

# GEOTECHNICAL . ENVIRONMENTAL . MATERIALS



December 4, 2012

Alameda County
DEC 0 5 2012

Ms. Donna Dragos Alameda County Environmental Health 1131 Harbor Bay Parkway Alameda, CA 94502

**Environmental Health** 

Dear Ms. Dragos:

On behalf of Caltrans District 4, Geocon is submitting this *Underground Storage Tank Removal Report* for two USTs removed from the Bay Bridge Toll Plaza area on July 28, 2012. This site is not in the LOP program.

The Caltrans contact for this project is Mr. Chris Bledsoe and he can be reached at (510) 286-6022, or if you have any questions regarding the contents of the report, please give me a call at (925) 961-5276.

Sincerely,

GEOCON CONSULTANTS, INC.

John Love, PG

Senior Project Geologist

7012 DEC -5 MM 7: 18



PREPARED FOR:

**CALTRANS DISTRICT 4** 111 GRAND AVENUE, 12TH FLOOR OAKLAND, CA 94612

PREPARED BY: GEOCON CONSULTANTS, INC. 6671 BRISA STREET

LIVERMORE, CALIFORNIA

**Environmental Health** 

Caltrans. Alameda County DEC 0 5 2012



**NOVEMBER 2012** 

GEOCON PROJECT NO. E8585-06-49 CALTRANS CONTRACT NO. 04A3570



# GEOTECHNICAL **E** ENVIRONMENTAL **E** MATERIALS



Project No. E8585-06-49 November 20, 2012

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

Subject:

UST REMOVAL REPORT

BAY BRIDGE TOLL PLAZA OAKLAND, CALIFORNIA

CONTRACT NO. 04A3570, WORK AUTHORIZATION No. 44

Dear Mr. Bledsoe:

Geocon has prepared this *UST Removal Report* for the above-referenced site on behalf of Caltrans - District 4. 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.

JOHN W. LOVE

No. 6315

Sincerely,

GEOCON CONSULTANTS, INC.

John Love, PG Sr. Project Geologist

Addressee

(3)

Richard Day, CEG, CHG Regional Manager

(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 Consultants, Inc. removed two approximately 2,000-gallon steel underground storage tanks (USTs) located at the Bay Bridge Toll Plaza area in Oakland, California (see Figure 1). In addition to removing the USTs, Geocon also over-excavated and arranged for the disposal of 39 tons of petroleum-impacted soil and the disposal of 1,072 gallons of fuel oil and rinsate fluids.

This report was prepared under Caltrans Contract No. 04A3570, Work Authorization No. 44.

# 1.1 Site Description

The Bay Bridge Toll Plaza area, where the USTs were located, was under demolition and renovation at the time the USTs were discovered and removed. The Toll Plaza area where the UST removals took place is just south of Interstate 80, immediately west of the toll booths. A Site Plan showing the UST locations relative to the former building structures is provided as Figure 2, and photographs of the USTs during the removal activities are in Appendix A.

# 1.2 Background

Portions of the Bay Bridge Toll Plaza area are being demolished and reconstructed in conjunction with the opening of the new Bay Bridge in 2013. During the demolition activities two USTs were discovered. UST #1 was a single-wall steel UST estimated to be 2,200 gallons in capacity. It had approximately 800 gallons of fuel oil (aka, Bunker oil) remaining in the tank upon discovery. UST #2 was a single-wall steel UST estimated to be 2,000 gallons in capacity. It was filled with sand slurry, and had some displaced diesel #2 fuel remaining in the fill pipe and UST.

UST #1 was located south of the Toll Plaza Building, and UST #2 was located approximately 20 feet south of Interstate 80, just west of the toll booths. The top of UST #1 was located at a depth of 5 feet, and the top of UST #2 at approximately 3.5 feet.

### 2.0 UST REMOVALS

On July 28, 2012, Geocon and NRC Environmental Services, Inc. (NRC) removed UST #1 and UST #2 from the Bay Bridge Toll Plaza area. Prior to the removals, Geocon obtained UST removal permits from the City of Oakland Fire Department (OFD). Copies of the permits were never issued by the OFD due to the quick turnaround time associated with acquiring the permits and removing the USTs; however, a copy of their *UST Closure / Removal Inspection Report* issued at the time the USTs were removed by OFD Inspector Mr. Keith Matthews is in Appendix B.

# 2.1 UST #1 Removal

UST #1 was removed after the top of the tank was unearthed, an estimated 1,050 gallons of fuel oil and rinsate fluids were removed, and the inside of the vessel was rendered inert with dry ice.

Once the UST was removed from the ground, it was loaded onto a truck provided NRC where it was then transported under hazardous waste manifest to the Ecology Control Industries facility in Richmond, California, for recycling. A copy of the hazardous waste manifest is in Appendix C.

Fuel oil and rinsate fluids from UST #1 were transported under hazardous waste manifest to the Riverbank Oil Transfer facility in Riverbank, California, for recycling. A copy of the hazardous waste manifest is in Appendix C.

# 2.1.1 UST #1 Confirmation Groundwater Sample Analysis and Results

The bottom of UST #1 was in contact with groundwater when it was removed from the ground (see Photograph 5 in Appendix A), and as such, the OFD inspector directed that groundwater samples be collected beneath the UST in lieu of a soil sample.

Groundwater samples were collected by submerging the appropriate sample containers in groundwater ponded underneath the UST after it was removed from the ground. Upon sample collection, the sample containers were placed in a chest cooled with ice for transport to McCampbell Analytical, Inc., a State of California-certified laboratory located in West Pittsburg, California.

The groundwater sample was analyzed for total petroleum hydrocarbons as gasoline (TPHg), diesel fuel (TPHd), and motor oil (TPHmo) following Environmental Protection Agency (EPA) Test Method 8015B, volatile organic compounds (VOCs) following EPA Test Method 8260B, and select metals arsenic, cadmium, chromium, copper, iron, lead, mercury, nickel, silver, and zinc following EPA Test Method 6020 and 6010B (iron).

TPHg was reported as non-detect in the groundwater sample collected beneath UST #1. TPHd was reported at a concentration of 0.23 milligrams per liter (mg/l), and TPHmo was reported at 0.69 mg/l. The TPHd and TPHmo concentrations exceed the San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) of 0.10 mg/l and 0.21 mg/l, respectively, where groundwater is and is not a current or potential drinking water source.

The only VOC detected was naphthalene at a concentration of 0.00076 mg/l.

Cadmium, mercury, and silver were reported as below their respective detection limits. Arsenic and chromium were reported at concentrations below their respective ESLs. Copper, lead, nickel, and zinc were reported at concentrations exceeding the ESLs where groundwater is and is not a current or potential drinking water source.

Copies of the analytical laboratory data sheets for the confirmation groundwater sample collected from the UST #1 excavation are in Appendix D, and analytical laboratory results are tabulated in Table 1.

## 2.2 UST #2 Removal and Soil Over-Excavation

UST #2 was removed by cutting and peeling the top of the tank back so the sand slurry inside the tank could be excavated out using a backhoe (see Photographs 9 and 10 in Appendix A). Prior to excavating the slurry from the tank, NRC vacuumed an estimated 20 to 30 gallons of diesel fuel product that was pooled on the surface of the sand slurry once the top of the tank was exposed (see Photograph 9 in Appendix A).

After the fuel product and most of the sand slurry was removed from UST #2, the UST was removed from the ground using an excavator, the remaining slurry was emptied out of the tank, and the UST was crushed for transport and offsite recycling as scrap metal.

No holes were observed in the UST upon removal; however, obvious diesel fuel odors were present in the soil near the fill port and immediately adjacent to the tank upon removal. As a result, we over-excavated an estimated 20 tons (or 13 cubic yards) of petroleum-impacted soil surrounding the UST. The over-excavated soil and sand slurry from inside the UST were temporarily stockpiled onsite on plastic sheeting. Two days later the stockpiled material was transferred into three 20-cubic yard bins where it was eventually transported for disposal at Clean Harbors Landfill in Buttonwillow, California.

# 2.2.1 UST #2 Confirmation Soil Sample Analysis and Results

One soil sample was collected from the bottom of the UST #2 excavation, at the direction of the OFD inspector. The sample was collected at a depth of approximately 11 feet using the backhoe bucket. Soil from the backhoe bucket was then transferred into a stainless steel sample tube. Once filled, the sample tube was capped on both ends with Teflon tape and plastic end caps, placed in a chest cooled with ice, and transported to McCampbell Analytical, Inc.

The confirmation soil sample from UST #2 was analyzed TPHg, TPHd, and TPHmo following EPA Test Method 8015B, VOCs following EPA Test Method 8260B, and select metals arsenic,

cadmium, chromium, copper, iron, lead, mercury, nickel, silver, and zinc following EPA Test Methods 6020 and 6010B (iron).

TPHg was reported as non-detect. TPHd was reported at a concentration of 87 milligrams per kilogram (mg/kg), and TPHmo was reported at 480 mg/kg. The TPHd concentration exceeds the RWQCB ESL of 83 mg/kg for residential and commercial/industrial land use, and the TPHmo concentration exceeds the residential land use ESL of 370 mg/kg.

