

**UNDERGROUND FUEL STORAGE TANK  
REMOVALS PROJECT**

**OCTOBER 21, 2013**

**SOUTH TACOMA HONDA SITE  
7802 SOUTH TACOMA WAY  
TACOMA, WASHINGTON**

*Prepared By*

*Paul W. Stemen*

*Stemen Environmental, Inc.*

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# STEMEN ENVIRONMENTAL, INC.

P.O. Box 3644  
LACEY, WASHINGTON 98509-3644  
CONTR. LIC. #STEMEEI081J9

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Telephone 360-438-9521 OR 800-801-9521

October 21, 2013

Mr. Ed McCarroll  
McCarroll Investments Two, LLC  
7802 South Tacoma Way  
Tacoma, Washington 98409-3837

Dear Mr. McCarroll:

RE: UNDEGROUND FUEL STORAGE TANK REMOVALS FOR THE SOUTH TACOMA HONDA SITE LOCATED AT 7802 SOUTH TACOMA WAY, TACOMA, WASHINGTON.

SUBJECT: Excavation, removal and proper off site disposal of one (1) approximately 4000 gallon Underground Gasoline Storage Tank and one (1) approximately 500 gallon Used Oil Underground Storage Tank, following the Guidelines set forth in WAC 173-360-385- and 173-360-390 and Article 79 of the International Fire Code.

## **1.0 SITE CHARACTERISTICS AND BACKGROUND**

The subject property consists of approximately 3.12 acres of commercially zoned, and commercially developed land located 7802 South Tacoma Way, Tacoma, Washington. The subject properties primarily located at Latitude N47.186 Longitude 122.484, and in Section 25, Township 20 North, Range 2 East. The subject property is listed by the Pierce County Assessor's Office as Tax Parcels #0220254028, #0220254010, and #0220254140.

The subject property is currently occupied by the Used Car portion of the South Tacoma Honda Dealership.

The subject property is located in an area that is primarily occupied by light industrial, automobile dealerships, commercial businesses and retail businesses.

The subject property is located within the boundaries of the South Tacoma Groundwater Protection District.

McCarroll Investments Two, LLC is listed as the current owner of the subject property by the Pierce County Assessor's Office.

The subject property is bordered on the east by South Tacoma Way, and developed commercial properties occupied by automotive dealerships, on the north by developed commercial property occupied by additional portions of the South Tacoma Honda Dealership ,

on the south by developed commercial properties primarily occupied by automotive dealerships and on the west by railroad tracks, Flett Creek Holding Basin, commercially developed properties, and undeveloped land.

The Pierce County Records indicate that a 1,660 square foot showroom and maintenance/service garage building was constructed on central portion of property in 2007.

In previous years the subject property was serviced by one (1) 4,000 gallon gasoline underground storage tank, and one (1) 2,000 gallon gasoline underground storage tank, and one (1) 500 gallon used oil underground storage tank.

The two (2) gasoline underground storage tanks were buried directly south of the southern exterior wall of the on-site maintenance/service garage building at a location near the southwestern corner of the building. The two (2) tanks were constructed using single wall steel. The two (2) gasoline underground storage tanks were excavated and removed from the site in 1989. No releases of gasoline from these tanks were reported.

The used oil underground storage tank was buried along the central portion of the western exterior wall of the on-site maintenance/service garage building. The tank was constructed using single wall steel. The used oil underground storage tank was excavated and removed from the site in 1989. Releases of used oils to the surrounding soils was reported. A limited amount of used oil contaminated soils were excavated and removed from this area. It was determined that additional excavation activities could potentially have an adverse impact on the structural integrity of the adjacent building. An unknown quantity of used oil contaminated soils were left in-place.

One (1) 4,000 gallon underground unleaded gasoline storage tank and one (1) 500 gallon underground waste oil storage tank were installed, in the immediate area of the previous underground storage tank burial pit, in 1989. The USTs were placed in a common burial pit. The new tanks were constructed of double wall steel. A small fuel dispensing island is present near the northwestern corner of the UST burial pit.

The 500 gallon waste oil tank was placed out of service in 2005, and is not in regulatory compliance. The out of service tank should have been properly closed/removed within 30 days of being placed out of service as per Pierce County regulations.

The 4,000 gallon gasoline tank is still in-use and is currently in regulatory compliance.

The surface area over the underground storage tanks and surrounding the fuel dispensing island is covered with concrete.

