UNDERGROUND STORAGE TANK REMOVAL REPORT

CALDECOTT TUNNEL
240 CALDECOTT LANE
OAKLAND, CALIFORNIA

PREPARED FOR:
CALTRANS DISTRICT 4
111 GRAND AVENUE, 12TH FLOOR
OAKLAND, CA 94623

RECEIVED
9:59 am, Aug 12, 2011
Alameda County
Environmental Health

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

GEOCON PROJECT NO. E8585-06-19
CALTRANS EA 04-294914

JULY 2011

GEOCON
CONSULTANTS, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

Project No. E8585-06-19
July 29, 2011

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

Subject: UST REMOVAL REPORT
240 CALDECOTT LANE
OAKLAND, CALIFORNIA
CONTRACT NO. 43A0199, EA 04-294914

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 E. Please contact the undersigned if you have any questions or comments.

Sincerely,
GEOCON CONSULTANTS, INC.

PROFESSIONAL GEOLOGIST
JOHN W. LOVE
No. 6315
Expires 11-30-12
STATE OF CALIFORNIA

John Love, PG
Sr. Project Geologist

Richard Day, CEG, CHG
Regional Manager

JWL:RWD

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

TABLE OF CONTENTS

UST REMOVAL REPORT

1.0 INTRODUCTION

On behalf of the California Department of Transportation (Caltrans) - District 4, Contract No. 43A3570, Task Order No. 19, Geocon removed one approximately 2,000-gallon underground storage tank (UST) located at 240 Caldecott Tunnel in Oakland, California (Figure 1).

1.1 Site Description and Background

The UST was located immediately above and north of the west end of third bore of the Caldecott Tunnel as shown on Figure 2. The UST was used by Caltrans to store diesel fuel for a backup generator used to operate the tunnel ventilation system in the instance of a power failure.

The UST was originally scheduled for removal in July 2010; however, as a result of a conflict with the construction activities associated with the new fourth bore of the Caldecott Tunnel, the removal of the UST was delayed until recently.

On July 26, 2010, the UST was emptied and triple rinsed by NRC Environmental Services (NRC).

1.2 Scope of Services

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

- Remove diesel fuel product, triple rinse UST, manifest, and dispose of product and rinsate fluids;
- Obtain UST Removal Permit from the Oakland Fire Department (OFD):
- Remove, load, manifest, and transport UST to a recycling facility;
- Collect excavation confirmation soil sample;
- Backfill excavation to within four-feet of ground surface with pea gravel;
- Prepare this report.

2.0 UST REMOVAL

2.1 UST Removal

On July 26, 2010, NRC removed approximately 750 gallons of diesel fuel, triple-rinsed the UST, and disposed of approximately 40 gallons of rinsate fluids. The fluids were disposed of as hazardous waste at the Crosby & Overton, Inc. facility in Long Beach, California. A copy of the hazardous waste manifest for the rinsate fluids and bill of lading for the diesel fuel removed from the UST is provided in Appendix A

On June 1, 2011, one 2,000-gallon fiberglass-coated double-wall steel UST was removed from the site under the direction of the OFD. A copy of the OFD UST removal permit documentation is provided in Appendix B.

Prior to June 1, 2011, Caltrans' contractor had removed the concrete and pea gravel backfill overlying the UST, and covered the excavation area with steel trench plate. On June 1, 2011, we removed the trench plate and several cubic yards of pea gravel surrounding the UST using a vacuum trailer and mini-excavator, disconnected the fuel and vent lines, and severed the electrical conduits extending from the building to the turbine pump located on the top of the UST (see Photographs 1 to 3 in Appendix C).

Prior to removing the UST from the ground the internal atmosphere was inerted using 35 pounds of dry ice. The UST was removed from the ground and loaded on to a flat bed truck supplied by Ecology Control Industries, Inc. (ECI) using a loader supplied by Caltrans' contractor. The UST was hauled offsite by ECI to their facility in Richmond California under hazardous waste manifest. A copy of the manifest is provided in Appendix A.

2.1.1 Excavation Soil Sampling Procedures, Analysis, and Results

One four-point composite soil sample was collected from the excavation pea gravel. The samples were collected from pea gravel located between 10 and 12 feet below ground surface. Each soil sample was collected in a stainless steel sample tube. Once the soil sample was collected, the ends of each tube were sealed with Teflon tape and plastic end caps, and placed in a chest cooled with ice for transport to McCampbell Analytical, Inc., a state of California-certified laboratory located in Pittsburg, California.