The only VOC detected in the UST #2 confirmation soil sample was naphthalene at a concentration of 0.048 mg/kg.

Cadmium, mercury, and silver were reported as below their respective detection limits. Chromium, copper, iron, lead, nickel, and zinc were reported at concentrations below their respective ESLs. Arsenic was reported at a concentration of 3.1 mg/kg which exceeds the residential and commercial/industrial land use ESLs of 0.39 mg/kg and 1.6 mg/kg, respectively.

Copies of the analytical laboratory data sheets for the confirmation soil sample collected from the UST #2 excavation are in Appendix D and analytical laboratory results are tabulated in Table 2.

# 2.3 Stockpile Soil Sampling and Results

One four-point composite soil sample (Stockpile A-D) was collected from the stockpiled soil generated from the UST #2 excavation area. The sample was analyzed for TPHg, TPHd, and TPHmo following EPA Test Method 8015B, benzene, toluene, ethylbenzene, and xylenes (BTEX) following EPA Test Method 8021B, and LUFT 5 metals following EPA Test Method 6010B.

TPHg, TPHd, and TPHmo were reported at concentrations of 180 mg/kg, 2,100 mg/kg, and 1,200 mg/kg, respectively.

Benzene and toluene were reported as non-detect. Ethylbenzene was reported at concentration of 0.18 mg/kg, and xylenes were reported at 1.2 mg/kg.

LUFT 5 metals, except chromium and lead, were reported at concentrations less than their respective total threshold limit concentrations (TTLC) and ten times their soluble threshold limit concentrations (STLC).

Chromium was reported at a concentration of 55 mg/kg, which is more than ten times its STLC of 5.0 mg/l. As a result, the sample was further analyzed for soluble chromium following waste

extraction test (WET) methodology. STLC chromium was reported at a concentration of 0.21 mg/l which is below the STLC of 5.0 mg/l.

Lead was reported at a concentration of 120 mg/kg. As a result, the sample was further analyzed for soluble lead following WET and toxicity characteristic leaching procedure (TCLP) methodologies. STLC lead was reported at a concentration of 19 mg/l and TCLP lead at <0.2 mg/l. The STLC lead concentration of 5.0 mg/l was exceeded; however, the TCLP lead concentration was not, so the stockpile soil qualified for disposal as a California hazardous waste.

The stockpile soil sample results are tabulated in Table 3, and copies of the analytical laboratory data sheets are in Appendix D.

# 2.4 Soil and Groundwater Conditions

Soil underlying the UST#1 and UST #2 excavation areas consisted predominantly of poorly graded, fine to medium silty sand with some construction debris. Groundwater was present at approximately 11 feet at the time the USTs were removed; however, the depth to groundwater in the area of the Bay Bridge Toll Plaza is tidally influenced and may be shallower or deeper depending on the tide cycle. At approximately 12 feet below ground surface underlying the Toll Plaza area is a concrete pile platform. Excavation below 12 feet at the site is not possible without significant effort to remove the concrete pile platform.

# 3.0 SOIL DISPOSAL

On July 28, 2012, soil excavated from the UST #2 excavation was stockpiled onsite and covered with plastic sheeting. On July 31, 2012, the stockpiled soil was transferred into three 20-cubic-yard soil bins and left onsite pending disposal arrangements.

On August 31, 2012, the soil bins with approximately 39 tons of soil were transported under hazardous waste manifest to Clean Harbors Landfill in Buttonwillow, California, for disposal as California hazardous waste.

Copies of the hazardous waste manifest and landfill weight tickets are 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:

- Holes were not observed in UST #1 or UST #2. Both USTs were intact upon removal from the ground.
- Analytical results of the grab groundwater sample collected beneath UST #1 indicate that TPHd
  and TPHmo are present at concentrations of 0.23 mg/l and 0.69 mg/l, respectively. Both of these
  concentrations exceed the groundwater ESL; however, groundwater beneath the Bay Bridge Toll
  Plaza is not of beneficial use.
- Some diesel spillage around the fill port of UST #2 was observed during the removal of this UST;
   however, most of the impacted soil was removed during the over-excavation process.
- The confirmation soil sample collected from the UST #2 excavation indicates that TPHd and TPHmo are present at concentrations of 87 mg/kg and 480 mg/kg, respectively. Both of these concentrations exceed the residential ESLs of 83 mg/kg for TPHd and 370 mg/kg for TPHmo; however, this site is being redeveloped as the new Bay Bridge Toll Plaza and recreational park in conjunction with the new Bay Bridge and will not be used for residential land use for the foreseeable future.
- Arsenic was also reported in soil at concentrations exceeding residential and commercial/industrial land use ESLs; however, naturally occurring arsenic concentrations often exceed the ESLs, and the arsenic concentration (3.2 mg/kg) is well within published background concentrations for the area.
- Based on field observations noted during the UST removals, as well as soil and grab groundwater samples collected beneath each tank, we do not feel that additional investigation is necessary at this site. Remaining TPH-impacted soil is located more than 10 feet below ground surface, groundwater is not used for drinking water purposes or other beneficial uses, and the site is being redeveloped as the new Bay Bridge Toll Plaza.



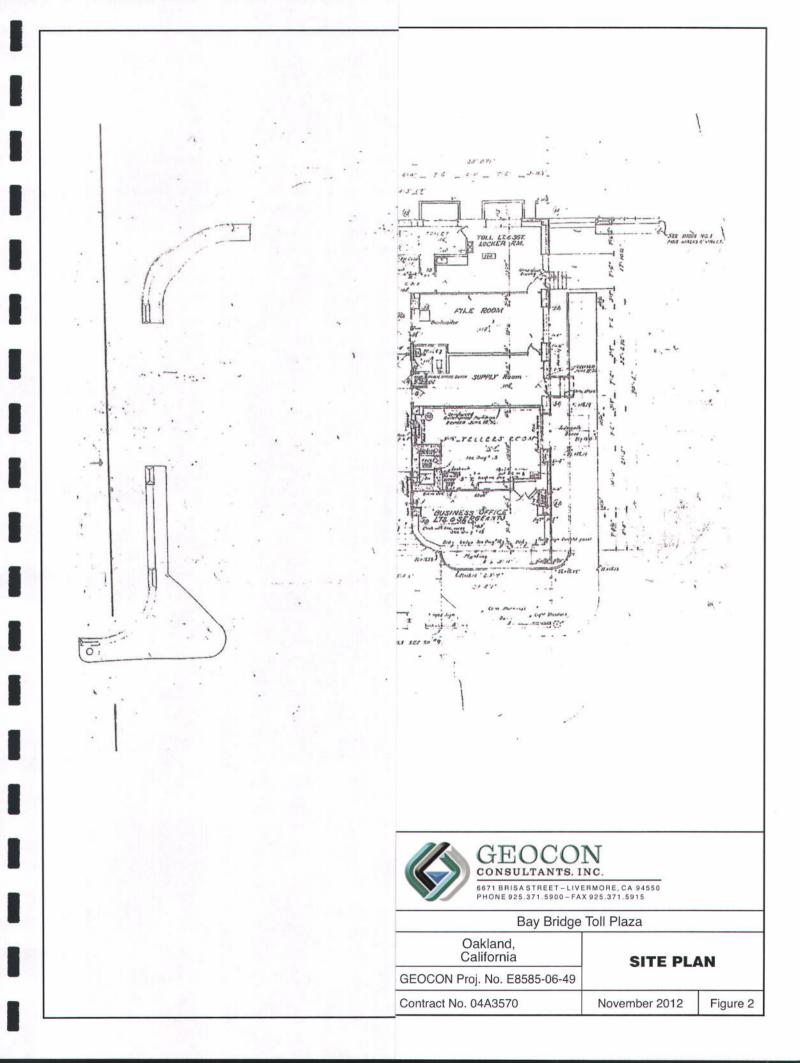


Table 1 UST #1 Groundwater Sample Results Caltrans - Bay Bridge Toll Plaza Oakland, California

Sample Location / ID	Sample Depth (feet bgs)	TPHg (mg/l)	TPHd (mg/l)	TPHmo (mg/l)	VOCs (mg/l)	Arsenic (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Copper (mg/l)	Iron (mg/l)	Lead (mg/l)	Mercury (mg/l)	Nickel (mg/l)	Silver (mg/l)	Zinc (mg/l)
UST #1	11	< 0.050	0.23	0.69	naphthalene = 0.00076	0.0085	<0.0025	0.062	0.055	35	0.084	<0.00025	0.069	<0.0019	0.20
	Groundwater ESLs														
Drinking Water - Curre	nt/Potential Source	0.10	0.10	0.10	*0.017	0.036	0.00025	0.18	0.0031		0.0025	2.5E-05	0.0082	0.0002	0.081
Drinking Water - Not Curre			0.21	0.21	*0.024	0.036	0.00025	0.18	0.0031		0.0025	2.5E-05	0.0082	0.0002	0.081