Soils directly surrounding the U.S.T.'s consisted of pea vgravels

Groundwater was not encountered during these underground storage tank removal activities.

## **2.0 TANK REMOVALS AND CORRECTIVE ACTIONS**

Prior to removal the tanks, all residual liquids were properly removed from the tanks and

transported to an off-site disposal/recycling facility by Arcom Oil Company of Tacoma, Washington.

Prior to removal the tanks were properly purged of volatile vapors using dry ice (CO<sub>2</sub>) at a rate of 3 lbs. per 100 gallons capacity as per City of Tacoma Fire Prevention Bureau requirements. The proper inerting/purging of the tanks was certified by a Marine Chemist from U.S. Marine Chemists & Engineering.

On October 16 and 17, 2013, our company excavated and removed one (1) approximately 4,000 gallon gasoline and one (1) approximately 500 gallon used oil underground storage tanks using a backhoe and excavator.

The concrete surface materials over the tanks were demolished, removed, loaded, and transported to an appropriate off-site concrete recycling facility.

Initial excavation activities were focused on the excavation and removal of the soils directly surrounding the underground gasoline storage tank. The soils removed from areas directly surrounding this tank were field screened for signs of petroleum contamination and no soils that were noticeably impacted by petroleum products were found.

All excavated soils were placed on a 6 mil visqueen liner, for temporary storage.

The tank was extracted from the excavation using an excavator. The tank was placed near the excavation perimeter for temporary storage. An inspection of the tank revealed no corrosion or obvious holes on the exterior surface of the tank. The tank appeared to be in excellent physical condition.

Excavation activities were then focused on the excavation and removal of the soils directly surrounding the underground used oil storage tank. The soils removed from areas directly surrounding this tank were field screened for signs of petroleum contamination and no soils that were noticeably impacted by petroleum products were found.

The tank was extracted from the excavation using an excavator. The tank was placed near the excavation perimeter for temporary storage. An inspection of the tank revealed no corrosion or obvious holes on the exterior surface of the tank. The tank appeared to be in excellent physical condition.

Final excavation activities were focused on the small fuel dispensing island. The soils removed from areas directly surrounding this fixture were field screened for signs of petroleum contamination and no soils that were noticeably impacted by petroleum products were found. The fuel dispenser, associated underground piping, and the concrete island were removed from the area and transported to appropriate off-site disposal/recycling facilities.

The steel fuel tanks, underground fuel supply lines, and vent lines were transported to Sutter Metals of Lacey, Washington for recycling as scrap metal.

After removing the fuel tank from the excavation pit, I obtained a total of eight (8) discreet soil samples from various depths and various locations on the floor and sidewalls of the excavation pit. Confirmation soil sample SWOF was obtained from soil present on the southwestern portion of the excavation floor at a depth of 112 inches b.g.s. (below ground surface), soil sample SSW was obtained from soils present in the southern sidewall at a depth of

116 inches b.g.s., soil sample WSW was obtained from the western sidewall of the excavation at a depth of 118 inches b.g.s., and soil sample SNOF was obtained from soils present directly beneath the location of the remote fuel dispenser at a depth of 119 inches b.g.s., soil sample NGF was obtained from soil present on the northeastern portion of the excavation floor at a depth of 132 inches b.g.s., soil sample SGF was obtained from soil present on the southeastern portion of the excavation floor at a depth of 129 inches b.g.s., soil sample ESW was obtained from soils present in the eastern sidewall at a depth of 124 inches b.g.s., soil sample NSW was obtained from soils present in the northern sidewall at a depth of 120 inches b.g.s.

Additionally, discreet soil samples SP1, SP2 and SP3 were obtained from the excavated soils stockpile associated with this excavation.

All soil samples were immediately submitted for appropriate laboratory analyses.

Laboratory analyses results for excavation confirmation soil samples SSW, NSW, ESW, WSW, NGF, SGF, SWOF, SNOF, and excavated soils stockpile samples SP1, SP2, and SP3 reported no presence of gasoline range TPH, diesel fuel range T.P.H., lube oil range TPH, BTEXs, and/or Lead, at levels that exceed MTCA in the soils present in the excavation pit, beneath the pump island, and/or in the excavated soils stockpiles.

The excavation was backfilled using clean on-site and imported fill materials that were mechanically compacted for stability.

