 113	ND<2.0	20	0.1
Hexachlorobutadiene	ND<0.10	20	0.005	Hexachloroethane	ND<0.10	20	0.005
2-Hexanone	ND<0.10	20	0.005	Isopropylbenzene	0.27	20	0.005
4-Isopropyl toluene	ND<0.10	20	0.005	Methyl-t-butyl ether (MTBE)	ND<0.10	20	0.005
Methylene chloride	ND<0.10	20	0.005	4-Methyl-2-pentanone (MIBK)	ND<0.10	20	0.005
Naphthalene	0.57	20	0.005	n-Propyl benzene	0.50	20	0.005
Styrene	ND<0.10	20	0.005	1,1,1,2-Tetrachloroethane	ND<0.10	20	0.005
1,1,1,2-Tetrachloroethane	ND<0.10	20	0.005	Tetrachloroethene	ND<0.10	20	0.005
Toluene	ND<0.10	20	0.005	1,2,3-Trichlorobenzene	ND<0.10	20	0.005
1,2,4-Trichlorobenzene	ND<0.10	20	0.005	1,1,1-Trichloroethane	ND<0.10	20	0.005
1,1,2-Trichloroethane	ND<0.10	20	0.005	Trichloroethene	ND<0.10	20	0.005
Trichlorofluoromethane	ND<0.10	20	0.005	1,2,3-Trichloropropane	ND<0.10	20	0.005
1,2,4-Trimethylbenzene	ND<0.10	20	0.005	1,3,5-Trimethylbenzene	ND<0.10	20	0.005
Vinyl Chloride	ND<0.10	20	0.005	Xylenes	ND<0.10	20	0.005

#### Surrogate Recoveries (%)

%SS1:	111	%SS2:	108
%SS3:	126		

#### Comments:

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

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

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



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GEOCON Env. Consultants  6671 Brisa St  Livermore, CA 94550	Client Project ID: #E8415-06-83; Caltrans Telegraph	Date Sampled: 07/16/10
	Client Contact: John Love	Date Received: 07/16/10
	Client P.O.:	Date Extracted: 07/16/10
		Date Analyzed: 07/19/10

### Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1007439

Lab ID	1007439-005A
Client ID	Excavation E 8'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<1.0	20	0.05	tert-Amyl methyl ether (TAME)	ND<0.10	20	0.005
Benzene	ND<0.10	20	0.005	Bromobenzene	ND<0.10	20	0.005
Bromochloromethane	ND<0.10	20	0.005	Bromodichloromethane	ND<0.10	20	0.005
Bromoform	ND<0.10	20	0.005	Bromomethane	ND<0.10	20	0.005
2-Butanone (MEK)	ND<0.40	20	0.02	t-Butyl alcohol (TBA)	ND<1.0	20	0.05
n-Butyl benzene	1.4	20	0.005	sec-Butyl benzene	0.31	20	0.005
tert-Butyl benzene	ND<0.10	20	0.005	Carbon Disulfide	ND<0.10	20	0.005
Carbon Tetrachloride	ND<0.10	20	0.005	Chlorobenzene	ND<0.10	20	0.005
Chloroethane	ND<0.10	20	0.005	Chloroform	ND<0.10	20	0.005
Chloromethane	ND<0.10	20	0.005	2-Chlorotoluene	ND<0.10	20	0.005
4-Chlorotoluene	ND<0.10	20	0.005	Dibromochloromethane	ND<0.10	20	0.005
1,2-Dibromo-3-chloropropane	ND<0.080	20	0.004	1,2-Dibromoethane (EDB)	ND<0.080	20	0.004
Dibromomethane	ND<0.10	20	0.005	1,2-Dichlorobenzene	ND<0.10	20	0.005
1,3-Dichlorobenzene	ND<0.10	20	0.005	1,4-Dichlorobenzene	ND<0.10	20	0.005
Dichlorodifluoromethane	ND<0.10	20	0.005	1,1-Dichloroethane	ND<0.10	20	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.080	20	0.004	1,1-Dichloroethene	ND<0.10	20	0.005
cis-1,2-Dichloroethene	ND<0.10	20	0.005	trans-1,2-Dichloroethene	ND<0.10	20	0.005
1,2-Dichloropropane	ND<0.10	20	0.005	1,3-Dichloropropane	ND<0.10	20	0.005
2,2-Dichloropropane	ND<0.10	20	0.005	1,1-Dichloropropene	ND<0.10	20	0.005
cis-1,3-Dichloropropene	ND<0.10	20	0.005	trans-1,3-Dichloropropene	ND<0.10	20	0.005
Diisopropyl ether (DIPE)	ND<0.10	20	0.005	Ethylbenzene	0.96	20	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.10	20	0.005	Freon 113	ND<2.0	20	0.1
Hexachlorobutadiene	ND<0.10	20	0.005	Hexachloroethane	ND<0.10	20	0.005
2-Hexanone	ND<0.10	20	0.005	Isopropylbenzene	0.72	20	0.005
4-Isopropyl toluene	0.39	20	0.005	Methyl-t-butyl ether (MTBE)	ND<0.10	20	0.005
Methylene chloride	ND<0.10	20	0.005	4-Methyl-2-pentanone (MIBK)	ND<0.10	20	0.005
Naphthalene	2.0	20	0.005	n-Propyl benzene	1.5	20	0.005
Styrene	ND<0.10	20	0.005	1,1,1,2-Tetrachloroethane	ND<0.10	20	0.005
1,1,1,2-Tetrachloroethane	ND<0.10	20	0.005	Tetrachloroethene	ND<0.10	20	0.005
Toluene	ND<0.10	20	0.005	1,2,3-Trichlorobenzene	ND<0.10	20	0.005
1,2,4-Trichlorobenzene	ND<0.10	20	0.005	1,1,1-Trichloroethane	ND<0.10	20	0.005
1,1,2-Trichloroethane	ND<0.10	20	0.005	Trichloroethene	ND<0.10	20	0.005
Trichlorofluoromethane	ND<0.10	20	0.005	1,2,3-Trichloropropane	ND<0.10	20	0.005
1,2,4-Trimethylbenzene	0.23	20	0.005	1,3,5-Trimethylbenzene	1.2	20	0.005
Vinyl Chloride	ND<0.10	20	0.005	Xylenes	ND<0.10	20	0.005

#### Surrogate Recoveries (%)

%SS1:	96	%SS2:	124
%SS3:	96		

#### Comments:

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

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

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



**McC Campbell Analytical, Inc.**

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
 Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
 Telephone: 877-252-9262 Fax: 925-252-9269

GEOCON Env. Consultants  6671 Brisa St  Livermore, CA 94550	Client Project ID: #E8415-06-83; Caltrans Telegraph	Date Sampled: 07/16/10
	Client Contact: John Love	Date Received: 07/16/10
	Client P.O.:	Date Analyzed 07/16/10-07/19/10
		Date Extracted: 07/16/10