Table 2 UST #2 Soil Sample Results Caltrans - Bay Bridge Toll Plaza Oakland, California

Sample Location / ID	Sample Depth (feet bgs)	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	VOCs (mg/kg)	Arsenic (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Nickel (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
UST #2	11	<1.0	87	480	naphthalene = 0.048	3.1	< 0.25	39	5.0	11,000	6.3	< 0.05	29	< 0.5	310
Environmental	Screening Levels														
Resi	idential Land Use	83	83	370	*1.3	0.39	1.7	750	230		200	1.3	150	20	600
Con	nm/Ind Land Use	83	83	2,500	*2.8	1.6	7.4	750	230		750	10	150	40	600
Const	ruction Exposure	4,200	4,200	12,000	*130	15	39	1.2E+06	310,000		750	58	260	3,900	230,000

Table 3 Stockpile Soil Sample Results Caltrans - Bay Bridge Toll Plaza Oakland, California

Sample ID	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Stockpile A-D	180	2,100	1,200	<0.10	< 0.10	0.18	1.2	<1.5	55	120	49	260
STLC			***						0.21	19		
TCLP								7577		< 0.2		
fazardous Waste Criteria												
TTLC								100	2,500	1,000	2,000	5,000
STLC						***		1.0	5.0	5.0	20	250
TCLP								1.0	6.0	5.0		

### Notes -

--- = not analyzed or no standard

< = analyte was not detected above the laboratory reporting limit

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

ESLs = Environmental Screening Levels, Tables A and K-3, SFRWQCB, Revised May 2008

ESLs for chromium are for Chromium III, as there is no standard for total chromium

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration (mg/l)

TCLP = toxicity characteristic leaching procedure (mg/l)

<sup>\* =</sup> for naphthalene

# APPENDIX A



Photo 1 - View looking southeast at UST #1 being unearthed.

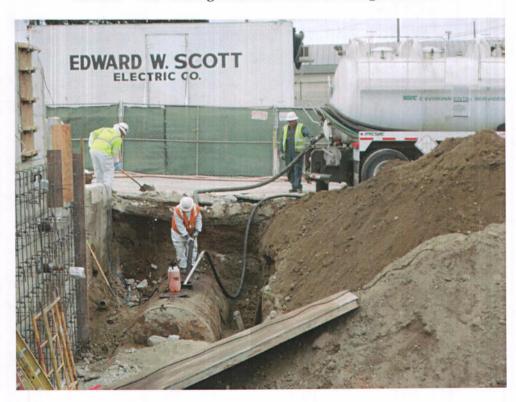


Photo 2 - View looking south as UST #1 is being cleaned.



SITE	PH	OTOS	1	and	d 2	
ltrans	Bay	Bridg	e T	Coll	Plaz	1

Caltrans Bay Bridge Toll Plaza Oakland, California



Photo 3 - View looking southeast at UST #1 being removed from ground.



Photo 4 - View looking at UST #1 after it was removed from the ground.



SITE PHOTOS 3 and 4	
Itrans Bay Bridge Toll Pla	7

Caltrans Bay Bridge Toll Plaza Oakland, California



Photo 5 - View looking southeast at groundwater pooled under UST #1.



Photo 6 – View looking south at UST #1 loaded for delivery to ECI in Richmond, CA.



# SITE PHOTOS 5 and 6 Caltrans Bay Bridge Toll Plaza

Caltrans Bay Bridge Toll Plaza Oakland, California



Photo 7 - View looking southeast at UST #1 area after backfilled with native soil.



Photo 8 – View looking west at UST #2 area prior to being unearthed



# SITE PHOTOS 7 and 8 Caltrans Bay Bridge Toll Plaza

Oakland, California



Photo 9 – View looking southeast at UST #2 as diesel #2 is being pumped off surface of sand slurry.



Photo 10 - View looking west at UST #2 while sand slurry is being excavated out of vessel.



SITE PHOTOS 9 and 10
Caltrans Bay Bridge Toll Plaza
Oakland, California



Photo 11 – View of UST #2 being smashed prior to removal from site as scrap metal.



Photo 12 - View looking west at UST #2 after removal and backfill with native soil.



# SITE PHOTOS 11 and 12

Caltrans Bay Bridge Toll Plaza Oakland, California

# APPENDIX B

UNIFORM HAZARDOUS 1.	Generator ID Number CACOO'269	0214		nemency Response CES 510 749				206	3 JJH
SEFERITMENTOPA 111 GRAND AVENU OAKLAND CA 946	TRENSPORTATION CA JE FLOOR 12 12 6 2 2 - 8 7 5 0		1 TO	TRANOTOS DIL PLAZA F (LAND CA	3D EB &	874 ing addres WB 1-80	s)		
Generator's Phone:  Transporter 1 Company Name NRC Environment.						US. EPARN	D D (	0 0 3 (	1 1 1 4
7. Transporter 2 Company Name						U.S. EPA ID N	lumber		
EDULUTE WOONTR	OLINOUSTRIES					U.S. EPAID N	iumber		
255 PARR BLVD. RICHMOND CA 94 Facility's Phone: 510 235-						1C A D	001	9 4 6	6382
9a. 9b. U.S. DOT Description	(including Proper Shipping Name, Haz	zard Class, ID Number,	300	10. Contai	ners Type	11. Total Quantity	12. Unit WL/Vol.	13.	Waste Codes
	ZARDOUS WASTE SOL	ID (UST, RESI	DUE LAST	NG.	Турс			512	
X CONTAIN FUEL	. OIL)			0 0 1	TP	03000	Р		i
2 .									
					-	-			
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				-	-	-			
4.								-5-00-000-010	
TANKS # 3 4 CONSULTANT: G	EOCON CONSULTANT	S, INC. 66	71 BRISA SZTY:	3TREET,	LIVER	MORE, CA	ninnino nam	e, and are cla	ssified, packao am the Priman
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	LE Walley and Cita Address	100					U.S. EPA ID N	umber			
É	esignated Facility. Name and Site Address Riverbank Oil Transfer, LLC 1300 Claus Road, Bidg. 11 Riverbank CA 95367 ility's Phone: 209 803-8181						CAL	00	1 9	081	ð
9a.	9b. U.S. DOT Description (including Proper Shi	oping Name, Hazard Class, ID Numbe	ır,		10. Containe	ers Type	11. Total Quantity	12. Unit Wt./Vol.	13. \	Waste Codes	n 18
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DESIGNATED	9. Hazardous Waste Report Management Method C	odes (i.e., codes for hazardous waste	e treatment, dis	posal, and re	cycling systems	)	4.			396	
100	11/19/	2.		3.							
2 P	0. Designated Facility Owner or Operator: Certification	on of receipt of hazardous materials of		Signature	ept as noted in l	tem 18a				Month [	Day Ye
<b>↓</b>   EPA F	Form 8700-22 (Rev. 3-05) Previous editions a	and he was a few or the second	1 10 70	A Plan	EPSWELL.	1			TRANS	PORTE	a's co

APPENDIX C

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

Site Address: Toll F	laze	2		1	7	Name of Facility: State	V/ Tol	15	1/1	n	
Inspector: Keith	in	EHH	EW.	(R)	V	Contact on site: Coco	1100	1	1aga	and	53
Date and Time of Arrival: 26	July	2				Contractor/Consultant:	1/VE	MIL	ove	167	105
Constall			**	1	T 27/ 4		Trupo	De 11	115	22	Tieta
General Requirer	nents		Yes	No	N/A	General Require			Yes	No	N/A
Approved closure plan on site.			1			Site Safety Plan properly signed	\	/			
Changes to approved plan noted			X	-		40B:C fire extinguisher on site.			,		
Residuals properly stored/transp			X			"No Smoking" signs posted.		X			
Receipt for adequate dry ice note	ed.		×			Gas detector challenged by insp	ector.		)		
Tank Observations	T #1	T	¥2 7	Г. #3	T #4	Tank Observations	T #1	70° 412	700 (1)		
Tank Capacity (gallons)						Obvious corrosion?		T #2	T #	5 1	T #4
Material last stored						Obvious odors from tank?	Yes			+	
Dry ice used (pounds)						Seams intact?	Yes			+	-
Combustible gas concentration a	s %LEL. (	Note tin	ne & sa	mpling	point)	Tank bed backfill material	40		+	+	
(1)	NA	1	)			Obvious discoloration?	113			-	
(2)						Obvious odors ex tank bed?	Ye)				
(3)						Water in excavation?	Ye	,		+	
Oxygen concentration as % volu		time &	sampli	ng poin	t.)	Sheen/product on water?	NO				
(1)	NA	1	6			Tank tagged by transporter?	No				
(2)			_			Tank wrapped for transport?	NO				
Tank Material	+	-	_			Tank plugged w/ vent cap?	400				
Wrapping/Coating, if any	+	-	-	-		Date/time tank hauled off?		:12:	20		
Obvious holes?	-	-	District Control	-		No. of soil samples taken?	7.1.	1.	24	47	
outload notes:					,	Depth of soil samples (ft. bgs)				Gun	1051
Piping Remova	al		Yes	No	N/A	General Observa	tions	Τ,	Yes 1	No	N/A
All piping removed hauled off w	tanks?		X		7	Leak from any tank suspected?				-	14/28
Obvious holes on pipes?			Á	X		"Leak Report" form given to the	operator?		-		
Obvious odors from pipes?				1		Obviously contaminated soil exc	The State of the S		-	-	
Obvious soil discoloration in pipi	ng trench?			A	1	Soil stockpile sampled?	avaicur			-	
Obvious odors from piping trenc		-				Stockpile lined AND covered?					
Water in piping trench?		-			1	Water in excavation sampled?					
Number & depth of soil samples	from piping	z trench	2		XXX	Number/depth of water samples	4.1 0	. 10			
Number & depth of water sample		S			X 11	All samples properly preserved f		11-	>1h	つれ	TK
A 44% 1 OL			**		MI					Aye	TLLE
Additional Observa Soil/water sampling protocols acc		-	Yes	No	N/A	SITE & SAN	IPLING I				
Sampling "chain of custody" note		-	1/			rane	186	· BUL	ind	M	K
Tank pit filled in or covered?			1 1			3.3	)			N	TOLL
Tank pit fenced or barricaded?		PSM	X		1	5 a divin	Rurden	1	1	-	B
Transporter a registered HW hau	ler?	-	1			(SL2/L	T. M.	7 (	Z	-	. 52
Uniform HW Manifest completed			1			42 Bas Bile		Vy	1	IE	B
Contractor/Consultant reminded UST Removal Report due within Date/Time removal/closure opera	30 days?			. 0-	· 28.1	60 By SAITH	4	Boots	al	1	_
OT hours or additional charges de			12	:30	and	15'Long our	28.54	1	Tol	1	. 0
Notes/Comments:	2 (1)	006	- Ec	1	Dies	1+ 2700015	TELL	1164	HOP	n K	de
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UST Closure / Removal Inspection Report/ dmg April 1998  $_{\circ}$  /  $^{\circ}$   $^{\circ}$   $^{\circ}$ 