The composite soil sample (labeled as Excavation-12) was analyzed for total petroleum hydrocarbons as diesel (TPHd) following EPA Test Method 8015B, benzene, toluene, ethylbenzene, and xylenes (BTEX) following EPA Test Method 8021B, and total lead following EPA Test Method 6010B.

TPHd was reported at a concentration of 5.0 milligrams per kilogram (mg/kg), and BTEX and lead were not detected at or above the laboratory reporting limits. The analytical laboratory results are tabulated in Table 1, and copies of the analytical laboratory data sheets are provided in Appendix D.

2.1.2 General Observations

The UST excavation was apparently backfilled with pea gravel when the UST was installed several years ago. When Geocon arrived onsite on June 1, 2011, the concrete overlying the UST had been removed and the top of the UST, which resided approximately five feet below grade, had been exposed by Caltrans' contractor that was working on the Caldecott Tunnel fourth bore project.

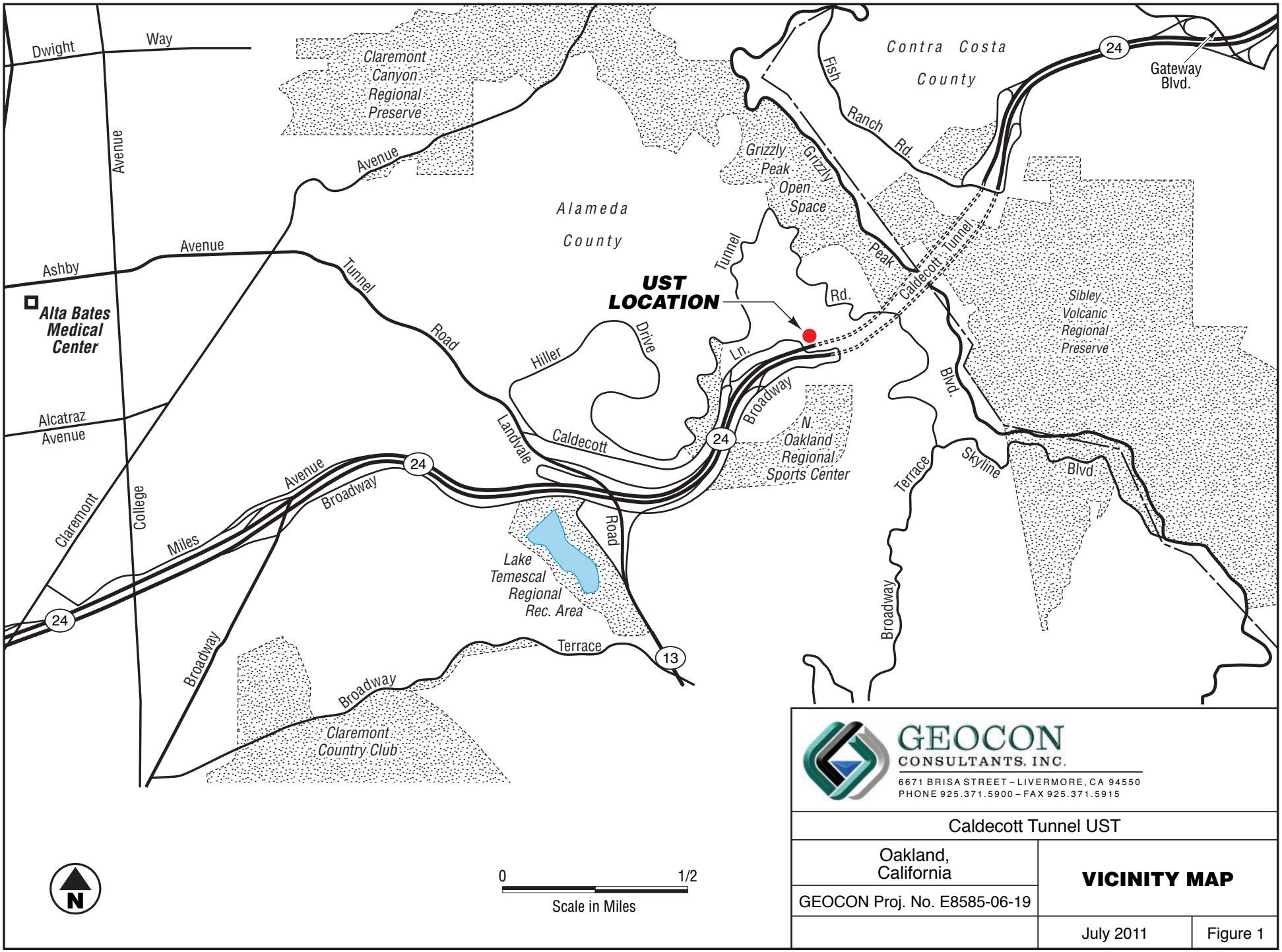
Prior to removing the UST from the ground, we disconnected the fuel and vent line flex hoses from the turbine pump still in-place on top of the UST (see photograph 1), cut the two electrical conduits from away from the secondary containment sump on top of the tank, and then removed the fill port from the UST. After removing several cubic yards of pea gravel from the UST excavation, the UST was removed from the ground and placed on the ECI Truck for transport to their recycling facility in Richmond, California. The turbine pump and associated apparatus was left in-place in the UST when it was removed and hauled to ECI's facility.