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\***

Extraction method SW5030B Analytical methods SW8015Bm Work Order: 1007439

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
001A	Excavation A 8'	S	5.9	1	85	d7,d9
002A	Excavation B 8'	S	150	10	99	d7,d9
003A	Excavation C 8'	S	380	20	---#	d7,d9
004A	Excavation D 8'	S	190	100	103	d7,d9
005A	Excavation E 8'	S	400	20	---#	d7,d9

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 µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

# cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

%SS = Percent Recovery of Surrogate Standard  
 DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram  
 d9) no recognizable pattern





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GEOCON Env. Consultants  6671 Brisa St  Livermore, CA 94550	Client Project ID: #E8415-06-83; Caltrans Telegraph	Date Sampled: 07/16/10
	Client Contact: John Love	Date Received: 07/16/10
	Client P.O.:	Date Extracted: 07/16/10
		Date Analyzed: 07/19/10

### LUFT 5 Metals\*

Extraction method: SW3050B

Analytical methods: SW6020

Work Order: 1007439

Lab ID	Client ID	Matrix	Extraction Type	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS	Comments
001A	Excavation A 8'	S	TOTAL	ND	53	7.9	37	42	1	116	
002A	Excavation B 8'	S	TOTAL	ND	52	7.2	31	26	1	109	
003A	Excavation C 8'	S	TOTAL	0.31	64	12	87	61	1	113	
004A	Excavation D 8'	S	TOTAL	ND	55	8.3	48	38	1	111	
005A	Excavation E 8'	S	TOTAL	ND	46	7.1	61	36	1	110	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	TOTAL	NA	NA	NA	NA	NA	NA	NA
	S	TOTAL	0.25	0.5	0.5	0.5	5.0	mg/Kg	

\*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

# means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.  
 TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.  
 DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard  
 DF = Dilution Factor



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GEOCON Env. Consultants  6671 Brisa St  Livermore, CA 94550	Client Project ID: #E8415-06-83; Caltrans	Date Sampled: 07/16/10
	Telegraph	Date Received: 07/16/10
	Client Contact: John Love	Date Extracted: 07/16/10
	Client P.O.:	Date Analyzed: 07/17/10

### Total Extractable Petroleum Hydrocarbons\*

Extraction method: SW3550B

Analytical methods: SW8015B

Work Order: 1007439

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1007439-001A	Excavation A 8'	S	4.2	ND	1	116	e11,e2
1007439-002A	Excavation B 8'	S	49	7.7	1	105	e11,e2
1007439-003A	Excavation C 8'	S	100	11	1	108	e11,e2
1007439-004A	Excavation D 8'	S	51	9.3	1	108	e11,e2
1007439-005A	Excavation E 8'	S	110	14	1	106	e11,e2

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

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/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.

%SS = Percent Recovery of Surrogate Standard  
DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern  
e11) stoddard solvent/mineral spirit (?)



### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 51832

WorkOrder 1007439

EPA Method SW8260B	Extraction SW5030B								Spiked Sample ID: 1007371-009A			
	Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	75	73.5	2.00	76.4	76.7	0.339	70 - 130	30	70 - 130	30
Benzene	ND	0.050	108	107	0.872	114	113	0.795	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	81.4	78.9	3.15	88.8	83.6	5.96	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	106	105	0.493	110	107	2.29	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	94.5	91.7	2.97	97.5	98.1	0.597	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	97	92.2	5.08	98.3	97.7	0.639	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	129	123	5.15	128	127	0.946	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	107	106	1.12	103	104	1.41	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	92.5	91.2	1.36	91.5	91.5	0	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	96.5	94.7	1.86	97.9	97.2	0.688	70 - 130	30	70 - 130	30
Toluene	ND	0.050	112	111	0.805	115	114	0.903	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	110	108	1.41	110	111	1.18	70 - 130	30	70 - 130	30
%SS1:	113	0.13	98	96	1.48	95	95	0	70 - 130	30	70 - 130	30
%SS2:	117	0.13	106	105	1.59	106	104	1.77	70 - 130	30	70 - 130	30
%SS3:	112	0.013	111	114	2.53	111	114	3.23	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

#### BATCH 51832 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007439-001A	07/16/10 10:45 AM	07/16/10	07/19/10 10:15 AM	1007439-002A	07/16/10 11:10 AM	07/16/10	07/19/10 11:50 AM
1007439-003A	07/16/10 11:30 AM	07/16/10	07/19/10 1:33 PM	1007439-004A	07/16/10 12:00 PM	07/16/10	07/17/10 12:29 AM
1007439-005A	07/16/10 12:05 PM	07/16/10	07/19/10 2:15 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 51893

WorkOrder 1007439

Analyte	EPA Method SW8021B/8015Bm		Extraction SW5030B						Spiked Sample ID: 1007417-001A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) <sup>£</sup>	ND	0.60	100	100	0	100	101	0.837	70 - 130	20	70 - 130	20
MTBE	ND	0.10	117	113	3.31	118	118	0	70 - 130	20	70 - 130	20
Benzene	ND	0.10	106	112	5.78	110	107	2.37	70 - 130	20	70 - 130	20
Toluene	ND	0.10	92.4	97.1	4.91	95.5	93.9	1.62	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	96.8	95.1	1.78	99.9	98	1.86	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	108	113	4.26	112	110	1.65	70 - 130	20	70 - 130	20
%SS:	80	0.10	105	111	5.87	109	107	1.59	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

BATCH 51893 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007439-001A	07/16/10 10:45 AM	07/16/10	07/16/10 11:45 PM	1007439-002A	07/16/10 11:10 AM	07/16/10	07/19/10 2:30 PM
1007439-003A	07/16/10 11:30 AM	07/16/10	07/19/10 11:57 AM	1007439-004A	07/16/10 12:00 PM	07/16/10	07/19/10 12:27 PM
1007439-005A	07/16/10 12:05 PM	07/16/10	07/19/10 12:58 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



### QC SUMMARY REPORT FOR SW6020

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 1007439

EPA Method SW6020		Extraction SW3050B				BatchID: 51865			Spiked Sample ID: 1007439-005A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Cadmium	ND	50	103	91.4	12.1	10	102	93.6	8.05	75 - 125	20	75 - 125	20
Chromium	46	50	90.5	80.3	5.71	10	100	92.8	7.57	75 - 125	20	75 - 125	20
Lead	7.1	50	102	90	10.8	10	99.8	92.4	7.54	75 - 125	20	75 - 125	20
Nickel	61	50	NR	NR	NR	10	103	97.8	4.68	75 - 125	20	75 - 125	20
Zinc	36	500	102	90.7	10.9	100	104	98.3	5.77	75 - 125	20	75 - 125	20
%SS:	110	250	110	98	12.0	250	104	97	7.14	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

#### BATCH 51865 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007439-001A	07/16/10 10:45 AM	07/16/10	07/19/10 12:53 PM	1007439-002A	07/16/10 11:10 AM	07/16/10	07/19/10 1:00 PM
1007439-003A	07/16/10 11:30 AM	07/16/10	07/19/10 1:07 PM	1007439-004A	07/16/10 12:00 PM	07/16/10	07/19/10 1:15 PM
1007439-005A	07/16/10 12:05 PM	07/16/10	07/19/10 12:03 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



**QC SUMMARY REPORT FOR SW8015B**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 51821

WorkOrder 1007439

EPA Method SW8015B		Extraction SW3550B							Spiked Sample ID: 1007357-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	5.0	40	125	119	4.44	114	107	6.57	70 - 130	30	70 - 130	30
%SS:	96	25	111	101	9.30	83	80	3.41	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

BATCH 51821 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007439-001A	07/16/10 10:45 AM	07/16/10	07/17/10 1:42 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery =  $100 * (MS - Sample) / (Amount Spiked)$ ; RPD =  $100 * (MS - MSD) / ((MS + MSD) / 2)$ .