### **3.0 SOIL SAMPLING AND LABORATORY ANALYSES PROTOCOLS**

All soil samples were taken with hand sampling tools properly cleaned between individual samples to prevent cross sample contamination. All samples were then tightly packed in recommended sample jars with no head space, properly refrigerated and transported with proper chain of custody forms to ESN Northwest, Inc., of Olympia, Washington for appropriate laboratory analyses. Soil samples were analyzed for the presence of diesel fuel and lube oil range Total Petroleum Hydrocarbons using method NWTPH-Dx / Dx Extended, gasoline range TPH using method NWTPH-Gx, BTEXs (Benzene, Toluene, Ethylbenzene, and Xylenes) using E.P.A. method 8260, and Total Lead using EPA series 7000 method. These analytical methods meet the requirements of MTCA Table 830-1.

During excavation activities, soils were field screened using a water sheen test.

### **4.0 HEALTH AND SAFETY**

1. All on-site work was performed under the Health and Safety guidelines set forth in sections 29 CRF 1910.120 of the Federal Register and Chapter 296-62 WAC which provide regulations for individuals who are engaged in activities involving hazardous substances, including petroleum, and who perform confined space entry during field activities, also Chapter 296-155 WAC which provides State safety standards for construction work.

2. All on-site workers were 40 hour Hazmat certified.

3. A copy of the Site Safety Plan was provided to all on-site employees. The contents of this plan and all potential on-site hazards were discussed during an on-site safety meeting. Based on the contents of this safety plan all workers were required to wear at least Level D protection. First Aid materials were on-site at all times.

4. No significant quantities of flammable liquids were present in these tanks at the commencement of these on-site tank removal activities.

5. The immediate excavation areas were secured using fluorescent orange caution candlesticks/cones and caution tape. Excavation equipment was used to secure sides of the excavation near pedestrian and vehicular traffic pathways.

## **5.0 FACTS AND CONCLUSIONS**

1. Laboratory analyses results for the excavation confirmation soil samples and excavated soil stockpiles reported no presence of gasoline range TPH, diesel fuel range T.P.H., lube oil range TPH, BTEXs, and/or Lead at levels that exceed Ecology's Method "A" Clean Up Levels.

2. All tank removal activities were performed under permit #R00004205, issued by the Tacoma-Pierce County Health Department and permit #13-009001 issued by the Tacoma Fire Department-Fire Prevention Bureau. A 30-day notice was properly filed with Ecology.

3. The steel tanks and underground fuel supply lines were properly cleaned and then transported to the Sutter Metals in Lacey, WA. for proper disposal/recycling as scrap metal.

An on-site inspection of the steel tanks indicated no obvious holes and/or breaches in their integrity. The tanks appeared to be in very good/excellent condition.

4. Prior to the commencement of the U.S.T. excavation and removal activities, the fuel tanks were properly purged of volatile vapors using dry ice (CO<sub>2</sub>) at a rate of 3 lbs per 100 gallons capacity. The proper inerting of the tanks was certified by a Marine Chemist from U.S. Marine Chemists & Engineering.

5. The tank removal project was inspected and approved by Rob Olsen of the Tacoma-Pierce County Health Department.

6. The excavation pit was backfilled using clean on-site and imported structural backfill materials that were mechanically compacted for stability.

It is my opinion, the underground storage tank removals and Site Assessment meet all current requirements of Pierce County, the City of Tacoma, Ecology, and the Washington State Fire Code.

**All U.S.T. removals and associated corrective actions performed on this site meet current industry and regulatory standards for these actions.**

**All opinions, observations, and recommendations set forth in this report are based on currently available information and current on-site conditions, and cannot predict or report on the impacts of future events and/or regulatory requirements on this site.**

If you have any questions or need further information please feel free to contact us at the above phone number.

Sincerely,

A handwritten signature in black ink, appearing to read "Paul W. Stemen". The signature is fluid and cursive, with a large initial "P" and "S".

Paul W. Stemen  
Ecology-Registered Site Assessment Supervisor  
ASTM Certified  
IFCI #0874201-U2

cc: Department of Ecology- Toxics Clean Up Program  
Tacoma Pierce County Health Department  
City of Tacoma Fire Department  
Ron Coleman, Atty  
File