No odors or obvious signs of diesel fuel leakage or spillage were observed during the UST removal process, and the UST appeared to be completely intact. After the UST had been removed from the area, the fuel lines were disconnected at the threaded couplings located inside the building near the wall penetration. Capping the black iron fuel line piping inside the building was not necessary because the fuel lines extended approximately 20 feet down to the floor from that point. The vent line from the UST was disconnected at the base of the building where it connected to the steel riser mounted to the side of the building. The two electrical conduits were cut back to near the base of the building. After the product and electrical lines were removed and cut, the pea gravel removed during the UST removal operation was placed back in the excavation, and the excavation was covered back up with a trench plate. The remainder of the excavation was left to be backfilled by Caltrans' tunnel construction contractor.

3.0 CONCLUSIONS AND RECOMMENDATIONS

The UST appeared intact and impacts to the surrounding pea gravel and native soil were not observed during the removal activities. Analytical laboratory results of the excavation soil samples were reported as non-detect for all target analytes, except TPHd, which was reported at the detection limit concentration of 5.0 mg/kg.

Based on the above information, we recommend the Alameda County Environmental Health Department consider the removal of this UST a closed matter.



GEOCON
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PHONE 925.371.5900 – FAX 925.371.5915

Caldecott Tunnel UST

Oakland, California

VICINITY MAP

GEOCON Proj. No. E8585-06-19

July 2011

Figure 1

GEOCON
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Caldecott Tunnel UST		
Oakland, California	**SITE PLAN**	
GEOCON Proj. No. E8585-06-19		
	July 2011	Figure 2

TABLE 1
Excavation Soil Sample Results
TPHd, BTEX, and Lead
Caldecott Tunnel UST Removal
Oakland, California

Sample ID	Sample Depth (ft)	TPHd (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Lead (mg/kg)
Excavation - 12	10 to 12	5.0	<0.005	<0.005	<0.005	<0.005	<5.0

Notes:
TPHd = total petroleum hydrocarbons as diesel
mg/kg = milligrams per kilogram
< = not detected above the stated laboratory reporting limit

APPENDIX A

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAS111111001
2. Page 1 of: 1
3. Emergency Response Phone: NRCES 510 749-1390
4. Manifest Tracking Number: 006626643 JJK

5. Generator's Name and Mailing Address
DEPARTMENT OF TRANSPORTATION CALTRANS DISTRI Attn: JILL POLLOCK
111 GRAND AVENUE FLOOR 12
OAKLAND CA 94623
Generator's Phone: 510 622-8750

Generator's Site Address (if different than mailing address)
CALTRANS DISTRICT#4 OAKLAND
OLD TUNNEL ROAD
OAKLAND CA
04-294914

6. Transporter 1 Company Name: NRC ENVIRONMENTAL SERVICES INC.
U.S. EPA ID Number: CAR000030114

7. Transporter 2 Company Name: Intrnsic transp.
U.S. EPA ID Number: CAR000175264

8. Designated Facility Name and Site Address
Crosby & Overton, Inc.
1630 W. 17th Street
Long Beach CA 90813
Facility's Phone: 562 432-5445
U.S. EPA ID Number: CAD028409018

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NON RCRA HAZARDOUS WASTE LIQUID (OILY WATER)	001	DM	40	G	221
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT JOB#/PO#: 52660 PROFILE# 16296
CONSULTANT: GEOCON CONSULTANTS, INC. 6671 BRISA STREET, LIVERMORE, CA.
NRCE3 1605 FERRY POINT ALAMEDA, CA. 94501
D39798