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 51892

WorkOrder 1007439

Analyte	Extraction SW3550B			Spiked Sample ID: 1007439-005A								
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	110	40	119	116	0.674	112	111	1.13	70 - 130	30	70 - 130	30
%SS:	106	25	112	103	8.14	91	92	0.948	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

#### BATCH 51892 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007439-002A	07/16/10 11:10 AM	07/16/10	07/17/10 4:55 PM	1007439-003A	07/16/10 11:30 AM	07/16/10	07/17/10 3:46 PM
1007439-004A	07/16/10 12:00 PM	07/16/10	07/17/10 12:22 PM	1007439-005A	07/16/10 12:05 PM	07/16/10	07/17/10 1:30 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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Telephone: 877-252-9262 Fax: 925-252-9269

GEOCON Env. Consultants  6671 Brisa St  Livermore, CA 94550	Client Project ID: #E8415-06-83; Caltrans Telegraph	Date Sampled: 07/16/10
		Date Received: 07/16/10
	Client Contact: John Love	Date Reported: 07/19/10
	Client P.O.:	Date Completed: 07/19/10

**WorkOrder: 1007440**

July 19, 2010

Dear John:

Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: **#E8415-06-83; Caltrans Telegraph,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.





# McCAMPBELL ANALYTICAL, INC.

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# CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

GeoTracker EDF  PDF  Excel  Write On (DW)

Check if sample is effluent and "J" flag is required

**RUSH**

Report To: John Love Bill To: same

Company: Geocon Consultants

E-Mail: love@geoconinc.com

Tele: (925) 371-5900 Fax: (925) 371-5915

Project #: E8415-06-803 Project Name: Caltrans Telegraph

Project Location: Oakland, CA

Sampler Signature: [Signature]

Analysis Request Other Comments

\*\*Indicate here if these samples are potentially dangerous to handle:

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				TPHg (801SB)	TPHd + TPH mo (801SB)	VOCs (8260B)	LOFT 5 Metals
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO <sub>3</sub>	Other				
Soil Bin 3156 ↓	A	7/16/10	11:00	1	SS	X								X	X	X	X	
	B					X						X	X	X	X			
	C					X						X	X	X	X			
	D					X						X	X	X	X			
Soil Bin 3334 ↓	A		11:50	1	SS	X								X	X	X	X	
	B					X						X	X	X	X			
	C					X						X	X	X	X			
	D					X						X	X	X	X			

\*\*MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By: <u>[Signature]</u>	Date: <u>7/16/10</u>	Time: <u>1310</u>	Received By: <u>[Signature]</u>	ICE/r <u>11.8</u>	COMMENTS: <u>composite samples A thru D into one sample → Soil Bin 3156 A-D Soil Bin 3334 A-D</u>
Relinquished By:	Date:	Time:	Received By:	GOOD CONDITION ✓	
Relinquished By:	Date:	Time:	Received By:	HEAD SPACE ABSENT ✓ DECHLORINATED IN LAB ✓ APPROPRIATE CONTAINERS ✓ PRESERVED IN LAB ✓	
				VOAS O&G METALS OTHER PRESERVATION pH<2	

**McC Campbell Analytical, Inc.**



1534 Willow Pass Rd  
 Pittsburg, CA 94565-1701  
 (925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

**WorkOrder: 1007440**

**ClientCode: GECL**

WaterTrax    WriteOn    EDF    Excel    Fax    Email    HardCopy    ThirdParty    J-flag

Report to: John Love  
 GEOCON Env. Consultants  
 6671 Brisa St  
 Livermore, CA 94550  
 925-371-5900   FAX 925-371-5915

Email: love@geoconinc.com; Livermore@geoco

ProjectNo: #E8415-06-83; Caltrans Telegraph

Bill to: Accounts Payable  
 GEOCON Env. Consultants  
 6671 Brisa St  
 Livermore, CA 94550

Requested TAT: **1 day**

*Date Received: 07/16/2010*  
*Date Printed: 07/16/2010*

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1007440-001	Soil Bin 3156 A-D	Soil	7/16/2010 11:00	<input type="checkbox"/>	A	A	A										
1007440-002	Soil Bin 3334 A-D	Soil	7/16/2010 11:50	<input type="checkbox"/>	A	A	A										

**Test Legend:**

1	8260B_S	2	G-MBTEX_S	3	LUFTMS_S	4		5	
6		7		8		9		10	
11		12							

The following SamplIDs: 001A, 002A contain testgroup.

**Prepared by: Maria Venegas**

**Comments:**     24hr Rush

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
 Hazardous samples will be returned to client or disposed of at client expense.



### Sample Receipt Checklist

Client Name: **GEOCON Env. Consultants**

Date and Time Received: **7/16/2010 2:32:34 PM**

Project Name: **#E8415-06-83; Caltrans Telegraph**

Checklist completed and reviewed by: **Maria Venegas**

WorkOrder N°: **1007440** Matrix Soil

Carrier: CA OverNight

#### Chain of Custody (COC) Information

- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Sample IDs noted by Client on COC? Yes  No
- Date and Time of collection noted by Client on COC? Yes  No
- Sampler's name noted on COC? Yes  No

#### Sample Receipt Information

- Custody seals intact on shipping container/cooler? Yes  No  NA
- Shipping container/cooler in good condition? Yes  No
- Samples in proper containers/bottles? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No

#### Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes  No
  - Container/Temp Blank temperature Cooler Temp: 11.8°C NA
  - Water - VOA vials have zero headspace / no bubbles? Yes  No  No VOA vials submitted
  - Sample labels checked for correct preservation? Yes  No
  - Metal - pH acceptable upon receipt (pH<2)? Yes  No  NA
  - Samples Received on Ice? Yes  No
- (Ice Type: WET ICE )

\* NOTE: If the "No" box is checked, see comments below.