**APPENDIX A**

**LABORATORY ANALYSES  
CHARTS, SAMPLING  
LOCATION MAP, SITE  
PHOTOS, AND SITE MAP**

7802 S. TACOMA WAY  
CONFIRMATION SAMPLES

ANALYSIS OF DIESEL, LUBE OIL, GASOLINE RANGE ORGANICS AND BTEX IN SOIL BY METHODS NWTPH-Dx EXTENDED AND NWTPH-GX/8260C/5035A										
SAMPLE NUMBER	SAMPLE DATE	DEPTH	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	GASOLINE RANGE ORGANICS	DIESEL RANGE ORGANICS	LUBE OIL RANGE ORGANICS	
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SSW	10/17/13	116"	ND	ND	ND	ND	ND	ND	ND	ND
NSW	10/17/13	120"	ND	ND	ND	ND	ND	ND	ND	ND
ESW	10/17/13	124"	ND	ND	ND	ND	ND	ND	ND	ND
WSW	10/17/13	118"	ND	ND	ND	ND	ND	ND	ND	ND
NGF	10/17/13	132"	ND	0.05	ND	ND	ND	ND	ND	ND
SGF	10/17/13	129"	ND	ND	ND	ND	ND	ND	ND	ND
SWOF	10/17/13	112"	ND	ND	ND	ND	ND	ND	ND	ND
SNOF	10/17/13	119"	ND	ND	ND	ND	ND	ND	ND	ND
STOCKPILE SAMPLES										
SP1	10/17/13	VARIOUS	ND	ND	ND	ND	ND	NA	NA	NA
SP2	10/17/13	VARIOUS	ND	ND	ND	ND	ND	NA	NA	NA
SP3	10/17/13	VARIOUS	ND	ND	ND	ND	ND	54	NA	NA
REPORTING LIMITS			0.02	0.05	0.05	0.15	10	50	100	
METHOD A CLEANUP LEVELS			0.03	7	6	9	30	2000	2000	
ALYSIS OF TOTAL LEAD IN SOIL BY METHOD 6020A/3050B										
SAMPLE NUMBER	SAMPLE DATE	DEPTH	LEAD (Pb)							
			mg/kg							
SSW	10/17/13	116"	ND							
NSW	10/17/13	120"	ND							
ESW	10/17/13	124"	ND							
WSW	10/17/13	118"	ND							
NOF	10/17/13	132"	ND							
SOF	10/17/13	129"	ND							
SWOF	10/17/13	112"	ND							
SNOF	10/17/13	119"	ND							
STOCKPILE SAMPLES										
SP1	10/17/13	VARIOUS	ND							
SP2	10/17/13	VARIOUS	ND							
SP3	10/17/13	VARIOUS	ND							

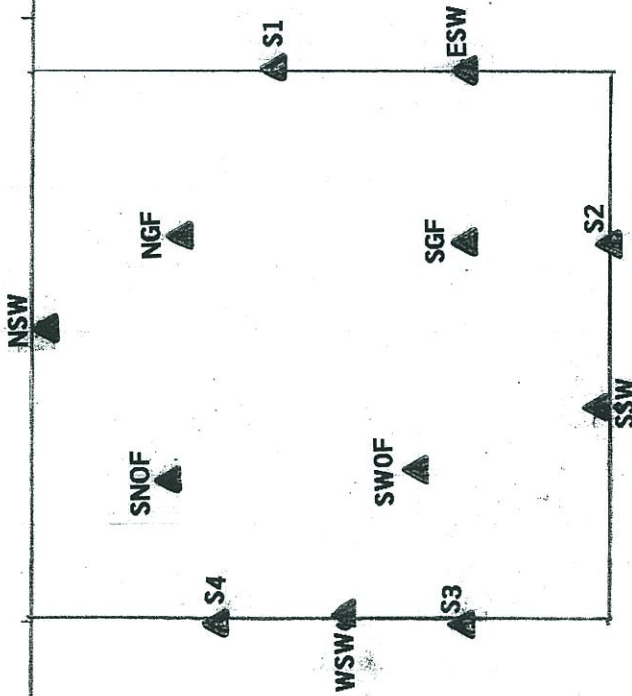
7802 SOUTH TACOMA WAY  
 PHASE II INVESTIGATION SAMPLE

ANALYSIS OF GASOLINE RANGE ORGANICS & BTEX IN SOIL BY METHOD NWTPH-GX/8260		ANALYSIS OF DIESEL RANGE ORGANICS & LUBE OIL RANGE ORGANICS IN SOIL BY METHOD NWTPH-Dx/D EXTENDED							
SAMPLE NUMBER	SAMPLE DATE	SAMPLE DEPTH	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	GASOLINE RANGE ORGANICS	DIESEL RANGE ORGANICS	LUBE OIL RANGE ORGANICS
S1-15	8/5/2013	15'	mg/kg ND	mg/kg ND	mg/kg ND	mg/kg ND	mg/kg ND	mg/kg ND	mg/kg ND
S2-10	8/5/2013	10'	ND	ND	ND	ND	ND	ND	ND
S3-14	8/5/2013	14'	ND	ND	ND	ND	ND	ND	ND
S4	8/5/2013	12'	ND	ND	ND	ND	ND	ND	ND