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: Chris Bledsoe CA
Signature: Chris Bledsoe CA
Month 07 Day 26 Year 10

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: THOM JAMES Signature: Month 07 Day 26 Year 10
Transporter 2 Printed/Typed Name: EDDIE TOLEDO Signature: Month 7 Day 29 Year 10

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
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. H135 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: Laura Chastagner Signature: Month 07 Day 30 Year 10

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

STRAIGHT BILL OF LADING

ORIGINAL - NOT NEGOTIABLE

Shipper's No CAS111111001
Carrier's No. CAR000030114
Date 06/21/2010

CARRIER: NRC ALAMEDA

BOL# 52660-01

TO : Consignee Street Destination	NRC ENVIRONMENTAL SERVICES INC 1605 FERRY POINT ALAMEDA CA 94501	FROM : Shipper Street Destination	CALTRANS DISTRICT#4 OAKLAND OLD TUNNEL ROAD

Route: Vehicle:

Number of Shipping Units	HM	Kind of Packages, Description of Articles IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME	QUANTITY (Subject to Correction)	RATE
3 x TP	X	NA1993, ~~WASTE~~ DIESEL FUEL, 3, PG III	750 gl	
1 x DM	X	NA 1993, Diesel Fuel, 3, PG III	40 gl	
		JOB#/PO#: 52660 NRCES 1605 FERRY POINT ALAMEDA, CA. 94501		

Received 26 July 2010

RECEIVED, subject to the classification and tariffs in effect on this date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under contract) agrees to carry to its usual place of delivery at said destination, if on its own road or water line, otherwisee to deliver to another carrier on the route to said destination. It is mutually agreed to each carrier of all or any said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packed, marked, and labeled/placarded, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

SHIPPER:	CARRIER:
CALTRANS DISTRICT#4 OAKLAND	NRC ENVIRONMENTAL SERVICES INC.
PER: [signature]	PER: [signature]
DATE: 7.26.10	DATE: 7-26-10

EMERGENCY RESPONSE TELEPHONE NUMBER:
NRCES 510 749-1390

MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION INCLUDING STORAGE TC TRANSPORTATION. (172.604)

APPENDIX B

PLAN REVIEW LOG

JOB # - P11-0501 File _____

Date Submitted
May 25, 2011
Date Assigned
May 25, 2011

Job Site
240 Caldecott Lane
CalTrans Maint. Sta above
Caldecott Tunnel

Company Name
Geocon Consultants

Type of Plans
Tank

Reviewer
Mathews

Company Phone #
925-525-4142

Contact Person
John Love

Fees Paid
Yes

Expedite/After Hours
○ Yes ○ No

Fees Paid Date
May 25, 2011

Disposition

Pick Up/Mailed Date

Pick up person

Pick up person Phone #

Resubmitted
○ Yes ○ No
○ 1st ○ 3rd
○ 2nd ○ 4th

Resubmitted Dates
1.) _____
2.) _____
3.) _____
4.) _____

Reviewed Dates
1.) _____
2.) _____
3.) _____
4.) _____

Amount of Time

Review Complete Date

Plan Check Fees (NO inspections included)
Submittal/Resubmittal, full price for each system

			Units	Subtotal
a.	Sprinkler System/Zone	○ 243.00		
b.	Standpipe System	○ 243.00		
c.	Underground Main	○ 243.00		
d.	Fire Pump System	○ 243.00		
e.	Fire Hydrant	○ 243.00		
f.	FM 200, Halon, gas suppression system	○ 243.00		
g.	Dry chemical suppression system	○ 243.00		
h.	Spray Booth Installation	○ 243.00		
	Expedited plan check fee (a-h) min 2.0 hr (FP Engineer)	○ 352.00		
i.	Evacuation Plans	○ 243.00		
j.	Fire Alarm System	○ 243.00		
k.	Range Hood & Duct Suppression System	○ 243.00		
	Expedited plan check fee (i-j) min 2.0 hrs (Fire Inspector)	○ 352.00		

RECEIVED
PLANNING DEPARTMENT
DATE: June 11
ALL INSPECTIONS REQUIRE 48 HOURS NOTICE

Inspection Fees

a. Inspection, $150.00/hour	○ 150.00		
b. Reinspection, $150.00/hour	○ 150.00		
c. After Hours Inspection ($225.00 x 2.5 hrs/min) $225.00 p/hr after min	○ 562.50		