-----

Client contacted:

Date contacted:

Contacted by:

Comments:



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GEOCON Env. Consultants  6671 Brisa St  Livermore, CA 94550	Client Project ID: #E8415-06-83; Caltrans Telegraph	Date Sampled: 07/16/10
	Client Contact: John Love	Date Received: 07/16/10
	Client P.O.:	Date Extracted: 07/16/10
		Date Analyzed: 07/16/10

### Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1007440

Lab ID	1007440-001A
Client ID	Soil Bin 3156 A-D
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<5.0	100	0.05	tert-Amyl methyl ether (TAME)	ND<0.50	100	0.005
Benzene	ND<0.50	100	0.005	Bromobenzene	ND<0.50	100	0.005
Bromochloromethane	ND<0.50	100	0.005	Bromodichloromethane	ND<0.50	100	0.005
Bromoform	ND<0.50	100	0.005	Bromomethane	ND<0.50	100	0.005
2-Butanone (MEK)	ND<2.0	100	0.02	t-Butyl alcohol (TBA)	ND<5.0	100	0.05
n-Butyl benzene	3.2	100	0.005	sec-Butyl benzene	0.70	100	0.005
tert-Butyl benzene	ND<0.50	100	0.005	Carbon Disulfide	ND<0.50	100	0.005
Carbon Tetrachloride	ND<0.50	100	0.005	Chlorobenzene	ND<0.50	100	0.005
Chloroethane	ND<0.50	100	0.005	Chloroform	ND<0.50	100	0.005
Chloromethane	ND<0.50	100	0.005	2-Chlorotoluene	ND<0.50	100	0.005
4-Chlorotoluene	ND<0.50	100	0.005	Dibromochloromethane	ND<0.50	100	0.005
1,2-Dibromo-3-chloropropane	ND<0.40	100	0.004	1,2-Dibromoethane (EDB)	ND<0.40	100	0.004
Dibromomethane	ND<0.50	100	0.005	1,2-Dichlorobenzene	ND<0.50	100	0.005
1,3-Dichlorobenzene	ND<0.50	100	0.005	1,4-Dichlorobenzene	ND<0.50	100	0.005
Dichlorodifluoromethane	ND<0.50	100	0.005	1,1-Dichloroethane	ND<0.50	100	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.40	100	0.004	1,1-Dichloroethene	ND<0.50	100	0.005
cis-1,2-Dichloroethene	ND<0.50	100	0.005	trans-1,2-Dichloroethene	ND<0.50	100	0.005
1,2-Dichloropropane	ND<0.50	100	0.005	1,3-Dichloropropane	ND<0.50	100	0.005
2,2-Dichloropropane	ND<0.50	100	0.005	1,1-Dichloropropene	ND<0.50	100	0.005
cis-1,3-Dichloropropene	ND<0.50	100	0.005	trans-1,3-Dichloropropene	ND<0.50	100	0.005
Diisopropyl ether (DIPE)	ND<0.50	100	0.005	Ethylbenzene	ND<0.50	100	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.50	100	0.005	Freon 113	ND<10	100	0.1
Hexachlorobutadiene	ND<0.50	100	0.005	Hexachloroethane	ND<0.50	100	0.005
2-Hexanone	ND<0.50	100	0.005	Isopropylbenzene	1.1	100	0.005
4-Isopropyl toluene	ND<0.50	100	0.005	Methyl-t-butyl ether (MTBE)	ND<0.50	100	0.005
Methylene chloride	ND<0.50	100	0.005	4-Methyl-2-pentanone (MIBK)	ND<0.50	100	0.005
Naphthalene	4.0	100	0.005	n-Propyl benzene	2.9	100	0.005
Styrene	ND<0.50	100	0.005	1,1,1,2-Tetrachloroethane	ND<0.50	100	0.005
1,1,2,2-Tetrachloroethane	ND<0.50	100	0.005	Tetrachloroethene	ND<0.50	100	0.005
Toluene	ND<0.50	100	0.005	1,2,3-Trichlorobenzene	ND<0.50	100	0.005
1,2,4-Trichlorobenzene	ND<0.50	100	0.005	1,1,1-Trichloroethane	ND<0.50	100	0.005
1,1,2-Trichloroethane	ND<0.50	100	0.005	Trichloroethene	ND<0.50	100	0.005
Trichlorofluoromethane	ND<0.50	100	0.005	1,2,3-Trichloropropane	ND<0.50	100	0.005
1,2,4-Trimethylbenzene	2.1	100	0.005	1,3,5-Trimethylbenzene	ND<0.50	100	0.005
Vinyl Chloride	ND<0.50	100	0.005	Xylenes	ND<0.50	100	0.005

### Surrogate Recoveries (%)

%SS1:	94	%SS2:	98
%SS3:	125		

Comments:

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

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

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard  
DF = Dilution Factor



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GEOCON Env. Consultants  6671 Brisa St  Livermore, CA 94550	Client Project ID: #E8415-06-83; Caltrans Telegraph	Date Sampled: 07/16/10
	Client Contact: John Love	Date Received: 07/16/10
	Client P.O.:	Date Extracted: 07/16/10
		Date Analyzed: 07/19/10

### Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1007440

Lab ID	1007440-002A
Client ID	Soil Bin 3334 A-D
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<5.0	100	0.05	tert-Amyl methyl ether (TAME)	ND<0.50	100	0.005
Benzene	ND<0.50	100	0.005	Bromobenzene	ND<0.50	100	0.005
Bromochloromethane	ND<0.50	100	0.005	Bromodichloromethane	ND<0.50	100	0.005
Bromoform	ND<0.50	100	0.005	Bromomethane	ND<0.50	100	0.005
2-Butanone (MEK)	ND<2.0	100	0.02	t-Butyl alcohol (TBA)	ND<5.0	100	0.05
n-Butyl benzene	4.0	100	0.005	sec-Butyl benzene	0.80	100	0.005
tert-Butyl benzene	ND<0.50	100	0.005	Carbon Disulfide	ND<0.50	100	0.005
Carbon Tetrachloride	ND<0.50	100	0.005	Chlorobenzene	ND<0.50	100	0.005
Chloroethane	ND<0.50	100	0.005	Chloroform	ND<0.50	100	0.005
Chloromethane	ND<0.50	100	0.005	2-Chlorotoluene	ND<0.50	100	0.005
4-Chlorotoluene	ND<0.50	100	0.005	Dibromochloromethane	ND<0.50	100	0.005
1,2-Dibromo-3-chloropropane	ND<0.40	100	0.004	1,2-Dibromoethane (EDB)	ND<0.40	100	0.004
Dibromomethane	ND<0.50	100	0.005	1,2-Dichlorobenzene	ND<0.50	100	0.005
1,3-Dichlorobenzene	ND<0.50	100	0.005	1,4-Dichlorobenzene	ND<0.50	100	0.005
Dichlorodifluoromethane	ND<0.50	100	0.005	1,1-Dichloroethane	ND<0.50	100	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.40	100	0.004	1,1-Dichloroethene	ND<0.50	100	0.005
cis-1,2-Dichloroethene	ND<0.50	100	0.005	trans-1,2-Dichloroethene	ND<0.50	100	0.005
1,2-Dichloropropane	ND<0.50	100	0.005	1,3-Dichloropropane	ND<0.50	100	0.005
2,2-Dichloropropane	ND<0.50	100	0.005	1,1-Dichloropropene	ND<0.50	100	0.005
cis-1,3-Dichloropropene	ND<0.50	100	0.005	trans-1,3-Dichloropropene	ND<0.50	100	0.005
Diisopropyl ether (DIPE)	ND<0.50	100	0.005	Ethylbenzene	0.77	100	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.50	100	0.005	Freon 113	ND<10	100	0.1
Hexachlorobutadiene	ND<0.50	100	0.005	Hexachloroethane	ND<0.50	100	0.005
2-Hexanone	ND<0.50	100	0.005	Isopropylbenzene	1.3	100	0.005
4-Isopropyl toluene	ND<0.50	100	0.005	Methyl-t-butyl ether (MTBE)	ND<0.50	100	0.005
Methylene chloride	ND<0.50	100	0.005	4-Methyl-2-pentanone (MIBK)	ND<0.50	100	0.005
Naphthalene	14	100	0.005	n-Propyl benzene	4.4	100	0.005
Styrene	ND<0.50	100	0.005	1,1,1,2-Tetrachloroethane	ND<0.50	100	0.005
1,1,2,2-Tetrachloroethane	ND<0.50	100	0.005	Tetrachloroethene	ND<0.50	100	0.005
Toluene	ND<0.50	100	0.005	1,2,3-Trichlorobenzene	ND<0.50	100	0.005
1,2,4-Trichlorobenzene	ND<0.50	100	0.005	1,1,1-Trichloroethane	ND<0.50	100	0.005
1,1,2-Trichloroethane	ND<0.50	100	0.005	Trichloroethene	ND<0.50	100	0.005
Trichlorofluoromethane	ND<0.50	100	0.005	1,2,3-Trichloropropane	ND<0.50	100	0.005
1,2,4-Trimethylbenzene	6.6	100	0.005	1,3,5-Trimethylbenzene	1.7	100	0.005
Vinyl Chloride	ND<0.50	100	0.005	Xylenes	0.89	100	0.005

#### Surrogate Recoveries (%)

%SS1:	101	%SS2:	112
%SS3:	123		

Comments:

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

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

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard  
DF = Dilution Factor



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GEOCON Env. Consultants  6671 Brisa St  Livermore, CA 94550	Client Project ID: #E8415-06-83; Caltrans Telegraph	Date Sampled: 07/16/10
	Client Contact: John Love	Date Received: 07/16/10
	Client P.O.:	Date Analyzed 07/17/10-07/19/10

### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*

Extraction method SW5030B Analytical methods SW8015Bm Work Order: 1007440

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
001A	Soil Bin 3156 A-D	S	500	50	121	d7,d9
002A	Soil Bin 3334 A-D	S	630	100	105	d7

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 µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

# cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

%SS = Percent Recovery of Surrogate Standard  
DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram  
d9) no recognizable pattern



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GEOCON Env. Consultants  6671 Brisa St  Livermore, CA 94550	Client Project ID: #E8415-06-83; Caltrans Telegraph	Date Sampled: 07/16/10
	Client Contact: John Love	Date Received: 07/16/10
	Client P.O.:	Date Extracted: 07/16/10
		Date Analyzed: 07/19/10

### LUFT 5 Metals\*

Extraction method: SW3050B

Analytical methods: SW6020

Work Order: 1007440

Lab ID	Client ID	Matrix	Extraction Type	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS	Comments
001A	Soil Bin 3156 A-D	S	TOTAL	0.48	56	23	68	190	1	111	
002A	Soil Bin 3334 A-D	S	TOTAL	0.38	49	22	67	170	1	109	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	NA	NA	NA	NA	NA	NA
	S	TOTAL	0.25	0.5	0.5	0.5	5.0	mg/Kg	

\*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

# means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.  
 TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.  
 DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard  
 DF = Dilution Factor







### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 51832

WorkOrder 1007440

EPA Method SW8260B		Extraction SW5030B							Spiked Sample ID: 1007371-009A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	75	73.5	2.00	76.4	76.7	0.339	70 - 130	30	70 - 130	30
Benzene	ND	0.050	108	107	0.872	114	113	0.795	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	81.4	78.9	3.15	88.8	83.6	5.96	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	106	105	0.493	110	107	2.29	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	94.5	91.7	2.97	97.5	98.1	0.597	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	97	92.2	5.08	98.3	97.7	0.639	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	129	123	5.15	128	127	0.946	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	107	106	1.12	103	104	1.41	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	92.5	91.2	1.36	91.5	91.5	0	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	96.5	94.7	1.86	97.9	97.2	0.688	70 - 130	30	70 - 130	30
Toluene	ND	0.050	112	111	0.805	115	114	0.903	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	110	108	1.41	110	111	1.18	70 - 130	30	70 - 130	30
%SS1:	113	0.13	98	96	1.48	95	95	0	70 - 130	30	70 - 130	30
%SS2:	117	0.13	106	105	1.59	106	104	1.77	70 - 130	30	70 - 130	30
%SS3:	112	0.013	111	114	2.53	111	114	3.23	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

#### BATCH 51832 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007440-001A	07/16/10 11:00 AM	07/16/10	07/16/10 9:21 PM	1007440-002A	07/16/10 11:50 AM	07/16/10	07/19/10 12:34 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 51893

WorkOrder 1007440

EPA Method SW8015Bm		Extraction SW5030B							Spiked Sample ID: 1007417-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) <sup>f</sup>	ND	0.60	100	100	0	100	101	0.837	70 - 130	20	70 - 130	20
MTBE	ND	0.10	117	113	3.31	118	118	0	70 - 130	20	70 - 130	20
Benzene	ND	0.10	106	112	5.78	110	107	2.37	70 - 130	20	70 - 130	20
Toluene	ND	0.10	92.4	97.1	4.91	95.5	93.9	1.62	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	96.8	95.1	1.78	99.9	98	1.86	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	108	113	4.26	112	110	1.65	70 - 130	20	70 - 130	20
%SS:	80	0.10	105	111	5.87	109	107	1.59	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

BATCH 51893 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007440-001A	07/16/10 11:00 AM	07/16/10	07/17/10 4:48 AM	1007440-002A	07/16/10 11:50 AM	07/16/10	07/19/10 11:27 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