APPENDIX D

# **Analytical Report**

GEOCON Env. Consultants	Client Project ID: #E8585-06-09; Toll Plaza UST	Date Sampled: 07/28/12
6671 Brisa St	Remove	Date Received: 07/30/12
60/1 Brisa St	Client Contact: John Love	Date Reported: 07/31/12
Livermore, CA 94550	Client P.O.:	Date Completed: 07/31/12

WorkOrder: 1207737

July 31, 2012

Dear John:

Enclosed within are:

- 1) The results of the 3 analyzed samples from your project: #E8585-06-09; Toll Plaza UST Remove,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

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.

The analytical results relate only to the items tested.

# McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD 120773 PITTSBURG, CA 94565-1701 120773

Website: www.mccampbell.com Email: main@mccampbell.com Telephone: (877) 252-9262 Fax: (925) 252-9269

# CHAIN OF CUSTODY RECORD

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RUSH 24 HR GeoTracker EDF PDF Excel Write On

																					Check if sample is effluent and "J" flag is requ	red 7
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Tele: (925) 371-5 Project #: E8585 Project Location Sampler Signatur	5900 . -06-09 :: Bay Bridge			E-Ma Fax: Proje	(925	) 37 me:	Toll MA	15 I Pla	IX	UST	MET	THOD	D ED	08160	8015B)	15B)	**** VDCS (8260B)		As, Cd, Cr, Cu, Fe, Pb, Hg, Ni, Ag, Zn	5x (80318)	sampl potent dange handle	these es are ially rous to
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Relinquished By:		Date:	Time:	Rece	ived By	yı							PI	PPR RES	ERV	RIA ÆD	TEC	LAB	TAI	NEF O&	composite stockpile sample S A to 0 in lab to form of sample labeled as G METALS OTHER Stockpile A-D"	حو

# McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD 207737

Website: www.mccampbell.com Email: main@mccampbell.com Fax: (925) 252-9269 Telephone: (877) 252-9262

# CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR

GeoTracker EDF □ PDF □ Excel □ Write On (DW)

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Relinquished By:		Date:	Time:	Rec	eived I	By:						_	٦ '	RE	SERV	LD	IN L	/LD_	,	7		/	S	amp	ill	lab	elcck	as ,
remiduance of		35.00.55.0											F	PRE	SERV	ATI	ION	VOA	S	0&G	METAL,	8 0	THE	5 -1	st	ock.	pile	samplus form one as A-D"

# McCampbell Analytical, Inc.



# **CHAIN-OF-CUSTODY RECORD**

✓ Email

Page 1 of 1

WorkOrder: 1207737

Excel

EQuIS

ClientCode: GECL

HardCopy

ThirdParty

J-flag

1 day

Report to:

John Love

GEOCON Env. Consultants

6671 Brisa St

Livermore, CA 94550

925-371-5900

FAX: 925-371-5915

WriteOn

love@geoconinc.com; Livermore@geoconi

EDF

cc:

Email:

WaterTrax

PO:

ProjectNo: #E8585-06-09; Toll Plaza UST Remove

Bill to:

Accounts Payable

GEOCON Env. Consultants

6671 Brisa St

Livermore, CA 94550

Requested TAT: Date Received:

07/30/2012

Date Printed: 07/30/2012

Lab ID	0				Requested Tests (See legend below)											
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1207737-001	UST#1	Water	7/28/2012			В		C		Δ.						
1207737-002	UST#2	Soil	7/28/2012 10:22	H	Α		A	-	^	A		^	C			
1207737-003	Stockpile A-D	Soil	7/28/2012	17	, ,				A		•	A				

### Test Legend:

1	8260B_S
6	G-MBTEX_W
11	

2	8260B_W
7	LUFT_S
12	

3	ALKIMET_S
8	METALSMS S

4	ALKIMET_W
9	METALSMS W

5	G-MBTEX_S
10	TPH(DMO)_S

The following SampIDs: 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

lient Name:	GEOCON Env. Consultants			Date and	Time Received:	7/30/2012 12:41:21 PM
roject Name:	#E8585-06-09; Toll Plaza UST Remove			LogIn Rev	viewed by:	Maria Venega
VorkOrder N°:	1207737 Matrix: Soil/Water			Carrier:	Client Drop-In	
	Cha	in of Cu	istody (CC	C) Information	1	
Chain of custody	present?	Yes	<b>✓</b>	No 🗆		
Chain of custody	signed when relinquished and received?	Yes	<b>✓</b>	No 🗆		
	agrees with sample labels?	Yes	<b>✓</b>	No 🗆		
	ed by Client on COC?	Yes	<b>✓</b>	No 🗆		
	of collection noted by Client on COC?	Yes	<b>✓</b>	No 🗆		
	noted on COC?	Yes		No 🗹		
		Sample	Receipt I	nformation		
Custody seals in	ntact on shipping container/cooler?	Yes		No 🗆		NA 🗹
- 2	ner/cooler in good condition?	Yes	•	No 🗆		
	er containers/bottles?	Yes	<b>✓</b>	No 🗆		
Sample containe		Yes	<b>✓</b>	No 🗆		
Sufficient sampl	e volume for indicated test?	Yes	<b>✓</b>	No 🗆		
	Sample Pre	servatio	n and Hol	d Time (HT) In	formation	
All samples rece	eived within holding time?	Yes	<b>✓</b>	. No 🗆		
	Blank temperature	Cool	er Temp:	3.5°C		NA 🗆
	als have zero headspace / no bubbles?	Yes	<b>✓</b>	No 🗆 N	o VOA vials subn	nitted
	checked for correct preservation?	Yes	<b>✓</b>	No 🗌		
	eptable upon receipt (pH<2)?	Yes	<b>✓</b>	No 🗆		NA 🗆
Samples Recei	ved on Ice?	Yes	•	No 🗌		
	(Ice Ty	pe: Wi	ET ICE )			
* NOTE: If the '	'No" box is checked, see comments below.					



# McCampbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

GEOCON Env. Consultants

Client Project ID: #E8585-06-09; Toll

Date Sampled: 07/28/12

6671 Brisa St

Plaza UST Remove

Date Received: 07/30/12

Client Contact: John Love Livermore, CA 94550

Date Extracted: 07/30/12

Client P.O.:

Date Analyzed: 07/30/12

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Extraction Method. SW3030B		Ana	lytical Met	nod: SW8260B	Work Order: 1207	737	
Lab ID				1207737-002A			
Client ID				UST#2			
Matrix				Soil			
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reportin
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.003
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.004
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.003
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	0.048	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND		0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes, Total	ND ND	1.0	0.005
		Sur	rogate Re	coveries (%)	, ND	1.0	0.003
%SS1:	104	Dari	ogate Ne	%SS2:	101		
%SS3:	111			70552.	101		

\* 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; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



GEOCON Env. Consultants	Client Project ID: #E8585-06-09; Toll	Date Sampled: 07/28/12
	Plaza UST Remove	Date Received: 07/30/12
6671 Brisa St	Client Contact: John Love	Date Extracted: 07/30/12
Livermore, CA 94550	Client P.O.:	Date Analyzed: 07/30/12

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

Extraction Method: SW5030B	Analytical Method:	SW8260B	Work Order: 1207737

Lab ID				1207737-001B					
Client ID			UST#1 Water						
Matrix				Water			Reportin		
Compound			Concentration *	DF	Limit				
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5		
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5		
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5		
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5		
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0		
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5		
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5		
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5		
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5		
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5		
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5		
1.2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5		
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5		
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5		
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5		
1.2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5		
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5		
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5		
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5		
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5		
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5		
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10		
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5		
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5		
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5		
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5		
Naphthalene	0.76	1.0	0.5	n-Propyl benzene	ND	1.0	0.5		
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5		
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5		
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5		
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5		
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5		
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5		
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5		
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total	ND	1.0	0.5		
1000		Su	rrogate E	Recoveries (%)					

%SS1: 106 %SS3:

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

<sup>\*</sup> 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.