MAINTENANCE/SERVICE GARAGE

ROLL UP DOOR

DOOR



UST REMOVAL PROJECT

SAMPLE LOCATION MAP

SCALE 1" = 10'

▲  
NORTH



**USTs IN EXCAVATION**



500 GAL. USED OIL UST



4000 GAL. GASOLINE UST



**APPENDIX B**  
**LABORATORY ANALYSES**  
**DATA**

**ESN NORTHWEST CHEMISTRY LABORATORY**

Stemen Environmental, Inc  
 7802 SOUTH TACOMA WAY PROJECT  
 Tacoma, Washington

ESN Northwest  
 1210 Eastside Street SE Suite 200  
 Olympia, WA 98501  
 (360) 459-4670 (360) 459-3432 Fax  
 lab@esnnw.com

**Analysis of Diesel Range Organics & Lube Oil Range Organics in Soil  
 by Method NWTPH-Dx Extended**

Sample Number	Date Prepared	Date Analyzed	Surrogate Recovery (%)	Diesel Range Organics (mg/kg)	Lube Oil Range Organics (mg/kg)
Method Blank	10/17/2013	10/17/2013	96	nd	nd
LCS	10/17/2013	10/17/2013	129	111%	---
SSW	10/17/2013	10/17/2013	96	nd	nd
NSW	10/17/2013	10/18/2013	95	nd	nd
ESW	10/17/2013	10/18/2013	128	nd	nd
WSW	10/17/2013	10/18/2013	85	nd	nd
NGF	10/17/2013	10/17/2013	96	nd	nd
SGF	10/17/2013	10/18/2013	93	nd	nd
SWOF	10/17/2013	10/17/2013	94	nd	nd
SWOF Duplicate	10/17/2013	10/17/2013	96	nd	nd
SNOF	10/17/2013	10/17/2013	126	nd	nd
SP1	10/17/2013	10/17/2013	118	nd	nd
SP2	10/17/2013	10/17/2013	92	nd	nd
SP3	10/17/2013	10/17/2013	96	54	nd
<b>Reporting Limits</b>				50	100

"nd" Indicates not detected at the listed detection limits.  
 "int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 50% TO 150%

**ESN NORTHWEST CHEMISTRY LABORATORY**

Stemen Environmental, Inc  
 7802 SOUTH TACOMA WAY PROJECT  
 Tacoma, Washington

ESN Northwest  
 1210 Eastside Street SE Suite 200  
 Olympia, WA 98501  
 (360) 459-4670 (360) 459-3432 Fax  
 lab@esnnw.com

**Analysis of Gasoline Range Organics & BTEX in Soil by Method NWTPH-Gx/8260C/5035A**

Sample Number	Date Prepared	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline Range Organics (mg/kg)	Surrogate Recovery (%)
Method Blank	10/17/2013	10/17/2013	nd	nd	nd	nd	nd	109
LCS	10/17/2013	10/17/2013	87%	90%	81%	85%	94%	103
LCSD	10/17/2013	10/17/2013	85%	96%	91%	87%	---	100
SSW	10/17/2013	10/17/2013	nd	nd	nd	nd	nd	108
NSW	10/17/2013	10/17/2013	nd	nd	nd	nd	nd	108
ESW	10/17/2013	10/17/2013	nd	nd	nd	nd	nd	105
WSW	10/17/2013	10/17/2013	nd	nd	nd	nd	nd	99
WSW Duplicate	10/17/2013	10/17/2013	nd	nd	nd	nd	nd	109
NGF	10/17/2013	10/17/2013	nd	0.05	nd	nd	nd	110
SGF	10/17/2013	10/17/2013	nd	nd	nd	nd	nd	111
SWOF	10/17/2013	10/17/2013	nd	nd	nd	nd	nd	111
SWOF Duplicate	10/17/2013	10/17/2013	nd	nd	nd	nd	nd	107
SNOF	10/17/2013	10/17/2013	nd	nd	nd	nd	nd	97
SP1	10/17/2013	10/17/2013	nd	nd	nd	nd	nd	100
SP2	10/17/2013	10/17/2013	nd	nd	nd	nd	nd	106
SP3	10/17/2013	10/17/2013	nd	nd	nd	nd	nd	111
Reporting Limits			0.02	0.05	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE & LCS: 65% TO 135%