Tank Permit Fees/CUPA

a. Removal, 1st Tank ($243.00/hr x 2.5 hrs min + inspection $150.00)	◉ 757.50		$757.50
$150.00 each additional tank	○ 150.00		
b. Installation, 1st Tank ($243.00/hr x 2.5 hrs min. plus inspection $599.00)	○ 1206.50		
$150.00 each additional tank	○ 150.00		
c. Modifications: _____	○ 150.00		

Other Fees

Consultation Fee / FP Engineer time ($243.00/hr)	○ 243.00		
☐ Building Permit Fire Code Review - 65% of Building Permit Cost:			
	Total Cost		**$ 757.50**

Comments

Mailing Address
Geocon Consultants

Date:	Check #	Amount Received:
5/25/2011	7965	$757.50

Total Amount Received: $757.50

Total Amount Due: $0.00

Billing Invoice Date:

Updated 3/31/08

76.5
off

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

PI-0501

Site Address: 240 Caldecott Tunnel	Name of Facility: Caldecott Tunnel
Inspector: Keith Matthews	Contact on site: John Love
Date and Time of Arrival: [illegible] 12:00-13:15; Donell	Contractor/Consultant: Caltrans

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

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

Tank Observations	T #1	T #2	T #3	T #4
Tank Capacity (gallons)	1500			
Material last stored	Die			
Dry ice used (pounds)	50			
Combustible gas concentration as %LEL. *(Note time & sampling point)*				
(1)	0			
(2)				
(3)				
Oxygen concentration as % volume. *(Note time &sampling point.)*				
(1)	11			
(2)				
(3)				
Tank Material				
Wrapping/Coating, if any				
Obvious holes?				

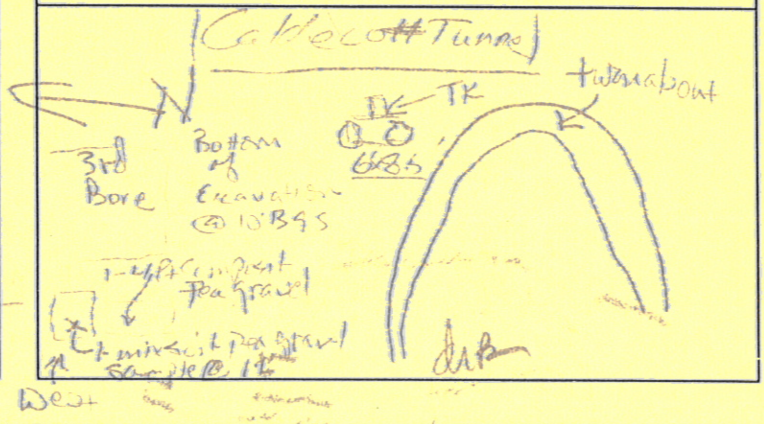
Tank Observations	T #1	T #2	T #3	T #4
Obvious corrosion?	NO			
Obvious odors from tank?	NO			
Seams intact?	NO			
Tank bed backfill material	NO			
Obvious discoloration?	NO			
Obvious odors ex tank bed?	NO			
Water in excavation?	NO			
Sheen/product on water?	NO			
Tank tagged by transporter?	NO			
Tank wrapped for transport?	NO			
Tank plugged w/ vent cap?	NO			
Date/time tank hauled off?	11/1/11 13:00			
No. of soil samples taken?	1			
Depth of soil samples (ft. bgs)	12'			

Piping Removal	Yes	No	N/A
All piping removed hauled off w/ tanks?			X
Obvious holes on pipes?			X
Obvious odors from pipes?			X
Obvious soil discoloration in piping trench?			X
Obvious odors from piping trench?			X
Water in piping trench?			X
Number & depth of soil samples from piping trench?			
Number & depth of water samples from piping trench?	0		

General Observations	Yes	No	N/A
Leak from any tank suspected?		X	
"Leak Report" form given to the operator?		X	
Obviously contaminated soil excavated?		X	
Soil stockpile sampled?	X	X	
Stockpile lined AND covered?		X	
Water in excavation sampled?		X	
Number/depth of water samples taken?	0 / 0		
All samples properly preserved for transport?	X		