Client Project ID: #E8585-06-09; Toll	Date Sampled: 07/28/12
Plaza UST Remove	Date Received: 07/30/12
Client Contact: John Love	Date Extracted: 07/30/12
Client P.O.:	Date Analyzed: 07/31/12
	Plaza UST Remove  Client Contact: John Love

# Alkali Metals by ICP\*

Extraction method: E200.7		Analy	Analytical methods: E200.7/SW6010B				
Lab ID	Client ID	Matrix	Extraction Type	Iron	DF	% SS	Comments
1207737-001C	UST#1	w	TOTAL	35,000	1	116	
1207737-002A	UST#2	S	TOTAL	11,000	10	113	
		1.54.5					
				E			

Reporting Limit for DF =1; ND means not detected at or	W	TOTAL	20	μg/L
above the reporting limit	S	TOTAL	15	mg/Kg

<sup>\*</sup>water/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 recovery outside of acceptance range due to matrix interference; & means low or no surrogate due to matrix interference; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

GEOCON Env. Consultants 6671 Brisa St	Client Project ID: #E8585-06-09; Toll	Date Sampled: 07/28/12
	Plaza UST Remove	Date Received: 07/30/12
	Client Contact: John Love	Date Extracted 07/30/12
Livermore, CA 94550	Client P.O.:	Date Analyzed 07/30/12

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

action method: SW50	030B	Analytical metho	Analytical methods: SW8015Bm			Work Order: 1207737		
Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comment		
001A	UST#1	w	ND	1	85			
002A	UST#2	S	ND	1	97			
			11					
			a types of types					
	Say of the say							
T I								
7112								
			The latest					
	n = 241							

Reporting Limit for DF =1; ND means not detected at or	w	50	μg/L
above the reporting limit	S	1.0	mg/Kg

<sup>\*</sup> water and vapor samples are reported in  $\mu g/L$ , soil/sludge/solid samples in mg/kg, wipe samples in  $\mu g/wipe$ , 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:

Angela Rydelius, Lab Manager



GEOCON Env. Consultants		Date Sampled:	07/28/12
6671 Brisa St	Plaza UST Remove	Date Received:	07/30/12
STREET COUNTY SEPTEMBERS AND ABOUT TO	Client Contact: John Love	Date Extracted:	07/30/12
Livermore, CA 94550	Client P.O.:	Date Analyzed:	07/30/12

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

Extraction i	Extraction method: SW5030B Analytical methods: SW8021B/8015Bm						Wo	rk Order:	1207737		
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
003A	Stockpile A-D	S	180		ND<0.10	ND<0.10	0.18	1.2	20	97	d7
					1,270						
									7		
							Haraten I				
									T		

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

<sup>\*</sup> 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.

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram



<sup>#</sup> cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor



### McCampbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

GEOCON Env. Consultants	Client Project ID: #E8585-06-09; Toll	Date Sampled: 07/28/12
6671 Brisa St	Plaza UST Remove	Date Received: 07/30/12
	Client Contact: John Love	Date Extracted: 07/30/12
Livermore, CA 94550	Client P.O.:	Date Analyzed: 07/31/12

_	 	_		_		
Т	74	5	M	PI	19	6*

l.		DOLL DIRECTION	
Extraction method:	SW3050B	Analytical methods: SW6010B	Work Order: 1207737

Client ID	Matrix	Extraction Type	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS	Comments
Stockpile A-D	S	TOTAL	ND	55	120	49	260	1	118	
									hair	
	THE T									
									B.P.	
	19th									
								Stockpile A-D         S         TOTAL         ND         55         120         49         260	Stockpile A-D         S         TOTAL         ND         55         120         49         260         1	Stockpile A-D         S         TOTAL         ND         55         120         49         260         1         118

Reporting Limit for DF =1; ND means not detected at or	W	TOTAL	NA	NA	NA	NA	NA	NA
above the reporting limit	S	TOTAL	1.5	1.5	5.0	1.5	5.0	mg/Kg

\*water samples are reported in  $\mu g/L$ , 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  $\mu g/wipe$ , filter samples in  $\mu g/wipe$ .

# 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

DHS ELAP Certification 1644

R.

Angela Rydelius, Lab Manager

GEOCON Env. Consultants			Date Sampled:	07/28/12			
((71 Prins St	Plaza	UST Remove	Date Received: 07/30/12				
6671 Brisa St	Client	t Contact: John Love	Date Extracted: 07/30/12				
Livermore, CA 94550	ore, CA 94550 Client P.O.: Date Analyzed:			07/30/12			
Extraction Method: SW3050B		Metals* Analytical Method: SW6020		Work Order:	1207737		
Lab ID	1207737-002	A					
Client ID	UST#2			Reporting DF			
Matrix	Soil			1 Dr	-1		
DF	1						
Extraction Type	TOTAL			S	W		
Compound		Concentration		mg/kg	μg/L		
Arsenic	3.1			0.5	NA		
Cadmium	ND			0.25	NA		
Chromium	39			0.5	NA		
Copper	5.0			0.5	NA		
Lead	6.3			0.5	NA		
Mercury	ND			0.05	NA		
Nickel	29			0.5	NA		

\*water samples are reported in  $\mu g/L$ , 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  $\mu g/mg/kg$ .

# 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.

Surrogate Recoveries (%)

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.

ND

310

109

DISS = Dissolved metals by direct analysis of 0.45  $\mu m$  filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

Silver

Zinc

%SS:

Comments



0.5

5.0

NA

NA

GEOCON Env. Consultants		Project ID: #E8585-06-09; Toll	Date Sampled:	07/28/12			
((71 P.: C)	Plaza U	ST Remove	Date Received: 07/30/12				
6671 Brisa St	Client C	Contact: John Love	Date Extracted:	Date Extracted: 07/30/12			
Livermore, CA 94550	Client P	2.0.:	Date Analyzed:	07/30/12			
		Metals*	2.7				
Extraction Method: E200.8	Aı	nalytical Method: E200.8		Work Order:	1207737		
Lab ID	1207737-001C						
Client ID	UST#1		Repor		oorting Limit for DF =1		
Matrix	Water			DF	=1		
DF	10						
Extraction Type	TOTAL			S	W		
Compound		Concentration		μg/kg	μg/L		
Arsenic	8.5			NA	0.5		
Cadmium	ND<2.5			NA	0.25		
Chromium	62			NA	0.5		
Copper	55			NA	0.5		
Lead	84			NA	0.5		

%SS: 105

Comments a12

ND<0.25

69

ND<1.9

200

\*water samples are reported in  $\mu g/L$ , product/oil/non-aqueous liquid samples and all TCLP / WET / DI WET / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in  $\mu g/wipe$ , filter samples in  $\mu g/filter$ .

# 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.

Surrogate Recoveries (%)

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

Mercury

Nickel

Silver

Zinc

a12) reporting limit raised due to high non-reported metals content.

Angela Rydelius, Lab Manager

0.025

0.5

0.19

5.0

NA

NA

NA

NA



		Date Sampled:	07/28/12
6671 Brisa St	Plaza UST Remove	Date Received:	07/30/12
	Client Contact: John Love	Date Extracted:	07/30/12
Livermore, CA 94550	Client P.O.:	Date Analyzed:	07/30/12

#### Total Extractable Petroleum Hydrocarbons\*

Extraction method: SW3:	510C/SW3550B	Analytical r	nethods: SW8015B	Work Order: 1207737			
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1207737-001A	UST#1	w	230	690	2	86	e7,e2
1207737-002A	UST#2	S	87	480	50	123	e7,e2
1207737-003A	Stockpile A-D	S	2100	1200	50	108	el
						7	
				1,00		1	
							No.

Reporting Limit for DF =1; ND means not detected at or	W	50	250	μg/L
above the reporting limit	S	1.0	5.0	mg/Kg

<sup>\*</sup> 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.