**ESN NORTHWEST CHEMISTRY LABORATORY**

Stemen Environmental, Inc  
7802 SOUTH TACOMA WAY PROJECT  
Tacoma, Washington

ESN Northwest  
1210 Eastside Street SE Suite 200  
Olympia, WA 98501  
(360) 459-4670 (360) 459-3432 Fax  
lab@esnnw.com

**Analysis of Total Lead in Soil by Method 6020A/3050B**

Sample Number	Date Prepared	Date Analyzed	Lead (Pb) (mg/kg)
Method Blank	10/17/2013	10/18/2013	nd
SSW	10/17/2013	10/18/2013	nd
NSW	10/17/2013	10/18/2013	nd
ESW	10/17/2013	10/18/2013	nd
WSW	10/17/2013	10/18/2013	nd
WSW Duplicate	10/17/2013	10/18/2013	nd
NGF	10/17/2013	10/18/2013	nd
SGF	10/17/2013	10/18/2013	nd
SWOF	10/17/2013	10/18/2013	nd
SNOF	10/17/2013	10/18/2013	nd
SP1	10/17/2013	10/18/2013	nd
SP2	10/17/2013	10/18/2013	nd
SP3	10/17/2013	10/18/2013	nd
Reporting Limit			5.0

"nd" Indicates not detected at listed detection limits.

**ESN NORTHWEST CHEMISTRY LABORATORY**

Stemen Environmental, Inc  
 7802 SOUTH TACOMA WAY PROJECT  
 Tacoma, Washington

ESN Northwest  
 1210 Eastside Street SE Suite 200  
 Olympia, WA 98501  
 (360) 459-4670 (360) 459-3432 Fax  
 lab@esnnw.com

**QA/QC Data - Analysis of Total Metals in Soil by Method 6020A/3050B**

Sample Number: SSW							
	Matrix Spike			Matrix Spike Duplicate			RPD
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	
Lead (Pb)	91.7	85.6	93	91.7	86.6	94	1.16

Laboratory Control Sample			
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)
Lead (Pb)	100	99.4	99

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 80%-120%  
 ACCEPTABLE RPD IS 35%

# CHAIN-OF-CUSTODY RECORD



CLIENT: STEMET ENVIRONMENTAL INC DATE: 10-17-13 PAGE 1 OF 1  
 ADDRESS: PO BOX 3244 Lacey, WA PROJECT NAME: 7802 South Tacoma Hwy  
 PHONE: 360 438-5574 FAX: PROJECT LOCATION: Thruway, WA  
 CLIENT PROJECT #: 7802 PROJECT MANAGER: Paula Stewart COLLECTOR: Paul Stewart DATE OF COLLECTION: 10/17/13

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES										NOTES	Total Number of Containers	Laboratory Note Number	
					TPH - HCl	TPH - Diesel & Oil	BTEX	VOC 8260CL	VOC 8260	Semivol 8270	PCB's 8082	PCB's 8270	CI Pesticides 8081	MTCA 5 Metals				Pb
1. SSW	116	815	Soil	3in	x	x	x	x	x	x	x	x	x	x	x	x		
2. LISW	120	815	"	"	x	x	x	x	x	x	x	x	x	x	x	x		
3. LISW	124	820	"	"	x	x	x	x	x	x	x	x	x	x	x	x		
4. WSN	118	825	"	"	x	x	x	x	x	x	x	x	x	x	x	x		
5. NOF	132	835	"	"	x	x	x	x	x	x	x	x	x	x	x	x		
6. SGP	129	840	"	"	x	x	x	x	x	x	x	x	x	x	x	x		
7. SWUP	112	845	"	"	x	x	x	x	x	x	x	x	x	x	x	x		
8. SWOR	115	850	"	"	x	x	x	x	x	x	x	x	x	x	x	x		
9. SPI	---	855	"	"	x	x	x	x	x	x	x	x	x	x	x	x		
10. SPK	---	900	"	"	x	x	x	x	x	x	x	x	x	x	x	x		
11. SPB	---	905	"	"	x	x	x	x	x	x	x	x	x	x	x	x		
12.																		
13.																		
14.																		
15.																		
16.																		
17.																		
18.																		