Additional Observations	Yes	No	N/A
Soil/water sampling protocols acceptable?	X		
Sampling "chain of custody" noted?	X		
Tank pit filled in or covered?	X		
Tank pit fenced or barricaded?		X	
Transporter a registered HW hauler?	X		
Uniform HW Manifest completed?		X	
Contractor/Consultant reminded of complete UST Removal Report due within 30 days?	X		
Date/Time removal/closure operations completed?	11-1-11 13:05		
OT hours or additional charges due from contractor?	0		

SITE & SAMPLING DIAGRAM



Notes/Comments:

1 - Four pt Composite Sample of Pea Gravel from overburden
ECI - Appeal TK Pl n Hrs

UST Closure / Removal Inspection Report/ dmg April 1998

APPENDIX C

Photo 1 – View of appurtenances located on top of UST prior to removal.

Photo 2 – View of UST excavation during removal of pea gravel using vacuum trailer.

GEOCON
CONSULTANTS, INC.
6671 BRISA STREET – LIVERMORE, CA 94550
PHONE 925.371.5900 – FAX 925.371.5915

SITE PHOTOS 1 and 2		
Caldecott Tunnel UST Removal Oakland, California		
E8585-06-19		July 2011

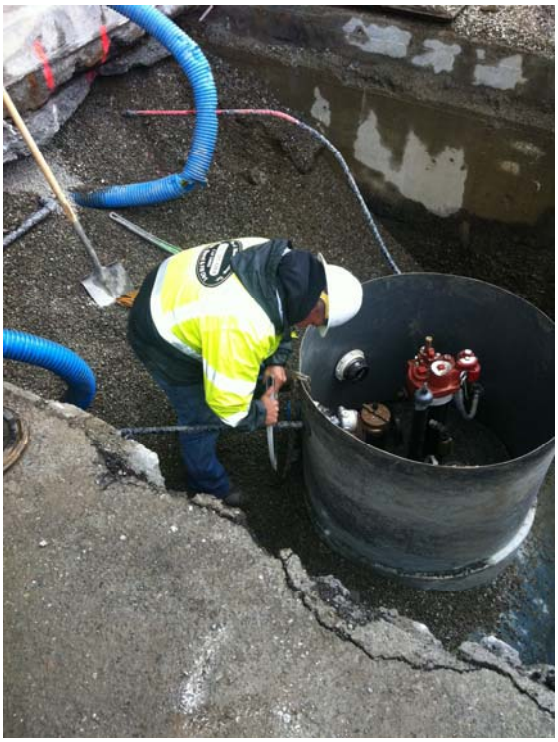


Photo 3 – View of electric and fuel lines being disconnected from UST.

Photo 4 – View of mini excavator used to remove pea gravel from excavation.

Photo 5 – View of UST being hoisted from the excavation by loader.

Photo 6 – View of excavation after UST and associated electrical and fuel lines had been removed up to building.

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SITE PHOTOS 5 and 6		
Caldecott Tunnel UST Removal Oakland, California		
E8585-06-19		July 2011

APPENDIX D

McCampbell 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	Client Project ID: #E8585-06-08; Caldecott	Date Sampled: 06/01/11
		Date Received: 06/01/11
6671 Brisa St	Client Contact: John Love	Date Reported: 06/02/11
Livermore, CA 94550	Client P.O.:	Date Completed: 06/02/11

WorkOrder: 1106019

June 02, 2011

Dear John:

Enclosed within are:

1) The results of the **1** analyzed sample from your project: **#E8585-06-08; Caldecott,**
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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

1106019

RUSH

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

Report To: John Love Bill To: same

Company: Geocon

E-Mail: love@geoconinc.com

Tele: 925-371-5900 Fax:

Project #: E8585-06-08 Project Name: Caldecott

Project Location: Caldecott Tunnel

Sampler Signature:

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015) + BTXE	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	RCRA 8 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Other: Filter sample for DISSOLVED metals analysis	Other: Composite Sample in lab	Comments
Excavation-12		6/1/11	13:00	1	Tube		X									X													X		X	
Excavation-12		↓	↓	1	↓		X									X													X		X	
Excavation-12				1			X									X													X		X	
Excavation-12				1			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:	Date:	Time:	Received By:
	6/1/11	15:08	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 2.4c
GOOD CONDITION ✓
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB

PRESERVATION VOAS O&G METALS OTHER pH<2

COMMENTS:
Composite all 4 soil samples to form one sample titled Excavation-12

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1106019 **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
cc:
PO:
ProjectNo: #E8585-06-08; Caldecott

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

Requested TAT: 1 day

Date Received: **06/01/2011**
Date Printed: **06/01/2011**

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
1106019-001	Excavation-12	Soil	6/1/2011 13:00	☐	A	A	A									

Test Legend:

1	G-MBTEX_S	2	PB_S	3	TPH(D)_S	4		5	
6		7		8		9		10	
11		12							

Prepared by: Melissa Valles

Comments:

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.