**QC SUMMARY REPORT FOR SW6020**

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 1007440

EPA Method SW6020		Extraction SW3050B					BatchID: 51865			Spiked Sample ID: 1007439-005A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Cadmium	ND	50	103	91.4	12.1	10	102	93.6	8.05	75 - 125	20	75 - 125	20
Chromium	46	50	90.5	80.3	5.71	10	100	92.8	7.57	75 - 125	20	75 - 125	20
Lead	7.1	50	102	90	10.8	10	99.8	92.4	7.54	75 - 125	20	75 - 125	20
Nickel	61	50	NR	NR	NR	10	103	97.8	4.68	75 - 125	20	75 - 125	20
Zinc	36	500	102	90.7	10.9	100	104	98.3	5.77	75 - 125	20	75 - 125	20
%SS:	110	250	110	98	12.0	250	104	97	7.14	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

BATCH 51865 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007440-001A	07/16/10 11:00 AM	07/16/10	07/19/10 1:22 PM	1007440-002A	07/16/10 11:50 AM	07/16/10	07/19/10 1:29 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 51892

WorkOrder 1007440

Analyte	EPA Method SW8015B		Extraction SW3550B						Spiked Sample ID: 1007439-005A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	110	40	119	116	0.674	112	111	1.13	70 - 130	30	70 - 130	30
%SS:	106	25	112	103	8.14	91	92	0.948	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

#### BATCH 51892 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007440-001A	07/16/10 11:00 AM	07/16/10	07/19/10 10:06 AM	1007440-002A	07/16/10 11:50 AM	07/16/10	07/17/10 8:20 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



**McC Campbell Analytical, Inc.**

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Web: www.mccampbell.com E-mail: main@mccampbell.com  
Telephone: 877-252-9262 Fax: 925-252-9269

GEOCON Env. Consultants  6671 Brisa St  Livermore, CA 94550	Client Project ID: #E8415-06-83; Caltrans Telegraph	Date Sampled: 07/16/10
		Date Received: 07/16/10
	Client Contact: John Love	Date Reported: 08/03/10
	Client P.O.:	Date Completed: 08/03/10

**WorkOrder: 1007440 B**

August 03, 2010

Dear John:

Enclosed within are:

- 1) The results of the **2** analyzed samples from your project: **#E8415-06-83; Caltrans Telegraph,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.



**McCAMPBELL ANALYTICAL, INC.**

1534 WILLOW PASS ROAD  
PITTSBURG, CA 94565-1701

Website: [www.mccampbell.com](http://www.mccampbell.com) Email: [main@mccampbell.com](mailto:main@mccampbell.com)  
Telephone: (877) 252-9262 Fax: (925) 252-9269

1007440

**CHAIN OF CUSTODY RECORD**

TURN AROUND TIME

RUSH  24 HR  48 HR  72 HR  5 DAY

GeoTracker EDF  PDF  Excel  Write On (DW)   
 Check if sample is effluent and "J" flag is required

**RUSH**

Report To: John Love Bill To: same  
Company: Geocon Consultants  
E-Mail: love@geoconinc.com  
Tele: (925) 371-5900 Fax: (925) 371-5915  
Project #: E8415-06-83 Project Name: Caltrans Telegraph  
Project Location: Daklog, CA  
Sampler Signature: [Signature]

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				Analysis Request	Other	Comments
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO <sub>3</sub>	Other			
Soil Bin 3156	A	7/14/10	11:00	1	SS	X											**Indicate here if these samples are potentially dangerous to handle:  TPHs (8015B) TPHd + THTmo (8015B) VOCs (8260B) LUFT 5 Metals STE Cr per J.L. 24hr 7/19/10 BTLC Diesel 7/29/10 24hr
	B					X											
	C					X											
	D					X											
Soil Bin 3334	A		11:50	1	SS	X											
	B					X											
	C					X											
	D					X											

\*\*MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By: <u>[Signature]</u>	Date: <u>7/16/10</u>	Time: <u>1310</u>	Received By: <u>[Signature]</u>	ICE/# <u>11.8</u>	COMMENTS: composite samples A thru D into one sample → Soil Bin 3156 A-D Soil Bin 3334 A-D
Relinquished By:	Date:	Time:	Received By:	GOOD CONDITION ✓ HEAD SPACE ABSENT ✓ DECHLORINATED IN LAB ✓ APPROPRIATE CONTAINERS ✓ PRESERVED IN LAB ✓	
Relinquished By:	Date:	Time:	Received By:	VOAS O&G METALS OTHER PRESERVATION pH<2	

# McC Campbell Analytical, Inc.



1534 Willow Pass Rd  
 Pittsburg, CA 94565-1701  
 (925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: **1007440 B** ClientCode: **GECL**

WaterTrax  
  WriteOn  
  EDF  
  Excel  
  Fax  
 Email  
 HardCopy  
 ThirdParty  
 J-flag

<b>Report to:</b> John Love GEOCON Env. Consultants 6671 Brisa St Livermore, CA 94550 925-371-5900    FAX 925-371-5915	<b>Email:</b> love@geoconinc.com; Livermore@geoco cc: PO: ProjectNo: #E8415-06-83; Caltrans Telegraph	<b>Bill to:</b> Accounts Payable GEOCON Env. Consultants 6671 Brisa St Livermore, CA 94550	<b>Requested TAT:        1 day</b>  <b>Date Received:    07/16/2010</b> <b>Date Add-On:        07/29/2010</b> <b>Date Printed:        07/29/2010</b>
---	--	--	--

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1007440-001	Soil Bin 3156 A-D	Soil	7/16/2010 11:00	<input type="checkbox"/>	A												
1007440-002	Soil Bin 3334 A-D	Soil	7/16/2010 11:50	<input type="checkbox"/>	A												

**Test Legend:**

1	STLC_DIESEL_S	2		3		4		5	
6		7		8		9		10	
11		12							

**Prepared by: Maria Venegas**

**Comments:**    24hr Rush. STLC Cr added to #001 24hr per J.L. 07/19/10. STLC Diesel added on both Comps on 7/29/10 24hr Rush.

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
 Hazardous samples will be returned to client or disposed of at client expense.



# McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
 Web: www.mccampbell.com E-mail: main@mccampbell.com  
 Telephone: 877-252-9262 Fax: 925-252-9269

GEOCON Env. Consultants  6671 Brisa St  Livermore, CA 94550	Client Project ID: #E8415-06-83; Caltrans Telegraph	Date Sampled: 07/16/10
	Client Contact: John Love	Date Received: 07/16/10
	Client P.O.:	Date Extracted: 07/31/10-08/02/10
		Date Analyzed 08/02/00

## Total Extractable Petroleum Hydrocarbons (STLC)\*

Extraction method CA Title 22/SW3510C

Analytical methods: SW8015B

Work Order: 1007440

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments
1007440-001A	Soil Bin 3156 A-D	S	4.3	1	94	e11,e2
1007440-002A	Soil Bin 3334 A-D	S	3.4	1	93	e11,e2

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	0.05	mg/L

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in mg/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.

%SS = Percent Recovery of Surrogate Standard  
 DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern  
 e11) stoddard solvent/mineral spirit (?)





### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 52183

WorkOrder 1007440

Analyte	EPA Method SW8015B		Extraction CA Title 22/SW3510C						Spiked Sample ID: N/A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1	N/A	N/A	N/A	108	102	5.84	N/A	N/A	70 - 130	30
%SS:	N/A	0.63	N/A	N/A	N/A	103	92	10.6	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

#### BATCH 52183 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007440-001A	07/16/10 11:00 AM	07/31/10	08/02/00 3:44 PM	1007440-002A	07/16/10 11:50 AM	07/31/10	08/02/00 4:52 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

APPENDIX

A solid green triangle pointing to the left, containing the letter 'E' in white.

E

2134

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number CAS 11111001	2. Page 1 of 1	3. Emergency Response Phone NRCE 510 749-1390	4. Waste Tracking Number 52449-01
5. Generator's Name and Mailing Address DEPARTMENT OF TRANSPORTATION CALTRANS DISTRICT 111 GRAND AVENUE FLOOR 12 OAKLAND CA 94623 Generator's Phone: 510 822-8750			Generator's Site Address (if different than mailing address) CALTRANS DISTRICT 14 OAKLAND 68TH STREET & TELEGRAPH AVE, UNDER PASS OAKLAND CA		
6. Transporter 1 Company Name NRC ENVIRONMENTAL SERVICES INC.			U.S. EPA ID Number CAR000030114		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address RECOLOGY ENVIRONMENTAL SOLUTIONS- HAY R 040 8428 HAY ROAD VACAVILLE CA 95687 Facility's Phone: 707 478-4718			U.S. EPA ID Number CAD081391510		
9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
	No.	Type			
	1. NON HAZARDOUS WASTE SOLID (SOIL WITH HYDROCARBONS)	001 CM	018	Y	
	2.				
	3.				
13. Special Handling Instructions and Additional Information WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT JOES/POE: 52343 PROFILES: 4695 CONSULTANT: GECCON CONSULTANTS, INC. 6671 BRISA STREET, LIVERMORE, CA. NRCE 1605 FERRY POINT ALAMEDA, CA. 94501  BIN# 3156					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name LAWRENCE LOI			Signature <i>[Signature]</i>		Month Day Year
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name LUIER MEZDES			Signature <i>[Signature]</i>		Month Day Year 08/06/10
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
17b. Alternate Facility (or Generator)			U.S. EPA ID Number		
Facility's Phone: _____					
17c. Signature of Alternate Facility (or Generator)			Month Day Year		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name JOHN SUE			Signature <i>[Signature]</i>		Month Day Year 8/6/10

Ticket: 926365

Date: 8/6/2010

Time: 11:44:36 - 12:19:57

Gross: 66000 LBS Scale

Tare: 39300 LBS Scale

Net: 26700 LBS

Scale: H2

RECOLOGY HAY ROAD

RECOLOGY HAY ROAD

6426 Hay Road Vacaville, CA 95687

Phone: (707)-678-4718

Trucks: 2134..

Customer: 47589/NRC ENVIRONMENTAL S

Profile: 4695/CALTRANS, 56TH TELEGRAPH



Origin	Materials & Services	Quantity	Rate	Amount
DAK/Dakland	SOILC/Soil Contaminated	13.39 @	\$15.00 per Ton	\$200.85

RECOLOGY WASTE ZERO

Total Amount: \$200.85

*Marion A.*

Marion A.



2130

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number CAS111111001	2. Page 1 of 1	3. Emergency Response Phone NRCES 510 740 1300	4. Waste Tracking Number 52449 02
5. Generator's Name and Mailing Address DEPARTMENT OF TRANSPORTATION CALTRANS DISTRICT 111 GRAND AVENUE FLOOR 12 OAKLAND CA 94623 Generator's Phone: 510 622-5750			Generator's Site Address (if different than mailing address) CALTRANS DISTRICT #4 OAKLAND 55TH STREET & TELEGRAPH AVE, UNDER PASS OAKLAND CA		
6. Transporter 1 Company Name NEC ENVIRONMENTAL SERVICES INC			U.S. EPA ID Number CA000030114		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address RECOLOGY ENVIRONMENTAL SOLUTIONS HAY ROAD 8428 HAY ROAD VACAVILLE CA 95687 Facility's Phone: 707 878 4749			U.S. EPA ID Number CA0081201510		
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. NON HAZARDOUS WASTE SOLID (SOIL WITH HYDROCARBONS)		001	CM	0.15	v
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT JOB#/PO#: 52449 PROFILE# 4695 CONSULTANT: GEOCON CONSULTANTS, INC. 6671 BRISA STREET, LIVERMORE, CA. NRCES 1605 FERRY POINT ALAMEDA, CA. 94501 <b>BIN# 3334</b>					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Offor's Printed/Typed Name LAWRENCE G LO			Signature <i>Lawrence G Lo</i>		Month Day Year 8   6   10
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Samuel Shayne Soris			Signature <i>Samuel S Soris</i>		Month Day Year 8   6   10
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number: _____ U.S. EPA ID Number _____					
17b. Alternate Facility (or Generator) Facility's Phone: _____					
17c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name Jorge Sosa			Signature <i>Jorge Sosa</i>		Month Day Year 8   6   10

GENERATOR

INTL

TRANSPORTER

DESIGNATED FACILITY

Ticket: 926373

Date: 8/6/2010

Time: 12:01:25 - 12:26:02

RECOLOGY HAY ROAD  
RECOLOGY HAY ROAD  
6426 Hay Road Vacaville, CA 95687  
Phone: (707)-678-4718  
Trucks: 2130.  
Customer: 47589/NRC ENVIRONMENTAL S