RELINQUISHED BY (Signature) [Signature] DATE/TIME 10/17/13 RECEIVED BY (Signature) [Signature] DATE/TIME 10/17/13  
 LABORATORY NOTES:  
 TOTAL NUMBER OF CONTAINERS  
 CHAIN OF CUSTODY SEALS Y/N/NA  
 SEALS INTACT? Y/N/NA  
 RECEIVED GOOD COND./COLD  
 NOTES:

**APPENDIX C**

**OTHER PERTINENT  
INFORMATION**



Tacoma-Pierce County  
**Health Department**  
Healthy People in Healthy Communities

**UNDERGROUND STORAGE TANK REMOVAL  
PERMIT**

3629 South "D" Street Tacoma WA 98418 (253) 798-6470

**Permit #:** RO0004205

**Issued Date:** 10/02/2013

**Site Location:** 7802 South Tacoma WAY, Tacoma, WA 98409

**Facility Name:** South Tacoma Honda

**Removal Firm:** Stemen Environmental

**Number of Tanks to be Removed:** 2

Approval Signature

- All work must be performed in accordance with Environmental Health Code, Chapter 4 Underground Storage Tanks, Board of Health Resolution, #2010-4225.
- Decommissioning and Site Assessment schedule must be approved by the Health Department at least five (5) working days prior to the start date by calling (253) 798-2855.
- An UST site assessment report must be submitted to the Health Department within 90 days of UST decommissioning.

**Permit must be accessible at site - DO NOT ALTER OR DEFACE  
Expires 180 days from issued date.**



**Tacoma Fire Department**  
 Fire Prevention Bureau 253.591.5740  
 FAX Number 253.594.7943  
 3471 S. 35<sup>th</sup> St. Tacoma, WA 98409  
[www.tacomafiredepartment.org](http://www.tacomafiredepartment.org)

## PERMIT

For inspection call (253) 591-5754 or  
 Inspection request form can be faxed or e-mailed to [TFDPermits@cityoftacoma.org](mailto:TFDPermits@cityoftacoma.org)

<b>Permit Type: Underground Tank - Removal or Decommissioning Commercial</b>			<b>Permit Number: 13-009001</b>		
<b>PERMIT INFORMATION</b>					
Date Issued:	9/25/13	Event date:	Expiration date: 11/25/13		
Issued to:	<b>Stemen Environmental, Inc.</b>				
Address:	<b>PO Box 3644</b>	City: <b>Lacey</b>	State: <b>WA</b>	Zip: <b>98509</b>	
Site Address:	(if different from above) 7802 So. Tacoma Way, Tacoma, WA				
Contact Name:					
Phone:	<b>(360) 438-9521</b>	Alternate Phone/Cell: (      )			
E-mail Address:	<b>stemenenvironmental@msn.com</b>				
<b>ADDITIONAL CONDITIONS OF PERMIT</b>					
1. Comply with IFC 2012 and TMC III					
2.					
3.					
<b>FPB OFFICIAL USE ONLY</b>					
Issued By:	<b>Lt. Tom Pickford</b>				
<b>INSPECTION RECORD</b>					
Date:	<i>9/26/13</i>	Inspector:	<i>Pickford</i>	Passed <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>
Reason for inspection failure:					
<b>RE-INSPECTION RECORD</b>					
Date:		Inspector:		Passed <input type="checkbox"/>	Fail <input type="checkbox"/>
Reason for inspection failure:					



Stemen Environmental, Inc.	Stemen Environmental, Inc. PO BOX 3644 Lacey, WA 98500/S. Tacoma Honda	Oct 16, 2013
Survey Requested by	Vessel Owner Agent	Date
USTs	Underground Storage Tanks	7802 S. Tacoma Way, Washington
Vessel	Type of Vessel	Specific Location of Vessel
Gasoline (3X)/Waste Oil (3X)	O <sub>2</sub> , LEL, Visual	12:20
Last Three 3 Loadings	Tests Performed	Time Survey Completed

**Inspected Spaces:**

- Group 1.
- ONE (1) 4,000 GALLON UST (GASOLINE)
- ONE (1) 500 GALLON UST (WASTE OIL)

**Safety Designations:**

**NOT SAFE FOR WORKERS**  
**NOT SAFE FOR HOT WORK**  
**INERTED**

**Inert Medium:** —Carbon Dioxide (CO<sub>2</sub>)/DRY ICE  
**Method for maintaining safe conditions:** —Keep all inerted tank(s) and piping closed, secured and tagged out.  
**Measures for safe disposal of inert gas:** —Keep inerted tanks closed, secured.  
**Other instructions:** —EXCAVATION & TRANSPORT TANKS OFFSITE AUTHORIZED. KEEP TANKS OPENINGS CLOSED AND SECURED WITH ONE 1/8" VENT HOLE PER TANK.  
 —THIS CERTIFICATE EXPIRES AT 12:20 PM ON OCTOBER 17, 2013.