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

e1) unmodified or weakly modified diesel is significant

e2) diesel range compounds are significant; no recognizable pattern

e7) oil range compounds are significant

Angela Rydelius, Lab Manager

DHS ELAP Certification 1644

<sup>#</sup> 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

#### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 69451

WorkOrder: 1207737

EPA Method: SW8260B	Extraction: SW5030B						Spiked Sam	iple ID:	1207668-002	
Analyte	Sample	Spiked	MS	MSD	MS-MSD . % RPD	LCS	Acceptance		Criteria (%)	
, way to	mg/Kg	mg/Kg	% Rec.	% Rec.		% Rec.	MS / MSD	RPD	LCS	
tert-Amyl methyl ether (TAME)	ND	0.050	78.4	78.2	0.191	75.9	56 - 94	30	50 - 135	
Benzene	ND	0.050	86.2	85.7	0.552	85.1	60 - 106	30	70 - 137	
t-Butyl alcohol (TBA)	ND	0.20	103	105	1.72	96.5	56 - 140	30	50 - 143	
Chlorobenzene	ND	0.050	87.3	86.7	0.600	87.4	61 - 108	30	69 - 133	
1,2-Dibromoethane (EDB)	ND	0.050	89	87.4	1.82	86.9	54 - 119	30	61 - 135	
1,2-Dichloroethane (1,2-DCA)	ND	0.050	78.3	78.8	0.628	75.7	48 - 115	30	64 - 133	
1,1-Dichloroethene	ND	0.050	73.7	72.8	1.23	74.9	46 - 111	30	65 - 142	
Diisopropyl ether (DIPE)	ND	0.050	80.6	79.6	1.23	79.1	53 - 111	30	65 - 134	
Ethyl tert-butyl ether (ETBE)	ND	0.050	83.5	82.7	0.909	80.4	61 - 104	30	61 - 127	
Methyl-t-butyl ether (MTBE)	ND	0.050	82.1	82.3	0.323	79.7	58 - 107	30	65 - 130	
Toluene	ND	0.050	91	90.3	0.814	90.5	64 - 114	30	70 - 146	
Trichloroethene	ND	0.050	90.9	89.9	1.06	89.2	60 - 116	30	66 - 143	
%SS1:	87	0.12	90	91	0.466	90	64 - 117	30	70 - 130	
%SS2:	100	0.12	101	101	0	99	79 - 133	30	70 - 130	
%SS3:	92	0.012	92	94	1.80	98	88 - 121	30	70 - 130	

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed	
1207737-002A	07/28/12 10:22 AM	07/30/12	07/30/12 4:53 PM					٦

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 SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 69526 WorkOrder: 1207737

EPA Method: SW8260B	Extraction: SW5030B						Spiked Sam	ple ID:	1207737-001B
Analyte	Sample	Spiked	MS	MS MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
tert-Amyl methyl ether (TAME)	ND	10	99	94.2	5.00	93.9	70 - 130	20	70 - 130
Benzene	ND	10	89.9	88.2	1.93	91.8	70 - 130	20	76 - 106
t-Butyl alcohol (TBA)	ND	40	116	111	4.08	106	70 - 130	20	70 - 130
Chlorobenzene	ND	10	91.6	90.7	1.00	94.8	70 - 130	20	79 - 105
1,2-Dibromoethane (EDB)	ND	10	103	102	1.42	102	70 - 130	20	76 - 116
1,2-Dichloroethane (1,2-DCA)	ND	10	109	104	4.24	105	70 - 130	20	69 - 111
1,1-Dichloroethene	ND	10	79	78.1	1.24	82.8	70 - 130	20	70 - 104
Diisopropyl ether (DIPE)	ND	10	98.2	95.3	2.93	101	70 - 130	20	79 - 111
Ethyl tert-butyl ether (ETBE)	ND	10	99.4	95.7	3.81	98	70 - 130	20	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	103	100	2.98	102	70 - 130	20	70 - 130
Toluene	ND	10	85	85.8	0.974	89.7	70 - 130	20	70 - 130
Trichloroethene	ND	10	90	88.8	1.26	92.8	70 - 130	20	70 - 130
%SS1:	107	25	105	106	0.834	104	70 - 130	20	70 - 130
%SS2:	93	25	92	93	1.74	95	70 - 130	20	70 - 130
%SS3:	106	2.5	105	109	3.32	110	70 - 130	20	70 - 130

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

#### BATCH 69526 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1207737-001B	07/28/12	2 07/30/12	07/30/12 1:38 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.

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

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

#### QC SUMMARY REPORT FOR 6010B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 69432

WorkOrder: 1207737

EPA Method: SW6010B	Extraction: SW3050B					:	Spiked Sam	ple ID:	1207658-001A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Iron	16,000	100	NR	NR	NR	108	N/A	N/A	75 - 125
%SS:	101	500	102	105	3.72	107	70 - 130	30	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

BATCH 69432 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed	
1207737-002A	07/28/12 10:22 AM	07/30/12	07/31/12 11:19 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.

SH QA/QC Officer

#### QC SUMMARY REPORT FOR E200.7

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 69454

WorkOrder: 1207737

EPA Method: E200.7	Extraction: E200.7			4.1			Spiked San	nple ID:	1207549-002A
Analyte	Sample	nple Spiked		MSD	MS-MSD	LCS	Acceptance Criteria (%)		
1000000 P	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Iron	ND	1000	94.6	94.5	0.0952	92.2	70 - 130	20	85 - 115
%SS:	105	750	100	104	3.75	104	70 - 130	30	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 69454 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1207737-001C	07/28/12	07/30/12	07/31/12 11:56 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.

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

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 69449 WorkOrder: 1207737

EPA Method: SW8015Bm	Extraction: SW5030B						Spiked Sam	ple ID:	1207668-002A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH(btex) <sup>£</sup>	ND	0.60	109	106	3.32	111	70 - 130	20	70 - 130
МТВЕ	ND	0.10	85.5	85.1	0.464	84.7	70 - 130	20	70 - 130
Benzene	ND	0.10	104	99.7	3.94	102	70 - 130	20	70 - 130
Toluene	ND	0.10	104	101	2.40	101	70 - 130	20	70 - 130
Ethylbenzene	ND	0.10	102	102	0	99.9	70 - 130	20	70 - 130
Xylenes	ND	0.30	103	105	2.71	101	70 - 130	20	70 - 130
%SS:	115	0.10	126	105	17.6	120	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

#### BATCH 69449 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1207737-002A	07/28/12 10:22 AM	07/30/12	07/30/12 3:39 PM	1207737-003A	07/28/12	07/30/12	07/30/12 11:04 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 SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 69523

WorkOrder: 1207737

EPA Method: SW8015Bm	Extraction: SW5030B						Spiked Sam	ple ID:	1207737-001A
Analyte	Sample	Spiked	MS % Rec.	- 1		LCS	Acceptance Criteria (%)		
	μg/L	L μg/L				% Rec.	MS / MSD	RPD	LCS
TPH(btex) <sup>£</sup>	ND	60	105	107	1.45	106	70 - 130	20	70 - 130
MTBE	ND	10	98.9	95	3.79	87.2	70 - 130	20	70 - 130
Benzene	ND	10	98	94	4.17	91.3	70 - 130	20	70 - 130
Toluene	ND	10	101	97.8	3.10	96.7	70 - 130	20	70 - 130
Ethylbenzene	ND	10	103	100	2.74	96.1	70 - 130	20	70 - 130
Xylenes	ND	30	106	103	2.18	98.3	70 - 130	20	70 - 130
%SS:	85	10	91	90	1.31	90	70 - 130	20	70 - 130

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

#### BATCH 69523 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1207737-001A	07/28/12	07/30/12	07/30/12 4:44 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, or inconsistency in sample containers.



#### QC SUMMARY REPORT FOR 6010B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 69452 WorkOrder: 1207737

EPA Method: SW6010B	Extraction: SW3050B						Spiked Sam	ple ID:	1207670-003A
Analyte	Sample	Spiked	MS % Rec.		MS-MSD % RPD	LCS % Rec.	Acceptance Criteria (%)		
	mg/Kg	mg/Kg					MS / MSD	RPD	LCS
Cadmium	ND	50	99.6	101	1.40	98.7	75 - 125	25	75 - 125
Chromium	11	50	98.7	104	4.11	98.3	75 - 125	25	75 - 125
Lead	44	50	101	109	4.54	97.6	75 - 125	25	75 - 125
Nickel	10	50	94.9	100	4.41	97.9	75 - 125	25	75 - 125
Zinc	97	500	107	110	2.38	102	75 - 125	25	75 - 125
%SS:	96	500	94	95	0.106	100	70 - 130	20	70 - 130

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

#### BATCH 69452 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1207737-003A	07/28/12	07/30/12	07/31/12 9:47 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.