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Sample Receipt Checklist

Client Name: **GEOCON Env. Consultants**

Date and Time Received: **6/1/2011 3:09:01 PM**

Project Name: **#E8585-06-08; Caldecott**

Checklist completed and reviewed by: Melissa Valles

WorkOrder N°: **1106019** 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: 2.4°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: DRY 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	Client Project ID: #E8585-06-08; Caldecott	Date Sampled: 06/01/11
		Date Received: 06/01/11
6671 Brisa St	Client Contact: John Love	Date Extracted: 06/01/11
Livermore, CA 94550	Client P.O.:	Date Analyzed: 06/01/11

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Bm Work Order: 1106019

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	Excavation-12	S	---	---	ND	ND	ND	ND	1	84	

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

* water and vapor samples are reported in 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 McCampbell Analytical is not responsible for their interpretation:

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Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
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GEOCON Env. Consultants	Client Project ID: #E8585-06-08; Caldecott	Date Sampled: 06/01/11
		Date Received: 06/01/11
6671 Brisa St	Client Contact: John Love	Date Extracted: 06/01/11
Livermore, CA 94550	Client P.O.:	Date Analyzed: 06/02/11

Lead by ICP*

Extraction method: SW3050B Analytical methods: SW6010B Work Order: 1106019

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS	Comments
1106019-001A	Excavation-12	S	TOTAL	ND	1	96	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	µg/L
	S	TOTAL	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	Client Project ID: #E8585-06-08; Caldecott	Date Sampled: 06/01/11
		Date Received: 06/01/11
6671 Brisa St	Client Contact: John Love	Date Extracted: 06/01/11
Livermore, CA 94550	Client P.O.:	Date Analyzed 06/02/11

Total Extractable Petroleum Hydrocarbons*

Extraction method SW3550B Analytical methods: SW8015B Work Order: 1106019

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments
1106019-001A	Excavation-12	S	5.0	2	96	e7,e2

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	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 McCampbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant

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Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 58740 WorkOrder 1106019

EPA Method SW8021B/8015Bm **Extraction SW5030B** **Spiked Sample ID: 1106019-001A**

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
Benzene	ND	0.10	90.1	90.1	0	92.6	92.6	0	70 - 130	20	70 - 130	20
Toluene	ND	0.10	90.2	90.6	0.436	91.7	91.6	0.0529	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	91.3	91.9	0.598	92.1	92.5	0.397	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	91.3	91.7	0.381	91.1	91.7	0.678	70 - 130	20	70 - 130	20
%SS:	84	0.10	77	78	1.12	79	78	1.32	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 58740 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1106019-001A	06/01/11 1:00 PM	06/01/11	06/01/11 7:17 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.

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QA/QC Officer

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QC SUMMARY REPORT FOR 6010B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 1106019

EPA Method SW6010B	Extraction SW3050B	BatchID: 58742	Spiked Sample ID: 1106019-001A

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
Lead	ND	50	108	104	3.93	10	95.1	97.8	2.77	75 - 125	25	75 - 125	25
%SS:	96	500	94	92	2.14	500	102	98	4.30	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 58742 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1106019-001A	06/01/11 1:00 PM	06/01/11	06/02/11 10:23 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.

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QA/QC Officer

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 58741 WorkOrder 1106019

EPA Method SW8015B **Extraction SW3550B** **Spiked Sample ID: 1106019-001A**

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	115	116	0.685	101	104	3.42	70 - 130	30	70 - 130	30
%SS:	96	25	98	101	2.93	82	84	1.62	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 58741 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1106019-001A	06/01/11 1:00 PM	06/01/11	06/02/11 11:53 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.

DHS ELAP Certification 1644 QA/QC Officer

APPENDIX E

July 29, 2011

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

Subject: UST Removal Report
240 Caldecott Lane
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) 286-6022.

Sincerely,

Chris Bledsoe
Transportation Engineer
Office of Construction Environmental Engineering Support