**Test Results**

	% O <sub>2</sub>	% LEL
Inspected spaces group 1	<6%	N/A

**Limits of Detection**

0.5% O<sub>2</sub>, 1% LEL, 0.1 ppm H<sub>2</sub>S, 1 ppm CO, 0.1 ppm Benzene, 1 ppm THC/VOC

In the event of physical or atmospheric changes affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, this certificate is voided; spaces not listed on the Certificate are not to be entered unless authorized on another Certificate and/or maintained in accordance with OSHA 29 CFR 1915; or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist. Unless otherwise stated on the Certificate, all spaces and affected adjacent spaces are to be reinspected daily or more often as necessary by the competent person or the authority having jurisdiction as applicable in support of work prior to entry or recommencement of work.

**QUALIFICATIONS:** Transfer of ballast, cargo, fuel or manipulation of valves or closure equipment tending to alter conditions in pipelines, tanks, or compartments subject to gas accumulation, unless specifically approved on this Certificate, requires inspection and a new Certificate for spaces so affected. All lines, vents, heating coils, valves, and similar enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated. Movement of the vessel from its specific location voids the Certificate unless shifting of the vessel within the facility has been specifically authorized on this certificate.

**STANDARD SAFETY DESIGNATIONS:** (partial list, paraphrased from NFP 306, Subsections 4.3.1 through 4.3.6)

**ATMOSPHERE SAFE FOR WORKERS:** In the compartment or space so designated (a) the oxygen content of the atmosphere shall be at least 19.5 percent and not greater than 22 percent by volume; (b) the concentration of flammable materials is below 10 percent of the lower explosive limit; (c) any toxic materials in the atmosphere associated with cargo, fuel, tank coatings, inerting mediums, or fumigants are within permissible concentrations at the time of the inspection.

**NOT SAFE FOR WORKERS:** In the compartment or space so designated, entry shall not be permitted.

**ENTER WITH RESTRICTIONS:** In the compartment or space so designated, entry for work is permitted only if conditions of proper protective equipment, or clothing, or time, or all of the aforementioned, as appropriate, are as specified.

**SAFE FOR HOT WORK:** In the compartment or space so designated (a) the oxygen content of the atmosphere is not greater than 22 percent by volume, (b) the concentration of flammable materials in the atmosphere is less than 10 percent of the lower explosive limit; (c) the residues, scale, or preservative coatings are cleaned sufficiently to prevent the spread of fire and are not be capable of producing a higher concentration than permitted by (a) or (b); (d) all adjacent spaces, containing or having contained flammable or combustible materials shall be sufficiently cleaned of residues, scale, or preservative coatings to prevent the spread of fire, or they are inerted. Ship's fuel tanks, lube tanks, or engine room or fire room bilges, or other machinery spaces, are treated in accordance with the Marine Chemist's requirements.

**SAFE FOR LIMITED HOT WORK:** In the compartment or space so designated (a) portions of the space meet the requirements Safe for Hot Work and Partial Cleaning, as applicable, or (b) the space is inerted, adjacent spaces meet the requirements for Safe for Hot Work, and hot work is restricted to specific locations; (c) portions of the space shall meet the requirements for Safe for Hot Work, as applicable; and the nature or type of hot work shall be limited or restricted.

**NOT SAFE FOR HOT WORK:** In the compartment or space so designated, hot is not permitted.

**CHEMISTS ENDORSEMENT.** This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certificate under NFPA 306 and understands conditions and limitations under which it was issued, and the requirements for maintaining its validity."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Authorized Representative

Oct 16, 2013  
Date

Stemen Environmental, Inc.  
Company

Signed Marine Chemist

667  
CMC No.

ID 0.1

GROSS 46320 lb INBOUND

10/17/2013 01:51PM

ID 0.1

GROSS 46320 lb RECALLED

TARE 36820 lb

NET 9500 lb

10/17/2013 02:24PM

Driver On

Driver Off

Customer Signature: \_\_\_\_\_

Steaman Environmental

FLM