#### QC SUMMARY REPORT FOR SW6020

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 69412

WorkOrder: 1207737

EPA Method: SW6020	Extraction: SW3050B						Spiked Sam	ple ID:	1207633-001A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
,	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Arsenic	12	50	108	102	4.78	107	75 - 125	20	75 - 125
Cadmium	0.99	50	109	104	5.26	108	75 - 125	20	75 - 125
Chromium	66	50	92.6	84.2	3.79	107	75 - 125	20	75 - 125
Copper	83	50	97.6	83.8	5.36	109	75 - 125	20	75 - 125
Lead	61	50	104	93.4	4.63	104	75 - 125	20	75 - 125
Mercury	0.41	1.25	109	103	4.38	110	75 - 125	20	75 - 125
Nickel	51	50	102	92	4.79	108	75 - 125	20	75 - 125
Silver	1.1	50	108	103	4.57	108	75 - 125	20	75 - 125
Zinc	160	500	109	102	5.61	110	75 - 125	20	75 - 125
%SS:	120	500	113	110	3.28	111	70 - 130	20	70 - 130

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

#### BATCH 69412 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1207737-002A	07/28/12 10:22 AM	07/30/12	07/30/12 10:02 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 = 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 E200.8

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 69415 WorkOrder: 1207737

EPA Method: E200.8	Extraction: E200.8	Extraction: E200.8										
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)					
	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS			
Arsenic	2.3	50	103	102	0.933	106	70 - 130	20	85 - 115			
Cadmium	ND	50	102	101	0.473	106	70 - 130	20	85 - 115			
Chromium	ND	50	94.4	93.4	1.07	98.7	70 - 130	20	85 - 115			
Copper	20	50	98.1	96.9	0.856	106	70 - 130	20	85 - 115			
Lead	ND	50	101	101	0	104	70 - 130	20	85 - 115			
Mercury	ND	1.25	109	110	0.507	110	70 - 130	20	85 - 115			
Nickel	0.68	50	97.9	97.3	0.626	104	70 - 130	20	85 - 115			
Silver	ND	50	99.4	98.9	0.484	105	70 - 130	20	85 - 115			
Zinc	ND	500	100	99.9	0.495	107	70 - 130	20	85 - 115			
%SS:	104	750	104	104	0	102	70 - 130	20	85 - 115			

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

#### BATCH 69415 SUMMARY

		Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
ı	1207737-001C	07/28/12	07/30/12	07/30/12 9:32 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 = 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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### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 69450 WorkOrder: 1207737

EPA Method: SW8015B	Extraction: SW3550B				Spiked Sample ID: 120766						
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)				
V 237 (glacin € 1000)	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS		
TPH-Diesel (C10-C23)	ND	40	108	109	1.37	108	70 - 130	30	70 - 130		
%SS:	98	25	95	96	0.903	93	70 - 130	30	70 - 130		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 69450 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1207737-002A	07/28/12 10:22 AM	07/30/12	07/30/12 6:28 PM	1207737-003A	07/28/12	07/30/12	07/30/12 8:44 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.

#### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 69509 WorkOrder: 1207737

EPA Method: SW8015B	Extraction: SW3510C	traction: SW3510C Sp											
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)						
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS				
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	118	N/A	N/A	70 - 130				
%SS:	N/A	625	N/A	N/A	N/A	104	N/A	N/A	70 - 130				

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

#### BATCH 69509 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed	
1207737-001A	07/28/12	07/30/12	07/30/12 5:19 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.

<u>OK</u>

DHS ELAP Certification 1644

# **Analytical Report**

GEOCON Env. Consultants	Client Project ID: #E8585-06-09; Toll Plaza UST Remove	Date Sampled: 07/28/12
6671 Brisa St	Remove	Date Received: 07/30/12
0071 Bilsa St	Client Contact: John Love	Date Reported: 08/03/12
Livermore, CA 94550	Client P.O.:	Date Completed: 08/03/12

WorkOrder: 1207737 A

August 03, 2012

Dear John:

#### Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: #E8585-06-09; Toll Plaza UST Remove,
- 2) QC data for the above sample, and
- 3) A copy of the chain of custody.

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.

The analytical results relate only to the items tested.

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD | 207737

Website: www.mccampbell.com Email: main@mccampbell.com

Tele

# CHAIN OF CUSTODY RECORD

TURN AROUND TIME

Select to be a selected of the selection	committee in the contraction of	~ ~ .
phone: (877) 252-9262	Fax: (925) 252-9269	GeoTracker

RUSH 24 HR 48 HR 72 HR 5
EDF PDF Excel Write On (DW)

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Report To: John	Love			Bill T	o: Sa	me				-									1	aly	sis R	Request	Other	Comments
Company: Geoc	on Consultan	ts, Inc.					eratem.				-		*****											**Indicate
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Tele: (925) 371-5				Fax:	-			******									80908	}			Š	30		potentially
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SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	Shidee	Other	ICE	HCL	HNO3	Other	TPHg (8015B0)	TPHmo (8015B)	TPH4 (8015B)	V Tatasayara	LUFF Smetals	As, Cd, Cr, Cu, Fe, Pb, Hg, Ni, Ag, Zn	BTEX (8	طرار ما ر			
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Reining is of By:	Date: 7/30/18	Time: 12:40	Received By	GOOD CONDITION COMMENTS:	_
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Relinquished By:	Date:	Time:	Received By:	PRESERVED IN LAB	

McCampbe	nc.			CH	IAII	<b>V-0</b>	F-CI	JST	'OD'	Y R	ECO	RD		Page	1 of	1	
Pittsburg, CA 9 (925) 252-9262		WorkOrder: 1207737 A ClientCode: GECL															
		WaterTrax	Write	OnEDF		Excel		Fax	[	<b>y</b> Email		Hard	Сору	Thi	rdParty	J-	-flag
Report to:  John Love  GEOCON Env. C	Email: lov	ve@geocon	inc.com; Livermo	re@geo			counts F			nts	Requested TAT:  Date Received:			1 day			
6671 Brisa St Livermore, CA 94 925-371-5900	PO: ProjectNo: #E8585-06-09; Toll Plaza UST Remove				6671 Brisa St Livermore, CA 94550				Date Add-On: Date Printed:			08/01/2012 08/01/2012					
					Г				Red	quested	Tests	(See leg	end be	low)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1207737-003	Stockpile A-D		Soil	7/28/2012		Α											

100	
Toct	Legend

1 STLC_PBCR_S	2	3	4	5	
6	7	8	9	10	
	42			. totanaa .	

Prepared by: Maria Venegas

Comments:

24hr Rush. STLC Pb,Cr added to sample 003 8/1/12 48hr



GEOCON Env. Consultants	Client Project ID: #E8585-06-09; Toll	Date Sampled:	07/28/12
6671 Brisa St	Plaza UST Remove	Date Received:	07/30/12
	Client Contact: John Love	Date Extracted:	08/01/12-08/03/12
Livermore, CA 94550	Client P.O.:	Date Analyzed:	08/03/12

#### Lead & Chromium\*

Extraction method: CA Title 22	Analytical methods: SW6010B	Work Order: 1207737
--------------------------------	-----------------------------	---------------------

Lab ID	Client ID	Matrix	Extraction Type	Chromium	Lead	DF	% SS	Comments
003A	Stockpile A-D	S	WET	0.21	19	1	N/A	
					Ser.			
								- 100

Reporting Limit for DF =1;	W	TOTAL	NA	NA	NA
ND means not detected at or above the reporting limit	S	WET	0.05	0.2	mg/L

<sup>\*</sup>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

Angela Rydelius, Lab Manager

DHS ELAP Certification 1644

#### QC SUMMARY REPORT FOR SW6010B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 69513

WorkOrder: 1207737

EPA Method: SW6010B	Extraction: CA Title 22	Extraction: CA Title 22 Spiked Sample ID								
Analyte	Sample	Spiked mg/L	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
,,	mg/L		% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Chromium	N/A	1	N/A	N/A	N/A	91.5	N/A	N/A	75 - 125	
Lead	N/A	1	N/A	N/A	N/A	91.7	N/A	N/A	75 - 125	

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

#### BATCH 69513 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed	
1207737-003A	07/28/12	08/01/12	08/03/12 11:03 AM					10

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.

# **Analytical Report**

GEOCON Env. Consultants	Client Project ID: #E8585-06-09; Toll Plaza UST	Date Sampled: 07/28/12
6671 Brisa St	Remove	Date Received: 07/30/12
	Client Contact: John Love	Date Reported: 08/03/12
Livermore, CA 94550	Client P.O.:	Date Completed: 08/24/12

WorkOrder: 1207737 B

August 24, 2012

Dear John:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: #E8585-06-09; Toll Plaza UST Remove,
- 2) QC data for the above sample, and
- 3) A copy of the chain of custody.

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.

The analytical results relate only to the items tested.

McCAMPBELL ANALYTICAL, INC.
1534 WILLOW PASS ROAD 207737
PITTSBURG, CA 94565-1701 207737

Website: www.mccampbell.com Email: main@mccampbell.com Telephone: (877) 252-9262

Fax: (925) 252-9269

# CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR

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Report To: John	Love			Rill T	o: Sa	me		-			-		+	-						<u> </u>			sample is effluent a		T
Company: Geoc		its, Inc.		17111 1	0. 04	me		en e	-		-	-	-	-	-				A	nalys	is Req	uest		Other	Comments
Tele: (925) 371-: Project #: E8585 Project Location Sampler Signatu	5900 -06-09 : Bay Bridge			Fax:	nil: lov ( 925) ect Na	37	1-59	15			Rei	move	2	A THE PROPERTY OF THE PROPERTY		and the second s	(82608)		Ni, Ag, Zn	3)	iliz 48hr	11/2 6/16			**Indicate here if these samples are potentially dangerous to handle:
		SAM	PLING				MA	TRI	X			HOD			ĺ		S	-	H .	2	80	613	4		
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	Air	Other				TPH« (Sals Bo	TPffmo (8015B)	TPH4 (Satsus	17.04 (201125)	HEX (MILT) VDCs	LUFT Smetals	As, Cd, Cr, Cu, Fe, Ph, Hg, Ni, Ag, Zn	BTEX (SOZIB	STC Pb, Cr 8/1/2 48h	TOLD W. P.			
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# McCampbell Analytical, Inc.