Gross: 60740 LBS Scale  
Tare: 30000 LBS Scale  
Net: 22660 LBS  
Scale: H2

Profile: 4695/CALTRANS, 56TH TELEGRAPH



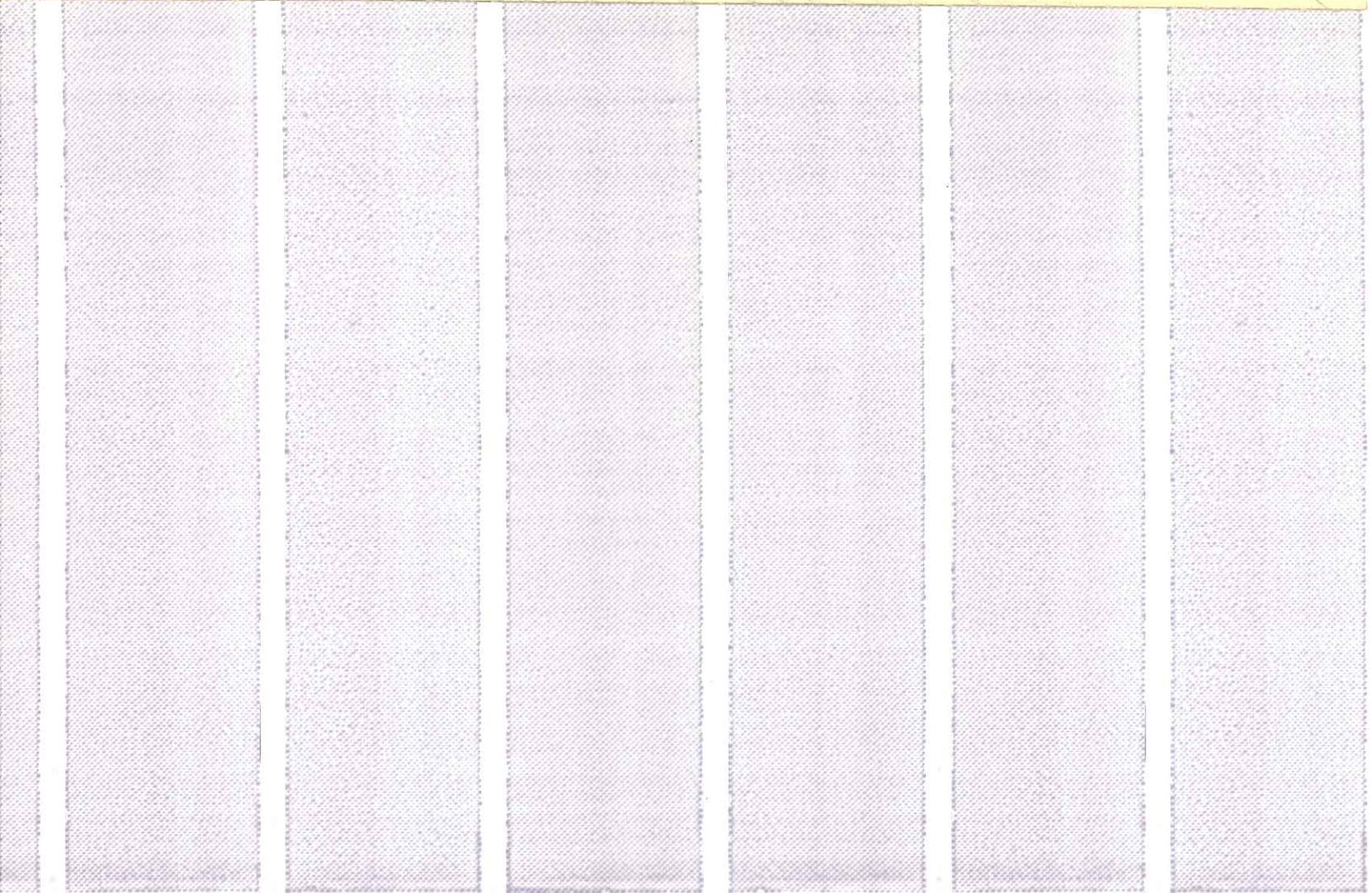
Origin	Materials & Services	Quantity	Rate	Amount
OAK/Oakland	SOILC/Soil Contaminated	11.33 @	\$15.00 per Ton	\$169.95

*Samuel S. Son*

RECOLOGY  
WASTE ZERO

Total Amount: \$169.95

Marion A.



APPENDIX



September 8, 2010

Mr. John Love  
Geocon Consultants, Inc.  
6671 Brisa Street  
Livermore, CA 94550  
Fax (925)371-5915

Subject: UST Removal Report  
Telegraph Avenue  
Oakland, California

Dear Mr. Love:

I have reviewed and approved the above referenced document. Please submit it to the Alameda County Health Care Services Agency (ACHCSA). Should the ACHCSA require, I declare under the penalty of perjury, that to the best of my knowledge, the information contained in the attached workplan is true and correct.

If you have any questions, or need additional information, please give me a call at (510) 622-6022.

Sincerely,



Chris Bledsoe  
Transportation Engineer  
Office of Construction Environmental Engineering Support



**Table 1**  
**Soil Sample Results**  
**TPHg, TPHd, TPHmo, and VOCs**  
**Caltrans - Telegraph Avenue**  
**Oakland, California**

Sample ID	Sample Location	Sample Depth (feet)	Date	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	VOCs (mg/kg)
Excavation A	Bottom Center	8	7/16/10	5.9	4.2	<5.0	n-Butyl benzene = 0.072 n-Propyl benzene = 0.049
Excavation B	South Sidewall	8	7/16/10	150	49	7.7	n-Butyl benzene = 0.59 Naphthalene = 1.8 sec-Butyl benzene = 0.17 Isopropylbenzene = 0.37 n-Propyl benzene = 1.0
Excavation C	North Sidewall	8	7/16/10	380	100	11	n-Butyl benzene = 0.69 4-Isopropyl toluene = 0.31 sec-Butyl benzene = 0.26 Isopropylbenzene = 0.49 n-Propyl benzene = 0.73
Excavation D	West Sidewall	8	7/16/10	190	51	9.3	n-Butyl benzene = 0.32 Naphthalene = 0.57 sec-Butyl benzene = 0.12 Isopropylbenzene = 0.27 n-Propyl benzene = 0.50
Excavation E	East Sidewall	8	7/16/10	400	110	14	n-Butyl benzene = 1.4 4-Isopropyl toluene = 0.39 Naphthalene = 2.0 1,2,4-Trimethylbenzene = 0.23 sec-Butyl benzene = 0.31 Ethylbenzene = 0.96 Isopropylbenzene = 0.72 n-Propyl benzene = 1.5 1,3,5-Trimethylbenzene = 1.2

**Table 1**  
**Soil Sample Results**  
**TPHg, TPHd, TPHmo, and VOCs**  
**Caltrans - Telegraph Avenue**  
**Oakland, California**

Sample ID	Sample Location	Sample Depth (feet)	Date	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	VOCs (mg/kg)
Soil Bin 3156 A-D	4-Point Composite Soil Bin Sample	--	7/16/10	500	410 / *4.3	60	n-Butyl benzene = 3.2 Naphthalene = 4.0 1,2,4-Trimethylbenzene = 2.1 sec-Butyl benzene = 0.70 Isopropylbenzene = 1.1 n-Propyl benzene = 2.9
Soil Bin 3334 A-D	4-Point Composite Soil Bin Sample	--	7/16/10	630	360 / *3.4	49	n-Butyl benzene = 4.0 Naphthalene = 14 1,2,4-Trimethylbenzene = 6.6 sec-Butyl benzene = 0.80 Ethylbenzene = 0.77 Isopropylbenzene = 1.3 n-Propyl benzene = 4.4 1,3,5-Trimethylbenzene = 1.7 Xylenes = 0.89

Notes-

mg/kg - milligrams per kilogram

TPHg - Total petroleum hydrocarbons as gasoline

TPHd - Total petroleum hydrocarbons as diesel

TPHmo - Total petroleum hydrocarbons as motor oil

VOCs - Volatile Organic Compounds

\* - Soluble threshold limit concentration (milligrams per liter)

< - Not detected above stated laboratory reporting limit