# **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

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

WorkOrder: 1207737 B

ClientCode: GECL

□WaterTrax □WriteOn □EDF □ Excel □Fax

love@geoconinc.com; Livermore@geoconi

ProjectNo: #E8585-06-09; Toll Plaza UST Remove

 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:

CC:

PO:

Bill to:

Accounts Payable

GEOCON Env. Consultants

6671 Brisa St

Livermore, CA 94550

Requested TAT:

1 day 07/30/2012

 Date Received:
 07/30/2012

 Date Add-On:
 08/22/2012

Date Printed: 08/22/2012

								Re	questec	Tests (	See leg	end belo	ow)			
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1207737-003	Stockpile A-D	Soil	7/28/2012		Α											

#### Test Legend:

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

Prepared by: Maria Venegas

Comments:

24hr Rush. STLC Pb,Cr added to sample 003 8/1/12 48hr. TCLP Pb added 8/22/12 per J.L.



Extraction method: SW1311/SW3050B

## McCampbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

Work Order: 1207737

	I and by ICD*		
Livermore, CA 94550	Client P.O.:	Date Analyzed: 08/23/12	
	Client Contact: John Love	Date Extracted: 08/22/12-08/23/12	
6671 Brisa St	Tuza OST Kollove	Date Received: 07/30/12	
GEOCON Env. Consultants	Client Project ID: #E8585-06-09; Toll Plaza UST Remove	Date Sampled: 07/28/12	

Lead	by	ICP*
------	----	------

Analytical methods: SW6010B

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS	Comments
1207737-003A	Stockpile A-D	S	TCLP	ND	1	N/A	
					-		
				7			

Reporting Limit for DF =1; ND means not detected at or	W	TOTAL	NA	μg/L
above the reporting limit	S	TCLP	0.2	mg/L

<sup>\*</sup>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.

TCLP = Toxicity Characteristic Leaching Procedure.

DI TCLP = Toxicity Characteristic Leaching Procedure using DI water.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

<sup>#</sup> 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.

WorkOrder: 1207737

#### QC SUMMARY REPORT FOR SW6010B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 69992

EPA Method: SW6010B	Ext	raction: SW1311/SW3	3050B					Spiked Sam	ple ID:	N/A
Δn	alyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
7.11	alyte	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Lead		N/A	1	N/A	N/A	N/A	104	N/A	N/A	75 - 125

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 69992 SUMMARY

Lab IDDate SampledDate ExtractedDate AnalyzedLab IDDate SampledDate ExtractedDate Analyzed1207737-003A07/28/1208/22/1208/23/12 7:13 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.

DHS ELAP Certification 1644

APPENDIX -



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14 Special Happlino Institution Institutio	T: GEOCON CONSULT  REROR'S CERTIFICATION: I hereby let accarded, and are in all respects in part the contents of this consignment costs minimization statement identified in the d/Typed Name	D#: D 45  FANTS, INC.  y declare that the contents of proper condition for transport of the atta	this consignment are fully according to applicable into ched EPA Acknowledgment	and accurately de emational and nat nt of Consent. or (b) (if I am a sm	LIVERM escribed above ional governmall quantity generally	e by the proper	shipping nan	ne, and are c shipment and	lassified,	packa	ry
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14 Special Happilino Inst PROFILE # CONSULTAN*  15. GENERATOR'S/OF marked and labeled Exporter, I certify th I certify that the was Generator's/Offeror's Print 16. International Shipmer Transporter signature (fo	CH580584B  T: GEOCON CONSULT  HEROR'S CERTIFICATION: I hereby the acarded, and are in all respects in part the contents of this consignment costs minimization statement identified in the d/Typed Name  Its Import to U.S. or exports only):  dyment of Receipt of Materials  ed Name	D#: D 45  FANTS, INC.  y declare that the contents of proper condition for transport of the atta	this consignment are fully according to applicable into ched EPA Acknowledgment large quantity generator) of Signature (Export from U.S.	and accurately de emational and nat nt of Consent. or (b) (if I am a sm	LIVERM escribed above ional governmall quantity generally	e by the proper	shipping nan	ne, and are c shipment and	lassified, I am the	packa Prima	
14 Special Happlino Institute of PROFILE # CONSULTAN  15. GENERATOR'S/OF marked and labeled Exporter, I certify the I certify that the was Generator's/Offeror's Printed Transporter signature (fc 17. Transporter 1 Printed/Type 19. Printed/Type 1	CH580584B  T: GEOCON CONSULT  HEROR'S CERTIFICATION: I hereby the acarded, and are in all respects in part the contents of this consignment costs minimization statement identified in the d/Typed Name  Its Import to U.S. or exports only):  dyment of Receipt of Materials  ed Name	D#: D 45  FANTS, INC.  y declare that the contents of proper condition for transport of the atta	this consignment are fully according to applicable into ched EPA Acknowledgment large quantity generator) of Signature Export from U.S.	and accurately de emational and nat nt of Consent. or (b) (if I am a sm	LIVERM escribed above ional governmall quantity generally	e by the proper	shipping nan	ne, and are c shipment and	lassified, I am the	packar Prima	
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# CLEANHARBORS BUTTONWILLOW, LLC WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed in Chapter 7 (commencing with Section12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agiculture.

3:53 pm 09/04/12		WEIGHMASTER CLEANHARBORS BUTTONWILLOW, LLC
REG. ( 69) INBOUND 56700 1b	PROFILE NO. CIT 580 58413	CROSS ME BY: DEPUTY 94-12
	DISPOSAL LOCATION 35-7-17-0	-19 TARE WT. BY: CA DEPUT OS 04/16
4:57 pm 09/04/12	DRIVER'S NAME STELLE KN	WEIGHING 2500 W. LOKERN ROAD BUTTONWILLOW, CA 93206
REG. ( 69) 56700 lb GROSS	DRIVER'S NAME SIGNATURE	GENERATOR DOT Cal Trans
39880 lb TARE 16820 lb NET	TRACTOR NO.	TRANSPORTER SR
*	TRACTOR CIDTR318	MANIFEST NO. 00 9242072 JJE
END DUMP   TRANSFER   VACUUM   VAN	TRAILER LIC. NO. 2812FD	SERVICE ORDER NO. DJ4586575
1-20ye	BIN NUMBERS: 3335	BIN TRACKING
VIS pH SUL CYA OX FL	FLASH 20% DR	UM NUMBER: 28303562
+ 671 N	n/ cc	MMENTS:
OTHER:		
IC CR PR B.W. LAB SOLID	WORK LAND W.T. MAN- RE- SHEET TRACK SCAN SCAN SCAN	
9 / / / /		DROP FULL:
> NY NY W/	MC MC	VE
	BIN	TO: DATE: BY:

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UNIF	ORM HAZARDOU	s 1. Generator ID Number C A C D D 2 6 9		2. Page 1 of 3. Eme 1 NRC	ergency Respons			924	420 T	71	JJ	K
0/	1 GRAND AV AKLAND CA			1 TO	tor's Site Addres TRAND D- LL PLAZA LAND CA	RD EB &	nan mailing ad 2874	dress)				
	rator's Phone: 5 nsporter 1 Company I		0				U.S. EPA	ID Number				+
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CL 25 BL	signated Facility Nam LEAN HARBO 500 WEST LO UTFON WILL y's Phone: 881	RS KERN RD DW CA 93206					de America	ID Number	067	5 3	2 7	6
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Х	1NON RCRA	HAZARDOUS WASTE SO	DUD (SOIL CON	TAINING CAL	110.	Туре			611		1	
	HAZ LEAD)				001	СМ	00015	Y	1			
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WEIGHMASTER CLEANHARBORS BUTTONWILLOW, LLC

# CLEANHARBORS BUTTONWILLOW, LLC WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed in Chapter 7 (commencing with Section12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agiculture.

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# CLEANHARBORS BUTTONWILLOW, LLC WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed in Chapter 7 (commencing with Section12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agiculture.

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1:26 pm 08/31/12					DRIVER'S NAME JAVIEZ HEUSE.						WEIGHING 2500 W. LOKERN ROAD BUTTONWILLOW, CA 93206					
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APPENDIX F

November 20, 2012

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

Subject:

Underground Storage Tank Removal Report

Bay Bridge Toll Plaza 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.

Ch Bladeal

Chris Bledsoe

Transportation Engineer

Office of Construction Environmental Engineering Support